$Filter\ Summary\ Report:\ VLSI, CMMF, Automated, NA, Z1, Z2, Z3, Z4, Z5, Z6$

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Contents

1 Examined H(z) for VLSI CMMF Automated NA Z1 Z2 Z3 Z4 Z5 Z6: $\frac{Z_1Z_2Z_4Z_6}{Z_1Z_4Z_5-Z_2Z_3Z_4+Z_2Z_3Z_5+Z_2Z_4Z_5+Z_3Z_4Z_5}$

$$H(z) = \frac{Z_1 Z_2 Z_4 Z_6}{Z_1 Z_4 Z_5 - Z_2 Z_3 Z_4 + Z_2 Z_3 Z_5 + Z_2 Z_4 Z_5 + Z_3 Z_4 Z_5}$$

- 2 AP
- BP
- **3.1 BP-1** $Z(s) = \left(R_1, R_2, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{-C_5 C_6 R_2 R_3 R_4 R_6 s^2 + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s \left(-C_5 R_2 R_3 R_4 + C_6 R_1 R_4 R_6 + C_6 R_2 R_3 R_6 + C_6 R_2 R_4 R_6 + C_6 R_3 R_4 R_6\right)}$$

Parameters:

Q: $\frac{i\sqrt{C_5}\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_5R_2R_3R_4-C_6R_1R_4R_6-C_6R_2R_3R_6-C_6R_2R_4R_6-C_6R_3R_4R_6}}$ wo: $\frac{\sqrt{-R_1R_4-R_2R_3-R_2R_4-R_3R_4}}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}}}$ bandwidth: $-\frac{i\sqrt{-R_1R_4-R_2R_3-R_2R_4-R_3R_4}(C_5R_2R_3R_4-C_6R_1R_4R_6-C_6R_2R_3R_6-C_6R_2R_4R_6-C_6R_3R_4R_6)}{C_5C_6R_2R_3R_4C_6\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}$

K-HP: 0

K-BP: $-\frac{C_5R_1R_2R_4R_6}{C_5R_2R_3R_4 - C_6R_1R_4R_6 - C_6R_2R_3R_6 - C_6R_2R_4R_6 - C_6R_3R_4R_6}$

Qz: None Wz: None

3.2 BP-2 $Z(s) = \left(R_1, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_5R_1R_2R_4R_6s$

 $H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_5C_6R_1R_4R_5R_6 - C_5C_6R_2R_3R_4R_6 + C_5C_6R_2R_3R_5R_6 + C_5C_6R_2R_3R_4R_5 + C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_3R_3R_5 + C_5R_3R_5 + C_5R_5R_5 + C_5R_5R_5 + C_5R_5R_5 + C_5R_5R_5 + C_5R_5R_5 + C_5R_5R_5 + C_5R_5R_$

Parameters:

 $Q: \frac{\sqrt{C_5}\sqrt{C_6}R_1R_4R_5\sqrt{R_6}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_4R_4 + R_3R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_1R_4R_5 + R_1R_4R_4 + R_1R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_1R_4R_5 + R_1R_4 + R_1R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_1R_4R_5 + R_1R_4R_5 + R_1R_4R_5}}}}}}}}$

wo: $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_5C_6R_1R_4R_5R_6 - C_5C_6R_2R_3R_4R_6 + C_5C_6R_2R_3R_5R_6 + C_5C_6R_2R_4R_5R_6 + C_5C_6R_3R_4R_5R_6}}$

 $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_5R_1R_4R_5 - C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_4R_5 + C_5R_3R_4R_5 + C_6R_1R_4R_6 + C_6R_2R_3R_6 + C_6R_2R_4R_6 + C_6R_3R_4R_6)\sqrt{\frac{C_5C_6R_1R_4R_5R_6 - C_5C_6R_2R_4R_5 + C_6R_2R_4R_6 + C_6R_2R_4R_6 + C_6R_2R_4R_6 + C_6R_2R_4R_6 + C_6R_3R_4R_6 + C_6R_5R_6 + C_6R_5R_6$

K-LP: 0

K-HP: 0

 $\text{K-BP: } \frac{C_5 R_1 R_2 R_4 R_6}{C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_6 R_1 R_4 R_6 + C_6 R_2 R_3 R_6 + C_6 R_2 R_4 R_6 + C_6 R_3 R_4 R_6}$

Wz: None

3.3 BP-3 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s^2 \left(C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6 \right) + s \left(C_4 R_2 R_3 - C_5 R_2 R_3 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_3 R_6 \right)}$$

Parameters:

 $\text{Q: } \frac{C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}}}{C_4R_2R_3-C_5R_2R_3+C_6R_1R_6+C_6R_2R_6+C_6R_3R_6}$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6}}$

 $\frac{\sqrt{R_1 + R_2 + R_3}(C_4 R_2 R_3 - C_5 R_2 R_3 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_3 R_6)\sqrt{\frac{1}{C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6}}}{C_4 \sqrt{C_6} \sqrt{R_2} \sqrt{R_3} \sqrt{R_6} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_4 - C_5}} - C_5 \sqrt{C_6} \sqrt{R_2} \sqrt{R_3} \sqrt{R_6} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_4 - C_5}}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_5R_1R_2R_6}{C_4R_2R_3-C_5R_2R_3+C_6R_1R_6+C_6R_2R_6+C_6R_3R_6}$ Qz: None

Wz: None

3.4 BP-4
$$Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{C_3C_4C_5R_2R_3R_5s^2 + R_1 + R_2 + R_3 + s\left(C_4R_2R_3 + C_5R_1R_5 - C_5R_2R_3 + C_5R_2R_5 + C_5R_3R_5\right)}{C_4C_5R_2R_3R_5s^2 + R_1 + R_2 + R_3 + s\left(C_4R_2R_3 + C_5R_1R_5 - C_5R_2R_3 + C_5R_2R_5 + C_5R_3R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_1+R_2+R_3}}{C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $\frac{C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}{C_4C_5R_2R_3R_5}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_5R_1R_2R_6}{C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$

Qz: None Wz: None

3.5 BP-5 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_4C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6\right) + s\left(C_4R_2R_3R_4 - C_5R_2R_3R_4 + C_6R_1R_4R_6 + C_6R_2R_3R_6 + C_6R_2R_4R_6 + C_6R_3R_4R_6\right)}$

Parameters:

 $\frac{C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{C_4R_2R_3R_4-C_5R_2R_3R_4+C_6R_1R_4R_6+C_6R_2R_3R_6+C_6R_2R_4R_6+C_6R_3R_4R_6}$

wo: $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_4C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6}}$

 $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_4R_2R_3R_4 - C_5R_2R_3R_4 + C_6R_1R_4R_6 + C_6R_2R_3R_6 + C_6R_2R_4R_6 + C_6R_3R_4R_6)\sqrt{\frac{1}{C_4C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6}}$ $C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_4-C_5}} - C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_4-C_5}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_4R_2R_3R_4 - C_5R_2R_3R_4 + C_6R_1R_4R_6 + C_6R_2R_3R_6 + C_6R_2R_4R_6 + C_6R_3R_4R_6}$

Qz: None Wz: None

3.6 BP-6 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_5R_1R_2R_4R_6s$ $H(s) = \frac{1}{C_4 C_5 R_2 R_3 R_4 R_5 s^2 + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s \left(C_4 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5 \right)}{C_4 C_5 R_2 R_3 R_4 R_5 s^2 + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s \left(C_4 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_2 R_4 R_5 \right)}$

Parameters:

Q: $\frac{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{C_4C_5R_2R_3R_4R_5}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$

Qz: None Wz: None

3.7 BP-7
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_{3}R_{1}R_{2}R_{4}R_{6}s}{-R_{2}R_{4} + R_{2}R_{5} + R_{4}R_{5} + s^{2}\left(C_{3}C_{6}R_{1}R_{4}R_{5}R_{6} + C_{3}C_{6}R_{2}R_{4}R_{5}R_{6}\right) + s\left(C_{3}R_{1}R_{4}R_{5} + C_{3}R_{2}R_{4}R_{5} - C_{6}R_{2}R_{4}R_{6} + C_{6}R_{2}R_{5}R_{6} + C_{6}R_{4}R_{5}R_{6}\right)}$$

Q: $\frac{\sqrt{C_3}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_2}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_3R_1R_4R_5+C_3R_2R_4R_5-C_6R_2R_4R_6+C_6R_2R_5R_6+C_6R_4R_5R_6}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_3C_6R_1R_4R_5R_6+C_3C_6R_2R_4R_5R_6}}$ bandwidth: $\frac{C_3R_1R_4R_5+C_3R_2R_4R_5-C_6R_2R_4R_6+C_6R_2R_5R_6+C_6R_4R_5R_6}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_2}\sqrt{C_3C_6R_1R_4R_5R_6+C_3C_6R_2R_4R_5R_6}}$ W. I.D. 0

Wz: None

3.8 BP-8 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4 + C_5C_6R_2R_5 + C_5C_6R_4R_5\right)}$$

Parameters:

wo: $\frac{1}{\sqrt{C_3C_5R_1}R_4R_5+C_3C_5R_2R_4R_5}$ bandwidth: $\frac{C_3R_1R_4+C_3R_2R_4-C_5R_2R_4+C_5R_2R_5+C_5R_4R_5}{\sqrt{C_3\sqrt{C_5}\sqrt{R_4\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3C_5R_1R_4R_5}+C_3C_5R_2R_4R_5}}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4+C_3C_6R_2R_4-C_5C_6R_2R_4+C_5C_6R_2R_5+C_5C_6R_4R_5}$ Qz: None

Wz: None

3.9 BP-9 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s^2 \left(C_3 C_6 R_1 R_5 R_6 + C_3 C_6 R_2 R_5 R_6 + C_4 C_6 R_2 R_5 R_6\right) + s \left(C_3 R_1 R_5 + C_3 R_2 R_5 + C_4 R_2 R_5 - C_6 R_2 R_6 + C_6 R_5 R_6\right)}$

Parameters:

K-HP: 0

K-BP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5 - C_6R_2R_6 + C_6R_5R_6}$

Qz: None Wz: None

3.10 BP-10 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2s}{C_6 + s^2\left(C_3C_5C_6R_1R_5 + C_3C_5C_6R_2R_5 + C_4C_5C_6R_2R_5\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2 + C_5C_6R_5\right)}$$

Parameters:

wo: $\frac{1}{\sqrt{C_3C_5R_1R_5 + C_4R_2 - C_5R_2 + C_5R_5}}$ bandwidth: $\frac{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_5R_5}{\sqrt{C_5}\sqrt{R_5}\sqrt{C_3R_1 + C_3R_2 + C_4R_2}\sqrt{C_3C_5R_1R_5 + C_3C_5R_2 + C_4C_5R_2}}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2+C_5C_6R_5}$ Qz: None

Wz: None

3.11 BP-11
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s^2 \left(C_3 C_6 R_1 R_4 R_5 R_6 + C_3 C_6 R_2 R_4 R_5 R_6 + C_4 C_6 R_2 R_4 R_5 R_6\right) + s \left(C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 + C_4 R_2 R_4 R_5 - C_6 R_2 R_4 R_6 + C_6 R_2 R_5 R_6\right) + s \left(C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 + C_4 R_2 R_4 R_5 + C_6 R_2 R_4 R_6 + C_6 R_2 R_5 R_6\right) + s \left(C_3 R_1 R_4 R_5 + C_4 R_2 R_4 R_5 + C_6 R_4 R_5 + C_6 R_4 R_5 + C_6 R_4 R_5 + C_6 R_5 R_5 + C$$

Parameters:

K-HP: 0

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5 + C_3R_2R_4R_5 + C_4R_2R_4R_5 - C_6R_2R_4R_6 + C_6R_2R_5R_6 + C_6R_4R_5R_6}$

Qz: None Wz: None

3.12 BP-12
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4R_5 + C_4C_5C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4 + C_5C_6R_2R_5 + C_5C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_2+R_4}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_3R_1R_4+C_3R_2R_4+C_4R_2R_4-C_5R_2R_4+C_5R_2R_5+C_5R_4R_5}$ wo: $\frac{\sqrt{R_2+R_4}}{\sqrt{C_3C_5R_1R_4R_5+C_3C_5R_2R_4R_5+C_4C_5R_2R_4R_5}}$ bandwidth: $\frac{C_3R_1R_4+C_3R_2R_4+C_4R_2R_4-C_5R_2R_4+C_5R_2R_5+C_5R_4R_5}{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_3C_5R_1R_4R_5+C_3C_5R_2R_4R_5+C_4C_5R_2R_4R_5}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4 + C_5C_6R_2R_5 + C_5C_6R_4R_5}$

Qz: None Wz: None

3.13 BP-13 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_3R_1R_2R_4R_6s$ $H(s) = \frac{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_3C_6R_1R_4R_5R_6 - C_3C_6R_2R_3R_4R_6 + C_3C_6R_2R_3R_5R_6 + C_3C_6R_2R_4R_5R_6 + C_3C_6R_2R_4R_5R_6 + C_3C_6R_2R_4R_5 + s^2\left(C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_2R_5 + C_3R_2R_5 + C_3R_2R_5 + C_3R_2R_5 + C_3R_2R_5 +$

Parameters:

 $Q: \frac{\sqrt{C_3}\sqrt{C_6}R_1R_4R_5\sqrt{R_6}\sqrt{-\frac{R_2R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_3}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_2R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_2R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_2R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_3}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_2R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_2R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_2R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{R_2R_5}{R_1R_4R_5-R_2R_3R_4} + \frac{R_2R_5}{R_1R_4R_5-R_2R_3R_4} + \frac{R_2R_5}{R_1$

Wo: $\sqrt{\frac{-R_2R_4+R_2R_5+R_4}{C_3C_6R_1R_4R_5R_6-C_3C_6R_2R_3R_4R_6+C_3C_6R_2R_3R_5R_6+C_3C_6R_2R_4R_5R_6+C_3C_6R_3R_4R_5R_6}$

K-LP: 0

K-HP: 0

Wz: None

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5-C_6R_2R_4R_6+C_6R_2R_5R_6+C_6R_4R_5R_6}$ Qz: None

3.14 BP-14
$$Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{-C_3C_5C_6R_2R_3R_4s^2 + C_6R_2 + C_6R_4 + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_3R_4 - C_5C_6R_2R_4\right)}$$

Q: $-\frac{i\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}}{C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4-C_5R_2R_4}$ wo: $\frac{\sqrt{-R_2-R_4}}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{i\sqrt{-R_2-R_4}(C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4-C_5R_2R_4)}{C_2C_5R_2R_2R_2\sqrt{R_2+R_2}}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_3R_4 - C_5C_6R_2R_4}$

Wz: None

3.15 BP-15 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_3C_5C_6R_1R_4R_5 - C_3C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_4R_5 + C_3C_5C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_4 + C_5C_6R_2R_4 + C_5C_6R_4R_4 +$$

Parameters:

 $Q: \frac{\sqrt{C_3}\sqrt{C_5}R_1R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_3R_4+C_3R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{R_2+R_4}R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}} + \sqrt{C_3}\sqrt{R_2+R_4}\sqrt{R_2+R_4}R_5} + \sqrt$

wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_3 C_5 R_1 R_4 R_5 - C_3 C_5 R_2 R_3 R_4 + C_3 C_5 R_2 R_3 R_5 + C_3 C_5 R_2 R_4 R_5 + C_3 C_5 R_3 R_4 R_5}$

 $\frac{\sqrt{C_3}\sqrt{C_5}R_1R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}R_3R_4+R_5}+\sqrt{C_3}\sqrt{C_5}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4+C_3C_6R_2R_3+C_3C_6R_2R_4+C_3C_6R_3R_4-C_5C_6R_2R_4+C_5C_6R_2R_5+C_5C_6R_4R_5}$ Qz: None

Wz: None

3.16 BP-16 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_6 s}{C_3 C_4 R_2 R_3 R_5 s^2 - R_2 + R_5 + s \left(C_3 R_1 R_5 - C_3 R_2 R_3 + C_3 R_2 R_5 + C_3 R_3 R_5 + C_4 R_2 R_5 \right)}$$

Parameters:

wo: $\frac{\sqrt{-R_2 + R_5}}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $\frac{C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_4R_2R_5}{C_3C_4R_2R_3R_5}$

K-HP: 0 K-BP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_4R_2R_5}$

Qz: None Wz: None

3.17 BP-17 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2s}{C_6 + s^2\left(C_3C_4C_6R_2R_3 - C_3C_5C_6R_2R_3\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2\right)}$$

$$\text{Q: } \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{C_3R_1+C_3R_2+C_3R_3+C_4R_2-C_5R_2}$$

```
wo: \sqrt{\frac{1}{C_3C_4R_2R_3-C_3C_5R_2R_3}} bandwidth: \frac{(C_3R_1+C_3R_2+C_3R_3+C_4R_2-C_5R_2)\sqrt{\frac{1}{C_3C_4R_2R_3-C_3C_5R_2R_3}}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}} K-LP: 0 K-HP: 0 K-BP: \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_3C_6R_3+C_4C_6R_2-C_5C_6R_2} Qz: None
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3.18 BP-18 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{C_3 C_4 R_2 R_3 R_4 R_5 s^2 - R_2 R_4 + R_2 R_5 + R_4 R_5 + s \left(C_3 R_1 R_4 R_5 - C_3 R_2 R_3 R_4 + C_3 R_2 R_3 R_5 + C_3 R_2 R_4 R_5 + C_3 R_3 R_4 R_5 + C_4 R_2 R_4 R_5 \right)}$$

Parameters:

Wz: None

Q: $\frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5}{C_3C_4R_2R_3R_4R_5}$ K-LP: 0 K-HP: 0 K-BP: $\frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_4R_6}$ Qz: None Wz: None

3.19 BP-19 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_3C_4C_6R_2R_3R_4 - C_3C_5C_6R_2R_3R_4\right) + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_3R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_4-C_5}}}{C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4}\\ \text{wo: } \sqrt{R_2+R_4}\sqrt{\frac{1}{C_3C_4R_2R_3R_4-C_3C_5R_2R_3R_4}}\\ \text{bandwidth: } \frac{\sqrt{R_2+R_4}(C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4)\sqrt{\frac{1}{C_3C_4R_2R_3R_4-C_3C_5R_2R_3R_4}}}{\sqrt{C_3C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_3C_5R_1R_2R_4}{C_3C_6R_2R_4+C_3C_6R_2R_4+C_3C_6R_3R_4+C_4C_6R_2R_4-C_5C_6R_2R_4}}{Q_{\text{Z: None}}}\\ \text{Wz: None}$$

3.20 BP-20 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s^2 \left(C_2 C_6 R_1 R_4 R_6 + C_2 C_6 R_3 R_4 R_6 - C_5 C_6 R_3 R_4 R_6 \right) + s \left(C_2 R_1 R_4 + C_2 R_3 R_4 - C_5 R_3 R_4 + C_6 R_3 R_6 + C_6 R_4 R_6 \right)}$$

Wz: None

3.21 BP-21
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s^2 \left(C_2 C_5 R_1 R_4 R_5 + C_2 C_5 R_3 R_4 R_5 \right) + s \left(C_2 R_1 R_4 + C_2 R_3 R_4 - C_5 R_3 R_4 + C_5 R_3 R_5 + C_5 R_4 R_5 \right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{R_3+R_4}}{C_2R_1R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2C_5R_1R_4R_5+C_2C_5R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_5R_1R_4R_5+C_2C_5R_3R_4R_5}}$ V. I.D. 0 K-LP: 0 K-HP: 0 K-BP: $\frac{C_5R_1R_4R_6}{C_2R_1R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}$ Qz: None

Wz: None

3.22 BP-22
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_5 R_1 R_6 s}{s^2 \left(C_2 C_6 R_1 R_6 + C_2 C_6 R_3 R_6 + C_4 C_6 R_3 R_6 - C_5 C_6 R_3 R_6\right) + s \left(C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3 + C_6 R_6\right) + 1}$$

Parameters:

$$Q\colon \frac{C_2\sqrt{C_6}R_1\sqrt{R_6}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_6}R_3\sqrt{R_6}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_6}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - C_5\sqrt{C_6}R_3\sqrt{R_6}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ \text{wo: } \sqrt{\frac{1}{C_2C_6R_1R_6+C_2C_6R_3R_6+C_4C_6R_3R_6-C_5C_6R_3R_6}} \\ \text{bandwidth: } \frac{(C_2R_1+C_2R_3+C_4R_3-C_5R_3+C_6R_6)\sqrt{\frac{1}{C_2C_6R_1R_6+C_2C_6R_3R_6}} - C_5\sqrt{C_6R_3R_6} - C_5C_6R_3R_6} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3+C_6R_6} \\ \text{Qz: None} \\ \text{Some} \\ \text{Cander of the expension of the expension$$

3.23 BP-23
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_6 s}{s^2 \left(C_2 C_5 R_1 R_5 + C_2 C_5 R_3 R_5 + C_4 C_5 R_3 R_5\right) + s \left(C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3 + C_5 R_5\right) + 1}$$

Parameters:

Wz: None

 $\begin{array}{l} \text{Wo: } \frac{1}{\sqrt{C_2C_5R_1R_5+C_2C_5R_3R_5+C_4C_5R_3R_5}}\\ \text{bandwidth: } \frac{C_2R_1+C_2R_3+C_4R_3-C_5R_3+C_5R_5}{\sqrt{C_5}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_5R_1R_5+C_2C_5R_3R_5+C_4C_5R_3R_5}} \end{array}$ K-HP: 0 K-BP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3+C_5R_5}$ Qz: None Wz: None

3.24 BP-24
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s^2 \left(C_2 C_6 R_1 R_4 R_6 + C_2 C_6 R_3 R_4 R_6 + C_4 C_6 R_3 R_4 R_6 - C_5 C_6 R_3 R_4 R_6 \right) + s \left(C_2 R_1 R_4 + C_2 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4 + C_6 R_3 R_6 + C_6 R_4 R_6 \right)}$$

$$Q: \frac{\frac{C_2\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_6}\sqrt{R_3} + R_4\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_6}\sqrt{R_4}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R_6}\sqrt{R$$

wo: $\sqrt{R_3 + R_4} \sqrt{\frac{1}{C_2 C_6 R_1 R_4 R_6 + C_2 C_6 R_3 R_4 R_6 + C_4 C_6 R_3 R_4 R_6 - C_5 C_6 R_3 R_4 R_6}$

 $\text{bandwidth: } \frac{\sqrt{R_3 + R_4}(C_2R_1R_4 + C_2R_3R_4 + C_4R_3R_4 - C_5R_3R_4 + C_6R_3R_6 + C_6R_4R_6)}\sqrt{\frac{1}{C_2C_6R_1R_4R_6 + C_2C_6R_3R_4R_6 + C_4C_6R_3R_4R_6 - C_5C_6R_3R_4R_6}}{C_2\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_4}\sqrt{R_6}\sqrt{R_4} + C_4R_3\sqrt{R_6}\sqrt{R_4}\sqrt{R_6}\sqrt{R_4}\sqrt{R_6}\sqrt{R_4}} + C_4R_3\sqrt{R_6}\sqrt{R_4}\sqrt{R_6}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_5R_1R_4R_6}{C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4+C_6R_3R_6+C_6R_4R_6}$ Qz: None

Wz: None

3.25 BP-25 $Z(s) = \left(R_1, \frac{1}{C_{2s}}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s^2 \left(C_2 C_5 R_1 R_4 R_5 + C_2 C_5 R_3 R_4 R_5 + C_4 C_5 R_3 R_4 R_5\right) + s \left(C_2 R_1 R_4 + C_2 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4 + C_5 R_3 R_5 + C_5 R_4 R_5\right)}$$

Parameters:

K-HP: 0

K-BP: $\frac{C_5R_1R_4R_6}{C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}$ Qz: None

Wz: None

3.26 BP-26
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_4 R_6 s}{C_2 C_3 R_1 R_4 R_5 s^2 - R_4 + R_5 + s \left(C_2 R_4 R_5 + C_3 R_4 R_5 \right)}$$

Parameters:

wo: $\frac{\sqrt{C_2\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}}{\sqrt{C_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$

K-LP: 0 K-HP: 0 K-BP: $\frac{C_3R_1R_6}{C_2R_5+C_3R_5}$ Qz: None Wz: None

3.27 BP-27
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_4s}{C_2C_3C_6R_1R_4s^2 + C_6 + s\left(C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4\right)}$$

Q:
$$\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_4} + C_3\sqrt{R_4} - C_5\sqrt{R_4}}$$
 wo:
$$\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}}$$

bandwidth: $\frac{C_2\sqrt{R_4}+C_3\sqrt{R_4}-C_5\sqrt{R_4}}{C_2C_3R_1\sqrt{R_4}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6-C_5C_6}$ Qz: None

Wz: None

3.28 BP-28
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

 $C_3R_1R_6s$ $H(s) = \frac{C_3 C_1 C_2 C_3}{C_2 C_3 R_1 R_5 s^2 + s \left(C_2 R_5 + C_3 R_5 + C_4 R_5\right) - 1}$

Parameters:

Q: $\frac{i\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}}$

Wo: $\frac{i}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}}{C_2C_3R_1\sqrt{R_5}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3R_1R_6}{C_2R_5+C_3R_5+C_4R_5}$ Qz: None

Wz: None

3.29 BP-29
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{C_3C_5R_1R_6s}{C_2C_3C_6R_1R_6s^2 + C_2 + C_3 + C_4 - C_5 + s\left(C_2C_3R_1 + C_2C_6R_6 + C_3C_6R_6 + C_4C_6R_6 - C_5C_6R_6\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_6R_6+C_3C_6R_6+C_4C_6R_6-C_5C_6R_6}$ wo: $\frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$ bandwidth: $\frac{C_2C_3R_1+C_2C_6R_6+C_3C_6R_6+C_4C_6R_6-C_5C_6R_6}{C_2C_3C_6R_1R_6}$

K-HP: 0

K-BP: $\frac{C_3C_5R_1R_6}{C_2C_3R_1+C_2C_6R_6+C_3C_6R_6+C_4C_6R_6-C_5C_6R_6}$ Qz: None

Wz: None

3.30 BP-30
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{C_3C_5R_1R_6s}{C_2C_3C_5R_1R_5s^2 + C_2 + C_3 + C_4 - C_5 + s\left(C_2C_3R_1 + C_2C_5R_5 + C_3C_5R_5 + C_4C_5R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}$ wo: $\frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}{C_2C_3C_5R_1R_5}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_6}{C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}$ Qz: None

Wz: None

3.31 BP-31
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_4 R_6 s}{C_2 C_3 R_1 R_4 R_5 s^2 - R_4 + R_5 + s \left(C_2 R_4 R_5 + C_3 R_4 R_5 + C_4 R_4 R_5 \right)}$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$ K. I.D. 0

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3R_1R_6}{C_2R_5+C_3R_5+C_4R_5}$ Qz: None

Wz: None

3.32 BP-32 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_4s}{C_2C_3C_6R_1R_4s^2 + C_6 + s\left(C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_4}+C_3\sqrt{R_4}+C_4\sqrt{R_4}-C_5\sqrt{R_4}}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_2\sqrt{R_4}+C_3\sqrt{R_4}+C_4\sqrt{R_4}-C_5\sqrt{R_4}}{C_2C_3R_1\sqrt{R_4}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ Qz: None Wz: None

3.33 BP-33 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_1 R_4 R_6 s}{-R_4 + R_5 + s^2 \left(C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 \right) + s \left(C_2 R_4 R_5 - C_3 R_3 R_4 + C_3 R_3 R_5 + C_3 R_4 R_5 \right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{-R_4+R_5}}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5}}$ bandwidth: $\frac{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5}}$

K-HP: 0

K-BP: $\frac{C_3R_1R_4R_6}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5}$

Qz: None Wz: None

3.34 BP-34 $Z(s) = \left(R_1, \frac{1}{C_{2s}}, R_3 + \frac{1}{C_{3s}}, R_4, \frac{1}{C_{5s}}, \frac{1}{C_{6s}}\right)$

 $H(s) = \frac{C_3C_5R_1R_4s}{C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_3R_4 - C_3C_5C_6R_3R_4\right) + s\left(C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 - C_5C_6R_4\right)}$

Parameters:

 $Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{C_2R_4+C_3R_3+C_3R_4-C_5R_4}$

WO: $\sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_3R_4-C_3C_5R_3R_4}}$

 $\text{bandwidth: } \frac{(C_2R_4 + C_3R_3 + C_3R_4 - C_5R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}}}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}}} \\ \text{K-LP: 0} \\ \text{K-HP: 0}$

K-BP: $\frac{C_3C_5R_1R_4}{C_2C_6R_4+C_3C_6R_3+C_3C_6R_4-C_5C_6R_4}$ Qz: None

Qz: None Wz: None

3.35 BP-35 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_6 s}{s^2 \left(C_2 C_3 R_1 R_5 + C_2 C_3 R_3 R_5 + C_3 C_4 R_3 R_5\right) + s \left(C_2 R_5 - C_3 R_3 + C_3 R_5 + C_4 R_5\right) - 1}$$

Parameters:

Q: $\frac{i\sqrt{C_3}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_5}}{C_2R_5-C_3R_3+C_3R_5+C_4R_5}$

WO: $\frac{\epsilon}{\sqrt{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5}}$

bandwidth: $\frac{C_2R_5 - C_3R_3 + C_3R_5 + C_4R_5}{\sqrt{C_3\sqrt{R_5}\sqrt{C_2R_1 + C_2R_3 + C_4R_3}\sqrt{C_2C_3R_1R_5 + C_2C_3R_3R_5 + C_3C_4R_3R_5}}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3R_1R_6}{C_2R_5-C_3R_3+C_3R_5+C_4R_5}$

Qz: None
Wz: None

3.36 BP-36 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_6R_1R_6 + C_2C_3C_6R_3R_6 + C_3C_4C_6R_3R_6 - C_3C_5C_6R_3R_6\right) + s\left(C_2C_3R_1 + C_2C_3R_3 + C_2C_6R_6 + C_3C_4R_3 - C_3C_5R_3 + C_3C_6R_6 + C_4C_6R_6 - C_5C_6R_6\right)}$$

Parameters:

 $Q: \frac{\frac{C_2\sqrt{C_3}\sqrt{C_6}R_1\sqrt{R_6}\sqrt{\frac{C_2}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{C_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{C_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{C_2\sqrt{C_3}\sqrt{C_6}R_3\sqrt{R_6}\sqrt{\frac{C_2}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{C_2\sqrt{C_3}\sqrt{C_6}R_3$

WO: $\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_2 C_3 C_6 R_1 R_6 + C_2 C_3 C_6 R_3 R_6 + C_3 C_4 C_6 R_3 R_6 - C_3 C_5 C_6 R_3 R_6}}$

 $\frac{\sqrt{\frac{C_{2}+C_{3}+C_{4}-C_{5}}{C_{2}C_{3}C_{6}R_{1}R_{6}+C_{2}C_{3}C_{6}R_{3}R_{6}}}(C_{2}C_{3}R_{1}+C_{2}C_{3}R_{3}+C_{2}C_{6}R_{6}+C_{3}C_{4}R_{3}-C_{3}C_{5}R_{3}+C_{2}C_{6}R_{6}+C_{3}C_{4}R_{3}-C_{3}C_{5}R_{3}+C_{2}C_{6}R_{6}+C_{3}C_{4}R_{3}-C_{3}C_{5}R_{3}+C_{2}C_{6}R_{6}+C_{3}C_{4}R_{3}-C_{5}C_{6}R_{3}R_{6}}}{C_{2}\sqrt{C_{3}}\sqrt{C_{6}}R_{1}\sqrt{R_{6}}\sqrt{\frac{C_{2}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}+\frac{C_{4}C_{3}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}+\frac{C_{2}C_{4}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}+\frac{C_{2}C_{4}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}C_{4}C_{4}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}C_{4}C_{4}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}C_{4}C_{4}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}C_{4}C_{4}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}C_{4}C_{4}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}C_{4}C_{6}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{2}C_{4}C_{6}R_{3}C_{6}R_{3}}}}}}}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_6}{C_2C_3R_1 + C_2C_3R_3 + C_2C_6R_6 + C_3C_4R_3 - C_3C_5R_3 + C_3C_6R_6 + C_4C_6R_6 - C_5C_6R_6}$

Qz: None Wz: None

wz: none

3.37 BP-37
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_5R_1R_5 + C_2C_3C_5R_3R_5 + C_3C_4C_5R_3R_5\right) + s\left(C_2C_3R_1 + C_2C_3R_3 + C_2C_5R_5 + C_3C_4R_3 - C_3C_5R_3 + C_3C_5R_5 + C_4C_5R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_3R_3+C_2C_5R_5+C_3C_4R_3-C_3C_5R_3+C_3C_5R_5+C_4C_5R_5}$

WO: $\frac{\sqrt{C_2 + C_3 + C_4 - C_5}}{\sqrt{C_2 C_3 C_5 R_1 R_5 + C_2 C_3 C_5 R_3 R_5 + C_3 C_4 C_5 R_3 R_5}}$

bandwidth: $\frac{C_2C_3R_1+C_2C_5R_3+C_2C_5R_5+C_3C_4R_3-C_3C_5R_3+C_3C_5R_5+C_4C_5R_5}{\sqrt{C_5}\sqrt{C_$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_6}{C_2C_3R_1+C_2C_3R_3+C_2C_5R_5+C_3C_4R_3-C_3C_5R_3+C_3C_5R_5+C_4C_5R_5}$

Qz: None Wz: None

3.38 BP-38
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_4 R_6 s}{-R_4 + R_5 + s^2 \left(C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 + C_3 C_4 R_3 R_4 R_5\right) + s \left(C_2 R_4 R_5 - C_3 R_3 R_4 + C_3 R_3 R_5 + C_3 R_4 R_5 + C_4 R_4 R_5\right)}$$

K-HP: 0

K-BP: $\frac{C_3R_1R_4R_6}{C_2R_4R_5 - C_3R_3R_4 + C_3R_3R_5 + C_3R_4R_5 + C_4R_4R_5}$

Qz: None Wz: None

3.39 BP-39 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_4s}{C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_3R_4 + C_3C_4C_6R_3R_4 - C_3C_5C_6R_3R_4\right) + s\left(C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4\right)}$$

Parameters:

 $Q: \underbrace{\frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}$

Wo: $\sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}$

 $\frac{(C_2R_4 + C_3R_3 + C_3R_4 + C_4R_4 - C_5R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 + C_3C_5R_3R_4}}{C_2\sqrt{C_3R_1}\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3C_3R_3\sqrt{\frac{1}{C_3R_3 + C_4R_3 - C_5R_3}} - C_3C_3R_3\sqrt{\frac{1}{C_3R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{\frac{1}{C_3R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{\frac{1}{C_3R_3 + C_4R_3 - C_5R_3}} - C_3C_3R_3\sqrt{\frac{1}{C_3R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{\frac{1}{C_3R_3 + C_4R_3 - C_5R_3}} + C_3C_3R_3\sqrt{\frac{1}{C_3R_3 + C_3R_3 - C_5R_3}} + C_3C_3R_3\sqrt{\frac{1}{C_3R_$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_4}{C_2C_6R_4+C_3C_6R_3+C_3C_6R_4+C_4C_6R_4-C_5C_6R_4}$ Qz: None

Wz: None

3.40 BP-40 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_2 C_6 R_1 R_2 R_4 R_6 + C_2 C_6 R_2 R_3 R_4 R_6 - C_5 C_6 R_2 R_3 R_4 R_6\right) + s \left(C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_6 R_1 R_4 R_6 + C_6 R_2 R_3 R_6 + C_6 R_2 R_4 R_6 + C_6 R_3 R_4 R_6\right)}$$

Parameters:

 $\frac{C_2\sqrt{C_6}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_2\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_1}R_4 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_1}R_4 + R_2R_4 + R_3$

wo: $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_2C_6R_1R_2R_4R_6 + C_2C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6}}$

 $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_5R_2R_3R_4 + C_6R_2R_3R_6 + C_6R_2R_4R_6 + C_6R_3R_4R_6)\sqrt{\frac{1}{C_2C_6R_1R_2R_4R_6 + C_2C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6}}$

K-LP: 0

K-BP: $\frac{C_5 R_1 R_2 R_4 R_6}{C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 - C_5 R_2 R_3 R_4 + C_6 R_1 R_4 R_6 + C_6 R_2 R_3 R_6 + C_6 R_2 R_4 R_6 + C_6 R_3 R_4 R_6}$

Qz: None Wz: None

3.41 BP-41 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, R_5 + \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_2 C_5 R_1 R_2 R_4 R_5 + C_2 C_5 R_2 R_3 R_4 R_5\right) + s \left(C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5\right)}$$

```
\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}
K-LP: 0
K-HP: 0
 \text{K-BP: } \frac{C_5 R_1 R_2 R_4 R_6}{C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5 } 
 Qz: None
```

3.42 BP-42 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s^2 \left(C_2 C_6 R_1 R_2 R_6 + C_2 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6 \right) + s \left(C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_3 R_6 \right)}{R_1 + R_2 + R_3 + s^2 \left(C_2 C_6 R_1 R_2 R_6 + C_2 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6 \right) + s \left(C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_3 R_6 \right)}$

Parameters:

Wz: None

```
Q: \frac{C_2\sqrt{C_6}R_1\sqrt{R_2}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}\sqrt{R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}\sqrt{R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}\sqrt{R_
wo: \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 C_6 R_1 R_2 R_6 + C_2 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6}
                                                                                                                                                                                                                                                           \sqrt{R_1 + R_2 + R_3} (C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_3 R_6) \sqrt{\frac{1}{C_2 C_6 R_1 R_2 R_6 + C_2 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6}}
K-BP: \frac{C_5 R_1 R_2 R_6}{C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_3 R_6}
   Qz: None
 Wz: None
```

3.43 BP-43 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_5}{R_1 + R_2 + R_3 + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_5 + C_4 C_5 R_2 R_3 R_5\right) + s \left(C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_2 R_3 + C_5 R_1 R_5 - C_5 R_2 R_3 + C_5 R_2 R_5 + C_5 R_3 R_5\right)}$

Parameters:

```
K-LP: 0
K-HP: 0
K-BP: \frac{C_5R_1R_2R_6}{C_2R_1R_2 + C_2R_2R_3 + C_4R_2R_3 + C_5R_1R_5 - C_5R_2R_3 + C_5R_2R_5 + C_5R_3R_5}
Qz: None
Wz: None
```

3.44 BP-44 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_2 C_6 R_1 R_2 R_4 R_6 + C_2 C_6 R_2 R_3 R_4 R_6 + C_4 C_6 R_2 R_3 R_4 R_6 - C_5 C_6 R_2 R_3 R_4 R_6\right) + s \left(C_2 R_1 R_2 R_4 + C_4 R_2 R_3 R_4 + C_4 R_2 R_3 R_4 + C_6 R_1 R_4 R_6 + C_6 R_2 R_3 R_6 + C_6 R_2 R_4 R_6 + C_6 R_2 R_4 R_6\right)}$

Parameters:

 $\frac{C_2\sqrt{C_6}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}{\sqrt{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_2\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} \\ -C_5\sqrt{C_6}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + R_4R_4 + R_3R_4}} \\ -C_5\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + R_4R_4 + R_3R_4}} \\ -C_5\sqrt{R_1}R_4 + R_2R_3 + R_4R_4 + R_3R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + R_4R_4 + R_3R_4}} \\ -C_5\sqrt{R_1}R_4 + R_2R_4 + R_3R_4 +$ wo: $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_2C_6R_1R_2R_4R_6 + C_2C_6R_2R_3R_4R_6 + C_4C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6}}$ $\frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_6R_2R_3R_6 + C_6R_2R_3R_6 + C_6R_2R_3R_6 + C_6R_2R_3R_4R_6)}{\sqrt{C_2C_6R_1R_2R_4R_6 + C_6R_2R_3R_4 + C_6R_2R_3R_4 + C_6R_2R_3R_4 + C_6R_2R_3R_4 + C_6R_2R_3R_4R_6 + C_6R_2R_3R_$ K-LP: 0

K-HP: 0

 $\text{K-BP: } \frac{C_5 R_1 R_2 R_4 R_6}{C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_4 R_2 R_3 R_4 - C_5 R_2 R_3 R_4 + C_6 R_1 R_4 R_6 + C_6 R_2 R_3 R_6 + C_6 R_2 R_4 R_6 + C_6 R_3 R_4 R_6 }$

Qz: None Wz: None

3.45 BP-45
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_2 C_5 R_1 R_2 R_4 R_5 + C_2 C_5 R_2 R_3 R_4 R_5 + C_4 C_5 R_2 R_3 R_4 R_5\right) + s \left(C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_2 R_4 R_5\right)}$$

Q: $\frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_2R_1R_2R_4+C_2R_2R_3R_4+C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_2C_5R_1R_2R_4R_5+C_2C_5R_2R_3R_4+C_4C_5R_2R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_2R_4R_5+C_5R_2R_3R_4R_5+C_5R_2R_3R_4+C_5R$

K-HP: 0

 $\begin{array}{l} \text{K-BP:} \ \frac{C_5 R_1 R_2 R_4 R_6}{C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_4 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5} \end{array}$

Qz: None Wz: None

3.46 BP-46 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3R_1R_2R_4R_6s}{C_2C_3R_1R_2R_4R_5s^2 - R_2R_4 + R_2R_5 + R_4R_5 + s\left(C_2R_2R_4R_5 + C_3R_1R_4R_5 + C_3R_2R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2}R_4 + R_2R_5 + R_4R_5}{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2}R_4 + R_2R_5 + R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5+C_3R_2R_5}$ Qz: None Wz: None

3.47 BP-47 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_2C_3C_6R_1R_2R_4s^2 + C_6R_2 + C_6R_4 + s\left(C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2+R_4}}{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{R_2+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}{C_2C_3R_1R_2\sqrt{R_4}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}$

Qz: None Wz: None

3.48 BP-48
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_6 s}{C_2 C_3 R_1 R_2 R_5 s^2 - R_2 + R_5 + s \left(C_2 R_2 R_5 + C_3 R_1 R_5 + C_3 R_2 R_5 + C_4 R_2 R_5 \right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2+R_5}}{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_5}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ Qz: None

Wz: None

3.49 BP-49 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2s}{C_2C_3C_6R_1R_2s^2 + C_6 + s\left(C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}{C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}$ bandwidth: $\frac{C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}{C_2C_3R_1R_2}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ Qz: None

Wz: None

3.50 BP-50 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{C_2 C_3 R_1 R_2 R_4 R_5 s^2 - R_2 R_4 + R_2 R_5 + R_4 R_5 + s \left(C_2 R_2 R_4 R_5 + C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 + C_4 R_2 R_4 R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2}R_4 + R_2}{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} + C_4R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2}R_4 + R_2R_5 + R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} + C_4R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ Qz: None

Wz: None

3.51 BP-51 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_2C_3C_6R_1R_2R_4s^2 + C_6R_2 + C_6R_4 + s\left(C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2+R_4}}{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}+C_4R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{R_2+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}+C_4R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}{C_2C_3R_1R_2\sqrt{R_4}}$

K-LP: 0

K-BP: $\frac{C_3C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ Qz: None

Wz: None

3.52 BP-52
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_2R_4R_5 + C_2C_3R_2R_3R_4R_5\right) + s\left(C_2R_2R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5\right)}$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_2R_2R_4R_5+C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5}}$ bandwidth: $\frac{C_2R_2R_4R_5+C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5}}$ V. I.B. O

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_2R_2R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5}$

Qz: None Wz: None

3.53 BP-53 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_2R_4 + C_2C_3C_6R_2R_3R_4 - C_3C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_2R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_4\right)}$$

Parameters:

 $Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - C_2R_2R_4+C_3R_1R_4+C_3R_2R_4+C_3R_2R_4+C_3R_3R_4-C_5R_2R_4}$

wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 C_3 R_1 R_2 R_4 + C_2 C_3 R_2 R_3 R_4 - C_3 C_5 R_2 R_3 R_4}}$

 $\frac{\sqrt{R_2 + R_4}(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_3R_3R_4 - C_5R_2R_4)\sqrt{\frac{1}{C_2C_3R_1R_2R_4 + C_2C_3R_2R_3R_4 - C_3C_5R_2R_3R_4}}{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2 + R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_2C_6R_2R_4+C_3C_6R_1R_4+C_3C_6R_2R_3+C_3C_6R_2R_4+C_3C_6R_3R_4-C_5C_6R_2R_4}$ Qz: None

Wz: None

3.54 BP-54 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s^2 \left(C_2 C_3 R_1 R_2 R_5 + C_2 C_3 R_2 R_3 R_5 + C_3 C_4 R_2 R_3 R_5\right) + s \left(C_2 R_2 R_5 + C_3 R_1 R_5 - C_3 R_2 R_3 + C_3 R_2 R_5 + C_3 R_3 R_5 + C_4 R_2 R_5\right)}$$

Parameters:

Wo: $\frac{\sqrt{-R_2 + R_5}}{\sqrt{C_2 C_3 R_1 R_2 R_5 + C_2 C_3 R_2 R_3 R_5 + C_3 C_4 R_2 R_3 R_5}}$ bandwidth: $\frac{C_2 R_2 R_5 + C_3 R_1 R_5 - C_3 R_2 R_3 + C_3 R_2 R_5 + C_3 R_3 R_5 + C_4 R_2 R_5}{\sqrt{C_3} \sqrt{R_2} \sqrt{R_5} \sqrt{C_2 R_1 + C_2 R_3 + C_4 R_3} \sqrt{C_2 C_3 R_1 R_2 R_5 + C_2 C_3 R_2 R_3 R_5 + C_3}}$

K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5}$

Qz: None Wz: None

3.55 BP-55 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2s}{C_6 + s^2\left(C_2C_3C_6R_1R_2 + C_2C_3C_6R_2R_3 + C_3C_4C_6R_2R_3 - C_3C_5C_6R_2R_3\right) + s\left(C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2\right)}$$

$$\text{Q:} \ \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2R_2+C_3R_1+C_3R_2+C_3R_3+C_4R_2-C_5R_2}$$

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 \text{wo: } \sqrt{\frac{1}{C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_3C_4R_2R_3 - C_3C_5R_2R_3} } \\ \text{bandwidth: } \frac{(C_2R_2 + C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 - C_5R_2)\sqrt{\frac{1}{C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_3C_4R_2R_3 - C_3C_5R_2R_3}}}{\frac{1}{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_3C_5R_1R_2}{C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2}} \\ \text{Qz: None}
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3.56 BP-56
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)$$

 $H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s^2 \left(C_2 C_3 R_1 R_2 R_4 R_5 + C_2 C_3 R_2 R_3 R_4 R_5 + C_3 C_4 R_2 R_3 R_4 R_5\right) + s \left(C_2 R_2 R_4 R_5 + C_3 R_1 R_4 R_5 - C_3 R_2 R_3 R_4 + C_3 R_2 R_3 R_5 + C_3 R_2 R_4 R_5 + C_4 R_2 R_4 R_5\right)}$

Parameters:

Wz: None

3.57 BP-57
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_2R_4 + C_2C_3C_6R_2R_3R_4 + C_3C_4C_6R_2R_3R_4 - C_3C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_2R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 +$

Parameters:

$$Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2}R_1+C_2}\frac{1}{R_3+C_4}R_3-C_5R_3} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2}R_1+C_2}\frac{1}{R_3+C_4}R_3-C_5R_3} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2}R_1+C_2}\frac{1}{R_3+C_4}R_3-C_5R_3} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2}R_1+C_2}\frac{1}{R_3+C_4}R_3-C_5R_3} } \\ wo: \sqrt{R_2+R_4}\sqrt{\frac{1}{C_2}C_3R_1R_2R_4+C_2C_3R_2R_3R_4+C_3C_5R_2R_4} - \frac{1}{C_2C_3R_1R_2R_4+C_2C_3R_2R_3R_4+C_3C_3R_2R_4+C_3R_3R_4+C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4} - \frac{1}{C_2\sqrt{C_3}R_1R_2R_4+C_2C_3R_2R_3R_4+C_3C_3R_2R_4+C_3R_3R_4+C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4} - \frac{1}{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_3R_1R_2R_4+C_3C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4} - \frac{1}{C_2\sqrt{C_3}R_1R_2R_4+C_2C_3R_2R_3R_4+C_3C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4} - \frac{1}{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_3R_1R_2R_4+C_3C_3R_2R_4+C_3C_3R_3R_4+C_4R_3-C_5R_3} - \sqrt{C_3}C_3R_3R_4+C_4R_3-C_5R_3} - \sqrt{C_3}C_3R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2}+R_4\sqrt{\frac{1}{C_2}R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_$$

3.58 BP-58
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_2 R_4 R_6 s}{-C_1 C_5 R_2 R_3 R_4 s^2 + R_4 + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4\right)}$$

Parameters:

 $\begin{array}{l} \text{Q:} -\frac{i\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}R_4}{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4} \\ \text{wo:} \ \frac{i}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}} \\ \text{bandwidth:} \ -\frac{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}{\sqrt{C_1}C_5R_2R_3R_4} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4} \\ \text{Qz:} \ \text{None} \end{array}$

Qz: None Wz: None

3.59 BP-59
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_2 R_4 R_6 s}{R_4 + s^2 \left(-C_1 C_5 R_2 R_3 R_4 + C_1 C_5 R_2 R_3 R_5 + C_1 C_5 R_2 R_4 R_5 + C_1 C_5 R_3 R_4 R_5\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_5 R_4 R_5\right)}$$

$$Q: \frac{-\sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}^{\frac{3}{2}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}\sqrt{R_{4}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}^{\frac{3}{2}}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}^{\frac{3}{2}}R_{4}R_{5}-C_{1}C_{5}R_{3}R_{4}R_{5}}$$

$$\frac{\sqrt{R_{4}}\sqrt{-\frac{1}{C_{1}C_{5}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{2}R_{4}R_{5}-C_{1}C_{5}R_{3}R_{4}R_{5}}}{\sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{3}R_{4}R_{5}}}}$$
bandwidth:
$$\frac{\sqrt{R_{4}}\sqrt{-\frac{1}{C_{1}C_{5}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}R_{5}}}{\sqrt{-\frac{1}{C_{1}C_{5}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{3}R_{4}R_{5}}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}-C_{1}C_{5}R_{3}R_{4}-C_{1}C_{5}$$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_5 R_2 R_4 R_6}{C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_5 R_4 R_5}$

Qz: None Wz: None

3.60 BP-60 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_2 R_6 s}{s^2 \left(C_1 C_4 R_2 R_3 - C_1 C_5 R_2 R_3\right) + s \left(C_1 R_2 + C_1 R_3\right) + 1}$$

Parameters:

3.61 BP-61
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$H(s) = \frac{C_5 R_2 R_4 R_6 s}{R_4 + s^2 \left(C_1 C_4 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4 \right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 \right)}$

$$\begin{array}{l} Q\colon \frac{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}\\ \text{wo: } \sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}\\ \text{bandwidth: } \frac{\left(\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4\right)\sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

3.62 BP-62
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6\right) + s\left(C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_3C_6R_4R_6\right)}$$

$$Q\colon \frac{\sqrt{C_{1}}C_{3}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}}{C_{1}C_{3}R_{2}R_{4}-C_{1}C_{5}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{6}+C_{1}C_{6}R_{4}R_{6}}}$$

$$wo: \sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{3}C_{6}R_{2}R_{4}}}\frac{1}{C_{1}C_{3}C_{6}R_{2}R_{4}R_{6}}}$$

$$bandwidth: \frac{\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}(C_{1}C_{3}R_{2}R_{4}-C_{1}C_{5}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{6}+C_{1}C_{6}R_{4}R_{6}+C_{3}C_{6}R_{4}R_{6})\sqrt{\frac{1}{C_{1}C_{3}C_{6}R_{2}R_{4}R_{6}}}}\frac{1}{\sqrt{C_{1}}C_{3}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}}}$$

$$K-LP: 0$$

$$K-HP: 0$$

$$K-BP: \frac{C_{3}C_{5}R_{2}R_{4}}{C_{1}C_{3}R_{2}R_{4}-C_{1}C_{5}R_{2}R_{4}+C_{1}C_{6}R_{4}R_{6}+C_{3}C_{6}R_{4}R_{6}}}{C_{1}C_{3}C_{3}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{6}+C_{1}C_{6}R_{4}R_{6}+C_{3}C_{6}R_{4}R_{6}}}$$

$$Qz: None$$

$$Wz: None$$

3.63 BP-63
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1C_3C_5R_2R_4R_5s^2 + C_1R_2 + C_1R_4 + C_3R_4 + s\left(C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_3C_5R_4R_5\right)}$$

Parameters:

3.64 BP-64
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_3C_6R_2R_6 + C_1C_4C_6R_2R_6 - C_1C_5C_6R_2R_6\right) + s\left(C_1C_3R_2 + C_1C_4R_2 - C_1C_5R_2 + C_1C_6R_6 + C_3C_6R_6\right)}$$

Parameters:

$$Q\colon \frac{\sqrt{C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} + \sqrt{C_{1}C_{4}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} }{C_{1}C_{3}R_{2}+C_{1}C_{4}R_{2}-C_{1}C_{5}R_{2}+C_{1}C_{6}R_{6}+C_{3}C_{6}R_{6}}}$$

$$wo: \sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{3}C_{6}R_{2}R_{6}+C_{1}C_{4}C_{6}R_{2}R_{6}}} - C_{1}C_{5}C_{6}R_{2}R_{6}}$$

$$bandwidth: \frac{\sqrt{C_{1}+C_{3}}(C_{1}C_{3}R_{2}+C_{1}C_{4}R_{2}-C_{1}C_{5}R_{2}+C_{1}C_{6}R_{6}+C_{3}C_{6}R_{6}})\sqrt{\frac{1}{C_{1}C_{3}C_{6}R_{2}R_{6}+C_{1}C_{4}C_{6}R_{2}R_{6}}}}{\sqrt{C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} + \sqrt{C_{1}C_{4}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}} K-LP: 0$$

$$K-HP: 0$$

$$K-BP: \frac{C_{3}C_{5}R_{2}R_{6}}{C_{1}C_{3}R_{2}+C_{1}C_{4}R_{2}-C_{1}C_{5}R_{2}+C_{1}C_{6}R_{6}+C_{3}C_{6}R_{6}}}{C_{2}: None}}$$

$$Wz: None$$

3.65 BP-65
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_3C_5R_2R_5 + C_1C_4C_5R_2R_5\right) + s\left(C_1C_3R_2 + C_1C_4R_2 - C_1C_5R_2 + C_1C_5R_5 + C_3C_5R_5\right)}$$

Q:
$$\frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_1+C_3}\sqrt{C_3+C_4}}{C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}$$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_2R_6}{C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}$ Qz: None

Wz: None

3.66 BP-66
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_6R_2R_4R_6 + C_1C_4C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6\right) + s\left(C_1C_3R_2R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_3C_6R_4R_6\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_{1}}C_{3}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}{C_{1}C_{3}R_{2}R_{4}+C_{1}C_{5}}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{6}+C_{1}C_{6}R_{4}R_{6}+C_{3}C_{6}R_{4}R_{6}}$$

 $\text{wo: } \sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_3C_6R_2R_4R_6 + C_1C_4C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{(C_1C_3R_2R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_3C_6R_4R_6)} \sqrt{\frac{1}{C_1C_3C_6R_2R_4R_6 + C_1C_4C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6}} \\ \frac{\sqrt{C_1C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}} + \sqrt{C_1C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}} - \sqrt{C_1C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}}}} \\ \frac{\sqrt{C_1C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{C_1C_4R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_3C_6R_4R_6})\sqrt{\frac{1}{C_1C_3C_6R_2R_4R_6 + C_1C_5C_6R_2R_4R_6}}{\sqrt{C_1C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}}}}}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_6R_2R_6+C_1C_6R_4R_6+C_3C_6R_4R_6}$ Qz: None

Wz: None

3.67 BP-67
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_5R_2R_4R_5 + C_1C_4C_5R_2R_4R_5\right) + s\left(C_1C_3R_2R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_3C_5R_4R_5\right)}$$

Parameters:

wo: $\frac{1}{\sqrt{C_1C_3C_5R_2R_4R_5}+C_1C_4C_5R_2R_4R_5}$ bandwidth: $\frac{C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3}+C_4\sqrt{C_1C_3C_5R_2R_4R_5}+C_1C_4C_5R_2R_4R_5}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}$ Qz: None

Wz: None

3.68 BP-68
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{-C_1C_3C_5R_2R_3R_4s^2 + C_1R_2 + C_1R_4 + C_3R_4 + s\left(C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 - C_1C_5R_2R_4\right)}$$

Parameters:

Q:
$$-\frac{i\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_3R_2R_3+\sqrt{C_1C_3R_2}}R_4+\sqrt{C_1C_3R_3}R_4-\sqrt{C_1C_5R_2}R_4}$$

 $i\sqrt{-C_1}R_2 - C_1R_4 - C_3R_4 \left(\sqrt{C_1}C_3R_2R_3 + \sqrt{C_1}C_3R_2R_4 + \sqrt{C_1}C_3R_3R_4 - \sqrt{C_1}C_5R_2R_4\right)$ $\sqrt{C_1}C_3C_5R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4}$

Qz: None Wz: None

3.69 BP-69
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(-C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_3R_4R_5\right) + s\left(C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_3C_5R_4R_5\right)}$$

 $Q: \frac{-\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{C_1}R_2+C_1R_4+C_3R_4}\sqrt{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{C_1C_3R_2R_3R_4+C_1C_3R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}}{\sqrt{C_1C_3C_5R_2R_3R_4-C_1C_3C_5R_2R_3R_5-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_2R_4}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}} \\ wo: \sqrt{\frac{-C_1R_2-C_1R_4-C_3R_4}{\sqrt{C_1C_3C_5R_2R_3R_4-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_3R_4R_5}}}{\sqrt{C_1C_3C_5R_2R_3R_4-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+C_3C_5R_4R_5} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+C_3C_5R_4R_5}} \\ & \frac{-C_1R_2-C_1R_4-C_3R_4}{\sqrt{C_1C_3C_5R_2R_3R_4-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_3R_4R_5}}}{\sqrt{C_1C_3C_5R_2R_3R_4-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+C_3C_5R_4R_5} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+C_3C_5R_4R_5}} \\ & \frac{-C_1R_2-C_1R_4-C_3R_4}{\sqrt{C_1C_3C_5R_2R_3R_4-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_3R_4R_5}}}{\sqrt{C_1C_3C_5R_2R_3R_4-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5+C_1C_5R_2R_4+$

3.70 BP-70 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_3C_4R_2R_3 - C_1C_3C_5R_2R_3\right) + s\left(C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2\right)}$$

Parameters:

Wz: None

3.71 BP-71 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4\right) + s\left(C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4\right)}$$

Parameters:

 $Q\colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4+\sqrt{C_1}C_4R_2R_4-\sqrt{C_1}C_5R_2R_4}}\\ \text{wo: } \sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4-C_1C_3C_5R_2R_3R_4}}\\ \text{bandwidth: } \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}\left(\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4+\sqrt{C_1}C_4R_2R_4-\sqrt{C_1}C_5R_2R_4\right)\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4-C_1C_3C_5R_2R_3R_4}}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_3C_5R_2R_4R_6}{C_1C_3R_2R_4+C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4}}\\ \text{Qz: None}\\ \text{Wz: None}$

3.72 BP-72
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_6R_4R_6 + C_1C_3C_6R_4R_6 - C_1C_5C_6R_4R_6 + C_2C_3C_6R_4R_6\right) + s\left(C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4\right)}$$

$$Q \colon \frac{C_1^{\frac{3}{2}}C_2\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + \sqrt{C_1}C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_1C_3-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_1C_3-C_1C_5+C_1C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_1C_3-C_1C_5$$

$$\frac{\sqrt{C_1}(C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4)\sqrt{\frac{1}{C_1C_2C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_2C_3C_6R_4R_6 + C_2C_3C$$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4}$

Wz: None

3.73 BP-73
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_2C_3C_5R_4R_5\right) + s\left(C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_5R_5 + C_2C_3R_4\right)}$$

Parameters:

Q:
$$\frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}}{C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}$$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}$ Qz: None

Wz: None

3.74 BP-74
$$Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & \frac{R_4}{C_4 R_4 s + 1}, & \frac{1}{C_5 s}, & \frac{R_6}{C_6 R_6 s + 1} \end{pmatrix}$$

$$H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_1C_4C_6R_4R_6 - C_1C_5C_6R_4R_6 + C_2C_3C_6R_4R_6\right) + s\left(C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4\right)}$$

Parameters:

$$Q: \frac{C_{1}^{\frac{3}{2}}C_{2}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}^{\frac{3}{2}}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}R_{4}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}^{\frac{3}{2}}C_{5}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{6}R_{6}+C_{2}C_{3}R_{4}}} + \sqrt{C_{1}C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{6}R_{6}+C_{2}C_{3}R_{4}}}$$

wo: $\sqrt{C_1}\sqrt{\frac{1}{C_1C_2C_6R_4R_6+C_1C_3C_6R_4R_6+C_1C_4C_6R_4R_6-C_1C_5C_6R_4R_6+C_2C_3C_6R_4R_6}}$

$$\frac{\sqrt{C_1}(C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4)\sqrt{\frac{1}{C_1C_2C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_2C_3C_6R_4R_6}}{\frac{3}{C_1^2}C_2\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}} + C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}} + C_1^{\frac{3}{2}}C_4\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}} + C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3$$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_1C_6R_6+C_2C_3R_4}$

Qz: None Wz: None

3.75 BP-75
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_4C_5R_4R_5 + C_2C_3C_5R_4R_5\right) + s\left(C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_1C_5R_5 + C_2C_3R_4\right)}$$

Q: $\frac{\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}+C_{2}C_{3}}}{C_{1}C_{2}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{5}R_{5}+C_{2}C_{3}R_{4}}}$ wo: $\frac{\sqrt{C_{1}}}{\sqrt{C_{1}C_{2}C_{5}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{4}R_{5}+C_{1}C_{4}C_{5}R_{4}R_{5}+C_{2}C_{3}C_{5}R_{4}R_{5}}}$ bandwidth: $\frac{C_{1}C_{2}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{4}R_{4}-C_{1}C_{5}R_{4}+C_{1}C_{5}R_{5}+C_{2}C_{3}R_{4}}{\sqrt{C_{5}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}+C_{2}C_{3}}\sqrt{C_{1}C_{2}C_{5}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{4}R_{5}+C_{1}C_{4}C_{4}}}$ W. I.D. 0

K-HP: 0

K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}$ Qz: None

Wz: None

3.76 BP-76 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_3R_3R_4 - C_1C_3C_5R_3R_4\right) + s\left(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4\right)}$

Parameters:

 $Q \colon \frac{C_1 C_2 \sqrt{C_3} \sqrt{R_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 - C_5}} - C_1 \sqrt{C_3} C_5 \sqrt{R_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 - C_5}}}{C_1 C_2 R_4 + C_1 C_3 R_3 + C_1 C_5 R_4 + C_2 C_3 R_4}$

 $\frac{(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_3R_4} \frac{1}{C_3C_5R_3R_4}}}{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2-C_5}} - C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2-C_5}}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4+C_1C_3R_3+C_1C_3R_4-C_1C_5R_4+C_2C_3R_4}$

Qz: None Wz: None

3.77 BP-77 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{1}{C_1 + s^2 \left(C_1 C_2 C_3 R_3 R_4 + C_1 C_3 C_4 R_3 R_4 - C_1 C_3 C_5 R_3 R_4 \right) + s \left(C_1 C_2 R_4 + C_1 C_3 R_3 + C_1 C_3 R_4 + C_1 C_4 R_4 - C_1 C_5 R_4 + C_2 C_3 R_4 \right)}$

Parameters:

 $Q: \frac{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}} + C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}} - C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_2C_3R_4}$

wo: $\sqrt{\frac{1}{C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}$ bandwidth: $\frac{(C_1C_2R_4+C_1C_3R_3+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}}{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}+C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}-C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4+C_1C_3R_3+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_2C_3R_4}$ Qz: None

Wz: None

3.78 BP-78 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_5 R_2 R_4 R_6 s}{R_4 + s^2 \left(C_1 C_2 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_2 R_2 R_4\right)}$

Parameters:

 $\frac{\sqrt{C_1}C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2-C_5}}}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4}$

WO: $\sqrt{\frac{1}{C_1C_2R_2R_3-C_1C_5R_2R_3}}$

 $\frac{(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4)\sqrt{\frac{1}{C_1C_2R_2R_3} - C_1C_5R_2R_3}}{\sqrt{C_1}C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2-C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2-C_5}}$

K-LP: 0 K-HP: 0 K-BP: $\frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4}$ Qz: None

Wz: None

3.79 BP-79
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_2 R_6 s}{s^2 \left(C_1 C_2 R_2 R_3 + C_1 C_4 R_2 R_3 - C_1 C_5 R_2 R_3\right) + s \left(C_1 R_2 + C_1 R_3 + C_2 R_2\right) + 1}$$

Parameters:

$$Q: \frac{\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}{\frac{C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2}}{\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}}$$

$$\text{bandwidth:} \frac{(C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{\frac{(C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}$$

bandwidth: $\frac{(C_1R_2+C_1R_3+C_2R_2)\sqrt{C_1C_2R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}}{\sqrt{C_1C_2\sqrt{R_2}\sqrt{R_3}}\sqrt{\frac{1}{C_2+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}-\sqrt{C_1C_5\sqrt{R_2}\sqrt{R_3}}\sqrt{\frac{1}{C_2+C_4-C_5}}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_5R_2R_6}{C_1R_2+C_1R_3+C_2R_2}$

Qz: None Wz: None

3.80 BP-80
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_2 R_4 R_6 s}{R_4 + s^2 \left(C_1 C_2 R_2 R_3 R_4 + C_1 C_4 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_2 R_2 R_4\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_1}C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4}$$

bandwidth: $\frac{(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4)\sqrt{\frac{1}{C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}}{\sqrt{C_1C_2\sqrt{R_2}\sqrt{R_3}R_4}\sqrt{\frac{1}{C_2+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4}$ Qz: None

Wz: None

3.81 BP-81
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6 + C_2C_3C_6R_2R_4R_6\right) + s\left(C_1C_2R_2R_4 + C_1C_3R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_2C_3R_2R_4 + C_3C_6R_4R_6\right)}$$

Parameters:

 $Q: \frac{C_1C_2\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6 + C_2C_3C_6R_2R_4R_6}}$

 $\frac{\sqrt{C_1C_2C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_1C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_1R_4$

K-LP: 0

K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_2C_3R_2R_4 + C_3C_6R_4R_6}$

Qz: None Wz: None

3.82 BP-82
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_5R_2R_4R_5 + C_1C_3C_5R_2R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_2R_2R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_2C_3R_2R_4 + C_3C_5R_4R_5\right)}$$

Q: $\frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{C_1C_2R_2R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5}$ wo: $\frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_2C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5}}$ bandwidth: $\frac{C_1C_2R_2R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5}{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5}}$

K-HP: 0

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_2C_3R_2R_4 + C_3C_5R_4R_5}$

Qz: None Wz: None

3.83 BP-83 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & \frac{1}{C_4 s}, & \frac{1}{C_5 s}, & \frac{R_6}{C_6 R_6 s + 1} \end{pmatrix}$

$$H(s) = \frac{C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_2C_6R_2R_6 + C_1C_3C_6R_2R_6 + C_1C_4C_6R_2R_6 - C_1C_5C_6R_2R_6 + C_2C_3C_6R_2R_6\right) + s\left(C_1C_2R_2 + C_1C_3R_2 + C_1C_4R_2 - C_1C_5R_2 + C_1C_6R_6 + C_2C_3R_2 + C_3C_6R_6\right)}$$

Parameters:

 $Q: \frac{{{C_1}{C_2}\sqrt {{C_6}\sqrt {{R_2}}\sqrt {{R_6}\sqrt {{C_1} + {C_3}}\sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}}}{{{C_1}{C_2}{R_2} + {C_1}{C_3}{R_2} + {$

wo: $\sqrt{C_1 + C_3} \sqrt{\frac{1}{C_1 C_2 C_6 R_2 R_6 + C_1 C_3 C_6 R_2 R_6 + C_1 C_4 C_6 R_2 R_6 - C_1 C_5 C_6 R_2 R_6 + C_2 C_3 C_6 R_2 R_6}$

 $\sqrt{C_1 + C_3} (C_1 C_2 R_2 + C_1 C_3 R_2 + C_1 C_4 R_2 - C_1 C_5 R_2 + C_1 C_6 R_6 + C_2 C_3 R_2 + C_3 C_6 R_6) \sqrt{\frac{1}{C_1 C_2 C_6 R_2 R_6 + C_1 C_3 C_6 R_2 R_6 + C_1 C_4 C_6 R_2 R_6 - C_1 C_5 C_6 R_2 R_6 + C_2 C_3 C_6 R_2 R_6 + C_1 C_3 C_6 R_2 R_6 + C_1 C_5 C_6 R_2 R_6 + C_2 C_3 C_6 R_2 R_6 + C_1 C_3 C_6 R_2 R_6 + C_1 C_5 C_6 R_2 R_6 + C_2 C_3 C_6 R_2 R_6 + C_1 C_5 C_6 R_5 R_6 + C_1 C_5 R_5 R_6 + C_1 C_5 R_6 + C_1 C_5 R_6 + C_1 C_5 R_6 + C_1 C_5 R_6 R_6 + C_1 C_$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_2R_6}{C_1C_2R_2+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_6R_6+C_2C_3R_2+C_3C_6R_6}$ Qz: None

Wz: None

3.84 BP-84 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

Parameters:

wo: $\frac{\sqrt{C_1 + C_3}}{\sqrt{C_1 C_2 C_5 R_2 R_5 + C_1 C_3 C_5 R_2 R_5 + C_1 C_4 C_5 R_2 R_5 + C_2 C_3 C_5 R_2 R_5}}}{\frac{C_1 C_2 R_2 + C_1 C_3 R_2 + C_1 C_4 R_2 - C_1 C_5 R_2 + C_1 C_5 R_5 + C_2 C_3 R_2 + C_3 C_5 R_5}{\sqrt{C_5} \sqrt{R_2} \sqrt{R_5} \sqrt{C_1 C_2 + C_1 C_3 + C_1 C_4 + C_2 C_3} \sqrt{C_1 C_2 C_5 R_2 R_5 + C_1 C_3 C_5 R_2 R_5 + C_1 C_4 C_5 R_2}}}$ bandwidth:

K-BP: $\frac{C_3C_5R_2R_6}{C_1C_2R_2 + C_1C_3R_2 + C_1C_4R_2 - C_1C_5R_2 + C_1C_5R_5 + C_2C_3R_2 + C_3C_5R_5}$ Qz: None

Wz: None

3.85 BP-85 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_3C_5R_2R_4R_6s$

Parameters:

 $: \frac{c_{1}c_{2}\sqrt{c_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{c_{1}R_{2}} + c_{1}R_{4} + c_{3}R_{4}}\sqrt{\frac{1}{c_{1}C_{2} + c_{1}C_{3} + c_{1}C_{4} - c_{1}C_{5} + c_{2}C_{3}}}{c_{1}C_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}} + c_{1}R_{4} + c_{3}R_{4}}\sqrt{\frac{1}{c_{1}C_{2} + c_{1}C_{3} + c_{1}C_{4} - c_{1}C_{5} + c_{2}C_{3}}}{c_{1}C_{2}R_{2}R_{4} + c_{1}C_{3}R_{2}R_{4} + c_{1}C_{5}R_{2}R_{4} + c_{1}C_{6}R_{2}R_{4} + c_{1}C_{6}R_{2}R_{6} +$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6 + C_1C_4C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6 + C_2C_3C_6R_2R_4R_6}}$

 $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}(C_1C_2R_2R_4 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_2C_3R_2R_4 + C_3C_6R_4R_6)\sqrt{\frac{1}{C_1C_2C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6 + C_1C_5C_6R_2R_4R_6 + C_2C_3C_6R_2R_4R_6 + C_2C_3R_2R_4 + C_3C_6R_4R_6)}$ $\overline{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{4}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+$

K-HP: 0

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4+C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_6R_2R_6+C_1C_6R_4R_6+C_2C_3R_2R_4+C_3C_6R_4R_6}$

Wz: None

3.86 BP-86 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_3C_5R_2R_4R_6s$ $H(s) = \frac{1}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_5R_2R_4R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_4C_5R_2R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_2R_2R_4 + C_1C_3R_2R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_2C_3R_2R_4 + C_3C_5R_4R_5\right)}$

Parameters:

K-LP: 0 K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4 + C_1C_3R_2R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_2C_3R_2R_4 + C_3C_5R_4R_5}$

Qz: None Wz: None

3.87 BP-87 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{1}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4\right) + s\left(C_1C_2R_2R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4\right)}$

Parameters:

 $\frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}}}{C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_2C_3R_2R_4}$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}$

 $\frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4}(C_1C_2R_2R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4)\sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}}{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 - C_5}}} - \sqrt{C_1}\sqrt{C_3}\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 - C_5}}}$

K-LP: 0

K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4}$

Wz: None

3.88 BP-88 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{1}{C_1 + C_3 + s^2 \left(C_1 C_2 C_3 R_2 R_3 + C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3 \right) + s \left(C_1 C_2 R_2 + C_1 C_3 R_2 + C_1 C_3 R_3 + C_1 C_4 R_2 - C_1 C_5 R_2 + C_2 C_3 R_2 \right)}$

Parameters:

 $Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_2 + C_4 - C_5}} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}{C_1C_2R_2 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_2C_3R_2}$

 $\sqrt{C_1 + C_3} (C_1 C_2 R_2 + C_1 C_3 R_2 + C_1 C_3 R_3 + C_1 C_4 R_2 - C_1 C_5 R_2 + C_2 C_3 R_2) \sqrt{\frac{1}{C_1 C_2 C_3 R_2 R_3 + C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}}$ bandwidth: $\frac{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}}$

K-LP: 0

K-HP: 0

K-BP: $\frac{C_3C_5R_2R_6}{C_1C_2R_2 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_2C_3R_2}$

Qz: None

Wz: None

3.89 BP-89
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_3R_2R_3R_4 + C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4\right) + s\left(C_1C_2R_2R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4\right)}{c_1R_2 + c_1R_4 + c_2R_4 + c_2R_3R_4 + c_1R_3R_4 + c_1R_3R_$$

Parameters:

 $+ \frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}+\sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}-\sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}-C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_2C_3R_2R_4}{C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_2C_3R_2R_4}$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4 + C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}$

 $\frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4}(C_1C_2R_2R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4)}{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} + \sqrt{C_1}\sqrt{C_1}\sqrt{C_1}C_2\sqrt{C_1}\sqrt{C_1}C_2\sqrt{C_1}\sqrt{C_1}C_2\sqrt{C_1}\sqrt{C_1}C_2\sqrt{C_1}C$

K-LP: 0 K-HP: 0

 $\begin{array}{lll} \text{K-BP:} & \frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_2C_3R_2R_4} \\ \end{array}$

Qz: None Wz: None

3.90 BP-90 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{-C_1 C_5 R_1 R_2 R_3 R_4 s^2 + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 - C_5 R_2 R_3 R_4\right)}$$

Parameters:

Q: $-\frac{i\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4-C_5R_2R_3R_4}}$ wo: $\frac{\sqrt{-R_1R_4-R_2R_3-R_2R_4-R_3R_4}}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$

bandwidth: $\frac{i\sqrt{-R_1R_4-R_2R_3-R_2R_4-R_3R_4}(C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4-C_5R_2R_3R_4)}{2(C_1R_1R_2R_3+C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4-C_5R_2R_3R_4)}$

 $C_1C_5R_1R_2R_3R_4\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}$

K-HP: 0

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4-C_5R_2R_3R_4}$

Wz: None

3.91 BP-91 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_5R_1R_2R_4R_6s$

 $H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(-C_1C_5R_1R_2R_3R_4 + C_1C_5R_1R_2R_3R_5 + C_1C_5R_1R_2R_4R_5 + C_1C_5R_1R_3R_4R_5\right) + s\left(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_5R_1R_4R_5 - C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_4R_5 + C_5R_3R_4R_5\right)}$

Parameters:

 $-\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{4}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{4}R_{5}+R_{3}R_{4}R_{5} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{4}R_{5}+R_{3}R_{4}R_{5} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{4}R_{5}+R_{3}R_{4}R_{5} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{4}R_{5} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{4}R_{5} + \sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{4}R_{5} + R_{1}R_{4}R_{5} + R_{1}R_{4}R_{$

wo: $\sqrt{\frac{-R_1R_4 - R_2R_3 - R_2R_4 - R_3R_4}{C_1C_5R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_5 - C_1C_5R_1R_2R_4R_5 - C_1C_5R_1R_3R_4R_5}}$

 $\frac{-R_{1}R_{4}-R_{2}R_{3}-R_{2}R_{4}-R_{3}R_{4}}{\sqrt{C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{1}R_{2}R_{3}+C_{1}C_{5}R_{1}R_{2}R_{4}+C_{5}R_{1}R_{4}R_{5}-C_{5}R_{2}R_{3}R_{4}+C_{5}R_{2}R_{3}R_{5}+C_{5}R_{2}R_{4}R_{5}+C_{5}R_{3}R_{4}R_{5})}}{-\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}R_{4}}+\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}R_{4}}+\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}R_{4}}+\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}R_{4}}+\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}R_{4}}+\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}R_{4}}+\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}R_{4}}+\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{4}+R_{3}R_{4}}+\sqrt{C_{1}}\sqrt{C_{5}}\sqrt{R_{1}}R_{2}R_{4}+R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}R_{4}}+R_{3}R_{4}+R_{3}R_{4}+R_{3}R_{4}+R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}+R_{3}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ Qz: None

Wz: None

3.92 BP-92
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s^2 \left(C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3 \right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3 \right)}$$

3.93 BP-93
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_1 C_4 R_1 R_2 R_3 R_4 - C_1 C_5 R_1 R_2 R_3 R_4\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_4 R_2 R_3 R_4 - C_5 R_2 R_3 R_4\right)}$$

Parameters:

$$Q\colon \frac{\sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_4R_2R_3R_4-C_5R_2R_3R_4}}\\ \text{wo: } \sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_1C_4R_1R_2R_3R_4-C_1C_5R_1R_2R_3R_4}}\\ \text{bandwidth: } \frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}(C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_4R_2R_3R_4-C_5R_2R_3R_4)\sqrt{\frac{1}{C_1C_4R_1R_2R_3R_4-C_1C_5R_1R_2R_3R_4}}}{\sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_4R_2R_3R_4}-C_5R_2R_3R_4}{C_2\text{E: None}}\\ \text{Wz: None}\\ \text{Wz: None}$$

3.94 BP-94
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{C_1 C_3 R_1 R_2 R_4 R_5 s^2 - R_2 R_4 + R_2 R_5 + R_4 R_5 + s \left(-C_1 R_1 R_2 R_4 + C_1 R_1 R_2 R_5 + C_1 R_1 R_4 R_5 + C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 \right)}$$

Parameters:

Q:
$$-\frac{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}$$
 wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $-\frac{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}{C_1C_3R_1R_2R_4R_5}$ K-LP: 0 K-HP: 0 K-BP: $-\frac{C_3R_1R_2R_4R_6}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}$ Qz: None Wz: None

3.95 BP-95
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_1C_3C_6R_1R_2R_4 - C_1C_5C_6R_1R_2R_4\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

```
\begin{array}{l} Q\colon \frac{\sqrt{C_{1}}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}}{C_{1}R_{1}R_{2}+C_{1}R_{1}R_{4}+C_{3}R_{1}R_{4}+C_{3}R_{2}R_{4}-C_{5}R_{2}R_{4}}\\ \text{wo: }\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}R_{4}-C_{1}C_{5}R_{1}R_{2}R_{4}}}\\ \text{bandwidth: }\frac{\sqrt{R_{2}+R_{4}}(C_{1}R_{1}R_{2}+C_{1}R_{1}R_{4}+C_{3}R_{2}R_{4}-C_{5}R_{2}R_{4})\sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}R_{4}-C_{1}C_{5}R_{1}R_{2}R_{4}}}}{\sqrt{C_{1}}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}}\\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: }\frac{C_{3}C_{5}R_{1}R_{2}R_{4}}{C_{1}C_{6}R_{1}R_{4}+C_{3}C_{6}R_{1}R_{4}+C_{3}C_{6}R_{2}R_{4}-C_{5}C_{6}R_{2}R_{4}}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}
```

3.96 BP-96
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s^2 \left(C_1 C_3 R_1 R_2 R_5 + C_1 C_4 R_1 R_2 R_5\right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_3 R_1 R_5 + C_3 R_2 R_5 + C_4 R_2 R_5\right)}$$

 $\begin{array}{l} Q \colon -\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{C_3} + C_4\sqrt{-R_2 + R_5}}{C_1R_1R_2 - C_1R_1R_5 - C_3R_1R_5 - C_3R_2R_5 - C_4R_2R_5} \\ \text{wo: } \frac{\sqrt{-R_2 + R_5}}{\sqrt{C_1C_3R_1R_2R_5 + C_1C_4R_1R_2R_5}} \\ \text{bandwidth: } -\frac{C_1R_1R_2 - C_1R_1R_5 - C_3R_1R_5 - C_3R_2R_5 - C_4R_2R_5}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{C_3 + C_4}\sqrt{C_1C_3R_1R_2R_5 + C_1C_4R_1R_2R_5}} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } -\frac{C_3R_1R_2R_6}{C_1R_1R_2 - C_1R_1R_5 - C_3R_1R_5 - C_3R_2R_5 - C_4R_2R_5} \\ \text{Qz: None} \\ \text{Wz: None} \end{array}$

3.97 BP-97
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2s}{C_6 + s^2\left(C_1C_3C_6R_1R_2 + C_1C_4C_6R_1R_2 - C_1C_5C_6R_1R_2\right) + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2\right)}$$

Parameters:

3.98 BP-98
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s^2 \left(C_1 C_3 R_1 R_2 R_4 R_5 + C_1 C_4 R_1 R_2 R_4 R_5\right) + s \left(-C_1 R_1 R_2 R_4 + C_1 R_1 R_2 R_5 + C_1 R_1 R_4 R_5 + C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 + C_4 R_2 R_4 R_5\right)}$$

$$\begin{array}{l} Q: -\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5}\\ wo: \frac{\sqrt{-R_2}R_4+R_2}{\sqrt{C_1C_3}R_1R_2R_4R_5+C_1C_4R_1R_2R_4R_5}\\ bandwidth: -\frac{C_1R_1R_2R_4-C_1R_1R_2R_4R_5}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{C_1C_3}R_1R_2R_4R_5+C_1C_4R_1R_2R_4R_5}}\\ K-LP: 0\\ K-HP: 0\\ K-BP: -\frac{C_3R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5}}\\ Qz: None \end{array}$$

Wz: None

3.99 BP-99
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_1C_3C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_4 - C_1C_5C_6R_1R_2R_4\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

Parameters:

 $Q \colon \frac{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_1R_2+C_1R_1R_4+C_3R_1R_4+C_3R_2R_4+C_4R_2R_4-C_5R_2R_4}$

 $\frac{\sqrt{R_2 + R_4}(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4)\sqrt{\frac{1}{C_1C_3R_1R_2R_4 + C_1C_4R_1R_2R_4 - C_1C_5R_1R_2R_4}}}{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2 + R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2 + R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2 + R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_1C_6R_1R_2+C_1C_6R_1R_4+C_3C_6R_1R_4+C_3C_6R_2R_4+C_4C_6R_2R_4-C_5C_6R_2R_4}$ Qz: None

Wz: None

3.100 BP-100 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

 $C_3R_1R_2R_4R_6s$ $H(s) = \frac{1}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(-C_1C_3R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_1R_2R_4R_5 + C_1C_3R_1R_2R_4 + C_1R_1R_2R_5 + C_1R_1R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5\right)}{-R_3R_4R_5 + R_4R_5 + R_5R_5 + R_5R_5$

Parameters:

 $Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_2R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5$

 $\frac{\text{bandwidth:}}{\sqrt{C_1\sqrt{C_3}\sqrt{R_1}R_2R_3R_4\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} - \sqrt{C_1\sqrt{C_3}\sqrt{R_1}$

K-HP: 0

 $\text{K-BP:} - \frac{C_3 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_4 - C_1 R_1 R_2 R_5 - C_1 R_1 R_4 R_5 - C_3 R_1 R_4 R_5 + C_3 R_2 R_3 R_4 - C_3 R_2 R_3 R_5 - C_3 R_2 R_4 R_5 - C_3 R_3 R_4 R_5}$

Qz: None

Wz: None

3.101 BP-101 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

Parameters:

 $\frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2-C_5}}}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4-C_5R_3R_4}$

wo: $\sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4}}$

 $\frac{\sqrt{R_3 + R_4}(C_1 R_1 R_3 + C_1 R_1 R_4 + C_2 R_1 R_4 + C_2 R_3 R_4 - C_5 R_3 R_4)\sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4}}}{\sqrt{C_1 C_2 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_2 - C_5}}} - \sqrt{C_1 C_5 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_2 - C_5}}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_5R_1R_4R_6}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4-C_5R_3R_4}$ Qz: None Wz: None

3.102 BP-102
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_6 s}{s^2 \left(C_1 C_2 R_1 R_3 + C_1 C_4 R_1 R_3 - C_1 C_5 R_1 R_3\right) + s \left(C_1 R_1 + C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3\right) + 1}$$

3.103 BP-103 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s^2 \left(C_1 C_2 R_1 R_3 R_4 + C_1 C_4 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4\right) + s \left(C_1 R_1 R_3 + C_1 R_1 R_4 + C_2 R_1 R_4 + C_2 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4\right)}$$

Parameters:

$$Q\colon \frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4}\\ \text{wo: } \sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2R_1R_3R_4+C_1C_4R_1R_3R_4-C_1C_5R_1R_3R_4}}\\ \text{bandwidth: } \frac{\sqrt{R_3+R_4}(C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4)\sqrt{\frac{1}{C_1C_2R_1R_3R_4+C_1C_4R_1R_3R_4-C_1C_5R_1R_3R_4}}}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}+\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}}\\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_5R_1R_4R_6}{C_1R_1R_3+C_1R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4}}\\ \text{Qz: None}\\ \text{Wz: None}$$

3.104 BP-104 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_4 R_6 s}{-R_4 + R_5 + s^2 \left(C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 + C_2 C_3 R_1 R_4 R_5\right) + s \left(-C_1 R_1 R_4 + C_1 R_1 R_5 + C_2 R_4 R_5 + C_3 R_4 R_5\right)}$$

Parameters:

Q:
$$-\frac{\sqrt{K_1 V_4 V_4 V_4 V_5 V_5} - K_4 + K_5 V_5 U_1 C_2 + U_1 C_3 + U_2 U_3}{C_1 R_1 R_4 - C_1 R_1 R_5 - C_2 R_4 R_5 - C_3 R_4 R_5}$$
 wo:
$$\frac{\sqrt{-R_4 + R_5}}{\sqrt{C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 + C_2 C_3 R_1 R_4 R_5}}$$
 bandwidth:
$$-\frac{C_1 R_1 R_4 - C_1 R_1 R_5 - C_2 R_4 R_5 - C_3 R_4 R_5}{\sqrt{R_1 \sqrt{R_4 \sqrt{R_5}}} \sqrt{C_1 C_2 + C_1 C_3 + C_2 C_3} \sqrt{C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 + C_2 C_3 R_1 R_4 R_5}}$$
 K-LP:
$$0$$
 K-HP:
$$0$$
 K-BP:
$$-\frac{C_3 R_1 R_4 R_6}{C_1 R_1 R_4 - C_1 R_1 R_5 - C_2 R_4 R_5 - C_3 R_4 R_5}$$
 Qz: None Wz: None

3.105 BP-105 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_4s}{C_6 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 - C_1C_5C_6R_1R_4 + C_2C_3C_6R_1R_4\right) + s\left(C_1C_6R_1 + C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4\right)}$$

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 Q: \frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} \\ wo: \sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{4}+C_{1}C_{3}R_{1}R_{4}-C_{1}C_{5}R_{1}R_{4}+C_{2}C_{3}R_{1}R_{4}}} \\ bandwidth: \frac{(C_{1}R_{1}+C_{2}R_{4}+C_{3}R_{4}-C_{5}R_{4})\sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{4}+C_{1}C_{3}R_{1}R_{4}-C_{1}C_{5}R_{1}R_{4}+C_{2}C_{3}R_{1}R_{4}}}}{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{
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3.106 BP-106 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_6 s}{s^2 \left(C_1 C_2 R_1 R_5 + C_1 C_3 R_1 R_5 + C_1 C_4 R_1 R_5 + C_2 C_3 R_1 R_5\right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5\right) - 1}$$

Parameters:

Wz: None

3.107 BP-107 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_1C_2C_6R_1R_6 + C_1C_3C_6R_1R_6 + C_1C_5C_6R_1R_6 + C_2C_3C_6R_1R_6\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_5R_1 + C_2C_3R_1 + C_2C_6R_6 + C_3C_6R_6 + C_4C_6R_6 - C_5C_6R_6\right)}{c_2 + c_3 + c_4 + c_5 + s^2\left(C_1C_2C_6R_1R_6 + C_1C_3C_6R_1R_6 + C_1C_5C_6R_1R_6 + C_2C_3C_6R_1R_6\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_5R_1 + C_2C_3R_1 + C_2C_6R_6 + C_3C_6R_6 + C_4C_6R_6\right)}$$

Parameters:

 $Q: \frac{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{1}}\sqrt{R_{6}}\sqrt{\frac{C_{2}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{4}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{4}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{4}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C$

3.108 BP-108 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_1C_2C_5R_1R_5 + C_1C_3C_5R_1R_5 + C_1C_4C_5R_1R_5 + C_2C_3C_5R_1R_5\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_5R_1 + C_2C_3R_1 + C_2C_5R_5 + C_3C_5R_5 + C_4C_5R_5\right)}{c_3C_5R_1R_5 + c_3C_5R_1R_5 + c_$$

Parameters:

Wz: None

Wz: None

3.109 BP-109
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_4 R_6 s}{-R_4 + R_5 + s^2 \left(C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 + C_1 C_4 R_1 R_4 R_5 + C_2 C_3 R_1 R_4 R_5\right) + s \left(-C_1 R_1 R_4 + C_1 R_1 R_5 + C_2 R_4 R_5 + C_3 R_4 R_5 + C_4 R_4 R_5\right)}$$

Parameters:

K-LP: 0 K-HP: 0

K-BP: $-\frac{C_3R_1R_4R_6}{C_1R_1R_4 - C_1R_1R_5 - C_2R_4R_5 - C_3R_4R_5 - C_4R_4R_5}$ Qz: None Wz: None

3.110 BP-110 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_4s}{C_6 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_4C_6R_1R_4 - C_1C_5C_6R_1R_4 + C_2C_3C_6R_1R_4\right) + s\left(C_1C_6R_1 + C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4\right)}$$

Parameters:

$$Q: \frac{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+\frac{1}{C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+\frac{1}{C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+\frac{1}{C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+\frac{1}{C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}R_{4}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}R_{4}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}R_{4}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}R_{4}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}C_{4}+C_{1}C_{4}+C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}{C_{1}C_{4}+C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt$$

 $(C_1R_1 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4)\sqrt{\frac{1}{C_1C_2R_1R_4 + C_1C_3R_1R_4 + C_1C_4R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_1R_4}}$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_4}{C_1C_6R_1+C_2C_6R_4+C_3C_6R_4+C_4C_6R_4-C_5C_6R_4}$ Qz: None Wz: None

3.111 BP-111 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_1C_2C_3R_1R_3 + C_1C_3C_4R_1R_3 - C_1C_3C_5R_1R_3\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_5R_1 + C_2C_3R_1 + C_2C_3R_3 + C_3C_4R_3 - C_3C_5R_3\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_{1}}C_{2}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}}}{+\sqrt{C_{1}}\sqrt{C_{3}}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{2}+C_{4}-C_{5}}{C_{2}+C_{4}-C_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} + \frac{C_{5}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}}}{+\frac{C_{4}}{C_{4}+C_{5}}} + \frac{C_{4}}{C_{4}+C_{5}}}{+\frac{C_{4}}{C_{4}+C_{5}}} + \frac{C_{4}}{C_{4}+C_{5}}}{+\frac{C_{4}}{C_{4}+C_{5}}} + \frac{C_{4}}{C_{4}+C_{5}}}{+\frac{C_{4}}{C_{4}+C_{5}}} + \frac{C_{4}}{C_{4}+C_{5}}}{+\frac{C_{4}}{C_{4}+C_{5}}} + \frac{C_{4}}{C_{4}+C_{5}}}{+\frac$$

wo: $\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_1 C_2 C_3 R_1 R_3 + C_1 C_3 C_4 R_1 R_3 - C_1 C_3 C_5 R_1 R_3}}$

 $\frac{\sqrt{\frac{C_{2}+C_{3}+C_{4}-C_{5}}{C_{1}C_{2}C_{3}R_{1}R_{3}+C_{1}C_{3}C_{5}R_{1}R_{3}}}(C_{1}C_{2}R_{1}+C_{1}C_{3}R_{1}+C_{1}C_{4}R_{1}-C_{1}C_{5}R_{1}+C_{2}C_{3}R_{3}+C_{3}C_{4}R_{3}-C_{3}C_{5}R_{3})}{\sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{3}}{C_{2}+C_{4}-C_{5}}+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}+\sqrt{C_{1}}\sqrt{C_{3}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{3}}{C_{2}+C_{4}-C_{5}}-\sqrt{C_{1}}\sqrt{C_{3}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{3}}{C_{2}+C_{4}-C_{5}}+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}-\sqrt{C_{1}}\sqrt{C_{3}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{3}}{C_{2}+C_{4}-C_{5}}+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}-\sqrt{C_{1}}\sqrt{C_{3}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{3}}{C_{2}+C_{4}-C_{5}}+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C$

K-HP: 0

K-BP: $\frac{C_3C_5R_1R_6}{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_1+C_2C_3R_3+C_3C_4R_3-C_3C_5R_3}$ Qz: None

Wz: None

3.112 BP-112
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_4 - C_1 C_5 R_1 R_2 R_3 R_4\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 - C_5 R_2 R_3 R_4\right)}{R_1 R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_4 - C_1 C_5 R_1 R_2 R_3 R_4\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 - C_5 R_2 R_3 R_4\right)}$$

$$Q\colon \frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_2-C_5}}}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_2R_1R_2R_4+C_2R_2R_3R_4-C_5R_2R_3R_4}\\ \text{wo: } \sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4-C_1C_5R_1R_2R_3R_4}}\\ \text{bandwidth: } \frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{C_1C_2R_1R_2R_3R_4-C_1C_5R_1R_2R_3R_4}}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}\sqrt{\frac{1}{C_2-C_5}}\\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_4+C_1R_1R_3R_4+C_2R_2R_3R_4-C_5R_2R_3R_4}\\ \text{Qz: None}\\ \text{Wz: None}$$

3.113 BP-113 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s^2 \left(C_1 C_2 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3\right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_3 + C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3\right)}$$

Parameters:

$$Q\colon \frac{\sqrt{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}{C_{1}R_{1}R_{2}+C_{1}R_{1}R_{2}+C_{2}R_{1}R_{2}+C_{2}R_{2}R_{3}+C_{4}R_{2}R_{3}-C_{5}R_{2}R_{3}}}$$

$$wo: \sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{2}R_{3}+C_{1}C_{4}R_{1}R_{2}}R_{3}-C_{1}C_{5}R_{1}R_{2}R_{3}}}$$

$$bandwidth: \frac{\sqrt{R_{1}+R_{2}+R_{3}}(C_{1}R_{1}R_{2}+C_{1}R_{1}R_{3}+C_{2}R_{1}R_{2}+C_{2}R_{2}R_{3}+C_{4}R_{2}R_{3}-C_{5}R_{2}R_{3}})\sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{2}R_{3}+C_{1}C_{5}R_{1}R_{2}R_{3}}}}{\sqrt{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}}$$

$$K-LP: 0$$

$$K-HP: 0$$

$$K-BP: \frac{C_{5}R_{1}R_{2}R_{6}}{C_{1}R_{1}R_{2}+C_{1}R_{1}R_{3}+C_{2}R_{1}R_{2}+C_{2}R_{2}R_{3}+C_{4}R_{2}R_{3}-C_{5}R_{2}R_{3}}}{C_{2}: None}}$$

$$Wz: None$$

3.114 BP-114
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_4 + C_1 C_4 R_1 R_2 R_3 R_4 - C_1 C_5 R_1 R_2 R_3 R_4\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_4 R_2 R_3 R_4 - C_5 R_2 R_3 R_4\right)}$

3.115 BP-115
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s^2 \left(C_1 C_2 R_1 R_2 R_4 R_5 + C_1 C_3 R_1 R_2 R_4 R_5 + C_2 C_3 R_1 R_2 R_4 R_5\right) + s \left(-C_1 R_1 R_2 R_4 + C_1 R_1 R_2 R_5 + C_1 R_1 R_4 R_5 + C_2 R_2 R_4 R_5 + C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5\right)}$$

Q: $-\frac{\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{2}C_{3}}\sqrt{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}}{C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}}$ wo: $\frac{\sqrt{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}}{\sqrt{C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{4}R_{5}}}$ bandwidth: $-\frac{C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}}{\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{2}C_{3}}\sqrt{C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{4}R_{5}}}$

K-HP: 0

 $\text{K-BP:} - \frac{C_3 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_4 - C_1 R_1 R_2 R_5 - C_1 R_1 R_4 R_5 - C_2 R_2 R_4 R_5 - C_3 R_1 R_4 R_5 - C_3 R_2 R_4 R_5}$

Qz: None Wz: None

3.116 BP-116 $Z(s) = \begin{pmatrix} \frac{R_1}{C_1 R_1 s + 1}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & R_4, & \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 - C_1C_5C_6R_1R_2R_4 + C_2C_3C_6R_1R_2R_4\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

Parameters:

 $Q: \underbrace{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{1}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} -C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} +C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} -C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} +C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} -C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} +C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} -C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} +C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2$

wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4}$

 $\frac{\sqrt{R_2 + R_4}(C_1 R_1 R_2 + C_1 R_1 R_4 + C_2 R_2 R_4 + C_3 R_1 R_4 + C_3 R_2 R_4 - C_5 R_2 R_4)\sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4}}{C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R$

K-LP: 0 K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_1C_6R_1R_2+C_1C_6R_1R_4+C_2C_6R_2R_4+C_3C_6R_1R_4+C_3C_6R_2R_4-C_5C_6R_2R_4}$ Qz: None

Wz: None

3.117 BP-117 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s^2 \left(C_1 C_2 R_1 R_2 R_5 + C_1 C_3 R_1 R_2 R_5 + C_1 C_4 R_1 R_2 R_5 + C_2 C_3 R_1 R_2 R_5\right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 + C_3 R_1 R_5 + C_3 R_2 R_5 + C_4 R_2 R_5\right)}$$

Parameters:

 $\begin{array}{l} Q\colon -\frac{\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-R_2+R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5}\\ \text{wo: } \frac{\sqrt{-R_2+R_5}}{\sqrt{C_1C_2R_1R_2R_5+C_1C_3R_1R_2R_5+C_1C_4R_1R_2R_5+C_2C_3R_1R_2R_5}}\\ \text{bandwidth: } -\frac{C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2R_1R_2R_5+C_1C_3R_1R_2R_5+C_1C_4R_1R_2R_5}}\\ \text{TABLE C.} \end{array}$

K-HP: 0

K-BP: $-\frac{C_3R_1R_2R_6}{C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5}$

Qz: None

Wz: None

3.118 BP-118 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2s}{C_6 + s^2\left(C_1C_2C_6R_1R_2 + C_1C_3C_6R_1R_2 + C_1C_4C_6R_1R_2 - C_1C_5C_6R_1R_2 + C_2C_3C_6R_1R_2\right) + s\left(C_1C_6R_1 + C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2\right)}$$

Parameters:

 $Q \colon \frac{C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}{C_1 R_1 + C_2 R_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3} + C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}{C_1 R_1 + C_2 R_2 + C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}} \\ - C_1 C_2 \sqrt{R_1} \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}}}$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_3R_1R_2+C_1C_4R_1R_2-C_1C_5R_1R_2+C_2C_3R_1R_2}}$

 $(C_1R_1 + C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1}C_3R_1R_2 + C_1C_4R_1R_2 - C_1C_5R_1R_2 + C_2C_3R_1R_2}$ $\overline{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{$

K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2}{C_1C_6R_1 + C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2}$

Qz: None Wz: None

3.119 BP-119 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $C_3R_1R_2R_4R_6s$ $H(s) = \frac{-\frac{1}{12} - \frac{1}{12} -$

Parameters:

Wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_1C_4R_1R_2R_4R_5+C_2C_3R_1R_2R_4R_5}}$ bandwidth: $-\frac{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_2R_2R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_1C_4R_1R_2R_4R_5+C_2C_3R_1R_2R_4R_5}}$

K-LP: 0

K-HP: 0

 $\text{K-BP:} - \frac{C_3 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_4 - C_1 R_1 R_2 R_5 - C_1 R_1 R_4 R_5 - C_2 R_2 R_4 R_5 - C_3 R_1 R_4 R_5 - C_3 R_2 R_4 R_5 - C_4 R_2 R_4 R_5}$

Qz: None Wz: None

3.120 BP-120 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_3C_5R_1R_2R_4s$ $H(s) = \frac{C_3C_3R_1R_2R_4}{C_6R_2 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_2C_3C_6R_1R_2R_4\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_2C_6R_2R_4 + C_3C_6R_1R_4 + C$

Parameters:

 $Q: \frac{{{C_1}{C_2}\sqrt {{R_1}\sqrt {{R_2}\sqrt {{R_4}}\sqrt {{R_2} + {R_4}}} \sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}}}{{{C_1}{R_1}{R_2} + {C_1}{R_3} + {C_1}{R_4} + {C_2}{R_2}{R_4} + {C_3}{R_1}{R_4} + {C_3}{R_2}{R_4} + {C_3}{R_2}{R_4} + {C_4}{R_2}{R_4} - {C_5}{R_2}{R_4}}}} - {C_1}{C_5}\sqrt {{R_1}}\sqrt {{R_2}}\sqrt {{R_4}}\sqrt {{R_2} + {R_4}}} \sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}} - {C_1}{C_5}\sqrt {{R_1}}\sqrt {{R_2}}\sqrt {{R_4}}\sqrt {{R_2} + {R_4}}} \sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}}} - {C_1}{C_5}\sqrt {{R_1}}\sqrt {{R_2}}\sqrt {{R_4}}\sqrt {{R_2} + {R_4}}} \sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}} - {C_1}{C_5}\sqrt {{R_1}}\sqrt {{R_2}}\sqrt {{R_4}}\sqrt {{R_2} + {R_4}}} \sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}} - {C_1}{C_5}\sqrt {{R_1}}\sqrt {{R_2}}\sqrt {{R_4}}\sqrt {{R_2} + {R_4}}} \sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}}} - {C_1}{C_5}\sqrt {{R_1}}\sqrt {{R_2}}\sqrt {{$

wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 + C_1 C_4 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4}$

 $\sqrt{R_2 + R_4} (C_1 R_1 R_2 + C_1 R_1 R_4 + C_2 R_2 R_4 + C_3 R_1 R_4 + C_3 R_2 R_4 + C_4 R_2 R_4 - C_5 R_2 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 + C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4 + C_3 R_1 R_2 R_4$ $\frac{\sqrt{C_1C_2N_1N_2N_4+C_1C_3+C_1C_4+C_1C_3+C_1C_4+C_1C_5+C_2C_3}}{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{$

K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_1R_2R_4}{C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4}$

Wz: None

BP-UNSTABLE-ZERO

- 5 BS
- \mathbf{GE}
- 7 HP

7.1 HP-1
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_3C_6R_1R_4R_6 + C_3C_6R_2R_4R_6 - C_5C_6R_2R_4R_6\right) + s\left(C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4 + C_6R_2R_6 + C_6R_4R_6\right)}$$

$$\begin{array}{c} Q\colon \frac{C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_6}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}+C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}\\ wo: \sqrt{R_2+R_4}\sqrt{\frac{1}{C_3C_6R_1R_4R_6+C_3C_6R_2R_4R_6}-C_5C_6R_2R_4R_6}\\ \\ bandwidth: \frac{\sqrt{R_2+R_4}(C_3R_1R_4+C_3R_2R_4-C_5R_2R_4+C_6R_2R_6+C_6R_4R_6)\sqrt{\frac{1}{C_3C_6R_1R_4R_6+C_3C_6R_2R_4R_6}}}{C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_6}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}}+C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}}\\ K-LP: 0\\ K-HP: \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}\\ K-BP: 0\\ Qz: None\\ Wz: None \end{array}$$

7.2 HP-2 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_3C_5R_1R_4R_5 + C_3C_5R_2R_4R_5\right) + s\left(C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4 + C_5R_2R_5 + C_5R_4R_5\right)}$$

Parameters:

Q:
$$\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{R_2+R_4}}{C_3R_1R_4+C_3R_2R_4-C_5R_2R_4+C_5R_2R_5+C_5R_4R_5}$$
 wo:
$$\frac{\sqrt{R_2+R_4}}{\sqrt{C_3C_5R_1R_4R_5+C_3C_5R_2R_4R_5}}$$
 bandwidth:
$$\frac{C_3R_1R_4+C_3R_2R_4-C_5R_2R_4+C_5R_2R_5+C_5R_4R_5}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3C_5R_1R_4R_5+C_3C_5R_2R_4R_5}}$$
 K-LP: 0 K-HP:
$$\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$$
 K-BP: 0 Qz: None Wz: None

7.3 HP-3
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^2\left(C_3C_6R_1R_6 + C_3C_6R_2R_6 + C_4C_6R_2R_6 - C_5C_6R_2R_6\right) + s\left(C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_6R_6\right) + 1}$$

Parameters:

$$\begin{array}{c} Q: \frac{C_3\sqrt{C_6}R_1\sqrt{R_6}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_3\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_4\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} - C_5\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} \\ wo: \sqrt{\frac{1}{C_3C_6}R_1R_6+C_3C_6R_2R_6} + \frac{C_3R_1+C_3R_2+C_4R_2-C_5R_2+C_6R_6}{C_3R_1+C_3R_2+C_4R_2-C_5R_2+C_6R_6} \\ \\ bandwidth: \frac{(C_3R_1+C_3R_2+C_4R_2-C_5R_2+C_6R_6)\sqrt{\frac{1}{C_3C_6}R_1R_6+C_3C_6R_2R_6} - C_5C_6R_2R_6}{C_3\sqrt{C_6}R_1\sqrt{R_6}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_3\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_4\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} - C_5\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} \\ K-LP: 0 \\ K-HP: \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} \\ K-BP: 0 \\ Qz: None \\ Wz: None \\ \end{array}$$

7.4 HP-4
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^2\left(C_3C_5R_1R_5 + C_3C_5R_2R_5 + C_4C_5R_2R_5\right) + s\left(C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_5R_5\right) + 1}$$

```
Q: \frac{\sqrt{C_5}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_3R_1+C_3R_2+C_4R_2-C_5R_2+C_5R_5} wo: \frac{1}{\sqrt{C_3C_5R_1R_5+C_3C_5R_2R_5+C_4C_5R_2R_5}} bandwidth: \frac{C_3R_1+C_3R_2+C_4R_2-C_5R_2+C_5R_5}{\sqrt{C_5}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_3C_5R_1R_5+C_3C_5R_2R_5+C_4C_5R_2R_5}} K-LP: 0 K-HP: \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5} K-BP: 0 Qz: None
```

7.5 HP-5 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_3C_6R_1R_4R_6 + C_3C_6R_2R_4R_6 + C_4C_6R_2R_4R_6 - C_5C_6R_2R_4R_6\right) + s\left(C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4 + C_6R_2R_6 + C_6R_4R_6\right)}$$

Parameters:

Wz: None

7.6 HP-6 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_3C_5R_1R_4R_5 + C_3C_5R_2R_4R_5 + C_4C_5R_2R_4R_5\right) + s\left(C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4 + C_5R_2R_5 + C_5R_4R_5\right)}$$

Parameters:

Qz: None Wz: None

7.7 **HP-7** $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{-C_3C_5R_2R_3R_4s^2 + R_2 + R_4 + s\left(C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_3R_3R_4 - C_5R_2R_4\right)}$$

Parameters:

7.8 **HP-8**
$$Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_3C_5R_1R_4R_5 - C_3C_5R_2R_3R_4 + C_3C_5R_2R_3R_5 + C_3C_5R_2R_4R_5 + C_3C_5R_3R_4R_5\right) + s\left(C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_5R_2R_4 + C_5R_2R_5 + C_5R_4R_5\right)}$$

 $Q: \frac{\sqrt{C_3}\sqrt{C_5}R_1R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_5R_2R_4R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5\sqrt{R_2+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_3R_4R_5}$ wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_3 C_5 R_1 R_4 R_5 - C_3 C_5 R_2 R_3 R_4 + C_3 C_5 R_2 R_3 R_5 + C_3 C_5 R_2 R_4 R_5 + C_3 C_5 R_3 R_4 R_5}$

K-LP: 0

K-HP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-BP: 0

Qz: None Wz: None

7.9 **HP-9** $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^2\left(C_3C_4R_2R_3 - C_3C_5R_2R_3\right) + s\left(C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 - C_5R_2\right) + 1}$$

Parameters:

7.10 HP-10
$$Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_3C_4R_2R_3R_4 - C_3C_5R_2R_3R_4\right) + s\left(C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_3R_3R_4 + C_4R_2R_4 - C_5R_2R_4\right)}$$

Parameters:

Wz: None

$$Q\colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_4-C_5}}}{C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4}\\ \text{wo: } \sqrt{R_2+R_4}\sqrt{\frac{1}{C_3C_4R_2R_3R_4-C_3C_5R_2R_3R_4}}\\ \text{bandwidth: } \frac{\sqrt{R_2+R_4}(C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4)\sqrt{\frac{1}{C_3C_4R_2R_3R_4-C_3C_5R_2R_3R_4}}}{\sqrt{C_3C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_3-C_5R_3}\\ \text{K-BP: 0}\\ \text{Qz: None}$$

7.11 HP-11
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3 C_5 R_1 R_4 R_6 s^2}{C_2 C_3 R_1 R_4 s^2 + s \left(C_2 R_4 + C_3 R_4 - C_5 R_4\right) + 1}$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_4}+C_3\sqrt{R_4}-C_5\sqrt{R_4}}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_2\sqrt{R_4}+C_3\sqrt{R_4}-C_5\sqrt{R_4}}{C_2C_3R_1\sqrt{R_4}}$ K-LP: 0 K-HP: $\frac{C_5R_6}{C_2}$ K-BP: 0 Qz: None Wz: None

7.12 HP-12 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3 C_5 R_1 R_4 R_6 s^2}{C_2 C_3 R_1 R_4 s^2 + s \left(C_2 R_4 + C_3 R_4 + C_4 R_4 - C_5 R_4\right) + 1}$

Parameters:

7.13 HP-13 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^2\left(C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4\right) + s\left(C_2R_4 + C_3R_3 + C_3R_4 - C_5R_4\right) + 1}$

Parameters:

 $Q\colon \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}-\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{C_2R_4+C_3R_3+C_3R_4-C_5R_4}\\ \text{wo: } \sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_3R_4-C_3C_5R_3R_4}}\\ \text{bandwidth: } \frac{(C_2R_4+C_3R_3+C_3R_4-C_5R_4)\sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_3R_4-C_3C_5R_3R_4}}}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}-\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}\\ \text{K-BP: 0}\\ \text{Qz: None}\\ \text{Wz: None}$

7.14 HP-14 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^2\left(C_2C_3R_1R_4 + C_2C_3R_3R_4 + C_3C_4R_3R_4 - C_3C_5R_3R_4\right) + s\left(C_2R_4 + C_3R_3 + C_3R_4 + C_4R_4 - C_5R_4\right) + 1}$$

Parameters:

 $\text{Q:} \ \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C_3}C_4R_3\sqrt{C$

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Wo: \sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}
```

 $(C_2R_4+C_3R_3+C_3R_4+C_4R_4-C_5R_4)\sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}$

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}$ K-BP: 0

Qz: None Wz: None

7.15 HP-15 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{C_2C_3R_1R_2R_4s^2 + R_2 + R_4 + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2+R_4}}{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{R_2+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}{C_2C_3R_1R_2\sqrt{R_4}}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$ K-BP: 0 Qz: None Wz: None

7.16 HP-16 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{C_2C_3R_1R_2s^2 + s\left(C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2\right) + 1}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}{C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}$ bandwidth: $\frac{C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}{C_2C_3R_1R_2}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$ K-BP: 0 Qz: None Wz: None

7.17 HP-17 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{C_2C_3R_1R_2R_4s^2 + R_2 + R_4 + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2+R_4}}{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}+C_4R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{R_2+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}+C_4R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}{C_2C_3R_1R_2\sqrt{R_4}}$

K-LP: 0 K-L1 . \cup K-HP: $\frac{C_5R_6}{C_2}$ K-BP: 0 Qz: None Wz: None

7.18 HP-18
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_2C_3R_1R_2R_4 + C_2C_3R_2R_3R_4 - C_3C_5R_2R_3R_4\right) + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_3R_3R_4 - C_5R_2R_4\right)}$$

$$Q \colon \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} }{C_2R_2R_4+C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4-C_5R_2R_4} \\ \text{wo: } \sqrt{R_2+R_4}\sqrt{\frac{1}{C_2C_3R_1R_2R_4+C_2C_3R_2R_3R_4-C_3C_5R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{R_2+R_4}(C_2R_2R_4+C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4-C_5R_2R_4)\sqrt{\frac{1}{C_2C_3R_1R_2R_4+C_2C_3R_2R_3R_4-C_3C_5R_2R_3R_4}}}{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} \\ \text{K-LP: 0} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3} \\ \text{K-BP: 0} \\ \text{Qz: None} \\ \text{Wz: None}$$

7.19 HP-19 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^2\left(C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_3C_4R_2R_3 - C_3C_5R_2R_3\right) + s\left(C_2R_2 + C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 - C_5R_2\right) + 1}$$

Parameters:

$$Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ \text{wo: } \sqrt{\frac{1}{C_2C_3R_1R_2+C_2C_3R_2R_3+C_3C_4R_2R_3-C_3C_5R_2}} \\ \text{bandwidth: } \frac{(C_2R_2+C_3R_1+C_3R_2+C_3R_3+C_4R_2-C_5R_2)\sqrt{\frac{1}{C_2C_3R_1R_2+C_2C_3R_2R_3+C_3C_4R_2R_3-C_3C_5R_2R_3}} {C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} \\ \text{K-LP: 0} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} \\ \text{K-BP: 0} \\ \text{Qz: None} \\ \text{Wz: None}$$

7.20 HP-20
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_2C_3R_1R_2R_4 + C_2C_3R_2R_3R_4 + C_3C_4R_2R_3R_4 - C_3C_5R_2R_3R_4\right) + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_3R_3R_4 + C_4R_2R_4 - C_5R_2R_4\right)}$$

$$Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ we: \sqrt{R_2+R_4}\sqrt{\frac{1}{C_2C_3R_1R_2R_4+C_2C_3R_2R_3R_4+C_3C_5R_2R_4}} \\ bandwidth: \frac{\sqrt{R_2+R_4}(C_2R_2R_4+C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_2R_4+C_5R_2R_4)}{\sqrt{\frac{1}{C_2C_3R_1R_2R_4+C_2C_3R_2R_3R_4+C_3C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2C_3R_1R_2R_4+C_2C_3R_2R_3R_4-C_5R_2R_4}} \\ bandwidth: \frac{\sqrt{R_2+R_4}(C_2R_2R_4+C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_2R_4+C_5R_2R_4)}{\sqrt{\frac{1}{C_2C_3R_1R_2R_4+C_2C_3R_2R_3R_4+C_3C_5R_3R_4}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2C_3R_1R_2R_4+C_2C_3R_2R_3R_4+C_3C_5R_3}} \\ -C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} \\ -C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} \\ -C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} \\ -C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} \\ -C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_4+C_4R_3+C_4R_3-C_5R_3}}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}$$

7.21 HP-21
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_1C_3R_1R_2R_4 - C_1C_5R_1R_2R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4\right)}$$

7.22 HP-22
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^2\left(C_1C_3R_1R_2 + C_1C_4R_1R_2 - C_1C_5R_1R_2\right) + s\left(C_1R_1 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2\right) + 1}$$

Parameters:

$$Q\colon \frac{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}{C_{1}R_{1}+C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}$$

$$\text{wo: } \sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}-C_{1}C_{5}R_{1}R_{2}}}$$

$$\text{bandwidth: } \frac{(C_{1}R_{1}+C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2})\sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}-C_{1}C_{5}R_{1}R_{2}}}}{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}$$

$$K-LP: 0$$

$$K-HP: \frac{C_{3}C_{5}R_{6}}{C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}}}{K-BP: 0}$$

$$Qz: None$$

$$Wz: None$$

7.23 HP-23
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_1C_3R_1R_2R_4 + C_1C_4R_1R_2R_4 - C_1C_5R_1R_2R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4\right)}$$

Q:
$$\frac{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} + \sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} }{\frac{C_{1}R_{1}R_{2}+C_{1}R_{1}R_{4}+C_{3}R_{1}R_{4}+C_{3}R_{2}R_{4}+C_{4}R_{2}R_{4}-C_{5}R_{2}R_{4}}}{\frac{1}{C_{1}C_{3}R_{1}R_{2}R_{4}+C_{1}C_{4}R_{1}R_{2}R_{4}-C_{1}C_{5}R_{1}R_{2}R_{4}}}}}$$
bandwidth:
$$\frac{\sqrt{R_{2}+R_{4}}(C_{1}R_{1}R_{2}+C_{1}R_{1}R_{4}+C_{3}R_{2}R_{4}+C_{4}R_{2}R_{4}-C_{5}R_{2}R_{4}})\sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}R_{4}+C_{1}C_{5}R_{1}R_{2}R_{4}}}}}{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}} + \sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}}}}}$$
K-LP: 0
K-HP:
$$\frac{C_{3}C_{5}R_{6}}{C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}}} + \sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}} + \sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}$$
K-LP: 0
Qz: None
Wz: None

7.24 HP-24
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^2\left(C_1C_2R_1R_4 + C_1C_3R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_1R_4\right) + s\left(C_1R_1 + C_2R_4 + C_3R_4 - C_5R_4\right) + 1}$$

$$Q: \frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} \\ Wo: \sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{4}+C_{1}C_{3}R_{1}R_{4}-C_{1}C_{5}R_{1}R_{4}+C_{2}C_{3}R_{1}R_{4}}}$$

 $\text{bandwidth: } \frac{(C_1R_1 + C_2R_4 + C_3R_4 - C_5R_4)\sqrt{\frac{1}{C_1C_2R_1R_4 + C_1C_3R_1R_4 + C_2C_3R_1R_4}}}{C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} - C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}}} + C_2C_3\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{\frac{1$

K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}$ K-BP: 0

Qz: None Wz: None

7.25 HP-25 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^2\left(C_1C_2R_1R_4 + C_1C_3R_1R_4 + C_1C_4R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_1R_4\right) + s\left(C_1R_1 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4\right) + 1}$$

Parameters:

 $Q: \frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_4+C_1C_3R_1R_4+C_1C_4R_1R_4-C_1C_5R_1R_4+C_2C_3R_1R_4}}$

 $(C_1R_1 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4)\sqrt{\frac{1}{C_1C_2R_1R_4 + C_1C_3R_1R_4 + C_1C_4R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_1R_4}}$

K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-BP: 0

Qz: None Wz: None

7.26 HP-26
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_3R_1R_2R_4 - C_1C_5R_1R_2R_4 + C_2C_3R_1R_2R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4\right)}$$

Parameters:

Wz: None

 $\text{Q:} \begin{array}{c} C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} \\ -C_{1}R_{1}R_{2}+C_{1}R_{1}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{1}R_{4}+C_{3}R_{2}R_{4}-C_{5}R_{2}R_{4} \\ -C_{1}R_{1}R_{2}+C_{1}R_{1}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{1}R_{4}+C_{3}R_{2}R_{4}-C_{5}R_{2}R_{4} \\ -C_{1}R_{1}R_{2}+C_{1}R_{1}R_{2}+C_{1}R_{1}R_{2}+C_{1}R_{1}R_{2}+C_{1}$

wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4}$

 $\text{bandwidth: } \frac{\sqrt{R_2 + R_4}(C_1 R_1 R_2 + C_1 R_1 R_4 + C_2 R_2 R_4 + C_3 R_1 R_4 + C_3 R_2 R_4 - C_5 R_2 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4}}{C_1 C_2 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt$

K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}$ K-BP: 0 Qz: None

7.27 HP-27
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_1C_4R_1R_2 - C_1C_5R_1R_2 + C_2C_3R_1R_2\right) + s\left(C_1R_1 + C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2\right) + 1}$$

7.28 HP-28
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_1C_4R_1R_2R_4 - C_1C_5R_1R_2R_4 + C_2C_3R_1R_2R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4\right)}$$

Parameters:

```
Q: \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_3+C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_
```

8 LP

Qz: None Wz: None

8.1 LP-1
$$Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{R_1 R_2 R_6}{C_4 C_6 R_2 R_3 R_5 R_6 s^2 + R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s \left(C_4 R_2 R_3 R_5 + C_6 R_1 R_5 R_6 - C_6 R_2 R_3 R_6 + C_6 R_2 R_5 R_6 + C_6 R_3 R_5 R_6\right)}$$

Parameters:

Q: $\frac{\sqrt{C_4}\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1R_5}-R_2R_3+R_2R_5+R_3R_5}{C_4R_2R_3R_5+C_6R_1R_5R_6-C_6R_2R_3R_6+C_6R_2R_5R_6+C_6R_3R_5R_6}$ wo: $\frac{\sqrt{R_1R_5}-R_2R_3+R_2R_5+R_3R_5}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_6}}$ bandwidth: $\frac{C_4R_2R_3R_5+C_6R_1R_5R_6-C_6R_2R_3R_6+C_6R_2R_5R_6+C_6R_3R_5R_6}{C_4C_6R_2R_3R_5R_6}$ K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.2 LP-2
$$Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_2}{C_4 C_5 C_6 R_2 R_3 R_5 s^2 + C_6 R_1 + C_6 R_2 + C_6 R_3 + s \left(C_4 C_6 R_2 R_3 + C_5 C_6 R_1 R_5 - C_5 C_6 R_2 R_3 + C_5 C_6 R_2 R_5 + C_5 C_6 R_3 R_5 \right)}$$

Q: $\frac{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_1+R_2+R_3}}{C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $\frac{C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}{C_4C_5R_2R_3R_5}$

K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: 0

K-BP: 0 Qz: None Wz: None

8.3 LP-3 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{C_4 C_6 R_2 R_3 R_4 R_5 R_6 s^2 + R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(C_4 R_2 R_3 R_4 R_5 + C_6 R_1 R_4 R_5 R_6 - C_6 R_2 R_3 R_4 R_6 + C_6 R_2 R_3 R_5 R_6 + C_6 R_2 R_4 R_5 R_6 + C_6 R_3 R_4 R_5 R_6\right)}$$

Parameters:

Q: $\frac{\sqrt{C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1}R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{C_4R_2R_3R_4R_5 + C_6R_1R_4R_5R_6 - C_6R_2R_3R_4R_6 + C_6R_2R_3R_5R_6 + C_6R_2R_4R_5R_6 + C_6R_3R_4R_5R_6}}{\sqrt{C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}}}$ wo: $\frac{\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{\sqrt{C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}}}$ bandwidth: $\frac{C_4R_2R_3R_4R_5 + C_6R_1R_4R_5R_6 - C_6R_2R_3R_4R_6 + C_6R_2R_3R_5R_6 + C_6R_2R_4R_5R_6 + C_6R_3R_4R_5R_6}}{C_4C_6R_2R_3R_4R_5R_6}}$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.4 LP-4
$$Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_4}{C_4 C_5 C_6 R_2 R_3 R_4 R_5 s^2 + C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s \left(C_4 C_6 R_2 R_3 R_4 + C_5 C_6 R_1 R_4 R_5 - C_5 C_6 R_2 R_3 R_4 + C_5 C_6 R_2 R_3 R_5 + C_5 C_6 R_2 R_4 R_5 + C_5 C_6 R_3 R_4 R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{C_4C_5R_2R_3R_4R_5}$

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.5 LP-5 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_{3s}}, \frac{1}{C_{4s}}, R_5, \frac{1}{C_{6s}}\right)$

$$H(s) = \frac{C_3 R_1 R_2}{C_3 C_4 C_6 R_2 R_3 R_5 s^2 - C_6 R_2 + C_6 R_5 + s \left(C_3 C_6 R_1 R_5 - C_3 C_6 R_2 R_3 + C_3 C_6 R_2 R_5 + C_3 C_6 R_3 R_5 + C_4 C_6 R_2 R_5 \right)}$$

```
K-LP: -\frac{C_3R_1R_2}{C_6R_2-C_6R_5}
K-HP: 0
K-BP: 0
Qz: None
Wz: None
```

8.6 LP-6
$$Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4}{C_3 C_4 C_6 R_2 R_3 R_4 R_5 s^2 - C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s \left(C_3 C_6 R_1 R_4 R_5 - C_3 C_6 R_2 R_3 R_4 + C_3 C_6 R_2 R_3 R_5 + C_3 C_6 R_2 R_4 R_5 + C_4 C_6 R_2 R_4 R_5 \right)}$$

Q: $\frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5}{C_3C_4R_2R_3R_4R_5}$ K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.7 LP-7
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(C_2 C_6 R_1 R_4 R_5 R_6 + C_2 C_6 R_3 R_4 R_5 R_6\right) + s \left(C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 - C_6 R_3 R_4 R_6 + C_6 R_3 R_5 R_6 + C_6 R_4 R_5 R_6\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_3}\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{C_2R_1R_4R_5+C_2R_3R_4R_5-C_6R_3R_4R_6+C_6R_3R_5R_6+C_6R_4R_5R_6}$ wo: $\frac{\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{\sqrt{C_2C_6R_1}R_4R_5R_6+C_2C_6R_3R_4R_5R_6}}$ bandwidth: $\frac{C_2R_1R_4R_5+C_2R_3R_4R_5-C_6R_3R_4R_6+C_6R_3R_5R_6+C_6R_4R_5R_6}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_3}\sqrt{C_2C_6R_1}R_4R_5R_6+C_2C_6R_3R_4R_5R_6}}$ K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.8 LP-8
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4 + s^2 \left(C_2 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_3 R_4 R_5\right) + s \left(C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 - C_5 C_6 R_3 R_4 + C_5 C_6 R_3 R_5 + C_5 C_6 R_4 R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{R_3+R_4}}{C_2R_1R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2C_5R_1R_4R_5+C_2C_5R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_5R_1R_4R_5+C_2C_5R_3R_4R_5}}$ K-LP: $\frac{C_5R_1R_4}{C_6R_3+C_6R_4}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.9 LP-9
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{R_1 R_6}{-R_3 + R_5 + s^2 \left(C_2 C_6 R_1 R_5 R_6 + C_2 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6\right) + s \left(C_2 R_1 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_6 R_3 R_6 + C_6 R_5 R_6\right)}$$

Q: $\frac{\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-R_3+R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}}{C_2R_1R_5+C_2R_3R_5+C_4R_3R_5-C_6R_3R_6+C_6R_5R_6}$ WO: $\frac{\sqrt{-R_3+R_5}}{\sqrt{-R_3+R_5}}$

wo: $\frac{\sqrt{-R_3+R_5}}{\sqrt{C_2C_6R_1R_5R_6+C_2C_6R_3R_5R_6+C_4C_6R_3R_5R_6}}$ bandwidth: $\frac{C_2R_1R_5+C_2R_3R_5+C_4R_3R_5-C_6R_3R_6+C_6R_5R_6}{\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_6R_1R_5R_6+C_2C_6R_3R_5R_6+C_4C_6R_3R_5R_6}}$ K-LP: $-\frac{R_1R_6}{R_3-R_5}$ K-HP: 0

K-BP: 0 Qz: None Wz: None

8.10 LP-10 $Z(s) = \left(R_1, \frac{1}{C_{2s}}, R_3, \frac{1}{C_{4s}}, R_5 + \frac{1}{C_{5s}}, \frac{1}{C_{6s}}\right)$

$$H(s) = \frac{C_5 R_1}{C_6 + s^2 \left(C_2 C_5 C_6 R_1 R_5 + C_2 C_5 C_6 R_3 R_5 + C_4 C_5 C_6 R_3 R_5\right) + s \left(C_2 C_6 R_1 + C_2 C_6 R_3 + C_4 C_6 R_3 - C_5 C_6 R_3 + C_5 C_6 R_5\right)}$$

Parameters:

wo: $\frac{1}{\sqrt{C_2C_5R_1R_5+C_2C_5R_3R_5+C_4C_5R_3R_5}}$ bandwidth: $\frac{C_2R_1+C_2R_3+C_4R_3-C_5R_3+C_5R_5}{\sqrt{C_5}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_5R_1R_5+C_2C_5R_3R_5+C_4C_5R_3R_5}}$ K-LP: $\frac{C_5R_1}{C_6}$ K-HP: 0

K-BP: 0 Qz: None

Wz: None

8.11 LP-11 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-1}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_6R_1R_4R_5R_6 + C_2C_6R_3R_4R_5R_6 + C_4C_6R_3R_4R_5R_6\right) + s\left(C_2R_1R_4R_5 + C_2R_3R_4R_5 + C_4R_3R_4R_5 - C_6R_3R_4R_6 + C_6R_3R_5R_6 + C_6R_4R_5R_6\right)}$

Parameters:

Q: $\frac{\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{C_2R_1R_4R_5+C_2R_3R_4R_5+C_4R_3R_4R_5-C_6R_3R_4R_6+C_6R_3R_5R_6+C_6R_4R_5R_6}}$ wo: $\frac{\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{\sqrt{C_2C_6R_1R_4R_5R_6+C_2C_6R_3R_4R_5+C_4C_6R_3R_4R_5R_6}}$ bandwidth: $\frac{C_2R_1R_4R_5+C_2R_3R_4R_5+C_4R_3R_4R_5-C_6R_3R_4R_6+C_6R_3R_5R_6+C_6R_4R_5R_6}{\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_6R_1R_4R_5R_6+C_2C_6R_3R_4R_5R_6+C_4C_6R_3R_4R_5R_6}}$ K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0

K-BP: 0

Qz: None Wz: None

8.12 LP-12 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4 + s^2 \left(C_2 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_3 R_4 R_5 + C_4 C_5 C_6 R_3 R_4 R_5\right) + s \left(C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 + C_4 C_6 R_3 R_4 + C_5 C_6 R_3 R_4 + C_5 C_6 R_3 R_5 + C_5 C_6 R_4 R_5\right)}{c_6 R_3 + c_6 R_4 + s^2 \left(C_2 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_3 R_4 R_5 + C_4 C_5 C_6 R_3 R_4 R_5\right) + s \left(C_2 C_6 R_1 R_4 + C_4 C_6 R_3 R_4 + C_5 C_6 R_3 R_4 + C_5 C_6 R_3 R_5 + C_5 C_6 R_3 R_4 R_5\right)}$

Parameters:

wo: $\frac{\sqrt{R_3 + R_4}}{\sqrt{C_2 C_5 R_1 R_4 R_5 + C_2 C_5 R_3 R_4 R_5 + C_4 C_5 R_3 R_4 R_5}}{\sqrt{C_2 C_5 R_3 R_4 R_5 + C_2 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4 + C_5 R_3 R_5 + C_5 R_4 R_5}}$ bandwidth: $\frac{C_2 R_1 R_4 + C_2 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4 + C_5 R_3 R_5 + C_5 R_4 R_5}{\sqrt{C_5 \sqrt{R_4} \sqrt{R_5} \sqrt{C_2 R_1 + C_2 R_3 + C_4 R_3} \sqrt{C_2 C_5 R_1 R_4 R_5 + C_2 C_5 R_3 R_4 R_5 + C_4 C_5 R_3 R_4 R_5}}}$

K-LP: $\frac{C_5R_1R_4}{C_6R_3+C_6R_4}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.13 LP-13
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3 R_1 R_4}{C_2 C_3 C_6 R_1 R_4 R_5 s^2 - C_6 R_4 + C_6 R_5 + s \left(C_2 C_6 R_4 R_5 + C_3 C_6 R_4 R_5 \right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$ K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.14 LP-14 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1}{C_2 C_3 C_6 R_1 R_5 s^2 - C_6 + s \left(C_2 C_6 R_5 + C_3 C_6 R_5 + C_4 C_6 R_5\right)}$

Parameters:

Q: $\frac{i\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}}$ wo: $\frac{i}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}}{C_2C_3R_1\sqrt{R_5}}$ K-LP: $-\frac{C_3R_1}{C_6}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.15 LP-15 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1}{C_2C_3C_5C_6R_1R_5s^2 + C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_2C_3C_6R_1 + C_2C_5C_6R_5 + C_3C_5C_6R_5 + C_4C_5C_6R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}$ wo: $\frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}{C_2C_3C_5R_1R_5}$ K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.16 LP-16
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_4}{C_2 C_3 C_6 R_1 R_4 R_5 s^2 - C_6 R_4 + C_6 R_5 + s \left(C_2 C_6 R_4 R_5 + C_3 C_6 R_4 R_5 + C_4 C_6 R_4 R_5 \right)}$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$

K-HP: 0 K-BP: 0 Qz: None

Wz: None

8.17 LP-17 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

 $\frac{1}{-C_{6}R_{4}+C_{6}R_{5}+s^{2}\left(C_{2}C_{3}C_{6}R_{1}R_{4}R_{5}+C_{2}C_{3}C_{6}R_{3}R_{4}R_{5}\right)+s\left(C_{2}C_{6}R_{4}R_{5}-C_{3}C_{6}R_{3}R_{4}+C_{3}C_{6}R_{3}R_{5}+C_{3}C_{6}R_{4}R_{5}\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{-R_4+R_5}}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5}}$ bandwidth: $\frac{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2}C_3R_1R_4R_5+C_2C_3R_3R_4R_5}}$ K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: 0 Qz: None

Wz: None

8.18 LP-18 $Z(s) = \left(R_1, \frac{1}{C_{2s}}, R_3 + \frac{1}{C_{3s}}, \frac{1}{C_{4s}}, R_5, \frac{1}{C_{6s}}\right)$

 $H(s) = \frac{C_3 R_1}{-C_6 + s^2 \left(C_2 C_3 C_6 R_1 R_5 + C_2 C_3 C_6 R_3 R_5 + C_3 C_4 C_6 R_3 R_5\right) + s \left(C_2 C_6 R_5 - C_3 C_6 R_3 + C_3 C_6 R_5 + C_4 C_6 R_5\right)}$

Parameters:

Wo: $\frac{c_2R_5 - c_3R_3 + c_3R_5 + c_4R_5}{\sqrt{C_2C_3R_1R_5 + C_2C_3R_3R_5 + C_3C_4R_3R_5}}$ bandwidth: $\frac{c_2R_5 - c_3R_3 + c_3R_5 + c_4R_5}{\sqrt{C_3}\sqrt{R_5}\sqrt{C_2R_1 + C_2R_3 + C_4R_3}\sqrt{C_2C_3R_1R_5 + C_2C_3R_3R_5 + C_3C_4R_3R_5}}$ K-LP: $-\frac{C_3R_1}{C_6}$ K-LP: 0

K-HP: 0 K-BP: 0

Qz: None

Wz: None

8.19 LP-19 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_3R_5 + C_3C_4C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_3 + C_2C_5C_6R_5 + C_3C_4C_6R_3 - C_3C_5C_6R_3 + C_3C_5C_6R_5 + C_4C_5C_6R_5\right)}{s^2}$

Parameters:

 $\begin{array}{l} Q\colon \frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_3R_3+C_2C_5R_5+C_3C_4R_3-C_3C_5R_3+C_3C_5R_5+C_4C_5R_5}\\ \text{wo: } \frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2C_3C_5R_1R_5+C_2C_3C_5R_3R_5+C_3C_4C_5R_3R_5}}\\ \text{bandwidth: } \frac{C_2C_3R_1+C_2C_3R_3+C_2C_5R_5+C_3C_4R_3-C_3C_5R_3+C_3C_5R_5+C_4C_5R_5}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_3C_5R_1R_5+C_2C_3C_5R_3R_5+C_3C_4C_5R_3R_5}} \end{array}$

```
K-LP: \frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}
K-HP: 0
K-BP: 0
Qz: None
Wz: None
```

8.20 LP-20
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_4}{-C_6 R_4 + C_6 R_5 + s^2 \left(C_2 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_3 R_4 R_5 + C_3 C_4 C_6 R_3 R_4 R_5\right) + s \left(C_2 C_6 R_4 R_5 - C_3 C_6 R_3 R_4 + C_3 C_6 R_3 R_5 + C_3 C_6 R_4 R_5 + C_4 C_6 R_4 R_5\right)}$$

Q: $\frac{\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_4+R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5+C_4R_4R_5}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5}}$ bandwidth: $\frac{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5+C_4R_4R_5}{\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5}}$ K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.21 LP-21
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_6 R_2 R_3 R_4 R_5 + C_2 R_2 R_3 R_4 R_5 + C_6 R_1 R_4 R_5 R_6 - C_6 R_2 R_3 R_4 R_6 + C_6 R_2 R_3 R_5 R_6 + C_6 R_2 R_4 R_5 R_6 + C_6 R_3 R_4 R_5 R_6\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_3}\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{C_2R_1R_2R_4R_5+C_2R_2R_3R_4R_5+C_6R_1R_4R_6R_6-C_6R_2}R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6}$ wo: $\frac{\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_2C_6R_1R_2R_4R_5+C_6R_2R_3R_4R_5}R_6}$ bandwidth: $\frac{C_2R_1R_2R_4R_5+C_2R_2R_3R_4R_5+C_6R_1R_4R_5R_6-C_6R_2R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6}{\sqrt{C_2}\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_3}\sqrt{C_2C_6R_1R_2R_4R_5R_6+C_2C_6R_2R_3R_4R_5R_6}}}$ K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{R_1R_4R_5R_6+R_2R_4R_5+R_3R_4R_5}}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.22 LP-22
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s^2 \left(C_2 C_5 C_6 R_1 R_2 R_4 R_5 + C_2 C_5 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_2 C_6 R_1 R_2 R_4 + C_5 C_6 R_2 R_3 R_4 + C_5 C_6 R_4 R_5 + C_5 C_6 R_5 R_5 + C_5$

Parameters:

Wz: None

Q: $\frac{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_2R_1R_2R_4+C_2R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_2C_5R_1R_2R_4+C_5R_2R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_2R_4+C_2R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2}C_5R_1R_2R_4R_5+C_2C_5R_2R_3R_4R_5}}$ K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}}$ K-HP: 0 K-BP: 0 Qz: None

8.23 LP-23
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$$

$$H(s) = \frac{R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^2 \left(C_2 C_6 R_1 R_2 R_5 R_6 + C_2 C_6 R_2 R_3 R_5 R_6 + C_4 C_6 R_2 R_3 R_5 R_6\right) + s \left(C_2 R_1 R_2 R_5 + C_4 R_2 R_3 R_5 + C_4 R_2 R_3 R_5 + C_6 R_1 R_5 R_6 - C_6 R_2 R_3 R_6 + C_6 R_2 R_5 R_6 + C_6 R_3 R_5 R_6\right)}$$

Q: $\frac{\sqrt{C_6}\sqrt{R_2}\sqrt{R_5}\sqrt{R_6}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_4R_2R_3R_5+C_6R_1R_5R_6-C_6R_2R_3R_6+C_6R_2R_5R_6+C_6R_3R_5R_6}$ wo: $\frac{\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{\sqrt{C_2C_6R_1R_2R_5R_6+C_2C_6R_2R_3R_5R_6+C_4C_6R_2R_3R_5R_6}}$ bandwidth: $\frac{C_2R_1R_2R_5+C_2R_2R_3R_5+C_4R_2R_3R_5+C_6R_1R_5R_6-C_6R_2R_3R_6+C_6R_2R_5R_6+C_6R_3R_5R_6}{\sqrt{C_6}\sqrt{R_2}\sqrt{R_5}\sqrt{R_6}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_6R_1R_2R_5R_6+C_2C_6R_2R_3R_5R_6+C_4C_6R_2R_3R_5R_6}}$ K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: 0

K-BP: 0 Qz: None Wz: None

8.24 LP-24 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s^2 \left(C_2 C_5 C_6 R_1 R_2 R_5 + C_2 C_5 C_6 R_2 R_3 R_5 + C_4 C_5 C_6 R_2 R_3 R_5\right) + s \left(C_2 C_6 R_1 R_2 + C_2 C_6 R_2 R_3 + C_5 C_6 R_1 R_5 - C_5 C_6 R_2 R_3 + C_5 C_6 R_3$$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{R_1+R_2+R_3}\sqrt{C_2R_1+C_2R_3+C_4R_3}}{C_2R_1R_2+C_2R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_2C_5R_1R_2R_5+C_2C_5R_2R_3R_5+C_4C_5R_2R_3R_5}}$ bandwidth: $\frac{C_2R_1R_2+C_2R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}{\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_5R_1R_2R_5+C_2C_5R_2R_3R_5+C_4C_5R_2R_3R_5}}$ K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: 0

K-BP: 0 Qz: None

Wz: None

8.25 LP-25 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $R_1R_2R_4R_6$

 $\overline{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+s^{2}\left(C_{2}C_{6}R_{1}R_{2}R_{4}R_{5}R_{6}+C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{4}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{4}R_{2}R_{3}R_{4}R_{5}+C_{6}R_{1}R_{4}R_{5}R_{6}+C_{6}R_{2}R_{3}R_{4}R_{5}+C_{6}R$

Parameters:

Q: $\frac{\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_2R_1} + C_2R_3 + C_4R_3}{\sqrt{R_1R_4R_5} - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{\sqrt{R_2R_1R_2R_4R_5 + C_2R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}$ wo: $\frac{\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{\sqrt{C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5 + R_6}}}$ bandwidth: $\frac{C_2R_1R_2R_4R_5 + C_2R_2R_3R_4R_5 + C_4R_2R_3R_4R_5 + C_6R_2R_3R_4R_5 + C_6R_2R_3R_4R_5R_6}}{\sqrt{C_6\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_2}R_1 + C_2R_3 + C_4R_3}\sqrt{C_2C_6R_1R_2R_4R_5R_6 + C_2C_6R_2R_3R_4R_5R_6 + C_4C_6R_2R_3R_4R_5R_6}}}}$ K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.26 LP-26
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

 $C_5R_1R_2R_4$ $H(s) = \frac{1}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_2C_5C_6R_1R_2R_4R_5 + C_2C_5C_6R_2R_3R_4R_5 + C_4C_5C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 + C_5C_6R_2R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4 + C_$

Parameters:

 $\begin{array}{l} \text{Q:} \ \ \frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_2R_1R_2R_4+C_2R_2R_3R_4+C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5} \\ \text{wo:} \ \ \frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_2C_5R_1R_2R_4R_5+C_2C_5R_2R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_2R_4R_5+C_5R_2R_3R_4+C_5R_3R_4+R_5+C_5R_2R_3R_4$

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K-LP: \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4} K-HP: 0
K-BP: 0
Qz: None
Wz: None
```

8.27 LP-27
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5, \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4}{C_2 C_3 C_6 R_1 R_2 R_4 R_5 s^2 - C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s \left(C_2 C_6 R_2 R_4 R_5 + C_3 C_6 R_1 R_4 R_5 + C_3 C_6 R_2 R_4 R_5\right)}$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$ K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.28 LP-28 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3 R_1 R_2}{C_2 C_3 C_6 R_1 R_2 R_5 s^2 - C_6 R_2 + C_6 R_5 + s \left(C_2 C_6 R_2 R_5 + C_3 C_6 R_1 R_5 + C_3 C_6 R_2 R_5 + C_4 C_6 R_2 R_5 \right)}$$

Parameters:

8.29 LP-29 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_4}{C_2 C_3 C_6 R_1 R_2 R_4 R_5 s^2 - C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s \left(C_2 C_6 R_2 R_4 R_5 + C_3 C_6 R_1 R_4 R_5 + C_3 C_6 R_2 R_4 R_5 + C_4 C_6 R_2 R_4 R_5 \right)}$

Parameters:

Wz: None

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2}R_4+R_2}{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}+C_4R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2}R_4+R_2R_5+R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}+C_4R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$ K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0 K-BP: 0 Qz: None

8.30 LP-30
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5, \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4}{-C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s^2 \left(C_2 C_3 C_6 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_2 C_6 R_2 R_4 R_5 + C_3 C_6 R_2 R_3 R_4 + C_3 C_6 R_2 R_3 R_5 + C_3 C_6 R_2 R_4 R_5 + C_3 C_6 R_4 R_5 + C_3 C_6 R_2 R_4 R_5 + C_3 C_6 R_4 R_5 + C_3 C_6 R_5 R_5 + C_5 C_5$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_2R_2R_4R_5+C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5}}$ bandwidth: $\frac{C_2R_2R_4R_5+C_2C_3R_2R_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_3R_1R_2R_4R_5+C_2R_3R_4R_5}}$ K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0

K-HP: 0 K-BP: 0 Qz: None Wz: None

8.31 LP-31
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_2}{-C_6 R_2 + C_6 R_5 + s^2 \left(C_2 C_3 C_6 R_1 R_2 R_5 + C_2 C_3 C_6 R_2 R_3 R_5 + C_3 C_4 C_6 R_2 R_3 R_5\right) + s \left(C_2 C_6 R_2 R_5 + C_3 C_6 R_1 R_5 - C_3 C_6 R_2 R_3 + C_3 C_6 R_2 R_5 + C_3 C_6 R_3 R_5 + C_4 C_6 R_2 R_5\right)}{-C_6 R_2 + C_6 R_5 + s^2 \left(C_2 C_3 C_6 R_1 R_2 R_5 + C_2 C_3 C_6 R_2 R_3 R_5 + C_3 C_6 R_2 R_3 R_5\right) + s \left(C_2 C_6 R_2 R_5 + C_3 C_6 R_2 R_3 + C_3 C_6 R_2 R_5 + C_3 C_6 R_3 R_5 + C_4 C_6 R_2 R_5\right)}$$

Parameters:

wo: $\frac{\sqrt{-R_2+R_5}}{\sqrt{C_2C_3R_1R_2R_5+C_2C_3R_2R_3R_5+C_3C_4R_2R_3R_5}}$ bandwidth: $\frac{C_2R_2R_5+C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5}{\sqrt{C_3}\sqrt{R_2}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_3R_1R_2R_5+C_2C_3R_2R_3R_5+C_3C_4R_2R_3R_5}}$ K-LP: $-\frac{C_3R_1R_2}{C_6R_2-C_6R_5}$ K-HP: 0

K-BP: 0

Qz: None Wz: None

8.32 LP-32
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4}{-C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s^2 \left(C_2 C_3 C_6 R_1 R_2 R_4 R_5 + C_3 C_4 R_2 R_3 R_4 R_5 + C_3 C_6 R_2 R_3 R_4 R_5 + C_3 C_6 R_2 R_3 R_4 R_5 + C_3 C_6 R_2 R_3 R_4 + C_3 C_6 R_2 R_3 R_5 + C_3 C_6 R_2 R_3 R_5 + C_3 C_6 R_2 R_4 R_5 + C_3 C_6 R_5 R_5 + C_3 C_6 R_5 R_5 + C_5 C_6 R_5 R$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \, \frac{\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_2R_2R_4R_5+C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5} \\ \text{wo:} \ \, \frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5+C_3C_4R_2R_3R_4R_5}} \\ \text{bandwidth:} \ \, \frac{C_2R_2R_4R_5+C_2C_3R_2R_3R_4R_5+C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5}{\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5+C_3C_4R_2R_3R_4R_5}} \\ \text{K-LP:} \ \, -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5} \\ \text{K-HP:} \ \, 0 \end{array}$

K-HP: 0 K-BP: 0

Qz: None Wz: None

8.33 LP-33
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{R_2 R_4 R_6}{R_4 R_5 + s^2 \left(-C_1 C_6 R_2 R_3 R_4 R_6 + C_1 C_6 R_2 R_3 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 R_6 + C_1 C_6 R_3 R_4 R_5 R_6\right) + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 + C_6 R_4 R_5 R_6\right)}$$

$$Q: \frac{\sqrt{C_{1}}\sqrt{C_{6}}R_{2}R_{3}R_{4}^{\frac{3}{2}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{2}R_{3}\sqrt{R_{4}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{2}R_{3}^{\frac{3}{2}}R_{4}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}-\sqrt{C_{1}}\sqrt{C_{6}}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{-R_{2}R_$$

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 \begin{array}{l} \text{bandwidth:} \ \frac{\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_6R_2R_3R_4R_6-C_1C_6R_2R_4R_5R_6-C_1C_6R_3R_4R_5-C_1}}{\sqrt{C_1}\sqrt{C_6}R_2R_3\frac{3}{4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5-R_6-C_1C_6R_3R_4R_5-C_1}}{\sqrt{C_1}\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_6}R_2R_3\frac{3}{4}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5-R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_2R_3\frac{3}{4}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_2R_3\frac{3}{4}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_2R_3\frac{3}{4}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_2R_3\frac{3}{4}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_3R_4R_5}}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_3R_4R_5}}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_3R_4R_5}}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_3R_4R_5}}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_3R_4R_5}}}} - \sqrt{C_1}\sqrt{C_6}R_3R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R
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K-HP: 0 K-BP: 0 Qz: None Wz: None

8.34 LP-34 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_2 R_4}{-C_1 C_5 C_6 R_2 R_3 R_4 s^2 + C_6 R_4 + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4\right)}$$

Parameters:

Q: $-\frac{i\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}R_4}{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}$ wo: $\frac{i}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}{\sqrt{C_1}C_5R_2R_3R_4}$ K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0 K-BP: 0 Qz: None

8.35 LP-35 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_2 R_4}{C_6 R_4 + s^2 \left(-C_1 C_5 C_6 R_2 R_3 R_4 + C_1 C_5 C_6 R_2 R_3 R_5 + C_1 C_5 C_6 R_2 R_4 R_5 + C_1 C_5 C_6 R_3 R_4 R_5\right) + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4 + C_5 C_6 R_4 R_5\right)}$$

Parameters:

Wz: None

$$Q: \frac{-\sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}^{\frac{3}{2}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}\sqrt{R_{4}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R$$

 $\frac{\sqrt{R_4}\sqrt{-\frac{1}{C_1C_5R_2R_3R_4-C_1C_5R_2R_3R_4-C_1C_5R_3R_4R_5}}(C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_5R_4R_5)}{-\sqrt{C_1}\sqrt{C_5}R_2R_3R_4^{\frac{3}{2}}\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_2R_3\sqrt{R_4}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_2R_3^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_3R_4+R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_3R_4+R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{-\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_5}}+\sqrt{\frac{1}{R_3R_4+R_$

K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.36 LP-36 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{R_2 R_6}{C_1 C_4 R_2 R_3 R_5 s^2 + R_5 + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5\right)}$$

Q:
$$-\frac{\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}R_5}{\sqrt{C_1}R_2R_3-\sqrt{C_1}R_2R_5-\sqrt{C_1}R_3R_5}$$
 wo: $\frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{\sqrt{C_1}R_2R_3-\sqrt{C_1}R_2R_5-\sqrt{C_1}R_3R_5}{\sqrt{C_1}C_4R_2R_3R_5}$ K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.37 LP-37
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_2}{C_6 + s^2 \left(C_1 C_4 C_6 R_2 R_3 - C_1 C_5 C_6 R_2 R_3\right) + s \left(C_1 C_6 R_2 + C_1 C_6 R_3\right)}$$

$$\begin{array}{l} Q\colon \frac{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_2+\sqrt{C_1}R_3}\\ \text{wo: } \sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}\\ \text{bandwidth: } \frac{\left(\sqrt{C_1}R_2+\sqrt{C_1}R_3\right)\sqrt{\frac{1}{C_1C_4R_2R_3}-C_1C_5R_2R_3}}{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_2}{C_6}\\ \text{K-HP: 0}\\ \text{K-BP: 0}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

8.38 LP-38
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{R_2 R_4 R_6}{C_1 C_4 R_2 R_3 R_4 R_5 s^2 + R_4 R_5 + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5\right)}$$

Parameters:

Q:
$$-\frac{\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}R_4R_5}{\sqrt{C_1}R_2R_3R_4-\sqrt{C_1}R_2R_3R_5-\sqrt{C_1}R_2R_4R_5-\sqrt{C_1}R_3R_4R_5}$$
 wo: $\frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{\sqrt{C_1}R_2R_3R_4-\sqrt{C_1}R_2R_3R_5-\sqrt{C_1}R_2R_4R_5-\sqrt{C_1}R_3R_4R_5}{\sqrt{C_1}C_4R_2R_3R_4R_5}$ K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.39 LP-39
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_2 R_4}{C_6 R_4 + s^2 \left(C_1 C_4 C_6 R_2 R_3 R_4 - C_1 C_5 C_6 R_2 R_3 R_4\right) + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}\\ \text{wo: } \sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}\\ \text{bandwidth: } \frac{\left(\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4\right)\sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_2}{C_6}\\ \text{K-HP: } 0\\ \text{K-BP: } 0\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

8.40 LP-40
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{C_1 C_3 C_6 R_2 R_4 R_5 R_6 s^2 - C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(C_1 C_3 R_2 R_4 R_5 - C_1 C_6 R_2 R_4 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_4 R_5 R_6 + C_3 C_6 R_4 R_5 R_6 \right)}{C_1 C_3 C_6 R_2 R_4 R_5 R_6 s^2 - C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(C_1 C_3 R_2 R_4 R_5 - C_1 C_6 R_2 R_4 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_4 R_5 R_6 \right)}$$

```
Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_3R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_4R_5R_6}} wo: \frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}} bandwidth: \frac{C_1C_3R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_4R_5R_6}{C_1C_3C_6R_2R_4R_5R_6}
```

K-HP: 0 K-BP: 0 Qz: None Wz: None

8.41 LP-41
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_2R_4}{C_1C_3C_5C_6R_2R_4R_5s^2 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_4R_5 + C_3C_5C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}$ wo: $\frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}{C_1C_3C_5R_2R_4R_5}$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0 K-BP: 0

Qz: None Wz: None

8.42 LP-42
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3 R_2 R_6}{-C_1 R_2 + C_1 R_5 + C_3 R_5 + s^2 \left(C_1 C_3 C_6 R_2 R_5 R_6 + C_1 C_4 C_6 R_2 R_5 R_6\right) + s \left(C_1 C_3 R_2 R_5 + C_1 C_4 R_2 R_5 - C_1 C_6 R_2 R_6 + C_1 C_6 R_5 R_6 + C_3 C_6 R_5 R_6\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_6}\sqrt{R_2}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3+C_4}\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_3C_6R_5R_6}}$ wo: $\frac{\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{\sqrt{C_1C_3C_6R_2R_5R_6+C_1C_4C_6R_2R_5R_6}}$ bandwidth: $\frac{C_1C_3R_2R_5+C_1C_4C_6R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_3C_6R_5R_6}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_2}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3+C_4}\sqrt{C_1C_3C_6R_2R_5R_6+C_1C_4C_6R_2R_5R_6}}}$ K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$ K-HP: 0

K-HP: 0 K-BP: 0 Qz: None Wz: None

8.43 LP-43
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5\right) + s\left(C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_1C_5C_6R_5 + C_3C_5C_6R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_1+C_3}\sqrt{C_3+C_4}}{C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}$ wo: $\frac{\sqrt{C_1+C_3}}{\sqrt{C_1C_3C_5R_2R_5}+C_1C_4C_5R_2R_5}$ bandwidth: $\frac{C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_3}+C_4\sqrt{C_1C_3C_5R_2R_5}+C_1C_4C_5R_2R_5}}$ K-LP: $\frac{C_3C_5R_2}{C_1C_6+C_3C_6}$ K-HP: 0

K-BP: 0

Qz: None Wz: None

8.44 LP-44
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$C_3R_2R_4R_6$$

 $H(s) = \frac{1}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_3C_6R_2R_4R_5R_6 + C_1C_4C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_5 + C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_5 + C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_5 + C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_6R_4R_5R_6 + C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_4R_5 - C_1C_6R_4R_5R_6 + C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_4R_5 - C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_4R_5R_6\right) + s\left(C_1C_$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3} + C_4\sqrt{-C_1R_2R_4} + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5}{C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_5R_6 + C_1C_6R_4R_5R_6 + C_3C_6R_4R_5R_6}$ wo: $\frac{\sqrt{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5}}{\sqrt{C_1C_3C_6R_2R_4R_5R_6 + C_1C_6R_2R_4R_5R_6}}$ bandwidth: $\frac{C_1C_3R_2R_4R_5R_6 + C_1C_4R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_5R_6 + C_1C_6R_4R_5R_6 + C_3C_6R_4R_5R_6}}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3} + C_4\sqrt{C_1C_3C_6R_2R_4R_5R_6} + C_1C_4C_6R_2R_4R_5R_6}}$ K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4 - C_1R_2R_5 - C_1R_4R_5 - C_3R_4R_5}}{C_1R_4R_5 - C_3R_4R_5}$ K-HP: 0

K-HP: 0 K-BP: 0 Qz: None Wz: None

8.45 LP-45 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & R_2, & \frac{1}{C_3 s}, & \frac{R_4}{C_4 R_4 s + 1}, & R_5 + \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}$

 $H(s) = \frac{1}{C_1 C_6 R_2 + C_1 C_6 R_4 + C_3 C_6 R_4 + s^2 \left(C_1 C_3 C_5 C_6 R_2 R_4 R_5 + C_1 C_4 C_5 C_6 R_2 R_4 R_5\right) + s \left(C_1 C_3 C_6 R_2 R_4 + C_1 C_4 C_6 R_2 R_4 + C_1 C_5 C_6 R_2 R_4 + C_1 C_5 C_6 R_2 R_5 + C_1 C_5 C_6 R_4 R_5\right)}{c_1 C_6 R_2 R_4 + c_1 C_5 C_6 R_4 R_5 + c_1 C_5 C_6 R_2 R_5 + c_1 C_5 C_6 R_5 R_5 + c_1 C_5 C$

Parameters:

wo: $\frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_3C_5R_2R_4R_5+C_1C_4C_5R_2R_4R_5}}$ bandwidth: $\frac{C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{C_1C_3C_5R_2R_4R_5+C_1C_4C_5R_2R_4R_5}}$ K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.46 LP-46
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $C_3R_2R_4R_6$

 $\overline{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(-C_1C_3C_6R_2R_3R_4R_6 + C_1C_3C_6R_2R_3R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_2R_5 + C_1C$

Parameters:

 $\overline{\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{6}}R_{2}R_{3}R_{4}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{6}}R_{2}R_{3}R_{5}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{6}}R_{2}R_{3}R_{5}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{3}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{C_{1}R_{2}R_{3}R_$

K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.47 LP-47 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_4}{-C_1C_3C_5C_6R_2R_3R_4s^2 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 - C_1C_5C_6R_2R_4\right)}$$

Parameters:

 $\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}$ $\frac{\sqrt{C_1C_3R_2R_3} + \sqrt{C_1C_3R_2}R_4 + \sqrt{C_1}C_3R_3R_4 - \sqrt{C_1}C_5R_2R_4}{\sqrt{-C_1R_2 - C_1R_4 - C_3R_4}} \frac{\sqrt{-C_1R_2 - C_1R_4 - C_3R_4}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$

```
bandwidth: \frac{i\sqrt{-C_1R_2-C_1R_4-C_3R_4}\left(\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4-\sqrt{C_1}C_5R_2R_4\right)}{\sqrt{C_1}C_3C_5R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}} K-LP: \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4} K-HP: 0 K-BP: 0 Qz: None
```

8.48 LP-48
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(-C_1C_3C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_5C_6R_5R_$

Parameters:

Wz: None

$$Q: \frac{-\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{2}R_{3}R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{2}R_{3}R_{5}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{2}R_{3}R_{5}+C_{1}C_{3}R_{4}} + C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}{C_{1}C_{3}R_{2}R_{3}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{3}R_{4}-C_{1}C_{5}}R_{2}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{5}R_{4}+C_{1}C_{$$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0 K-BP: 0

Qz: None Wz: None

8.49 LP-49
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_2 R_6}{C_1 C_3 C_4 R_2 R_3 R_5 s^2 - C_1 R_2 + C_1 R_5 + C_3 R_5 + s \left(-C_1 C_3 R_2 R_3 + C_1 C_3 R_2 R_5 + C_1 C_3 R_3 R_5 + C_1 C_4 R_2 R_5\right)}$$

Parameters:

Q:
$$-\frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{\sqrt{C_1C_3}R_2R_3-\sqrt{C_1C_3}R_2R_5-\sqrt{C_1}C_3R_3R_5-\sqrt{C_1}C_4R_2R_5}$$
 wo: $\frac{\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $-\frac{\sqrt{C_1C_3}R_2R_3-\sqrt{C_1}C_3R_2R_5-\sqrt{C_1}C_3R_3R_5-\sqrt{C_1}C_4R_2R_5}}{\sqrt{C_1C_3}C_4R_2R_3R_5}$ K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.50 LP-50
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3\right) + s\left(C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2\right)}$$

$$\begin{array}{l} Q\colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_2+\sqrt{C_1}C_3R_3+\sqrt{C_1}C_4R_2-\sqrt{C_1}C_5R_2}\\ \text{wo: } \sqrt{C_1+C_3}\sqrt{\frac{1}{C_1C_3C_4R_2R_3-C_1C_3C_5R_2R_3}}\\ \text{bandwidth: } \frac{\sqrt{C_1+C_3}\left(\sqrt{C_1}C_3R_2+\sqrt{C_1}C_3R_3+\sqrt{C_1}C_4R_2-\sqrt{C_1}C_5R_2\right)\sqrt{\frac{1}{C_1C_3C_4R_2R_3-C_1C_3C_5R_2R_3}}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_3C_5R_2}{C_1C_6+C_3C_6}\\ \text{K-HP: } 0\\ \text{K-BP: } 0\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

8.51 LP-51
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{C_1 C_3 C_4 R_2 R_3 R_4 R_5 s^2 - C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(-C_1 C_3 R_2 R_3 R_4 + C_1 C_3 R_2 R_3 R_5 + C_1 C_3 R_2 R_4 R_5 + C_1 C_3 R_2 R_5 + C_1 C_3 R_2 R_5 + C_1 C_3 R_5 R_5$$

 $\begin{array}{l} \mathrm{Q:} - \frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1}C_3R_2R_3R_4-\sqrt{C_1}C_3R_2R_3R_5-\sqrt{C_1}C_3R_2R_4R_5-\sqrt{C_1}C_3R_3R_4R_5-\sqrt{C_1}C_4R_2R_4R_5}}\\ \mathrm{wo:} \ \frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}}\\ \mathrm{bandwidth:} \ - \frac{\sqrt{C_1C_3R_2R_3R_4-\sqrt{C_1}C_3R_2R_3R_5-\sqrt{C_1}C_3R_2R_4R_5-\sqrt{C_1}C_3R_3R_4R_5-\sqrt{C_1}C_4R_2R_4R_5}}{\sqrt{C_1}C_3C_4R_2R_3R_4R_5}}\\ \mathrm{K-LP:} \ - \frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}}\\ \mathrm{K-HP:} \ 0\\ \mathrm{K-BP:} \ 0\\ \mathrm{Qz:} \ \mathrm{None} \end{array}$

8.52 LP-52 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_4C_6R_2R_3R_4 - C_1C_3C_5C_6R_2R_3R_4\right) + s\left(C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$$

Parameters:

Wz: None

$$Q \colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4+\sqrt{C_1}C_4}R_2R_4-\sqrt{C_1}C_5R_2R_4} \\ \text{wo: } \sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4-C_1C_3C_5R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}(\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4+\sqrt{C_1}C_4R_2R_4-\sqrt{C_1}C_5R_2R_4)\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4-C_1C_3C_5R_2R_3R_4}}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}} \\ \text{K-LP: } \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}} \\ \text{K-HP: 0} \\ \text{K-BP: 0} \\ \text{Qz: None} \\ \text{Wz: None} \\ \\ \text{Wz: None} \\ }$$

8.53 LP-53 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4 + s^2 \left(C_1 C_2 C_6 R_3 R_4 R_6 - C_1 C_5 C_6 R_3 R_4 R_6\right) + s \left(C_1 C_2 R_3 R_4 - C_1 C_5 R_3 R_4 + C_1 C_6 R_3 R_6 + C_1 C_6 R_4 R_6 + C_2 C_6 R_4 R_6\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1}R_3 + C_1R_4 + C_2R_4}{C_1C_5R_3R_4 + C_1C_5R_3R_6 + C_1C_6\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1}R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2-C_5}}}{C_1C_2R_3R_4 - C_1C_5R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_4R_6 + C_2C_6R_4R_6}}$$
 wo:
$$\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6}}$$
 bandwidth:
$$\frac{\sqrt{C_1R_3 + C_1R_4 + C_2R_4}(C_1C_2R_3R_4 - C_1C_5R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_4R_6 + C_2C_6R_4R_6)\sqrt{\frac{1}{C_1C_2C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6}}}{\sqrt{C_1C_2}\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2-C_5}} - \sqrt{C_1}C_5\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2-C_5}}}$$
 K-LP:
$$\frac{C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4}$$
 K-HP: 0 K-BP: 0 Qz: None Wz: None

8.54 LP-54
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_4 R_6}{C_1 C_2 C_5 R_3 R_4 R_5 s^2 + C_1 R_3 + C_1 R_4 + C_2 R_4 + s \left(C_1 C_2 R_3 R_4 - C_1 C_5 R_3 R_4 + C_1 C_5 R_3 R_5 + C_1 C_5 R_4 R_5 + C_2 C_5 R_4 R_5 \right)}$$

```
Q: \frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1R_3+C_1R_4+C_2R_4}}{C_1C_2R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5} wo: \frac{\sqrt{C_1R_3+C_1R_4+C_2R_4}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}} bandwidth: \frac{C_1C_2R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}{C_1C_2C_5R_3R_4R_5} K-LP: \frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4} K-HP: 0 K-BP: 0 Qz: None
```

8.55 LP-55
$$Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & R_3, & \frac{1}{C_4 s}, & \frac{1}{C_5 s}, & \frac{R_6}{C_6 R_6 s + 1} \end{pmatrix}$$

$$H(s) = \frac{C_5 R_6}{C_1 + C_2 + s^2 \left(C_1 C_2 C_6 R_3 R_6 + C_1 C_4 C_6 R_3 R_6 - C_1 C_5 C_6 R_3 R_6\right) + s \left(C_1 C_2 R_3 + C_1 C_4 R_3 - C_1 C_5 R_3 + C_1 C_6 R_6 + C_2 C_6 R_6\right)}$$

Wz: None

$$Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1C_2R_3+C_1C_4R_3-C_1C_5R_3+C_1C_6R_6+C_2C_6R_6} \\ \text{wo: } \sqrt{C_1+C_2}\sqrt{\frac{1}{C_1C_2C_6R_3R_6+C_1C_4C_6R_3R_6-C_1C_5C_6R_3R_6}} \\ \text{bandwidth: } \frac{\sqrt{C_1+C_2}(C_1C_2R_3+C_1C_4R_3-C_1C_5R_3+C_1C_6R_6+C_2C_6R_6)\sqrt{\frac{1}{C_1C_2C_6R_3R_6+C_1C_4C_6R_3R_6-C_1C_5C_6R_3R_6}}}{\sqrt{C_1C_2\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1}C_4\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2+C_4-C_5}}}} \\ \text{K-LP: } \frac{C_5R_6}{C_1+C_2} \\ \text{K-HP: 0} \\ \text{K-BP: 0} \\ \text{Qz: None} \\ \text{Wz: None} \\ \end{aligned}$$

8.56 LP-56
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_6}{C_1 + C_2 + s^2 \left(C_1 C_2 C_5 R_3 R_5 + C_1 C_4 C_5 R_3 R_5\right) + s \left(C_1 C_2 R_3 + C_1 C_4 R_3 - C_1 C_5 R_3 + C_1 C_5 R_5 + C_2 C_5 R_5\right)}$$

Parameters:

8.57 LP-57
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4 + s^2 \left(C_1 C_2 C_6 R_3 R_4 R_6 + C_1 C_4 C_6 R_3 R_4 R_6 - C_1 C_5 C_6 R_3 R_4 R_6\right) + s \left(C_1 C_2 R_3 R_4 + C_1 C_4 R_3 R_4 - C_1 C_5 R_3 R_4 + C_1 C_6 R_3 R_6 + C_1 C_6 R_4 R_6 + C_2 C_6 R_4 R_6\right)}$$

$$Q\colon \frac{\sqrt{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}}{\frac{C_{1}C_{2}R_{3}R_{4}+C_{1}C_{5}R_{3}R_{4}+C_{1}C_{5}R_{3}R_{4}+C_{1}C_{6}R_{3}R_{6}+C_{1}C_{6}R_{4}R_{6}}}{\frac{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}{C_{1}C_{2}C_{6}R_{3}R_{4}R_{6}}+C_{1}C_{5}C_{6}R_{3}R_{4}R_{6}}}}}}$$
bandwidth:
$$\frac{\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}C_{6}R_{3}R_{4}R_{6}}+C_{1}C_{5}C_{6}R_{3}R_{4}R_{6}}}}{\sqrt{C_{1}C_{2}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{4}\sqrt{R_{6}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}+\sqrt{C_{1}C_{4}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{4}\sqrt{R_{6}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}}}}$$

$$\times LP: \frac{C_{5}R_{4}R_{6}}{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{4}\sqrt{R_{6}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}}}{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}+\sqrt{C_{1}C_{4}\sqrt{C_{6}\sqrt{R_{3}\sqrt{R_{4}\sqrt{R_{6}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}}}}$$

$$K-LP: \frac{C_{5}R_{4}R_{6}}{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{C_{6}\sqrt{R_{3}\sqrt{R_{4}\sqrt{R_{6}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}}{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{C_{6}\sqrt{R_{3}\sqrt{R_{4}\sqrt{R_{6}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}}}}$$

$$K-LP: \frac{C_{5}R_{4}R_{6}}{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}}{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}}$$

$$K-HP: 0$$

$$K-BP: 0$$

Qz: None Wz: None

8.58 LP-58
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4 + s^2 \left(C_1 C_2 C_5 R_3 R_4 R_5 + C_1 C_4 C_5 R_3 R_4 R_5\right) + s \left(C_1 C_2 R_3 R_4 + C_1 C_4 R_3 R_4 - C_1 C_5 R_3 R_4 + C_1 C_5 R_3 R_5 + C_1 C_5 R_4 R_5 + C_2 C_5 R_4 R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{C_1R_3+C_1R_4+C_2R_4}}{C_1C_2R_3R_4+C_1C_4R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}$ wo: $\frac{\sqrt{C_1R_3+C_1R_4+C_2R_4}}{\sqrt{C_1C_2C_5R_3R_4R_5+C_1C_4C_5R_3R_4R_5}}$ bandwidth: $\frac{C_1C_2R_3R_4+C_1C_4R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{C_1C_2C_5R_3R_4R_5+C_1C_4C_5R_3R_4R_5}}$ K-LP: $\frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4}$ K-HP: 0

K-BP: 0 Qz: None Wz: None

8.59 LP-59 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3 R_4 R_6}{-C_1 R_4 + C_1 R_5 + s^2 \left(C_1 C_2 C_6 R_4 R_5 R_6 + C_1 C_3 C_6 R_4 R_5 R_6 + C_2 C_3 C_6 R_4 R_5 R_6\right) + s \left(C_1 C_2 R_4 R_5 + C_1 C_3 R_4 R_5 - C_1 C_6 R_4 R_6 + C_1 C_6 R_5 R_6 + C_2 C_3 R_4 R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-R_4+R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}}{C_1C_2R_4R_5+C_1C_3R_4R_5-C_1C_6R_4R_6+C_1C_6R_5R_6+C_2C_3R_4R_5}}$ wo: $\frac{\sqrt{-C_1R_4+C_1R_5}}{\sqrt{C_1C_2C_6R_4R_5R_6+C_1C_3C_6R_4R_5R_6+C_2C_3C_6R_4R_5R_6}}$ bandwidth: $\frac{\sqrt{-C_1R_4+C_1R_5}(C_1C_2R_4R_5+C_1C_3R_4R_5-C_1C_6R_4R_6+C_1C_6R_5R_6+C_2C_3R_4R_5)}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-R_4+R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_6R_4R_5R_6+C_1C_3C_6R_4R_5R_6+C_2C_3C_6R_4R_5R_6}}$ K-LP: $\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.60 LP-60 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}}{C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}$ wo: $\frac{\sqrt{C_1}}{\sqrt{C_1C_2C_5R_4R_5+C_1C_3C_5R_4R_5}}$ bandwidth: $\frac{C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_5R_4R_5+C_1C_3C_5R_4R_5}+C_2C_3C_5R_4R_5}$ K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: 0
K-DD. 0

K-BP: 0

Qz: None

Wz: None

8.61 LP-61
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3 R_6}{-C_1 + s^2 \left(C_1 C_2 C_6 R_5 R_6 + C_1 C_3 C_6 R_5 R_6 + C_1 C_4 C_6 R_5 R_6 + C_2 C_3 C_6 R_5 R_6\right) + s \left(C_1 C_2 R_5 + C_1 C_3 R_5 + C_1 C_4 R_5 - C_1 C_6 R_6 + C_2 C_3 R_5\right)}$$

wo: $\frac{i\sqrt{C_1}}{\sqrt{C_1C_2C_6R_5R_6+C_1C_3C_6R_5R_6+C_2C_3R_5}}$ bandwidth: $\frac{C_1C_2R_5+C_1C_3C_6R_5R_6+C_1C_4C_6R_5R_6+C_2C_3C_6R_5R_6}{\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_6R_5R_6+C_1C_3C_6R_5R_6+C_1C_5C_6R_5R_6+C_1C_5C_6R_5R_6+C_1C_5C_6R_5R_6+C_1C_5C_6R_5R_6+C_1C_5C_6R_5R_6+C_1C_5C_6R_5R_6+C_1C_5C_6R_5R_6+C_1C_5C_6R_5R_6+C_1C_5C_6R_5R_6+C_1$

K-HP: 0 K-BP: 0 Qz: None

Wz: None

8.62 LP-62 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{c_3 c_3 c_4 c_6}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3 + s^2 \left(C_1 C_2 C_5 C_6 R_5 R_6 + C_1 C_3 C_5 C_6 R_5 R_6 + C_2 C_3 C_5 C_6 R_5 R_6\right) + s \left(C_1 C_2 C_5 R_5 + C_1 C_3 C_6 R_6 + C_1 C_3 C_5 R_5 + C_1 C_4 C_6 R_6 + C_1 C_4 C_5 R_6 + C_2 C_3 C_5 R_5 + C_1 C_4 C_6 R_6 + C_1 C_4 C_5 R_6 + C_1 C_$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{C_1C_2C_5R_5+C_1C_2C_6R_6+C_1C_3C_5R_5+C_1C_3C_6R_6+C_1C_4C_5R_5+C_1C_4C_6R_6-C_1C_5C_6R_6+C_2C_3C_5R_5+C_2C_3C_6R_6}$ wo: $\frac{\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{\sqrt{C_1C_2C_5C_6R_5R_6+C_1C_3C_5C_6R_5R_6+C_2C_3C_5C_6R_5R_6}}$ bandwidth: $\frac{C_1C_2C_5R_5+C_1C_2C_6R_6+C_1C_3C_5R_5R_6+C_2C_3C_5C_6R_5R_6}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_5C_6R_5R_6+C_1C_3C_5R_5R_6+C_1C_3C_5C_6R_5R_6+C_1C_3C_5C_5C_6R_5R_6+C_1C_3C_5C$

K-BP: 0 Qz: None Wz: None

8.63 LP-63 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & \frac{R_4}{C_4 R_4 s + 1}, & R_5, & \frac{R_6}{C_6 R_6 s + 1} \end{pmatrix}$

 $H(s) = \frac{1}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_6R_4R_5R_6 + C_1C_3C_6R_4R_5R_6 + C_2C_3C_6R_4R_5R_6\right) + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-R_4+R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1C_2R_4R_5+C_1C_3R_4R_5+C_1C_4R_4R_5-C_1C_6R_4R_6+C_1C_6R_5R_6+C_2C_3R_4R_5}$ wo: $\frac{\sqrt{-C_1R_4+C_1R_5}}{\sqrt{C_1C_2C_6R_4R_5R_6+C_1C_3C_6R_4R_5R_6+C_1C_4C_6R_4R_5R_6+C_2C_3C_6R_4R_5R_6}}$ bandwidth: $\frac{\sqrt{-C_1R_4+C_1R_5}(C_1C_2R_4R_5+C_1C_3R_4R_5+C_1C_4R_4R_5-C_1C_6R_4R_6+C_1C_6R_5R_6+C_2C_3R_4R_5)}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-R_4+R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_6R_4R_5R_6+C_1C_3C_6R_4R_5R_6+C_1C_4C_6R_4R_5R_6+C_2C_3C_6R_4R_5R_6}}$ K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0

K-BP: 0 Qz: None Wz: None

8.64 LP-64 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4\right)}$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1C_2R_4+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4} \\ \text{wo:} \ \frac{\sqrt{C_1}}{\sqrt{C_1C_2C_5R_4R_5+C_1C_3C_5R_4R_5+C_1C_4C_5R_4R_5+C_2C_3C_5R_4R_5}} \\ \text{bandwidth:} \ \frac{C_1C_2R_4+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_5R_4R_5+C_1C_3C_5R_4R_5+C_1C_4C_5R_4$

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K-LP: \frac{C_3C_5R_4}{C_1C_6}
K-HP: 0
K-BP: 0
Qz: None
Wz: None
```

8.65 LP-65
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_4 R_6}{C_1 C_2 C_3 R_3 R_4 R_5 s^2 - C_1 R_4 + C_1 R_5 + s \left(C_1 C_2 R_4 R_5 - C_1 C_3 R_3 R_4 + C_1 C_3 R_3 R_5 + C_1 C_3 R_4 R_5 + C_2 C_3 R_4 R_5\right)}$$

8.66 LP-66
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_3R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

8.67 LP-67
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_6}{-C_1 + s^2 \left(C_1 C_2 C_3 R_3 R_5 + C_1 C_3 C_4 R_3 R_5\right) + s \left(C_1 C_2 R_5 - C_1 C_3 R_3 + C_1 C_3 R_5 + C_1 C_4 R_5 + C_2 C_3 R_5\right)}$$

Parameters:

8.68 LP-68
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_6R_3R_6 + C_1C_3C_4C_6R_3R_6 - C_1C_3C_5C_6R_3R_6\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_6R_6 + C_1C_3C_4R_3 - C_1C_3C_5R_3 + C_1C_3C_6R_6 + C_1C_4C_6R_6 - C_1C_5C_6R_6 + C_2C_3C_6R_6\right)}$$

 $\frac{\sqrt{\frac{c_{1}c_{2}+c_{1}c_{3}+c_{1}c_{4}-c_{1}c_{5}+c_{2}c_{3}}{c_{1}c_{2}c_{2}c_{3}c_{6}c_{8}c_{8}c_{6}-c_{1}c_{3}c_{5}c_{6}c_{8}c_{8}}}(c_{1}c_{2}c_{3}c_{4}c_{6}+c_{1}c_{3}c_{4}c_{6}+c_{1}c_{3}c_{5}c_{6}c_{8}c_{8}}(c_{1}c_{2}c_{3}c_{6}+c_{1}c_{3}c_{5}c_{6}c_{8}+c_{1}c_{3}c_{5}c_{6}c_{8}c_{6}}(c_{1}c_{2}c_{3}c_{6}+c_{1}c_{3}c_{5}c_{6}c_{8}+c_{1}c_{3}c_{5}c_{6}c_{8}+c_{1}c_{3}c_{5}c_{6}c_{8}+c_{1}c_{3}c_{5}c_{6}c_{8}+c_{1}c_{3}c_{5}c_{6}c_{8}+c_{1}c_{3}c_{5}c_{6}c_{8}+c_{1}c_{3}c_{5}c_{6}c_{8}+c_{1}c_{3}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}c_{6}+c_{1}c_{5}c_{6}+c_{1}c_{5}c_{6}+c_{1}c_{5}+c_{1}c_{5}c_{6}+c_{1}c_{5}+c_{1}c_{5}c_{6}+c_{1}c_{5}+c$

K-BP: 0 Qz: None

Wz: None

8.69 LP-69 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_5R_3R_5 + C_1C_3C_4C_5R_3R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_5R_5 + C_1C_3C_4R_3 - C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_1C_4C_5R_5 + C_2C_3C_5R_5\right)}$$

Parameters:

K-BP: 0 Qz: None

Wz: None

8.70 LP-70 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $C_3R_4R_6$ $H(s) = \frac{1}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_3R_4R_5 + C_1C_3C_4R_3R_4R_5\right) + s\left(C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 + C_2C_3R_4R_5\right)}$

Parameters:

bandwidth: $\frac{C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 + C_2C_3R_4R_5}{C_1\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2 + C_4}\sqrt{C_2C_3R_3R_4R_5 + C_3C_4R_3R_4R_5}}$

K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0

K-BP: 0 Qz: None Wz: None

8.71 LP-71 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_3R_4 + C_1C_3C_4C_6R_3R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

 $Q: \frac{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}} + C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}} - C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_2C_3R_4}$

wo:
$$\sqrt{\frac{1}{C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}$$
 bandwidth: $\frac{(C_1C_2R_4+C_1C_3R_3+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}}{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}+C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}-C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}$ K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: 0 K-BP: 0 Qz: None

8.72 LP-72
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, R_6\right)$$

$$H(s) = \frac{R_2 R_4 R_6}{C_1 C_2 R_2 R_3 R_4 R_5 s^2 + R_4 R_5 + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 + C_2 R_2 R_4 R_5\right)}$$

Wz: None

Q:
$$-\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{R_2}\sqrt{R_3}R_4R_5}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5}$$
 wo: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5}{C_1C_2R_2R_3R_4R_5}$ K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.73 LP-73
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_2 R_4}{C_6 R_4 + s^2 \left(C_1 C_2 C_6 R_2 R_3 R_4 - C_1 C_5 C_6 R_2 R_3 R_4\right) + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4 + C_2 C_6 R_2 R_4\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}-C_{5}}}}{C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}}\\ \text{wo: } \sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}\\ \text{bandwidth: } \frac{(C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}-C_{5}}}}\\ \text{K-LP: } \frac{C_{5}R_{2}}{C_{6}}\\ \text{K-HP: } 0\\ \text{K-BP: } 0\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

8.74 LP-74
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{R_2 R_6}{R_5 + s^2 \left(C_1 C_2 R_2 R_3 R_5 + C_1 C_4 R_2 R_3 R_5\right) + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_2 R_2 R_5\right)}$$

8.75 LP-75
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_2}{C_6 + s^2 \left(C_1 C_2 C_6 R_2 R_3 + C_1 C_4 C_6 R_2 R_3 - C_1 C_5 C_6 R_2 R_3 \right) + s \left(C_1 C_6 R_2 + C_1 C_6 R_3 + C_2 C_6 R_2 \right)}$$

$$\begin{array}{l} Q\colon \frac{\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}\\ Wo: \frac{1}{\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}\\ bandwidth: \frac{(C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}{\sqrt{C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}\\ K-LP: \frac{C_{5}R_{2}}{C_{6}}\\ K-HP: 0\\ K-BP: 0\\ Qz: None\\ Wz: None \end{array}$$

8.76 LP-76
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{R_2 R_4 R_6}{R_4 R_5 + s^2 \left(C_1 C_2 R_2 R_3 R_4 R_5 + C_1 C_4 R_2 R_3 R_4 R_5\right) + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 + C_2 R_2 R_4 R_5\right)}$$

Parameters:

Q:
$$-\frac{\sqrt{C_1}\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{C_2+C_4}}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5}$$
 wo: $\frac{1}{\sqrt{C_1C_2R_2R_3+C_1C_4R_2R_3}}$ bandwidth: $-\frac{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5}{\sqrt{C_1}\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{C_2+C_4}\sqrt{C_1C_2R_2R_3+C_1C_4R_2R_3}}$ K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.77 LP-77
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_2 R_4}{C_6 R_4 + s^2 \left(C_1 C_2 C_6 R_2 R_3 R_4 + C_1 C_4 C_6 R_2 R_3 R_4 - C_1 C_5 C_6 R_2 R_3 R_4\right) + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4 + C_2 C_6 R_2 R_4\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}\\ & C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}\\ \text{Wo: } \sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}\\ \text{bandwidth: } \frac{(C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}{\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}\\ \text{K-LP: } \frac{C_{5}R_{2}}{C_{6}}\\ \text{K-HP: } 0\\ \text{K-BP: } 0\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

8.78 LP-78
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{-C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s^2 \left(C_1 C_2 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_6 R_2 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_4 R_5 R_6 \right) + s \left(C_1 C_2 R_2 R_4 R_5 + C_1 C_6 R_2 R_4 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_4 R_5 R_6 + C_1 C_6 R_5 R_6 + C_$$

Q: $\frac{\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_2R_2R_4R_5+C_1C_3R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_2C_3R_2R_4R_5+C_3C_6R_4R_5R_6}$ wo: $\frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1C_2C_6R_3R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6}}$ bandwidth: $\frac{C_1C_2R_2R_4R_5+C_1C_3R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_2C_3R_2R_4R_5+C_3C_6R_4R_5R_6}{\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6}}$ K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: 0 K-BP: 0 Qz: None

8.79 LP-79
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + c_2C_3C_5C_6R_2R_4R_5\right) + s\left(C_1C_2C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_4R$

Parameters:

Wz: None

Q: $\frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{C_1C_2R_2R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5}$ wo: $\frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_2C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5}}$ bandwidth: $\frac{C_1C_2R_2R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5}{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5}}$ K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}}$ K-HP: 0 K-BP: 0 Qz: None

8.80 LP-80 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_2 R_6}{-C_1 R_2 + C_1 R_5 + C_3 R_5 + s^2 \left(C_1 C_2 C_6 R_2 R_5 R_6 + C_1 C_3 C_6 R_2 R_5 R_6 + C_2 C_3 C_6 R_2 R_5 R_6\right) + s \left(C_1 C_2 R_2 R_5 + C_1 C_3 R_2 R_5 + C_1 C_4 R_2 R_5 - C_1 C_6 R_2 R_6 + C_1 C_6 R_5 R_6 + C_2 C_3 R_2 R_5 + C_3 C_6 R_5 R_6\right)}$

Parameters:

Wz: None

Q: $\frac{\sqrt{C_6}\sqrt{R_2}\sqrt{R_5}\sqrt{R_6}\sqrt{-C_1R_2+C_1R_5+C_3R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1C_2R_2R_5+C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_6R_2R_6+C_2C_3R_2R_5+C_3C_6R_5R_6}}$ wo: $\frac{\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{\sqrt{C_1C_2C_6R_2R_5R_6+C_1C_3C_6R_2R_5R_6+C_2C_3C_6R_2R_5R_6}}$ bandwidth: $\frac{C_1C_2R_2R_5+C_1C_3C_6R_2R_5R_6+C_1C_4C_6R_2R_5R_6+C_2C_3C_6R_2R_5R_6}{\sqrt{C_6}\sqrt{R_2}\sqrt{R_5}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_6R_2R_5R_6+C_1C_4C_6R_2R_5R_6+C_1C_3C_6R_2R_5R_6+C_1C_4C_6R_4R_5R_6+C_1C_4C_6R_4R_5R_6+C_1C_4R_4R_5-C_4C_4R_4R_5-C_4C_4C_4R_4R_5-C_4R$

8.81 LP-81 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5 + C_2C_3C_5C_6R_2R_5\right) + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_1C_5C_6R_5 + C_2C_3C_6R_2 + C_3C_5C_6R_5\right)}$

Parameters:

Wz: None

Q: $\frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_1+C_3}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1C_2R_2+C_1C_3R_2+C_1C_5R_2+C_1C_5R_5+C_2C_3R_2+C_3C_5R_5}$ wo: $\frac{\sqrt{C_1+C_3}}{\sqrt{C_1C_2C_5R_2R_5+C_1C_3C_5R_2R_5+C_1C_4C_5R_2R_5+C_2C_3C_5R_2R_5}}$ bandwidth: $\frac{C_1C_2R_2+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_2C_3R_2+C_3C_5R_5}{\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_5R_2R_5+C_1C_3C_5R_2R_5+C_1C_4C_5R_5+C_1C_4C_5R_5+C_1C_4C_5R_5+C_1C_4C$

8.82 LP-82
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $C_3R_2R_4R_6$ $\overline{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + c_1C_4C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_4C_6R_2R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6 + C_1C_4R_2R_4R_5 + C_1C_4R_4R_5R_5 + C_1C_4R_5R_5R_5 + C_1C_4R_5R_5R_5 + C_1C_4R_5R_5R_5 + C_1C_4R_5R_5R_5 + C_1C_4R_5R_5R_5 + C_1C_4R_5R_5R_5 + C_1C_4R$

Parameters:

 $Q\colon \frac{\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_2R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_4R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_2C_3R_2R_4R_5+C_3C_6R_4R_5R_6}}{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}$ wo: $\frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1C_2C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6}}$ bandwidth: $\frac{C_1C_2R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_2C_3R_2R_4R_5+C_3C_6R_4R_5R_6}}{\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_2C_3C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6+C_1C_4C_6R_2R_4R_5R_6$

K-BP: 0

Qz: None Wz: None

8.83 LP-83 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & \frac{R_4}{C_4 R_4 s + 1}, & R_5 + \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}$

 $\frac{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1$

Parameters:

 $Q\colon \frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}{C_1C_2R_2R_4 + C_1C_3R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_2C_3R_2R_4 + C_3C_5R_4R_5}}{Wo: \frac{\sqrt{C_1R_2} + C_1R_4 + C_3R_4}{\sqrt{C_1C_2C_5R_2R_4} + C_1C_5R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_4R_5}}{\frac{C_1C_2R_2R_4 + C_1C_3C_5R_2R_4R_5 + C_1C_4C_5R_2R_4R_5 + C_2C_3C_5R_2R_4R_5}{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2} + C_1C_3R_2R_4 + C_1C_5R_2R_4 +$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: 0 Qz: None

Wz: None

8.84 LP-84 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

 $H(s) = \frac{1}{C_1 C_2 C_3 R_2 R_3 R_4 R_5 s^2 - C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(C_1 C_2 R_2 R_4 R_5 - C_1 C_3 R_2 R_3 R_4 + C_1 C_3 R_2 R_3 R_5 + C_1 C_3 R_2 R_4 R_5 + C_1 C_3 R_5 R_5 + C_1 C_5 R_5$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-C_1}R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_2R_2R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_3R_4R_5+C_2C_3R_2R_4R_5}$ wo: $\frac{\sqrt{-C_1}R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_1C_2R_2R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5}{C_1C_2C_3R_2R_3R_4R_5}$

K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.85 LP-85 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

Parameters:

 $Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}}}{C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_2C_3R_2R_4}$ wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}$

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bandwidth: \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}(C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_2C_3R_2R_4)\sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4-C_1C_3C_5R_2R_3R_4}}}{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}}\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}}} K-LP: \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4} K-HP: 0 K-BP: 0 Qz: None
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8.86 LP-86
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_2 R_6}{-C_1 R_2 + C_1 R_5 + C_3 R_5 + s^2 \left(C_1 C_2 C_3 R_2 R_3 R_5 + C_1 C_3 C_4 R_2 R_3 R_5\right) + s \left(C_1 C_2 R_2 R_5 - C_1 C_3 R_2 R_3 + C_1 C_3 R_2 R_5 + C_1 C_3 R_3 R_5 + C_1 C_4 R_2 R_5 + C_2 C_3 R_2 R_5\right)}$$

Wz: None

8.87 LP-87
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3\right) + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}} \sqrt{\frac{1}{C_2 + C_4 - C_5}} + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}} \sqrt{\frac{1}{C_2 + C_4 - C_5}} - \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}} \sqrt{\frac{1}{C_2 + C_4 - C_5}}}{C_1C_2R_2 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_2C_3R_2}} \\ \text{wo: } \sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2C_3R_2R_3 + C_1C_3C_4R_2}} - \frac{1}{\sqrt{C_1C_2C_3R_2R_3 + C_1C_3C_4R_2}} \\ \text{bandwidth: } \frac{\sqrt{C_1 + C_3}(C_1C_2R_2 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_2C_3R_2)} \sqrt{\frac{1}{C_1C_2C_3R_2R_3 + C_1C_3C_5R_2R_3}}} \\ \text{bandwidth: } \frac{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} - \sqrt{C_1\sqrt{C_3}C_3R_2R_3 + C_1C_3C_5R_2R_3}}} \\ \text{K-LP: } \frac{C_3C_5R_2}{C_1C_6 + C_3C_6}} \\ \text{K-HP: 0} \\ \text{K-BP: 0} \\ \text{Qz: None} \\ \text{Wz: None}$$

8.88 LP-88
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{-C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s^2 \left(C_1 C_2 C_3 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 R_2 R_3 R_4 R_5\right) + s \left(C_1 C_2 R_2 R_4 R_5 - C_1 C_3 R_2 R_3 R_4 + C_1 C_3 R_2 R_3 R_5 + C_1 C_3 R_2 R_4 R_5 + C_1 C_4 R_2 R_4 R_5 + C_2 C_3 R_2 R_4 R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_2R_2R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_3R_4R_5+C_1C_4R_2R_4R_5+C_2C_3R_2R_4R_5}$ wo: $\frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1C_2C_3R_2R_3R_4R_5+C_1C_3C_4R_2R_3R_4R_5}}$ bandwidth: $\frac{C_1C_2R_2R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_3R_4R_5+C_1C_4R_2R_4R_5+C_2C_3R_2R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{C_1C_2C_3R_2R_3R_4R_5+C_1C_3C_4R_2R_3R_4R_5}}}$ K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.89 LP-89
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_4 - C_1C_3C_5C_6R_2R_3R_4\right) + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_2R$$

 $\frac{\sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}C_{2}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{3}R_{4}+C_{1}C_{4}R_{2}R_{4}-C_{1}C_{5}R_{2}R_{4}+C_{2}C_{3}R_{2}R_{4}}$

 $\text{wo: } \sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4 + C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4}(C_1C_2R_2R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4)}{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}}} \frac{1}{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} - \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} \\ + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} - \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} \\ + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} - \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} \\ + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} - \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} \\ + \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} \\ + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_5\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}} \\ + \sqrt{C_1\sqrt{C_3}C_5\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C_3}\sqrt{C$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: 0

Qz: None Wz: None

8.90 LP-90 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $R_1R_2R_4R_6$

 $\overline{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + S^2 \left(-C_1 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_6 R_1 R_2 R_3 R_4 + C_1 R_1 R_2 R_3 R_5 + C_1 R_1 R_2 R_3 R_5 + C_1 R_1 R_2 R_4 R_5 + C_1 R_1 R_4 R_5 + C_1$

Parameters:

 $Q: \frac{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \frac{R_2R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_2R_3R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_6}\sqrt{R_1}R_2R_3R_5\sqrt{R_6}\sqrt{\frac{R_1R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \frac{R_2R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \frac{R_2R_3R_4}{-R_2R_3R_4+R_2R_$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.91 LP-91 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{-C_1C_5C_6R_1R_2R_3R_4s^2 + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 - C_5C_6R_2R_3R_4\right)}{-C_1C_5C_6R_1R_2R_3R_4s^2 + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + c_6R_3R_4 + s\left(C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 - C_5C_6R_2R_3R_4\right)}$

Parameters:

bandwidth: $i\sqrt{-R_1R_4-R_2R_3-R_2R_4-R_3R_4}(C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4-C_5R_2R_3R_4)$

 $C_1C_5R_1R_2\overline{R_3R_4\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}$

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.92 LP-92 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_5R_1R_2R_4$ $\overline{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(-C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_5 + C_1C_5C_6R_1R_2R_3R_5 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_3R_4 + C_5C_6R_1R_3R_4 + C_$

```
Q: \frac{-\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}R_2R_3R_4\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3}R_4\sqrt{\frac{-R_2}{R_3}R_4 + R_2}R_3R_5 + R_2R_4R_5 + R_3R_4\sqrt{\frac{-R_2}{R_3}R_4 + R_2}R_3 + R_2R_4 + R_3R_4\sqrt{\frac{-R_2}{R_3}R_4 + R_2}R_3R_5 + R_2R_4R_5 + R_3R_4}}{C_1R_1R_2R_3 + C_1C_5R_1R_2R_3R_4 - C_1C_5R_1R_2R_4R_5 - C_1C_5R_1R_2R_4 + C_1R_1R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_4R_5 + C_5R_2R_4
```

8.93 LP-93
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{R_1 R_2 R_6}{C_1 C_4 R_1 R_2 R_3 R_5 s^2 + R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s \left(-C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_5 + C_1 R_1 R_3 R_5 + C_4 R_2 R_3 R_5 \right)}$$

Q: $-\frac{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_1R_5}-R_2R_3+R_2R_5+R_3R_5}{C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_3R_5-C_4R_2R_3R_5}$ wo: $\frac{\sqrt{R_1R_5}-R_2R_3+R_2R_5+R_3R_5}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $-\frac{C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_3R_5-C_4R_2R_3R_5}{C_1C_4R_1R_2R_3R_5}$ K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.94 LP-94
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s^2 \left(C_1 C_4 C_6 R_1 R_2 R_3 - C_1 C_5 C_6 R_1 R_2 R_3\right) + s \left(C_1 C_6 R_1 R_2 + C_1 C_6 R_1 R_3 + C_4 C_6 R_2 R_3 - C_5 C_6 R_2 R_3\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}}}{C_1R_1R_2+C_1R_1R_3+C_4R_2R_3-C_5R_2R_3} \\ \text{wo: } \sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_4R_1R_2R_3-C_1C_5R_1R_2R_3}} \\ \text{bandwidth: } \frac{\sqrt{R_1+R_2+R_3}(C_1R_1R_2+C_1R_1R_3+C_4R_2R_3-C_5R_2R_3)\sqrt{\frac{1}{C_1C_4R_1R_2R_3-C_1C_5R_1R_2R_3}}}{\sqrt{C_1C_4}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}}} \\ \text{K-LP: } \frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3} \\ \text{K-HP: 0} \\ \text{K-BP: 0} \\ \text{Qz: None} \\ \text{Wz: None}$$

8.95 LP-95
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{C_1 C_4 R_1 R_2 R_3 R_4 R_5 s^2 + R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(-C_1 R_1 R_2 R_3 R_4 + C_1 R_1 R_2 R_3 R_5 + C_1 R_1 R_2 R_4 R_5 + C_1 R_1 R_5 + C$$

Parameters:

 $\begin{array}{l} Q\colon -\frac{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_4R_2R_3R_4R_5}\\ wo: & \frac{\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}}\\ bandwidth: & -\frac{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_4R_2R_3R_4R_5}{C_1C_4R_1R_2R_3R_4R_5}\\ K\text{-LP:} & \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}\\ K\text{-HP:} & 0\\ K\text{-BP:} & 0 \end{array}$

Qz: None Wz: None

8.96 LP-96
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s^2 \left(C_1 C_4 C_6 R_1 R_2 R_3 R_4 - C_1 C_5 C_6 R_1 R_2 R_3 R_4\right) + s \left(C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_4 + C_1 C_6 R_1 R_3 R_4 + C_4 C_6 R_2 R_3 R_4 - C_5 C_6 R_2 R_3 R_4\right)}$$

Parameters:

 $Q \colon \frac{\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}{C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4} \\ \text{wo: } \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_4 - C_5}} \\ \text{bandwidth: } \frac{1}{C_1C_4R_1R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}}{\sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_4 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_4 - C_5}}}} \\ \text{K-LP: } \frac{C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4}} \\ \text{K-HP: 0} \\ \text{K-BP: 0}$

K-HP: 0

K-BP: 0

Qz: None

Wz: None

8.97 LP-97
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_4}{C_1 C_3 C_6 R_1 R_2 R_4 R_5 s^2 - C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s \left(-C_1 C_6 R_1 R_2 R_4 + C_1 C_6 R_1 R_2 R_5 + C_1 C_6 R_1 R_4 R_5 + C_3 C_6 R_1 R_4 R_5 + C_3 C_6 R_2 R_4 R_5\right)}$$

Parameters:

 $\begin{array}{l} Q\colon -\frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}\\ \text{wo: } \frac{\sqrt{-R_2}R_4+R_2R_5+R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}\\ \text{bandwidth: } -\frac{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}{C_1C_3R_1R_2R_4R_5}\\ \text{K-LP: } -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}\\ \text{K-HP: 0}\\ \text{K-BP: 0}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$

8.98 LP-98
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_2}{-C_6 R_2 + C_6 R_5 + s^2 \left(C_1 C_3 C_6 R_1 R_2 R_5 + C_1 C_4 C_6 R_1 R_2 R_5\right) + s \left(-C_1 C_6 R_1 R_2 + C_1 C_6 R_1 R_5 + C_3 C_6 R_1 R_5 + C_3 C_6 R_2 R_5 + C_4 C_6 R_2 R_5\right)}$$

Parameters:

8.99 LP-99
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_3C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_4C_6R_2R_4R_5\right)}$$

 $\begin{array}{l} \text{Q:} -\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5} \\ \text{wo:} \ \frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_1C_3R_1R_2R_4R_5+C_1C_4R_1R_2R_4R_5}} \\ \text{bandwidth:} \ -\frac{C_1R_1R_2R_4-C_1R_1R_2R_4-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{C_1C_3R_1R_2R_4+C_1C_4R_1R_2R_4R_5}} \\ \text{K-LP:} \ -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5} \\ \text{K-HP:} \ 0 \end{array}$

K-HP: 0 K-BP: 0 Qz: None Wz: None

8.100 LP-100 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

 $\frac{C_{3}R_{1}R_{2}R_{4}}{-C_{6}R_{2}R_{5}+C_{6}R_{4}R_{5}+s^{2}\left(-C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{3}C_{6}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{1}R_{2}R_{4}+C_{1}C_{6}R_{1}R_{2}R_{5}+C_{1}C_{6}R_{1}R_{4}R_{5}+C_{3}C_{6}R_{1}R_{4}R_{5}+C_{3}C_{6}R_{2}R_{3}R_{4}+C_{3}C_{6}R_{2}R_{3}R_{5}+C_{3}C_{6}R_{3}R_{5}+C_{3}C_{6}R_{3}R_{5}+C_{3}C_{6}R_{3}R_{3}+C_{3}C_{6}R_{3}R_{5}+C_{3}C_{6}R_{3}R_{5}+C_{3}C_{6}R_{3}R_{5}+C_{3}C_{6}R_{3}R_{5}+C_{$

Parameters:

 $Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}} - \sqrt{C_1}\sqrt{C_1}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_$

Wo: $\sqrt{\frac{R_2R_4 - R_2R_5 - R_4R_5}{C_1C_3R_1R_2R_3R_4 - C_1C_3R_1R_2R_3R_5 - C_1C_3R_1R_2R_4R_5 - C_1C_3R_1R_3R_4R_5}}$

 $\frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4\sqrt{-\frac{R_2R_4}{C_1}}\frac{R_2R_4}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5}-\frac{R_4R_5}{\sqrt{C_1}\sqrt{$

K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0

K-BP: 0 Qz: None

Wz: None

8.101 LP-101 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, R_5, R_6\right)$

 $H(s) = \frac{R_1 R_4 R_6}{C_1 C_2 R_1 R_3 R_4 R_5 s^2 - R_3 R_4 + R_3 R_5 + R_4 R_5 + s \left(-C_1 R_1 R_3 R_4 + C_1 R_1 R_3 R_5 + C_1 R_1 R_4 R_5 + C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5\right)}$

Parameters:

Q: $-\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_3}R_4 + R_3R_5 + R_4R_5}{C_1R_1R_3R_4 - C_1R_1R_3R_5 - C_1R_1R_4R_5 - C_2R_1R_4R_5 - C_2R_3R_4R_5}$ wo: $\frac{\sqrt{-R_3}R_4 + R_3R_5 + R_4R_5}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $-\frac{C_1R_1R_3R_4 - C_1R_1R_3R_5 - C_1R_1R_4R_5 - C_2R_1R_4R_5 - C_2R_3R_4R_5}{C_1C_2R_1R_3R_4R_5}$

K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0

K-BP: 0

Qz: None Wz: None

8.102 LP-102 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\frac{c_{3}R_{1}R_{4}}{C_{6}R_{3} + C_{6}R_{4} + s^{2}\left(C_{1}C_{2}C_{6}R_{1}R_{3}R_{4} - C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}\right) + s\left(C_{1}C_{6}R_{1}R_{3} + C_{1}C_{6}R_{1}R_{4} + C_{2}C_{6}R_{1}R_{4} + C_{2}C_{6}R_{3}R_{4} - C_{5}C_{6}R_{3}R_{4}\right)}$

$$\text{Q: } \frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2-C_5}}}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4-C_5R_3R_4}$$

```
wo: \sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2R_1R_3R_4-C_1C_5R_1R_3R_4}} bandwidth: \frac{\sqrt{R_3+R_4}(C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4-C_5R_3R_4)\sqrt{\frac{1}{C_1C_2R_1R_3R_4-C_1C_5R_1R_3R_4}}}{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2-C_5}}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2-C_5}}} K-LP: \frac{C_5R_1R_4}{C_6R_3+C_6R_4} K-HP: 0 K-BP: 0 Qz: None
```

8.103 LP-103 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_6}{-R_3 + R_5 + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5\right) + s \left(-C_1 R_1 R_3 + C_1 R_1 R_5 + C_2 R_1 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5\right)}$$

Parameters:

Wz: None

 $\begin{array}{l} \mathrm{Q:} -\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_3}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{-R_3+R_5}}{C_1R_1R_3-C_1R_1R_5-C_2R_1R_5-C_2R_3R_5-C_4R_3R_5}\\ \mathrm{wo:} \ \frac{\sqrt{-R_3+R_5}}{\sqrt{C_1C_2R_1R_3R_5+C_1C_4R_1R_3R_5}}\\ \mathrm{bandwidth:} \ -\frac{C_1R_1R_3-C_1R_1R_5-C_2R_1R_5-C_2R_3R_5-C_4R_3R_5}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_3}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{C_1C_2R_1R_3R_5+C_1C_4R_1R_3R_5}}\\ \mathrm{K-LP:} \ -\frac{R_1R_6}{R_3-R_5}\\ \mathrm{K-HP:} \ 0\\ \mathrm{K-BP:} \ 0\\ \mathrm{Qz:} \ \mathrm{None}\\ \mathrm{Wz:} \ \mathrm{None} \end{array}$

8.104 LP-104 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1}{C_6 + s^2 \left(C_1 C_2 C_6 R_1 R_3 + C_1 C_4 C_6 R_1 R_3 - C_1 C_5 C_6 R_1 R_3\right) + s \left(C_1 C_6 R_1 + C_2 C_6 R_1 + C_2 C_6 R_3 + C_4 C_6 R_3 - C_5 C_6 R_3\right)}$$

Parameters:

$$Q\colon \frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1R_1+C_2R_1+C_2R_3+C_4R_3-C_5R_3}\\ \text{wo: } \sqrt{\frac{1}{C_1C_2R_1R_3+C_1C_4R_1R_3-C_1C_5R_1R_3}}\\ \text{bandwidth: } \frac{(C_1R_1+C_2R_1+C_2R_3+C_4R_3-C_5R_3)\sqrt{\frac{1}{C_1C_2R_1R_3+C_1C_4R_1R_3-C_1C_5R_1R_3}}}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_3}}\sqrt{\frac{1}{C_2+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_1}{C_6}\\ \text{K-HP: 0}\\ \text{K-BP: 0}\\ \text{Qz: None}\\ \text{Wz: None}$$

8.105 LP-105 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(C_1 C_2 R_1 R_3 R_4 R_5 + C_1 C_4 R_1 R_3 R_4 R_5\right) + s \left(-C_1 R_1 R_3 R_4 + C_1 R_1 R_3 R_5 + C_1 R_1 R_4 R_5 + C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 + C_4 R_3 R_4 R_5\right)}$$

Parameters:

Wz: None

Q: $-\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{C_1R_1R_3R_4-C_1R_1R_3R_5-C_1R_1R_4R_5-C_2R_1R_4R_5-C_2R_3R_4R_5-C_4R_3R_4R_5}$ wo: $\frac{\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{\sqrt{C_1C_2R_1R_3R_4+R_5+C_1C_4R_1R_3R_4R_5}}$ bandwidth: $-\frac{C_1R_1R_3R_4-C_1R_1R_3R_5-C_1R_1R_4R_5-C_2R_1R_4R_5-C_2R_3R_4R_5-C_4R_3R_4R_5}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{C_1C_2R_1R_3R_4R_5+C_1C_4R_1R_3R_4R_5}}$ K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0 K-BP: 0 Qz: None

8.106 LP-106
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4 + s^2 \left(C_1 C_2 C_6 R_1 R_3 R_4 + C_1 C_4 C_6 R_1 R_3 R_4 - C_1 C_5 C_6 R_1 R_3 R_4\right) + s \left(C_1 C_6 R_1 R_3 + C_1 C_6 R_1 R_4 + C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 + C_4 C_6 R_3 R_4 - C_5 C_6 R_3 R_4\right)}{c_6 R_3 + c_6 R_4 + s^2 \left(C_1 C_2 C_6 R_1 R_3 R_4 + C_1 C_4 C_6 R_1 R_3 R_4 - C_1 C_5 C_6 R_1 R_3 R_4\right) + s \left(C_1 C_6 R_1 R_3 + C_1 C_6 R_1 R_4 + C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 + C_4 C_6 R_3 R_4 - C_5 C_6 R_3 R_4\right)}$$

$$Q \colon \frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4}\\ \text{wo: } \sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2R_1R_3R_4+C_1C_4R_1R_3R_4-C_1C_5R_1R_3R_4}}\\ \text{bandwidth: } \frac{\sqrt{R_3+R_4}(C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4)\sqrt{\frac{1}{C_1C_2R_1R_3R_4+C_1C_4R_1R_3R_4-C_1C_5R_1R_3R_4}}}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_1R_4}{C_6R_3+C_6R_4}\\ \text{K-HP: 0}\\ \text{K-BP: 0}\\ \text{Qz: None}\\ \text{Wz: None}$$

8.107 LP-107
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_4}{-C_6 R_4 + C_6 R_5 + s^2 \left(C_1 C_2 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5\right) + s \left(-C_1 C_6 R_1 R_4 + C_1 C_6 R_1 R_5 + C_2 C_6 R_4 R_5 + C_3 C_6 R_4 R_5\right)}$$

Parameters:

8.108 LP-108
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1}{-C_6 + s^2 \left(C_1 C_2 C_6 R_1 R_5 + C_1 C_3 C_6 R_1 R_5 + C_1 C_4 C_6 R_1 R_5 + C_2 C_3 C_6 R_1 R_5\right) + s \left(-C_1 C_6 R_1 + C_2 C_6 R_5 + C_3 C_6 R_5 + C_4 C_6 R_5\right)}$$

Parameters:

Q:
$$-\frac{i\sqrt{R_1}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1R_1-C_2R_5-C_3R_5-C_4R_5}$$
 wo: $\frac{i}{\sqrt{C_1C_2R_1R_5+C_1C_3R_1R_5+C_1C_4R_1R_5+C_2C_3R_1R_5}}$ bandwidth: $-\frac{C_1R_1-C_2R_5-C_3R_5-C_4R_5}{\sqrt{R_1}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2R_1R_5+C_1C_3R_1R_5+C_1C_4R_1R_5+C_2C_3R_1R_5}}$ K-LP: $-\frac{C_3R_1}{C_6}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

8.109 LP-109
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_1C_2C_5C_6R_1R_5 + C_1C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_1R_5\right) + s\left(C_1C_2C_6R_1 + C_1C_3C_6R_1 + C_1C_4C_6R_1 - C_1C_5C_6R_1 + C_2C_3C_6R_1 + C_2C_5C_6R_5 + C_3C_5C_6R_5\right)}$$

$$\begin{array}{c} \text{Q:} \ \frac{\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}\sqrt{C_2+C_3+C_4-C_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5} \\ \text{wo:} \ \frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_1C_2C_5R_1R_5+C_1C_3C_5R_1R_5+C_1C_4C_5R_1R_5+C_2C_3C_5R_1R_5}} \end{array}$$

8.110 LP-110
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_4}{-C_6 R_4 + C_6 R_5 + s^2 \left(C_1 C_2 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5\right) + s \left(-C_1 C_6 R_1 R_4 + C_1 C_6 R_1 R_5 + C_2 C_6 R_4 R_5 + C_3 C_6 R_4 R_5 + C_4 C_6 R_4 R_5\right)}$$

8.111 LP-111
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_1C_2C_3C_6R_1R_3 + C_1C_3C_4C_6R_1R_3 - C_1C_3C_5C_6R_1R_3\right) + s\left(C_1C_2C_6R_1 + C_1C_3C_6R_1 + C_1C_4C_6R_1 - C_1C_5C_6R_1 + C_2C_3C_6R_1 + C_2C_3C_6R_3 + C_3C_4C_6R_3 - C_3C_5C_6R_3\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{C_2}{C_2+C_4-C_5} + \frac{C_3}{C_2+C_4-C_5} + \frac{C_4}{C_2+C_4-C_5} - \frac{C_5}{C_2+C_4-C_5} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{C_2}{C_2+C_4-C_5} + \frac{C_3}{C_2+C_4-C_5} - \frac{C_5}{C_2+C_4-C_5} - \frac{C_5}{C_2+C_4-C_5} - \frac{C_5}{C_2+C_4-C_5} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{C_2}{C_2+C_4-C_5} + \frac{C_3}{C_2+C_4-C_5} + \frac{C_4}{C_2+C_4-C_5} - \frac{C_5}{C_2+C_4-C_5} - \frac{C_5}{C_2+C_4-C$$

8.112 LP-112
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, R_6\right)$$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{C_1 C_2 R_1 R_2 R_3 R_4 R_5 s^2 + R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + s \left(-C_1 R_1 R_2 R_3 R_4 + C_1 R_1 R_2 R_3 R_5 + C_1 R_1 R_2 R_4 R_5 + C_2 R_1 R_2 R_4 R_5 + C_2 R_2 R_3 R_4 R_5\right)}$$

Parameters:

Q:
$$-\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_2R_4R_5-C_2R_1R_2R_4R_5-C_2R_1R_2R_4R_5-C_2R_2R_3R_4R_5}$$
 wo:
$$\frac{\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}}$$
 bandwidth:
$$-\frac{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_2R_1R_2R_4R_5-C_2R_2R_3R_4R_5}}{C_1C_2R_1R_2R_3R_4R_5}}$$
 K-LP:
$$\frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}$$
 K-HP: 0 K-BP: 0 Qz: None

8.113 LP-113
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s^2 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_4 - C_1 C_5 C_6 R_1 R_2 R_3 R_4\right) + s \left(C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_4 + C_1 C_6 R_1 R_3 R_4 + C_2 C_6 R_1 R_2 R_4 + C_2 C_6 R_1 R_2 R_4 + C_2 C_6 R_2 R_3 R_4\right)}$$

$$Q \colon \frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1}R_4 + R_2}{C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1}R_4 + R_2}R_3 + R_2R_4 + R_3R_4}{C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2}R_2R_3R_4 - C_5R_2R_3R_4} \\ \text{wo: } \sqrt{R_1R_4 + R_2R_3} + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_1C_2R_1R_2}R_3R_4 - C_1C_5R_1R_2}R_3} \\ \text{bandwidth: } \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 - C_5R_2R_3R_4)}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 - C_5}}} \\ \text{K-LP: } \frac{C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4} \\ \text{K-HP: 0} \\ \text{K-BP: 0} \\ \text{Qz: None} \\ \text{Wz: None} \\ \end{aligned}$$

8.114 LP-114 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_5 + C_1 C_4 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_5 + C_1 R_1 R_3 R_5 + C_2 R_1 R_2 R_5 + C_2 R_2 R_3 R_5 + C_4 R_2 R_3 R_5\right)}$$

Parameters:

Q:
$$-\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_3R_5-C_2R_1R_2R_5-C_2R_2R_3R_5-C_4R_2R_3R_5}$$
 wo:
$$\frac{\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{\sqrt{C_1C_2R_1R_2R_3R_5+C_1C_4R_1R_2R_3R_5}}$$
 bandwidth:
$$-\frac{C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_3R_5-C_2R_1R_2R_5-C_2R_2R_3R_5-C_4R_2R_3R_5}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{C_1C_2R_1R_2R_3R_5+C_1C_4R_1R_2R_3R_5}}}$$
 K-LP:
$$\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$$
 K-HP: 0 K-BP: 0 Qz: None Wz: None

8.115 LP-115 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s^2 \left(C_1 C_2 C_6 R_1 R_2 R_3 + C_1 C_4 C_6 R_1 R_2 R_3 - C_1 C_5 C_6 R_1 R_2 R_3\right) + s \left(C_1 C_6 R_1 R_2 + C_1 C_6 R_1 R_3 + C_2 C_6 R_1 R_2 + C_2 C_6 R_2 R_3 + C_4 C_6 R_2 R_3 - C_5 C_6 R_2 R_3\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}} }{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3+C_4R_2R_3-C_5R_2R_3} \\ \text{wo: } \sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2R_1R_2R_3+C_1}C_4R_1R_2+C_2R_1R_2+C_2R_2R_3+C_4R_2R_3-C_5R_2R_3} \\ \text{bandwidth: } \frac{\sqrt{R_1+R_2+R_3}(C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3+C_4R_2R_3-C_5R_2R_3)\sqrt{\frac{1}{C_1C_2R_1R_2R_3+C_1C_5R_1R_2R_3}}}{\sqrt{C_1C_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}} \\ \text{K-LP: } \frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3} \\ \text{K-HP: 0} \\ \text{Qz: None} \\ \text{Wz: None}$$

8.116 LP-116
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)$$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 R_1 R_2 R_3 R_4 + C_1 R_1 R_2 R_3 R_5 + C_1 R_1 R_2 R_4 R_5 + C_2 R_1 R_2 R_4 R_5 + C_2 R_2 R_3 R_4 R_5 + C_4 R_2 R_3 R_4 R_5 \right)}$$

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Q: -\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_2R_1R_2R_4R_5-C_2R_2R_3R_4R_5-C_4R_2R_3R_4R_5}
wo: \frac{\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_1C_2R_1R_2R_3R_4R_5+C_1C_4R_1R_2R_3R_4R_5}}
bandwidth: -\frac{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_2R_1R_2R_4R_5-C_2R_2R_3R_4R_5-C_4R_2R_3R_4R_5}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2+C_4}\sqrt{C_1C_2R_1R_2R_3R_4R_5+C_1C_4R_1R_2R_3R_4R_5}}}
K-LP: \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}
K-HP: 0
              K-BP: 0
               Qz: None
              Wz: None
8.117 LP-117 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_5R_1R_2R_4
                                           H(s) = \frac{C_5 n_1 n_2 n_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s^2 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_4 + C_1 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_4 + C_2 C_6 R_1 R_2 R_4 + C_2 C_6 R_2 R_3 R_4 + C_4 C_6 R_2 R_3 R_4 - C_5 C_6 R_2 R_3 R_4 \right)}
      Parameters:
               \text{Q:} \frac{\sqrt{C_{1}}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{1}R_{2}R_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{1}R_{2}R_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R_{4}+R_{2}R
              wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}
             \frac{\sqrt{C_1C_2N_1N_2N_3N_4 + C_1C_4N_1N_2N_3N_4}}{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4)\sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}}
            K-LP: \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}
K-HP: 0
              K-BP: 0
               Qz: None
              Wz: None
8.118 LP-118 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_3R_1R_2R_4
                                                                                             H(s) = \frac{1}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_4R_5 + C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_1R_5 + C_3C_6R_1R
      Parameters:
           Q: -\frac{\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{2}C_{3}}\sqrt{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}}{C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}}}
wo: \frac{\sqrt{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}}{\sqrt{C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{4}R_{5}}}}
bandwidth: -\frac{C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}}}{\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{2}C_{3}}\sqrt{C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{4}R_{5}}}
             K-LP: -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}
K-HP: 0
              K-BP: 0
                Qz: None
              Wz: None
8.119 LP-119 Z(s) = \begin{pmatrix} \frac{R_1}{C_1 R_1 s + 1}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & \frac{1}{C_4 s}, & R_5, & \frac{1}{C_6 s} \end{pmatrix}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_3R_1R_2
                                                                                                                                               H(s) = \frac{1}{-C_{6}R_{2} + C_{6}R_{5} + s^{2}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{4}C_{6}R_{1}R_{2}R_{5} + C_{2}C_{3}C_{6}R_{1}R_{2}R_{5}\right) + s\left(-C_{1}C_{6}R_{1}R_{2} + C_{1}C_{6}R_{1}R_{5} + C_{3}C_{6}R_{1}R_{5} + C_{3}C_{6}R_{2}R_{5} + C_{4}C_{6}R_{2}R_{5}\right)}
      Parameters:
               Q: -\frac{\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-R_2+R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5}

WO: \frac{\sqrt{-R_2+R_5}}{\sqrt{-R_2+R_5}}
              wo: \frac{\sqrt{C_1C_2R_1R_2R_5 + C_1C_3R_1R_2R_5 + C_2C_3R_1R_2R_5}}{\sqrt{C_1C_2R_1R_2R_5 + C_1C_3R_1R_2R_5 + C_2C_3R_1R_2R_5}} bandwidth: -\frac{C_1R_1R_2 - C_1R_1R_5 - C_2R_2R_5 - C_3R_1R_5 - C_3R_2R_5 - C_4R_2R_5}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{C_1C_2 + C_1C_3 + C_1C_4 + C_2C_3}\sqrt{C_1C_2R_1R_2R_5 + C_1C_3R_1R_2R_5 + C_1C_4R_1R_2R_5 + C_2C_3R_1R_2R_5}}
            K-LP: -\frac{C_3 R_1 R_2}{C_6 R_2 - C_6 R_5}
K-HP: 0
               K-BP: 0
```

Qz: None Wz: None

8.120 LP-120
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)$$

 $C_3R_1R_2R_4$

 $H(s) = \frac{C_3 R_1 R_2 R_4}{-C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s^2 \left(C_1 C_2 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_1 R_2 R_4 R_5 + C_1 C_6 R_1 R_2 R_4 + C_1 C_6 R_1 R_2 R_4 + C_1 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_4 R_5 + C_3 C_6 R_1 R_4 R_5 + C_3 C_6 R_1 R_2 R_4 R_5 + C_4 C_6 R_4 R_5$

Parameters:

 $\begin{aligned} & Q \colon -\frac{\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_2R_4+R_2R_5+R_4R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{\sqrt{-R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_2R_2R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5}} \\ & \text{wo: } \frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_2C_3R_1R_2R_4R_5}} \\ & \text{bandwidth: } -\frac{C_1R_1R_2R_4-C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_2R_4R_5-C_3R_2R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_$

K-BP: 0 Qz: None Wz: None

X-INVALID-NUMER

9.1 X-INVALID-NUMER-1 $Z(s) = \left(R_1, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_5R_1R_2R_4R_5R_6s + R_1R_2R_4R_6$ $H(s) = \frac{-C_5C_6R_2R_3R_4R_5R_6s^2 + R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s\left(-C_5R_2R_3R_4R_5 + C_6R_1R_4R_5R_6 - C_6R_2R_3R_4R_6 + C_6R_2R_3R_5R_6 + C_6R_2R_4R_5R_6 + C_6R_3R_4R_5R_6\right)}{-C_5C_6R_2R_3R_4R_5R_6s^2 + R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + s\left(-C_5R_2R_3R_4R_5 + C_6R_1R_4R_5R_6 - C_6R_2R_3R_4R_6 + C_6R_2R_3R_5R_6 + C_6R_2R_4R_5R_6\right)}$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-R_1}R_4R_5 + R_2R_3R_4 - R_2R_3R_5 - R_2R_4R_5 - R_3R_4R_5}{C_5R_2R_3R_4R_5 - C_6R_1R_4R_5R_6 + C_6R_2R_3R_4R_6 - C_6R_2R_3R_5R_6 - C_6R_2R_4R_5R_6 - C_6R_3R_4R_5R_6}$ wo: $\frac{\sqrt{-R_1}R_4R_5 + R_2R_3R_4 - R_2R_3R_5 - R_2R_4R_5 - R_3R_4R_5}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}$ bandwidth: $\frac{C_5R_2R_3R_4R_5 - C_6R_1R_4R_5R_6 + C_6R_2R_3R_4R_6 - C_6R_2R_3R_5R_6 - C_6R_2R_4R_5R_6 - C_6R_3R_4R_5R_6}{C_5C_6R_2R_3R_4R_5R_6}$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0

 $\text{K-BP:} - \frac{C_5 R_1 R_2 R_4 R_5 R_6}{C_5 R_2 R_3 R_4 R_5 - C_6 R_1 R_4 R_5 R_6 + C_6 R_2 R_3 R_4 R_6 - C_6 R_2 R_3 R_5 R_6 - C_6 R_2 R_4 R_5 R_6 - C_6 R_3 R_4 R_5 R_6}$

Qz: None Wz: None

9.2 X-INVALID-NUMER-2 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_6s + C_5R_1R_2}{C_4C_5C_6R_2R_3R_5s^2 + C_6R_1 + C_6R_2 + C_6R_3 + s\left(C_4C_6R_2R_3 + C_5C_6R_1R_5 - C_5C_6R_2R_3 + C_5C_6R_2R_5 + C_5C_6R_3R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_1+R_2+R_3}}{C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $\frac{C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}{C_4C_5R_2R_3R_5}$

K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: 0

K-BP: $\frac{C_5R_1R_2R_6}{C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ Qz: None

Wz: None

9.3 X-INVALID-NUMER-3 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_5R_1R_2R_5R_6s + R_1R_2R_6$ $\frac{1}{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}+s^{2}\left(C_{4}C_{6}R_{2}R_{3}R_{5}R_{6}-C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}\right)+s\left(C_{4}R_{2}R_{3}R_{5}-C_{5}R_{2}R_{3}R_{5}+C_{6}R_{1}R_{5}R_{6}-C_{6}R_{2}R_{3}R_{6}+C_{6}R_{2}R_{5}R_{6}+C_{6}R_{3}R_{5}R_{6}\right)}$

```
\frac{C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_5}{C_4-C_5}} - \frac{R_2R_3}{C_4-C_5} + \frac{R_2R_5}{C_4-C_5} + \frac{R_3R_5}{C_4-C_5}}{C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_5R_6 + C_6R_3R_5R_6} - C_5\sqrt{R_6}\sqrt{R_6}\sqrt{\frac{R_1R_5}{C_4-C_5}} - \frac{R_2R_3}{C_4-C_5} + \frac{R_2R_5}{C_4-C_5} + \frac{R_3R_5}{C_4-C_5}}{C_4-C_5}
 \text{bandwidth: } \frac{\sqrt{\frac{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5}{C_4C_6R_2R_3R_5R_6 - C_5C_6R_2R_3R_5R_6}}(C_4R_2R_3R_5 - C_5R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_5R_6 + C_6R_3R_5R_6)}{C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_5}{C_4 - C_5}} - \frac{R_2R_3}{C_4 - C_5} + \frac{R_2R_5}{C_4 - C_5} + \frac{R_3R_5}{C_4 - C_5} - C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_5}{C_4 - C_5}} - \frac{R_2R_3}{C_4 - C_5} + \frac{R_3R_5}{C_4 - C_5}
K-LP: \frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}
K-HP: 0
K-BP: \frac{C_5R_1R_2R_5R_6}{C_4R_2R_3R_5-C_5R_2R_3R_5+C_6R_1R_5R_6-C_6R_2R_3R_6+C_6R_2R_5R_6+C_6R_3R_5R_6} Qz: None
 Wz: None
```

9.4 X-INVALID-NUMER-4 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4 R_1 R_2 R_4 R_6 s + R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^2 \left(C_4 C_6 R_1 R_4 R_5 R_6 - C_4 C_6 R_2 R_3 R_4 R_6 + C_4 C_6 R_2 R_3 R_5 R_6 + C_4 C_6 R_2 R_3 R_4 R_5 + C_4 R_2 R_3 R_4 + C_4 R_2 R_3 R_5 + C_4 R_2 R_3 R_5 + C_4 R_2 R_3 R_5 + C_6 R_2 R_3 R_6 + C_6 R_2 R_5 R_6 + C_6 R_2 R_5$

Parameters:

```
\bigcirc \frac{\sqrt{C_4\sqrt{C_6}R_1R_4R_5\sqrt{R_6}}\sqrt{\frac{R_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \frac{R_2R_3}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \frac{R_2R_3}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} - \frac{R_2R_3}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{R_1R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{R_1R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{R_1R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{R_1R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{R_1R_5-R_2R_3R_4+R_2R_3R_5} - \frac{R_2R_3}{
   \frac{1}{\sqrt{C_4\sqrt{C_6}R_1R_4R_5\sqrt{R_6}\sqrt{\frac{R_1R_4}{R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_1R_4R_5\sqrt{R_6}\sqrt{\frac{R_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_4}{R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_4}{R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_4}{R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_4}{R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_4}{R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_4}{R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{\frac{R_1R_4}{R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_6}R_3R_4R_5}-\sqrt{C_4\sqrt{C_6}R_3R_4R_5}}
K-LP: \frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}
K-HP: 0
```

 $\text{K-BP: } \frac{C_4 R_1 R_2 R_4 R_6}{C_4 R_1 R_4 R_5 - C_4 R_2 R_3 R_4 + C_4 R_2 R_3 R_5 + C_4 R_2 R_4 R_5 + C_4 R_3 R_4 R_5 + C_6 R_1 R_5 R_6 - C_6 R_2 R_3 R_6 + C_6 R_2 R_5 R_6 + C_6 R_3 R_5 R_6}$ Qz: None

9.5 X-INVALID-NUMER-5 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s}{-C_4C_5R_2R_3R_4s^2 + R_1 + R_2 + R_3 + s\left(C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3\right)}$

Parameters:

Wz: None

```
Q: -\frac{i\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1+R_2+R_3}}{C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3} wo: \frac{\sqrt{-R_1-R_2-R_3}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}} bandwidth: \frac{i\sqrt{-R_1-R_2-R_3}(C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3)}{C_4C_5R_5R_5R_5R_5\sqrt{R_5+R_5R_5R_5}}
 K-LP: 0
 K-HP: -\frac{R_1R_6}{R_3}
K-BP: \frac{C_5R_1R_2R_6}{C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3} Qz: None
  Wz: None
```

9.6 X-INVALID-NUMER-6 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{-C_4 C_5 C_6 R_2 R_3 R_4 s^2 + C_6 R_1 + C_6 R_2 + C_6 R_3 + s \left(C_4 C_6 R_1 R_4 + C_4 C_6 R_2 R_3 + C_4 C_6 R_2 R_4 + C_4 C_6 R_3 R_4 - C_5 C_6 R_2 R_3\right)}$

Q:
$$-\frac{i\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1+R_2+R_3}}{C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3}$$
 wo:
$$\frac{\sqrt{-R_1-R_2-R_3}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$$
 bandwidth:
$$\frac{i\sqrt{-R_1-R_2-R_3}(C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3)}{C_4C_5R_2R_3R_4\sqrt{R_1+R_2+R_3}}$$
 K-LP:
$$\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$$
 K-HP: 0
K-BP:
$$\frac{C_4C_5R_1R_2R_4}{C_4C_6R_1R_4+C_4C_6R_2R_3+C_4C_6R_2R_4+C_4C_6R_3R_4-C_5C_6R_2R_3}$$

```
Qz: None
Wz: None
```

9.7 X-INVALID-NUMER-7 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^2\left(C_4C_5R_1R_4R_5 - C_4C_5R_2R_3R_4 + C_4C_5R_2R_3R_5 + C_4C_5R_2R_4R_5 + C_4C_5R_3R_4R_5\right) + s\left(C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 + C_5R_1R_5 - C_5R_2R_3 + C_5R_2R_5 + C_5R_3R_5\right)}$

Parameters:

 $Q: \frac{\sqrt{C_4}\sqrt{C_5}R_1R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_3R_4\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_3R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_4R_5+R_3R_4R_5}}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_3R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_3R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_3R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_3R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_3R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_3R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_4 C_5 R_1 R_4 R_5 - C_4 C_5 R_2 R_3 R_4 + C_4 C_5 R_2 R_3 R_5 + C_4 C_5 R_2 R_4 R_5 + C_4 C_5 R_3 R_4 R_5}$

 $\sqrt{R_1 + R_2 + R_3} (C_4 R_1 R_4 + C_4 R_2 R_3 + C_4 R_2 R_4 + C_4 R_3 R_4 + C_5 R_1 R_5 - C_5 R_2 R_3 + C_5 R_2 R_5 + C_5 R_3 R_5) \sqrt{\frac{C_4 C_5 R_1 R_4 R_5 - C_4 C_5 R_2 R_3 R_4 + C_4 C_5 R_2 R_4 R_5 + C_4 C_5 R_3 R_4 R_5}{C_4 C_5 R_2 R_3 R_4 + C_4 R_3 R_4 + C_5 R_3 R_4 + C_5 R_3 R_4 R_5}}$

 $\frac{\sqrt{C_4\sqrt{C_5}R_1R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2+R_3R_4R_5}}-\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4R_5+R_3R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_4R_5}+\sqrt{C_4\sqrt{C_5}R_3R_4+R_5R_5}+\sqrt{C_4\sqrt{C_5}R_5R_5}+\sqrt{C_4\sqrt{C_5}R_5R_5}+\sqrt{C_4\sqrt{C_5}R_5R_5}+\sqrt{C_4\sqrt{C_5}R_5R_5}+\sqrt{C_4\sqrt{C_5}R_5R_5}+\sqrt{C_4\sqrt{C_5}R_5}+\sqrt{C_4\sqrt{C_5}R_5}+\sqrt{C_4\sqrt{C_5}R_5}+\sqrt{C_4\sqrt{C_5}R_5}$

K-LP: 0

K-HP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP: } \frac{C_5R_1R_2R_6}{C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5} \\ \text{Qz: None}$

Wz: None

9.8 X-INVALID-NUMER-8 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_4C_5C_6R_1R_4R_5 - C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_4R_5 + C_4C_5C_6R_3R_4R_5\right) + s\left(C_4C_6R_1R_4 + C_4C_6R_2R_4 + C_4C_6R_3R_4 + C_5C_6R_1R_5 - C_5C_6R_2R_3 + C_5C_6R_2R_5 + C_5C_6R_3R_5\right)}$

Parameters:

 $Q: \frac{\sqrt{C_4}\sqrt{C_5}R_1R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}\sqrt{C_5}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}\sqrt{C_5}R_3R_4+R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}\sqrt{C_5}R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_4 C_5 R_1 R_4 R_5 - C_4 C_5 R_2 R_3 R_4 + C_4 C_5 R_2 R_3 R_5 + C_4 C_5 R_2 R_4 R_5 + C_4 C_5 R_3 R_4 R_5}$

 $\frac{\sqrt{R_1 + R_2 + R_3}(C_4 R_1 R_4 + C_4 R_2 R_3 + C_4 R_2 R_4 + C_4 R_3 R_4 + C_5 R_1 R_5 - C_5 R_2 R_3 + C_5 R_3 R_5)\sqrt{\frac{1}{C_4 C_5 R_1 R_4 R_5 - C_4 C_5 R_2 R_3 R_4 + C_4 C_5 R_2 R_4 R_5 + C_4 C_5 R_4$

K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: 0

 $\text{K-BP: } \frac{C_4C_5R_1R_2R_4}{C_4C_6R_1R_4 + C_4C_6R_2R_3 + C_4C_6R_2R_4 + C_4C_6R_3R_4 + C_5C_6R_1R_5 - C_5C_6R_2R_3 + C_5C_6R_2R_5 + C_5C_6R_3R_5}$

Qz: None Wz: None

9.9 X-INVALID-NUMER-9 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_4C_5C_6R_2R_3R_4R_5s^2 + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_4C_6R_2R_3R_4 + C_5C_6R_1R_4R_5 - C_5C_6R_2R_3R_4 + C_5C_6R_2R_3R_5 + C_5C_6R_2R_4R_5 + C_5C_6R_3R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{C_4C_5R_2R_3R_4R_5}$

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: 0

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_4R_2R_3R_4 + C_5R_1R_4R_5 - C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_4R_5 + C_5R_3R_4R_5}$

Qz: None Wz: None **9.10** X-INVALID-NUMER-10 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_5R_1R_2R_4R_5R_6s + R_1R_2R_4R_6$

 $H(s) = \frac{c_5 n_1 n_2 n_4 n_5 n_6 s + n_1 n_2 n_4 n_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s^2 \left(C_4 C_6 R_2 R_3 R_4 R_5 R_6 - C_5 C_6 R_2 R_3 R_4 R_5 - C_5 R_2 R_3 R_4 R_5 + C_6 R_1 R_4 R_5 R_6 - C_6 R_2 R_3 R_4 R_6 + C_6 R_2 R_3 R_4 R_5 + C_6 R_2 R_$

Parameters:

 $\frac{\sqrt{\frac{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{C_{4}C_{6}R_{2}R_{3}R_{4}R_{5}R_{6}-C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}R_{6}}}(C_{4}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{2}R_{3}R_{4}R_{5}+C_{6}R_{1}R_{4}R_{5}R_{6}-C_{6}R_{2}R_{3}R_{4}R_{6}+C_{6}R_{2}R_{4}R_{5}R_{6}+C_{6}R_{2}R_{4}R_{5}R_{6}+C_{6}R_{3}R_{4}R_{5}R_{6}})}{C_{4}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{4}-C_{5}}+\frac{R_{2}R_{3}R_{5}}{C_{4}-C_{5}}+\frac{R_{2}R_{4}R_{5}}{C_{4}-C_{5}}+\frac{R_{3}R_{4}R_{5}}{C_{4}-C_{5}}-C_{5}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{4}-C_{5}}+\frac{R_{2}R_{3}R_{5}}{C_{4}-C_{5}}+\frac{R_{3}R_{4}R_{5}}{C_{4}-C_{5}}+\frac{R_{3}R_{4}R_{5}}{C_{4}-C_{5}}}$

K-BP: $\frac{C_5R_1R_2R_4R_5R_6}{C_4R_2R_3R_4R_5-C_5R_2R_3R_4R_5+C_6R_1R_4R_5R_6-C_6R_2R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6}$ Qz: None

Wz: None

9.11 X-INVALID-NUMER-11 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4 + C_5C_6R_2R_5 + C_5C_6R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{R_2+R_4}}{C_3R_1R_4+C_3R_2R_4-C_5R_2R_4+C_5R_2R_5+C_5R_4R_5}$ wo: $\frac{\sqrt{R_2+R_4}}{\sqrt{C_3C_5R_1R_4R_5+C_3C_5R_2R_4R_5}}$ bandwidth: $\frac{C_3R_1R_4+C_3R_2R_4-C_5R_2R_4+C_5R_2R_5+C_5R_4R_5}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3C_5R_1R_4R_5+C_3C_5R_2R_4R_5}}$ W. I.B. 0

K-LP: 0

K-HP: $\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4+C_3C_6R_2R_4-C_5C_6R_2R_4+C_5C_6R_2R_5+C_5C_6R_4R_5}$ Qz: None

Wz: None

9.12 X-INVALID-NUMER-12 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_3C_6R_1R_4R_5R_6 + C_3C_6R_2R_4R_5R_6 - C_5C_6R_2R_4R_5R_6\right) + s\left(C_3R_1R_4R_5 + C_3R_2R_4R_5 - C_5R_2R_4R_5 - C_6R_2R_4R_6 + C_6R_2R_5R_6 + C_6R_4R_5R_6\right)}$

Parameters:

 $\frac{C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2-C_5R_2}} + \frac{R_2R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2}}{+C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2-C_5R_2}} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2}} - C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2-C_5R_2}} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2}} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2}}{-C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2-C_5R_2}} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2}} + \frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2} +$

 $\frac{-R_2R_4+R_2R_5+R_4R_5}{\sqrt{C_3C_6R_1R_4R_5R_6+C_3C_6R_2R_4R_5+C_6R_2R_4R_5-C_5R_2R_4R_5-C_5R_2R_4R_5-C_6R_2R_4R_6+C_6R_2R_5R_6+C_6R_4R_5R_6)}}{C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2-C_5R_2}+\frac{R_4R_5}{C_3R_1+C_3R_2-C_5R_2}+C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2-C_5R_2}+\frac{R_4R_5}{C$

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}$ K-BP: $\frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5+C_3R_2R_4R_5-C_5R_2R_4R_5-C_6R_2R_4R_6+C_6R_2R_5R_6+C_6R_4R_5R_6}$ Qz: None

Wz: None

9.13 X-INVALID-NUMER-13 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_6 + s^2\left(C_3C_5C_6R_1R_5 + C_3C_5C_6R_2R_5 + C_4C_5C_6R_2R_5\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2 + C_5C_6R_5\right)}$

wo: $\frac{1}{\sqrt{C_3C_5R_1R_5 + C_3C_5R_2R_5 + C_4C_5R_2R_5}}$ bandwidth: $\frac{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_5R_5}{\sqrt{C_5}\sqrt{R_5}\sqrt{C_3R_1 + C_3R_2 + C_4R_2}\sqrt{C_3C_5R_1R_5 + C_3C_5R_2R_5 + C_4C_5R_2R_5}}$

K-HP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ K-BP: $\frac{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2+C_5C_6R_5}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2+C_5C_6R_5}$ Qz: None

Wz: None

9.14 X-INVALID-NUMER-14 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^2\left(C_3C_6R_1R_5R_6 + C_3C_6R_2R_5R_6 + C_4C_6R_2R_5R_6 - C_5C_6R_2R_5R_6\right) + s\left(C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5 - C_5R_2R_5 - C_6R_2R_6 + C_6R_5R_6\right)}$$

Parameters:

 $Q: \frac{C_3\sqrt{C_6}R_1\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{R_5$

Wo: $\sqrt{\frac{-R_2+R_5}{C_3C_6R_1R_5R_6+C_3C_6R_2R_5R_6+C_4C_6R_2R_5R_6-C_5C_6R_2R_5R_6}}$

 $\frac{-R_2 + R_5}{\sqrt{C_3 C_6 R_1 R_5 R_6 + C_3 C_6 R_2 R_5 R_6}} (C_3 R_1 R_5 + C_3 R_2 R_5 + C_4 R_2 R_5 - C_5 R_2 R_5 - C_6 R_2 R_6 + C_6 R_5 R_6)}{C_3 \sqrt{C_6 R_1} \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_3 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_4 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_4 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_4 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + C_5 \sqrt{C_6} R_2 \sqrt{R_5} \sqrt{R_6} \sqrt{-\frac{R_$

K-LP: 0

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ K-BP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5-C_5R_2R_5-C_6R_2R_6+C_6R_5R_6}$ Qz: None

Wz: None

9.15 X-INVALID-NUMER-15 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^2\left(C_3C_4R_1R_4R_5 + C_3C_4R_2R_4R_5\right) + s\left(C_3R_1R_5 + C_3R_2R_5 - C_4R_2R_4 + C_4R_2R_5 + C_4R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{-R_2+R_5}}{C_3R_1R_5+C_3R_2R_5-C_4R_2R_4+C_4R_2R_5+C_4R_4R_5}$ wo: $\frac{\sqrt{-R_2+R_5}}{\sqrt{C_3C_4R_1R_4R_5+C_3C_4R_2R_4R_5}}$ bandwidth: $\frac{C_3R_1R_5+C_3R_2R_5-C_4R_2R_4+C_4R_2R_5+C_4R_4R_5}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3C_4R_1R_4R_5+C_3C_4R_2R_4R_5}}$ V. I.D. 0

K-HP: $\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$

K-BP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5-C_4R_2R_4+C_4R_2R_5+C_4R_4R_5}$ Qz: None

Wz: None

9.16 X-INVALID-NUMER-16 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4R_1R_2R_4s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^2\left(C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_5 + C_3C_6R_2R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_4R_5\right)}$$

Parameters:

wo: $\frac{1}{\sqrt{C_3C_4R_1R_4R_5+C_3C_4R_2R_4R_5}}$ bandwidth: $\frac{C_3R_1R_5+C_3R_2R_5-C_4R_2R_4+C_4R_2R_5+C_4R_4R_5}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3C_4R_1R_4R_5+C_3C_4R_2R_4R_5}}$

K-LP: $-\frac{C_3R_1R_2}{C_6R_2-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3C_4R_1R_2R_4}{C_3C_6R_1R_5 + C_3C_6R_2R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_4R_5}$

Qz: None Wz: None

9.17 X-INVALID-NUMER-17 $Z(s) = \left(R_1, R_2, \frac{1}{C_{3s}}, R_4 + \frac{1}{C_{4s}}, \frac{1}{C_{5s}}, \frac{1}{C_{6s}}\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{C_6 + s^2\left(C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_4 - C_4C_5C_6R_2R_4\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 + C_4C_6R_4 - C_5C_6R_2\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{C_3\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}+C_3\sqrt{C_4}R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-\sqrt{C_4}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}}{C_3R_1+C_3R_2+C_4R_2+C_4R_4-C_5R_2}\\ \text{wo: } \sqrt{\frac{1}{C_3C_4R_1R_4+C_3C_4R_2R_4-C_4C_5R_2R_4}}\\ \text{bandwidth: } \frac{(C_3R_1+C_3R_2+C_4R_2+C_4R_4-C_5R_2)\sqrt{\frac{1}{C_3C_4R_1R_4+C_3C_4R_2R_4-C_4C_5R_2R_4}}}{C_3\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}+C_3\sqrt{C_4}R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-\sqrt{C_4}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}}\\ \text{K-BP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2+C_4C_6R_4-C_5C_6R_2}}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

9.18 X-INVALID-NUMER-18 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4R_5 + C_4C_5C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4 + C_5C_6R_2$$

Parameters:

```
K-HP: \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5} K-BP: \frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4+C_3C_6R_2R_4+C_4C_6R_2R_4-C_5C_6R_2R_4+C_5C_6R_2R_5+C_5C_6R_4R_5} Qz: None
 Wz: None
```

9.19 X-INVALID-NUMER-19 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_3C_6R_1R_4R_5R_6 + C_3C_6R_2R_4R_5R_6 - C_5C_6R_2R_4R_5R_6\right) + s\left(C_3R_1R_4R_5 + C_4R_2R_4R_5 - C_5R_2R_4R_5 - C_6R_2R_4R_6 + C_6R_2R_5R_6 + C_6R_4R_5R_6\right)}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_3C_6R_1R_4R_5R_6 + C_4C_6R_2R_4R_5R_6 - C_5C_6R_2R_4R_5R_6\right) + s\left(C_3R_1R_4R_5 + C_4R_2R_4R_5 - C_5R_2R_4R_5 - C_6R_2R_4R_5 + C_6R_2R_4R_5R_6\right)}$

Parameters:

$$Q: \frac{C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{R_2R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_3R_1+C_3R_2+C_4R_2-C_5R_2} + C_3R_1+C_3$$

 $\begin{array}{l} \text{K-HP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} \\ \text{K-BP: } \frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5+C_3R_2R_4R_5+C_4R_2R_4R_5-C_5R_2R_4R_5-C_6R_2R_4R_6+C_6R_2R_5R_6+C_6R_4R_5R_6} \\ \text{Qz: None} \end{array}$

Wz: None

9.20 X-INVALID-NUMER-20 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{-C_3C_5C_6R_2R_3R_4s^2 + C_6R_2 + C_6R_4 + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_3R_4 - C_5C_6R_2R_4\right)}$$

Q: $-\frac{i\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}}{C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4-C_5R_2R_4}$ bandwidth: $\frac{i\sqrt{-R_2-R_4}(C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4-C_5R_2R_4)}{i\sqrt{-R_2-R_4}(C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4+C_5R_2R_4)}$

K-LP: 0 K-HP: $-\frac{R_1R_6}{R_3}$

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_3R_4 - C_5C_6R_2R_4}$ Qz: None

Wz: None

9.21 X-INVALID-NUMER-21 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s$ $H(s) = \frac{1}{C_{6}R_{2} + C_{6}R_{4} + s^{2}\left(C_{3}C_{5}C_{6}R_{1}R_{4}R_{5} - C_{3}C_{5}C_{6}R_{2}R_{3}R_{4} + C_{3}C_{5}C_{6}R_{2}R_{3}R_{5} + C_{3}C_{5}C_{6}R_{2}R_{4}R_{5} + C_{3}C_{5}C_{6}R_{3}R_{4}R_{5}\right) + s\left(C_{3}C_{6}R_{1}R_{4} + C_{3}C_{6}R_{2}R_{3} + C_{3}C_{6}R_{2}R_{4} + C_{5}C_{6}R_{2}R_{4} + C_{5}C_{6}R_$

Parameters:

 $Q: \frac{\sqrt{C_3}\sqrt{C_5}R_1R_4R_5\sqrt{R_2} + R_4}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5} - \sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2} + R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R_2}} + \sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{R$

wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_3 C_5 R_1 R_4 R_5 - C_3 C_5 R_2 R_3 R_4 + C_3 C_5 R_2 R_3 R_5 + C_3 C_5 R_2 R_4 R_5 + C_3 C_5 R_3 R_4 R_5}$

K-LP: 0

K-HP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP: } \frac{C_3C_5R_1R_2R_4}{C_3C_6R_2R_4+C_3C_6R_2R_4+C_5C_6R_2R_4+C_5C_6R_2R_5+C_5C_6R_4R_5} \\ \text{Qz: None}$

Wz: None

9.22 X-INVALID-NUMER-22 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s$ $H(s) = \frac{-3.534122433535 + 3.44253}{-C_3C_5R_2R_3R_4R_5s^2 - R_2R_4 + R_2R_5 + R_4R_5 + s\left(C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 - C_5R_2R_4R_5\right)}$

Parameters:

 $\begin{array}{l} \text{Q:} & -\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_2R_4-R_2R_5-R_4R_5}}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5-C_5R_2R_4R_5} \\ \text{wo:} & \frac{\sqrt{R_2R_4-R_2R_5-R_4R_5}}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}} \\ \text{bandwidth:} & -\frac{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5-C_5R_2R_4R_5}{C_3C_5R_2R_3R_4R_5} \\ \text{W. I.B. 0} \end{array}$

K-LP: 0 K-HP: $-\frac{R_1R_6}{R_2}$

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5-C_5R_2R_4R_5}$ Qz: None

Wz: None

9.23 X-INVALID-NUMER-23 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4$ $H(s) = \frac{-C_3C_5C_6R_2R_3R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_2R_4R_5 - C_5C_6R_2R_4R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_2R_4R_5 - C_3C_6R_3R_4R_5 - C_3C_6R_5R_5R_5 - C_3C_6R_5R_5R_5 - C_3C_6R_5R_5 - C_3C_6R_5R_5 - C_3C_6R_5R_5 - C_3C_6R_5R_5 - C_3C_6R_5R_5 - C_3$

Parameters:

Q: $-\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_2}R_4 - R_2R_5 - R_4R_5}{C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 - C_5R_2R_4R_5}$ wo: $\frac{\sqrt{R_2R_4 - R_2R_5 - R_4R_5}}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $-\frac{C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 - C_5R_2R_4R_5}{C_3C_5R_2R_3R_4R_5}$

K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$

K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_1R_2R_4R_5}{C_3C_6R_1R_4R_5-C_3C_6R_2R_3R_4+C_3C_6R_2R_3R_5+C_3C_6R_2R_4R_5+C_3C_6R_3R_4R_5-C_5C_6R_2R_4R_5}$

Qz: None Wz: None

9.24 X-INVALID-NUMER-24 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_6s + C_3R_1R_2}{C_3C_4C_6R_2R_3R_5s^2 - C_6R_2 + C_6R_5 + s\left(C_3C_6R_1R_5 - C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_3R_5 + C_4C_6R_2R_5\right)}$$

Parameters:

 $\begin{array}{l} \text{Q: } \frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-R_2+R_5}}{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5}\\ \text{wo: } \frac{\sqrt{-R_2+R_5}}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}\\ \text{bandwidth: } \frac{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5}{C_3C_4R_2R_3R_5}\\ \text{K-LP: } -\frac{C_3R_1R_2}{C_6R_2-C_6R_5}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_3R_1R_2+C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5}{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5}\\ \text{Qz: None} \end{array}$

9.25 X-INVALID-NUMER-25 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_6 + s^2\left(C_3C_4C_6R_2R_3 - C_3C_5C_6R_2R_3\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2\right)}$$

Parameters:

Wz: None

 $\begin{array}{l} Q\colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{C_3R_1+C_3R_2+C_3R_3+C_4R_2-C_5R_2}\\ \text{wo: } \sqrt{\frac{1}{C_3C_4R_2R_3-C_3C_5R_2R_3}}\\ \text{bandwidth: } \frac{(C_3R_1+C_3R_2+C_3R_3+C_4R_2-C_5R_2)\sqrt{\frac{1}{C_3C_4R_2R_3-C_3C_5R_2R_3}}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_3-C_5R_3}\\ \text{K-BP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_3C_6R_3+C_4C_6R_2-C_5C_6R_2}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$

9.26 X-INVALID-NUMER-26 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^2\left(C_3C_4R_2R_3R_5 - C_3C_5R_2R_3R_5\right) + s\left(C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_4R_2R_5 - C_5R_2R_5\right)}$$

Parameters:

 $\begin{array}{l} Q\colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}}{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5-C_5R_2R_5}\\ \text{wo: } \sqrt{\frac{-R_2+R_5}{C_3C_4R_2R_3R_5-C_3C_5R_2R_3R_5}}\\ \text{bandwidth: } \frac{\frac{-R_2+R_5}{C_3C_4R_2R_3R_5-C_3C_5R_2R_3R_5}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_3-C_5R_3}\\ \text{K-BP: } \frac{C_3R_1R_2R_6}{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5-C_5R_2R_5}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$

9.27 X-INVALID-NUMER-27
$$Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_5s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^2\left(C_3C_4C_6R_2R_3R_5 - C_3C_5C_6R_2R_3R_5\right) + s\left(C_3C_6R_1R_5 - C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_3R_5 + C_4C_6R_2R_5 - C_5C_6R_2R_5\right)}$$

Q: $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}}{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5-C_5R_2R_5}$ bandwidth: $\frac{\sqrt{\frac{-R_2+R_5}{C_3C_4R_2R_3R_5-C_3C_5R_2R_3R_5}}(C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5-C_5R_2R_5)}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}}$ K-LP: $-\frac{C_3R_1R_2}{C_6R_2-C_6R_5}$ K-HP: 0 K-BP: $\frac{C_3C_5R_1R_2R_5}{C_3C_6R_1R_5-C_3C_6R_2R_3+C_3C_6R_2R_5+C_3C_6R_3R_5+C_4C_6R_2R_5-C_5C_6R_2R_5}$ Qz: None Wz: None

9.28 X-INVALID-NUMER-28 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s$ $H(s) = \frac{C_3C_4R_1R_2R_4R_6s + C_3R_1R_2R_6s}{-R_2 + R_5 + s^2\left(C_3C_4R_1R_4R_5 - C_3C_4R_2R_3R_4 + C_3C_4R_2R_3R_5 + C_3C_4R_2R_4R_5 + C_3C_4R_3R_4R_5\right) + s\left(C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 - C_4R_2R_4 + C_4R_2R_5 + C_4R_4R_5\right)}$

Parameters:

 $Q \colon \frac{\sqrt{C_3}\sqrt{C_4}R_1R_4R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_4 - \frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5 - \frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} + \frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_5} + \frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} + \frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} + \frac{R_2}{R$ Wo: $\sqrt{\frac{-R_2+R_5}{C_3C_4R_1R_4R_5-C_3C_4R_2R_3R_4+C_3C_4R_2R_3R_5+C_3C_4R_2R_4R_5+C_3C_4R_3R_4R_5}}$ $\frac{\sqrt{C_3}\sqrt{C_4}R_1R_4R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4}+\frac{R_2}{R_1R_4R_5-R_2R_3R_4}+\frac{R_2}{R_1R_4R_5$

 $\begin{array}{l} \text{K-HP:} \ \, \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP:} \ \, \frac{C_3R_1R_2R_6}{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5-C_4R_2R_4+C_4R_2R_5+C_4R_4R_5} \\ \text{Qz:} \ \, \text{None} \end{array}$

Wz: None

9.29 X-INVALID-NUMER-29 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $C_3C_4R_1R_2R_4s + C_3R_1R_2$ $H(s) = \frac{-C_6R_2 + C_6R_5 + s^2\left(C_3C_4C_6R_1R_4R_5 - C_3C_4C_6R_2R_3R_4 + C_3C_4C_6R_2R_3R_5 + C_3C_4C_6R_2R_4R_5 + C_3C_4C_6R_3R_4R_5\right) + s\left(C_3C_6R_1R_5 - C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_$

Parameters:

 $Q: \frac{\sqrt{C_3}\sqrt{C_4}R_1R_4R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_3R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_3R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_$ Wo: $\sqrt{\frac{-R_2+R_5}{C_3C_4R_1R_4R_5-C_3C_4R_2R_3R_4+C_3C_4R_2R_3R_5+C_3C_4R_2R_4R_5+C_3C_4R_3R_4R_5}}$

 $\frac{R_2}{\sqrt{C_3}\sqrt{C_4}R_1R_4R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4} + \frac{R_5}{R_1R_$

K-HP: 0

K-BP: $\frac{C_3C_4R_1R_2R_4}{C_3C_6R_1R_5-C_3C_6R_2R_3+C_3C_6R_2R_5+C_3C_6R_3R_5-C_4C_6R_2R_4+C_4C_6R_2R_5+C_4C_6R_4R_5}$ Qz: None

9.30 X-INVALID-NUMER-30
$$Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{C_3C_4C_6R_2R_3R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_5R_5 + C_3C_6R_5 + C_3C_6R_5$$

Q: $\frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5}{C_3C_4R_2R_3R_4R_5}$

K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 + C_4R_2R_4R_5}$

Wz: None

9.31 X-INVALID-NUMER-31 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_3C_4C_6R_2R_3R_4 - C_3C_5C_6R_2R_3R_4\right) + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_3R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

Parameters:

 $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_4-C_5}}}{C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4+C_4R_2R_4-C_5R_2R_4}$

wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_3 C_4 R_2 R_3 R_4 - C_3 C_5 R_2 R_3 R_4}}$

bandwidth: $\frac{\sqrt{R_2 + R_4}(C_3 R_1 R_4 + C_3 R_2 R_3 + C_3 R_2 R_4 + C_3 R_3 R_4 + C_4 R_2 R_4 - C_5 R_2 R_4) \sqrt{\frac{1}{C_3 C_4 R_2 R_3 R_4 - C_3 C_5 R_2 R_3 R_4}}}{\sqrt{C_3 C_4 \sqrt{R_2} \sqrt{R_3} \sqrt{R_4} \sqrt{R_2 + R_4}} \sqrt{\frac{1}{C_4 - C_5}} - \sqrt{C_3 C_5 \sqrt{R_2} \sqrt{R_3} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_4 - C_5}}}$

K-LP: 0

K-HP: $\frac{C_5 R_1 R_6}{C_4 R_3 - C_5 R_3}$

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_3R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4}$

Qz: None

Wz: None

9.32 X-INVALID-NUMER-32 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_3C_4R_2R_3R_4R_5 - C_3C_5R_2R_3R_4R_5\right) + s\left(C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 + C_4R_2R_4R_5 - C_5R_2R_4R_5\right)}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_3C_4R_2R_3R_4R_5 - C_3C_5R_2R_3R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 + C_4R_2R_4R_5 - C_5R_2R_4R_5\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_4R_2R_4R_5-C_5R_2R_4R_5}$$

 $\sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_3C_4R_2R_3R_4R_5-C_3C_5R_2R_3R_4R_5}}(C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5-C_5R_2R_4R_5)$ bandwidth:

 $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}$

K-LP: 0

K-HP: $\frac{C_5 R_1 R_6}{C_4 R_3 - C_5 R_3}$

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5-C_5R_2R_4R_5}{\rm Qz.\ None}$

Wz: None

9.33 X-INVALID-NUMER-33 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_3C_4C_6R_2R_3R_4R_5 - C_3C_5C_6R_2R_3R_4R_5\right) + s\left(C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_2R_4R_5\right)}$$

```
Q \colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5-C_5R_2R_4R_5}
          \frac{\sqrt{C_3C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}-\sqrt{C_3C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}}{\sqrt{R_3C_4\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}}}
          K-HP: 0
          \begin{array}{l} \text{K-BP:} \ \frac{C_3C_5R_1R_2R_4R_5}{C_3C_6R_1R_4R_5-C_3C_6R_2R_3R_4+C_3C_6R_2R_3R_5+C_3C_6R_2R_4R_5+C_3C_6R_3R_4R_5+C_4C_6R_2R_4R_5-C_5C_6R_2R_4R_5} \\ \text{Qz: None} \end{array} 
          Wz: None
9.34 X-INVALID-NUMER-34 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                 C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6
                                            H(s) = \frac{C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s^2\left(C_3C_6R_1R_3R_4R_5R_6 + C_3C_6R_2R_3R_4R_5 + C_3R_1R_3R_4R_5 + C_6R_1R_4R_5R_6 - C_6R_2R_3R_4R_6 + C_6R_2R_3R_5R_6 + C_6R_2R_4R_5R_6 + C_6R_3R_4R_5R_6\right)}
    Parameters:
        \begin{array}{l} \text{Q:} \ \frac{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_2}\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{C_3R_1R_3R_4R_5+C_3R_2R_3R_4R_5+C_6R_1R_4R_5R_6-C_6R_2R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6} \\ \text{wo:} \ \frac{\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_3C_6R_1R_3R_4R_5R_6+C_3C_6R_2R_3R_4R_5R_6}} \\ \text{bandwidth:} \ \frac{C_3R_1R_3R_4R_5+C_3R_2R_3R_4R_5+C_6R_1R_4R_5R_6-C_6R_2R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6}}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_2}\sqrt{C_3}C_6R_1R_3R_4R_5R_6+C_6R_2R_3R_4R_5R_6}} \\ \text{K-LP:} \ \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{R_1R_4R_5-R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-HP:} \ 0 \end{array}
          \text{K-BP:} \ \frac{C_3R_1R_2R_3R_4R_6}{C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 + C_6R_1R_4R_5R_6 - C_6R_2R_3R_4R_6 + C_6R_2R_3R_5R_6 + C_6R_2R_4R_5R_6 + C_6R_3R_4R_5R_6} 
            Qz: None
            Wz: None
9.35 X-INVALID-NUMER-35 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
                                                                                         H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_3C_6R_1R_3R_4R_6 + C_3C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6\right) + s\left(C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4 + C_6R_1R_4R_6 + C_6R_2R_3R_6 + C_6R_2R_4R_6 + C_6R_3R_4R_6\right)}
     Parameters:
                    \frac{C_3\sqrt{C_6}R_1\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}+C_3\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2R_3+R_4+R_3}-C_6\sqrt{R_1R_4+R_2R_3+R_4+R_3}-C_6\sqrt{R_1R_4+R_2R_3+R_4+R_3}-C_6\sqrt{R_1R_4+R_3}-C_6\sqrt{R_1R_4+R_3}-C_6\sqrt{R_1R_4+R_3}-C_6\sqrt{
         wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3C_6R_1R_3R_4R_6 + C_5C_6R_2R_3R_4R_6}}

\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_3R_1R_3R_4 + C_5R_2R_3R_4 + C_6R_1R_4R_6 + C_6R_2R_3R_6 + C_6R_2R_4R_6 + C_6R_3R_4R_6)}\sqrt{\frac{1}{C_3C_6R_1R_3R_4R_6 + C_5C_6R_2R_3R_4R_6}}
         \frac{\sqrt{\sqrt{3}\sqrt{6}R_{1}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}+C_{3}\sqrt{C_{6}}R_{2}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}-C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}
          K-LP: 0
         K-HP: \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}
         K-BP: \frac{C_5R_1R_2R_4R_6}{C_3R_1R_3R_4+C_3R_2R_3R_4-C_5R_2R_3R_4+C_6R_1R_4R_6+C_6R_2R_3R_6+C_6R_2R_4R_6+C_6R_3R_4R_6} Qz: None
          Wz: None
9.36 X-INVALID-NUMER-36 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                                                       H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_3C_5R_1R_3R_4R_5 + C_3C_5R_2R_3R_4R_5\right) + s\left(C_3R_1R_3R_4 + C_5R_1R_4R_5 - C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_4R_5 + C_5R_3R_4R_5\right)}
     Parameters:
        Q: \frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_3R_1R_3R_4+C_3R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5} wo: \frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_3C_5R_1R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}}{\sqrt{C_3\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3C_5R_1R_3R_4R_5+C_5R_2R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_4R_5}}} bandwidth: \frac{C_3R_1R_3R_4+C_3R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{\sqrt{C_3\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3C_5R_1R_3R_4R_5+C_3C_5R_2R_3R_4R_5}}} W. I.P. 0
```

K-LP: 0

K-HP: $\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$

K-BP: $\frac{C_5 R_1 R_2 R_4 R_6}{C_3 R_1 R_3 R_4 + C_3 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5}$

Qz: None Wz: None

9.37 X-INVALID-NUMER-37
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

 $C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4$

 $H(s) = \frac{1}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_2R_3R_4 + C_5C_6R_2R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_$

Parameters:

Q: $\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_3R_1R_3R_4+C_3R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_3C_5R_1R_3R_4R_5+C_3C_5R_2R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}}$ bandwidth: $\frac{C_3R_1R_3R_4+C_3R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3C_5R_1R_3R_4R_5+C_3C_5R_2R_3R_4R_5}}}$ K-LP: $\frac{C_5R_1R_2R_4}{C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_3R_4}{C_3C_6R_1R_3R_4+C_5C_6R_2R_3R_4+C_5C_6R_1R_4R_5-C_5C_6R_2R_3R_4+C_5C_6R_2R_3R_5+C_5C_6R_2R_4R_5+C_5C_6R_3R_4R_5}$ Qz: None

Wz: None

9.38 X-INVALID-NUMER-38 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3R_1R_2R_3R_6s + R_1R_2R_6}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_3C_6R_1R_3R_5R_6 + C_3C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_5R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_5R_6 + C_6R_3R_5R_6\right)}$

Parameters:

Q: $\frac{\sqrt{C_6}\sqrt{R_3}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_2R_3+R_5+R_3R_5}$ wo: $\frac{\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{\sqrt{C_3C_6R_1R_3R_5R_6+C_3C_6R_2R_3R_5+C_4C_6R_2R_3R_5+C_6}}$ bandwidth: $\frac{C_3R_1R_3R_5+C_3C_6R_2R_3R_5+C_4C_6R_2R_3R_5+C_6R_1R_5R_6-C_6R_2R_3R_6+C_6R_2R_5R_6+C_6R_3R_5R_6}{\sqrt{C_6}\sqrt{R_3}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_3C_6R_1R_3R_5R_6+C_3C_6R_2R_3R_5+C_4C_6R_2R_3R_5+C_6R_2R_3R_5+C_4C_6R_2R_3R_5+C_6R_2R_3R_5R_6}}$ K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: 0

 $\text{K-BP: } \frac{C_3R_1R_2R_3R_6}{C_3R_1R_3R_5 + C_3R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_5R_6 + C_6R_3R_5R_6}$

Qz: None

Wz: None

9.39 X-INVALID-NUMER-39 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^2\left(C_3C_6R_1R_3R_6 + C_3C_6R_2R_3R_6 + C_4C_6R_2R_3R_6 - C_5C_6R_2R_3R_6\right) + s\left(C_3R_1R_3 + C_4R_2R_3 - C_5R_2R_3 + C_6R_1R_6 + C_6R_2R_6 + C_6R_3R_6\right)}$

Parameters:

 $\frac{C_3\sqrt{C_6}R_1\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_3\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_4\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} - C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} \\ - C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3+C_6R_1R_6+C_6R_2R_6+C_6R_3R_6$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 C_6 R_1 R_3 R_6 + C_3 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6}}$

 $\sqrt{R_1 + R_2 + R_3} (C_3 R_1 R_3 + C_3 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_3 R_6) \sqrt{\frac{1}{C_3 C_6 R_1 R_3 R_6 + C_3 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6}}$

 $\frac{\text{bandwidth:}}{C_3\sqrt{C_6}R_1\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_3\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_4\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_4\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+C_3R_2+C_4R_2-C_5R_2}} + C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+C_3R_2+C_4R_2-C_5R_2}} + C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_6}\sqrt{R_1+C_3R_2+C_4R_2-C_5R_2}} + C_5\sqrt{C_6}R_2\sqrt{$

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ K-BP: $\frac{C_5R_1R_2R_6}{C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3+C_6R_1R_6+C_6R_2R_6+C_6R_3R_6}$ Qz: None

9.40 X-INVALID-NUMER-40
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^2\left(C_3C_5R_1R_3R_5 + C_3C_5R_2R_3R_5 + C_4C_5R_2R_3R_5\right) + s\left(C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 + C_5R_1R_5 - C_5R_2R_3 + C_5R_2R_5 + C_5R_3R_5\right)}$$

Q: $\frac{\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}\sqrt{R_1+R_2+R_3}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_3R_1R_3+C_3R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_3C_5R_1R_3R_5+C_3C_5R_2R_3R_5+C_4C_5R_2R_3R_5}}$ bandwidth: $\frac{C_3R_1R_3+C_3R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}{\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_3C_5R_1R_3R_5+C_3C_5R_2R_3R_5+C_4C_5R_2R_3R_5}}$

K-HP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ K-BP: $\frac{C_5R_1R_2R_6}{C_3R_1R_3+C_3R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ Qz: None

Wz: None

9.41 X-INVALID-NUMER-41 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_3C_5C_6R_1R_3R_5 + C_3C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_3R_5\right) + s\left(C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_5C_6R_1R_5 - C_5C_6R_2R_3 + C_5C_6R_2R_5 + C_5C_6R_2R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}\sqrt{R_1+R_2+R_3}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_3R_1R_3+C_3R_2+C_4R_2}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_3C_5R_1R_3R_5+C_3C_5R_2R_3+C_4C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}}$ bandwidth: $\frac{C_3R_1R_3+C_3R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}{\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}\sqrt{C_3}R_1+C_3R_2+C_4R_2\sqrt{C_3}C_5R_1R_3R_5+C_3C_5R_2R_3R_5+C_4C_5R_2R_3R_5}}$ K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_3}{C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3+C_5C_6R_1R_5-C_5C_6R_2R_3+C_5C_6R_2R_5+C_5C_6R_3R_5}$ Qz: None

Wz: None

9.42 X-INVALID-NUMER-42 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6$

 $H(s) = \frac{1}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + S^2 \left(C_3 C_6 R_1 R_3 R_4 R_5 R_6 + C_4 C_6 R_2 R_3 R_4 R_5 + C_4 R_2 R_3 R_4 R_5 + C_4 R_2 R_3 R_4 R_5 + C_6 R_2 R_4 R_5 + C_$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3}R_1 + C_3R_2 + C_4R_2}{\sqrt{R_1}R_4R_5 - R_2}\sqrt{R_1}R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5} \\ \text{wo:} \ \frac{\sqrt{R_1}R_4R_5 - R_2R_3R_4R_5 + C_4R_2R_3R_4R_5 + C_6R_1R_4R_5R_6 - C_6R_2R_3R_4R_6 + C_6R_2R_3R_5R_6 + C_6R_2R_4R_5R_6 + C_6R_3R_4R_5R_6 + C_6R_2R_3R_4R_5 + R_2R_4R_5 + R_3R_4R_5}{\sqrt{C_3}C_6R_1R_3R_4R_5R_6 + C_3R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5R_6 + C_6R_2R_3R_4R_5 + C_6R_2R$

 $\text{K-BP: } \frac{C_3R_1R_2R_3R_4R_6}{C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 + C_4R_2R_3R_4R_5 + C_6R_1R_4R_5R_6 - C_6R_2R_3R_4R_6 + C_6R_2R_3R_5R_6 + C_6R_2R_4R_5R_6 + C_6R_3R_4R_5R_6}$

Qz: None Wz: None

9.43 X-INVALID-NUMER-43 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_3C_6R_1R_3R_4R_6 + C_4C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6\right) + s\left(C_3R_1R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4 + C_6R_1R_4R_6 + C_6R_2R_3R_6 + C_6R_2R_4R_6 + C_6R_2R_4R_6\right)}$$

Parameters:

 $. \frac{C_3\sqrt{C_6}R_1\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2}R_3+R_2R_4+R_3R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + C_3\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2}R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3}R_2+C_4R_2-C_5R_2} + C_4\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2}R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3}R_2+C_4R_2-C_5R_2} + C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2}R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3}R_2+C_4R_2-C_5R_2} + C_5\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{R_1R_4+R_2}R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3R_1+C_3}R_2+C_4R_3} + C_6R_2R_3R_4+C_6R_2R_3R_4+C_6R_2R_3R_4+C_6R_2R_3R_4+C_6R_2R_3R_4+C_6R_2R_3R_4+C_6R_2R_3R_4+C_6$

wo: $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_3C_6R_1R_3R_4R_6 + C_3C_6R_2R_3R_4R_6 + C_4C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6}}$

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_3R_1R_3R_4+C_3R_2R_3R_4+C_4R_2R_3R_4-C_5R_2R_3R_4+C_6R_1R_4R_6+C_6R_2R_3R_6+C_6R_2R_4R_6+C_6R_3R_4R_6}{Qz. \text{ None}}$

Wz: None

9.44 X-INVALID-NUMER-44 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s$ $H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_3C_5R_1R_3R_4R_5 + C_3C_5R_2R_3R_4R_5 + C_4C_5R_2R_3R_4R_5\right) + s\left(C_3R_1R_3R_4 + C_4R_2R_3R_4 + C_5R_1R_4R_5 - C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_3R_4 + C_5$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3}R_1 + C_3}{C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2}\sqrt{R_1R_4 + R_2}\sqrt{R_1R_4 + R_2}R_3 + R_2}{R_4R_5 + C_5R_2R_3R_4 + C_5R_2R_3R_4 + C_5R_2}$ wo: $\frac{\sqrt{R_1R_4 + R_2R_3 + R_2}R_4 + R_3R_4}{\sqrt{C_3C_5R_1R_3R_4 + C_5C_5R_2R_3R_4 + C_5R_2}R_3R_4}$ bandwidth: $\frac{C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 + C_5R_2R_3R_4}{\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3}R_1 + C_3R_2R_3R_4 + C_5R_2R_3R_4 +$

K-HP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$

 $\begin{array}{l} \text{K-BP:} \quad \frac{C_5 R_1 R_2 R_4 R_6}{C_3 R_1 R_3 R_4 + C_3 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5} \\ \end{array}$

Wz: None

9.45 X-INVALID-NUMER-45 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4$ $\frac{1}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_2R_3R_4R_5 + C_4C_5C_6R_2R_3R_4 + C_3C_6R_2R_3R_4 + C_5C_6R_2R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4 +$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_3R_1R_3R_4+C_3R_2R_3R_4+C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_3C_5R_1R_3R_4R_5+C_3C_5R_2R_3R_4R_5+C_4C_5R_2R_3R_4R_5}}$ bandwidth: $\frac{C_3R_1R_3R_4+C_3R_2R_3R_4+C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_3C_5R_1R_3R_4+C_3C_5R_2R_3R_4R_5+C_4C_5R_2R_3R_4R_5}}}$ K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}}$ K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_1R_2R_3R_4}{C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 + C_5C_6R_1R_4R_5 - C_5C_6R_2R_3R_4 + C_5C_6R_2R_3R_5 + C_5C_6R_2R_4R_5 + C_5C_6R_3R_4R_5}$

Qz: None Wz: None

9.46 X-INVALID-NUMER-46 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_5C_6R_1R_4R_6s + C_5R_1R_4$ $H(s) = \frac{1}{C_6R_3 + C_6R_4 + s^2\left(C_2C_5C_6R_1R_4R_5 + C_2C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_3R_4 - C_5C_6R_3R_4 + C_5C_6R_3R_5 + C_5C_6R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{R_3+R_4}}{C_2R_1R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2C_5R_1R_4R_5+C_2C_5R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_5R_1R_4R_5+C_2C_5R_3R_4R_5}}$ K-LP: $\frac{C_5R_1R_4}{C_6R_3+C_6R_4}$ K-HP: 0

K-BP: $\frac{C_5R_1R_4R_6}{C_2R_1R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}$ Qz: None

9.47 X-INVALID-NUMER-47 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_5 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(C_2 C_6 R_1 R_4 R_5 R_6 + C_2 C_6 R_3 R_4 R_5 R_6 - C_5 C_6 R_3 R_4 R_5 R_6\right) + s \left(C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 - C_5 R_3 R_4 R_5 - C_6 R_3 R_4 R_6 + C_6 R_3 R_5 R_6 + C_6 R_4 R_5 R_6\right)}$$

Parameters:

 $\frac{C_2\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3R_4}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C$

 $\sqrt{\frac{-R_3R_4+R_3R_5+R_4R_5}{C_2C_6R_1R_4R_5R_6+C_2C_6R_3R_4R_5R_6}}(C_2R_1R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5-C_6R_3R_4R_6+C_6R_3R_5R_6+C_6R_4R_5R_6})$ $\frac{R_3R_5}{+C_2R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}$

K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0

K-BP: $\frac{C_5R_1R_4R_5R_6}{C_2R_1R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5-C_6R_3R_4R_6+C_6R_3R_5R_6+C_6R_4R_5R_6}$ Qz: None

Wz: None

9.48 X-INVALID-NUMER-48 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_1R_6s + C_5R_1}{C_6 + s^2\left(C_2C_5C_6R_1R_5 + C_2C_5C_6R_3R_5 + C_4C_5C_6R_3R_5\right) + s\left(C_2C_6R_1 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3 + C_5C_6R_5\right)}$$

Parameters:

K-LP: $\frac{C_5 R_1}{C_6}$ K-HP: 0

K-BP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3+C_5R_5}$ Qz: None

Wz: None

9.49 X-INVALID-NUMER-49 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_1 R_5 R_6 s + R_1 R_6}{-R_3 + R_5 + s^2 \left(C_2 C_6 R_1 R_5 R_6 + C_2 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 - C_5 C_6 R_3 R_5 R_6\right) + s \left(C_2 R_1 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_5 R_3 R_5 - C_6 R_3 R_6 + C_6 R_5 R_6\right)}$$

Parameters:

 $Q: \frac{C_2\sqrt{C_6}R_1\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_5\sqrt{C_6}R_3\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R$

 $\frac{-R_3 + R_5}{\sqrt{C_2 C_6 R_1 R_5 R_6 + C_2 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 + C_4 R_3 R_5 - C_5 R_5 R_5$

K-LP: $-\frac{R_1R_6}{R_3-R_5}$ K-HP: 0

K-BP: $\frac{C_5R_1R_5R_6}{C_2R_1R_5+C_2R_3R_5+C_4R_3R_5-C_5R_3R_5-C_6R_3R_6+C_6R_5R_6}$ Qz: None

Wz: None

9.50 X-INVALID-NUMER-50 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_4 R_1 R_4 R_6 s + R_1 R_6}{-R_3 + R_5 + s^2 \left(C_2 C_4 R_1 R_4 R_5 + C_2 C_4 R_3 R_4 R_5\right) + s \left(C_2 R_1 R_5 + C_2 R_3 R_5 - C_4 R_3 R_4 + C_4 R_3 R_5 + C_4 R_4 R_5\right)}$$

 $\text{wo: } \frac{\sqrt{-R_3 + R_5}}{\sqrt{-R_3 + R_5}} \\ \text{wo: } \frac{\sqrt{-R_3 + R_5}}{\sqrt{C_2 C_4 R_1 R_4 R_5} + C_2 C_4 R_3 R_4 + C_4 R_3 R_5 + C_4 R_4 R_5}}{\sqrt{C_2 C_4 R_1 R_4 R_5} + C_2 C_4 R_3 R_4 R_5}} \\ \text{bandwidth: } \frac{C_2 R_1 R_5 + C_2 R_3 R_5 - C_4 R_3 R_4 + C_4 R_3 R_5 + C_4 R_4 R_5}{\sqrt{C_2} \sqrt{C_4} \sqrt{R_4} \sqrt{R_5} \sqrt{R_1 + R_3} \sqrt{C_2 C_4 R_1 R_4 R_5 + C_2 C_4 R_3 R_4 R_5}}} \\ \text{K-LP: } -\frac{R_1 R_6}{R_3 - R_5} \\ \text{K-HP: 0} \\ \text{V DD}$

K-BP: $\frac{C_4R_1R_4R_6}{C_2R_1R_5+C_2R_3R_5-C_4R_3R_4+C_4R_3R_5+C_4R_4R_5}$ Qz: None

Wz: None

9.51 X-INVALID-NUMER-51 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_4C_5R_1R_4R_6s^2 + C_5R_1R_6s}{s^2\left(C_2C_4R_1R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4\right) + s\left(C_2R_1 + C_2R_3 + C_4R_3 + C_4R_4 - C_5R_3\right) + 1}$$

Parameters:

 $Q: \frac{C_2\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_4}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_4}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{C_2R_1+C_2R_3+C_4R_3+C_4R_4-C_5R_3}$

wo: $\sqrt{\frac{1}{C_2C_4R_1R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4}}$ bandwidth: $\frac{(C_2R_1 + C_2R_3 + C_4R_3 + C_4R_4 - C_5R_3)\sqrt{\frac{1}{C_2C_4R_1R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4}}}{C_2\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_2\sqrt{C_4}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - \sqrt{C_4C_5R_3\sqrt{R_4}}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}}$

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}$ K-BP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3+C_4R_4-C_5R_3}$ Qz: None

Wz: None

9.52 X-INVALID-NUMER-52 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4C_5R_1R_4s + C_5R_1}{C_6 + s^2\left(C_2C_4C_6R_1R_4 + C_2C_4C_6R_3R_4 - C_4C_5C_6R_3R_4\right) + s\left(C_2C_6R_1 + C_2C_6R_3 + C_4C_6R_3 + C_4C_6R_4 - C_5C_6R_3\right)}$$

Parameters:

Q: $\frac{C_2\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_4}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_4}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{\frac{C_2}{R_1+C_2R_3+C_4R_3+C_4R_4-C_5R_3}}$

 $\text{Wo: } \sqrt{\frac{1}{C_2C_4R_1R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4}}$ bandwidth: $\frac{(C_2R_1 + C_2R_3 + C_4R_3 + C_4R_4 - C_5R_3)\sqrt{\frac{1}{C_2C_4R_1R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4}}}{C_2\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_2\sqrt{C_4}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - \sqrt{C_4C_5R_3\sqrt{R_4}}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}}$

K-LP: $\frac{C_5R_1}{C_6}$ K-HP: 0

K-BP: $\frac{C_4C_5R_1R_4}{C_2C_6R_1+C_2C_6R_3+C_4C_6R_3+C_4C_6R_4-C_5C_6R_3}$ Qz: None

Wz: None

9.53 X-INVALID-NUMER-53 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_1R_4R_6s + C_5R_1R_4}{C_6R_3 + C_6R_4 + s^2\left(C_2C_5C_6R_1R_4R_5 + C_2C_5C_6R_3R_4R_5 + C_4C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_4C_6R_3R_4 - C_5C_6R_3R_4 + C_5C_6R_3R_5 + C_5C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_3}+R_4\sqrt{C_2}R_1+C_2R_3+C_4R_3}{C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2C_5R_1R_4R_5+C_2C_5R_3R_4R_5+C_4C_5R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_5R_1R_4R_5+C_2C_5R_3R_4R_5+C_4C_5}}$ K-LP: $\frac{C_5R_1R_4}{C_6R_3+C_6R_4}$ K-HP: 0

K-BP: $\frac{C_5R_1R_4R_6}{C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5}$

Qz: None Wz: None

9.54 X-INVALID-NUMER-54 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_5 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(C_2 C_6 R_1 R_4 R_5 R_6 + C_2 C_6 R_3 R_4 R_5 R_6 + C_4 C_6 R_3 R_4 R_5 R_6 - C_5 C_6 R_3 R_4 R_5 R_6\right) + s \left(C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 - C_5 R_3 R_4 R_5 - C_6 R_3 R_4 R_6 + C_6 R_3 R_5 R_6 + C_6 R_4 R_5 R_6\right)}$$

Parameters:

 $Q: \frac{C_2\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_3R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_4\sqrt{C_6}R_3\sqrt{$ $\frac{-R_3R_4+R_3R_5+R_4R_5}{C_2C_6R_1A_4R_5R_6+C_2C_6R_3R_4R_5+C_2C_6R_3R_4R_5+C_2C_6R_3R_4R_5+C_2R_3R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5-C_$

K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0

K-BP: $\frac{C_5R_1R_4R_5R_6}{C_2R_1R_4R_5+C_2R_3R_4R_5+C_4R_3R_4R_5-C_5R_3R_4R_5-C_6R_3R_4R_6+C_6R_3R_5R_6+C_6R_4R_5R_6}$ Qz: None

Wz: None

9.55 X-INVALID-NUMER-55 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_4R_6s + C_3R_1R_4}{C_2C_3C_6R_1R_4R_5s^2 - C_6R_4 + C_6R_5 + s\left(C_2C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$ K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_6}{C_2R_5+C_3R_5}$ Qz: None Wz: None

9.56 X-INVALID-NUMER-56 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_2C_3C_6R_1R_4s^2 + C_6 + s\left(C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_4}+C_3\sqrt{R_4}-C_5\sqrt{R_4}}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_2\sqrt{R_4}+C_3\sqrt{R_4}-C_5\sqrt{R_4}}{C_2C_3R_1\sqrt{R_4}}$

K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_2C_6+C_3C_6-C_5C_6}$ Qz: None

9.57 X-INVALID-NUMER-57 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{C_2C_3R_1R_4R_5s^2 - R_4 + R_5 + s\left(C_2R_4R_5 + C_3R_4R_5 - C_5R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$ W. I.D. 0

K-LP: 0

K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_2}{C_2R_5+C_3R_5-C_5R_5}$ Qz: None

Wz: None

9.58 X-INVALID-NUMER-58 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_5s + C_3R_1R_4}{C_2C_3C_6R_1R_4R_5s^2 - C_6R_4 + C_6R_5 + s\left(C_2C_6R_4R_5 + C_3C_6R_4R_5 - C_5C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6-C_5C_6}$ Qz: None

Wz: None

9.59 X-INVALID-NUMER-59 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_6s + C_3R_1}{C_2C_3C_6R_1R_5s^2 - C_6 + s\left(C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5\right)}$$

Parameters:

WO: $\frac{i}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1}{C_6}$

K-HP: 0 K-BP: $\frac{C_3R_1R_6}{C_2R_5+C_3R_5+C_4R_5}$ Qz: None

Wz: None

9.60 X-INVALID-NUMER-60
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_6s + C_3C_5R_1}{C_2C_3C_5C_6R_1R_5s^2 + C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_2C_3C_6R_1 + C_2C_5C_6R_5 + C_3C_5C_6R_5 + C_4C_5C_6R_5\right)}$$

bandwidth: $\frac{C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}{C_2C_3C_5R_1R_5}$

K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_6}{C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}$ Qz: None

Wz: None

9.61 X-INVALID-NUMER-61 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_5R_6s^2 + C_3R_1R_6s}{C_2C_3R_1R_5s^2 + s\left(C_2R_5 + C_3R_5 + C_4R_5 - C_5R_5\right) - 1}$$

Parameters:

Q: $\frac{i\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}-C_5\sqrt{R_5}}$ wo: $\frac{i}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}-C_5\sqrt{R_5}}{C_2C_3R_1\sqrt{R_5}}$

K-LP: 0

K-HP: $\frac{C_5R_6}{C_2}$ K-BP: $\frac{C_3R_1R_6}{C_2R_5+C_3R_5+C_4R_5-C_5R_5}$ Qz: None

Wz: None

9.62 X-INVALID-NUMER-62 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_5s + C_3R_1}{C_2C_3C_6R_1R_5s^2 - C_6 + s\left(C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}$$

Parameters:

Q: $\frac{i\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}-C_5\sqrt{R_5}}$ wo: $\frac{i}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}-C_5\sqrt{R_5}}{C_2C_3R_1\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1}{C_6}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ Qz: None

Wz: None

9.63 X-INVALID-NUMER-63 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2C_3C_4R_1R_4s^2 + C_2 + C_3 + C_4 - C_5 + s\left(C_2C_3R_1 + C_2C_4R_4 + C_3C_4R_4 - C_4C_5R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_4R_4+C_3C_4R_4-C_4C_5R_4}$ wo: $\frac{\sqrt{C_2}+C_3+C_4-C_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_2C_3R_1+C_2C_4R_4+C_3C_4R_4-C_4C_5R_4}{C_2C_3C_4R_1R_4}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_2C_3R_1+C_2C_4R_4+C_3C_4R_4-C_4C_5R_4}$ Qz: None

9.64 X-INVALID-NUMER-64
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_4C_5R_1R_4s + C_3C_5R_1}{C_2C_3C_4C_6R_1R_4s^2 + C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_2C_3C_6R_1 + C_2C_4C_6R_4 + C_3C_4C_6R_4 - C_4C_5C_6R_4\right)}$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_4R_4+C_3C_4R_4-C_4C_5R_4}$ wo: $\frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_2C_3R_1+C_2C_4R_4+C_3C_4R_4-C_4C_5R_4}{C_2C_3C_4R_1R_4}$ K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: 0

K-BP: $\frac{C_3C_4C_5R_1R_4}{C_2C_3C_6R_1+C_2C_4C_6R_4+C_3C_4C_6R_4-C_4C_5C_6R_4}$ Qz: None Wz: None

9.65 X-INVALID-NUMER-65 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_4R_6s + C_3R_1R_4}{C_2C_3C_6R_1R_4R_5s^2 - C_6R_4 + C_6R_5 + s\left(C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_6}{C_2R_5+C_3R_5+C_4R_5}$ Qz: None

Wz: None

9.66 X-INVALID-NUMER-66 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_2C_3C_6R_1R_4s^2 + C_6 + s\left(C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_4} + C_3\sqrt{R_4} + C_4\sqrt{R_4} - C_5\sqrt{R_4}}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_2\sqrt{R_4} + C_3\sqrt{R_4} + C_4\sqrt{R_4} - C_5\sqrt{R_4}}{C_2C_3R_1\sqrt{R_4}}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ Qz: None

Wz: None

9.67 X-INVALID-NUMER-67 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{C_2C_3R_1R_4R_5s^2 - R_4 + R_5 + s\left(C_2R_4R_5 + C_3R_4R_5 + C_4R_4R_5 - C_5R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$

bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_2R_5+C_3R_5+C_4R_5-C_5R_5}$ Qz: None

Wz: None

9.68 X-INVALID-NUMER-68 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_5s + C_3R_1R_4}{C_2C_3C_6R_1R_4R_5s^2 - C_6R_4 + C_6R_5 + s\left(C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5 - C_5C_6R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}+C_4\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ Qz: None

Wz: None

9.69 X-INVALID-NUMER-69 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_4R_6s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s\left(C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{-R_4+R_5}}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5}}$ bandwidth: $\frac{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5}}$ K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_4R_6}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5}$ Qz: None

Wz: None

9.70 X-INVALID-NUMER-70 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_3R_4 - C_3C_5C_6R_3R_4\right) + s\left(C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 - C_5C_6R_4\right)}$

Parameters:

 $\text{Q: } \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} }{C_2R_4+C_3R_3+C_3R_4-C_5R_4}$

Q: $\frac{C_2R_4 + C_3R_3 + C_3R_4 - C_5R_4}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}$ wo: $\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}}$ bandwidth: $\frac{(C_2R_4 + C_3R_3 + C_3R_4 - C_5R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}}}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}}$

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}$ K-BP: $\frac{C_3C_5R_1R_4}{C_2C_6R_4+C_3C_6R_3+C_3C_6R_4-C_5C_6R_4}$ Qz: None

9.71 X-INVALID-NUMER-71
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 + C_2C_3R_3R_4R_5 - C_3C_5R_3R_4R_5\right) + s\left(C_2R_4R_5 - C_3R_3R_4 + C_3R_3R_5 + C_3R_4R_5 - C_5R_4R_5\right)}$$

$$\begin{array}{c} Q: \\ \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}}{C_2R_4R_5-C_3R_3R_4C_5} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} \\ wo: \sqrt{\frac{-R_4+R_5}{C_2C_3R_3R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5}} \\ \\ bandwidth: \\ \frac{-R_4+R_5}{C_2\sqrt{C_3}R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5} \\ \\ \frac{-R_4+R_5}{C_2\sqrt{C_3}R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5}}{C_2\sqrt{C_3}R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3}} \\ (C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5-C_5R_4R_5}) \\ \\ bandwidth: \\ \frac{-R_4+R_5}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} - \sqrt{C_3}C_5R_3R_4R_5 - C_5R_4R_5}) \\ \\ bandwidth: \\ \frac{-R_4+R_5}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_$$

9.72 X-INVALID-NUMER-72 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_5s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 - C_3C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_4R_5 - C_5C_6R_4R_5\right)}$$

Parameters:

$$Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3}}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5-C_5R_4R_5} \\ wo: \sqrt{\frac{-R_4+R_5}{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5}} \\ bandwidth: \frac{-\frac{R_4+R_5}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} + C_2\sqrt{C_3}R_3R_4R_5-C_3C_5R_3R_4R_5}}{C_2R_4R_5-C_3R_3R_4R_5+C_3R_3R_4+C_3R_3R_5+C_3R_4R_5-C_5R_4R_5}} \\ c_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5-C_5R_4R_5} \\ bandwidth: \frac{-\frac{R_4+R_5}{C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5-C_3C_5R_3R_4R_5}}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3}}} \\ c_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5-C_5R_4R_5} \\ bandwidth: \frac{-\frac{R_4+R_5}{C_2C_3R_1R_4R_5-C_3C_3R_3R_4R_5-C_3C_5R_3R_4R_5}}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}$$

9.73 X-INVALID-NUMER-73 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_6s + C_3R_1}{-C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_3C_4C_6R_3R_5\right) + s\left(C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 + C_4C_6R_5\right)}$$

Parameters:

9.74 X-INVALID-NUMER-74 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_6s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_3R_5 + C_3C_4C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_3 + C_2C_5C_6R_5 + C_3C_4C_6R_3 - C_3C_5C_6R_3 + C_3C_5C_6R_5 + C_4C_5C_6R_5\right)}$$

Q: $\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_3R_3+C_2C_5R_5+C_3C_4R_3-C_3C_5R_3+C_3C_5R_5+C_4C_5R_5}$ wo: $\frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2C_3C_5R_1R_5+C_2C_3C_5R_3R_5+C_3C_4C_5R_3R_5}}$ bandwidth: $\frac{C_2C_3R_1+C_2C_3R_3+C_2C_5R_5+C_3C_4R_3-C_3C_5R_3+C_3C_5R_5+C_4C_5R_5}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_3C_5R_1R_5+C_2C_3C_5R_3R_5+C_3C_4C_5R_3R_5}}$ K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: 0
K-BP: $\frac{C_3C_5R_1}{C_2C_3R_1+C_2C_3R_3+C_2C_5R_5+C_3C_5R_3+C_3C_5R_5+C_4C_5R_5}$ Qz: None Wz: None

9.75 X-INVALID-NUMER-75 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_5R_6s^2 + C_3R_1R_6s}{s^2\left(C_2C_3R_1R_5 + C_2C_3R_3R_5 + C_3C_4R_3R_5 - C_3C_5R_3R_5\right) + s\left(C_2R_5 - C_3R_3 + C_3R_5 + C_4R_5 - C_5R_5\right) - 1}$

Parameters:

```
 \begin{array}{c} Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ wo: \sqrt{-\frac{1}{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5-C_3C_5R_3R_5}} \\ bandwidth: \frac{\sqrt{-\frac{1}{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5-C_3C_5R_3R_5}} \\ \frac{\sqrt{-\frac{1}{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5-C_3C_5R_3R_5}} + \sqrt{C_3}C_4R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ k-LP: 0 \\ K-HP: \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ K-BP: \frac{C_5R_1R_6}{C_2R_5-C_3R_3+C_3R_5+C_4R_5-C_5R_5} \\ Qz: None \\ Wz: None \\ \end{array}
```

9.76 X-INVALID-NUMER-76 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_5s + C_3R_1}{-C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_3C_4C_6R_3R_5 - C_3C_5C_6R_3R_5\right) + s\left(C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}$

Parameters:

$$\begin{array}{c} Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ wo: \sqrt{-\frac{1}{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5-C_3C_5R_3R_5}} \\ bandwidth: \frac{\sqrt{-\frac{1}{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5-C_3C_5R_3R_5}} \\ \frac{\sqrt{-\frac{1}{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5-C_3C_5R_3R_5}} + C_2\sqrt{C_3}R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ K-LP: -\frac{C_3R_1}{C_6} \\ K-HP: 0 \\ K-BP: \frac{C_3C_5R_1R_5}{C_2C_6R_5-C_3C_6R_3+C_3C_6R_5+C_4C_6R_5-C_5C_6R_5}} \\ Qz: None \\ Wz: None \\ \end{array}$$

9.77 X-INVALID-NUMER-77 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_4R_1R_4 + C_2C_3C_4R_3R_4 - C_3C_4C_5R_3R_4\right) + s\left(C_2C_3R_1 + C_2C_3R_3 + C_2C_4R_4 + C_3C_4R_3 + C_3C_4R_4 - C_3C_5R_3 - C_4C_5R_4\right)}$

Parameters:

 $Q: \frac{C_2\sqrt{C_3}\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{C_2}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_3}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_3}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_3}{C_2R_1+C_2R_3-C_5R_3}$

K-HP: $\frac{C_5 R_1 R_6}{C_2 R_1 + C_2 R_3 - C_5 R_3}$

K-BP: $\frac{C_3C_5R_1R_6}{C_2C_3R_1+C_2C_3R_3+C_2C_4R_4+C_3C_4R_3+C_3C_4R_4-C_3C_5R_3-C_4C_5R_4}{\text{Qz: None}}$

Wz: None

9.78 X-INVALID-NUMER-78 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_5 s}\right)$

 $C_3C_4C_5R_1R_4s + C_3C_5R_1$ $H(s) = \frac{C_3C_4C_5R_1R_4s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_3R_4 - C_3C_4C_5C_6R_3R_4\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_3 + C_2C_4C_6R_4 + C_3C_4C_6R_3 + C_3C_4C_6R_4 - C_3C_5C_6R_3 - C_4C_5C_6R_4\right)}$

Parameters:

 $Q: \frac{C_2\sqrt{C_3}\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{C_2}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_3}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_5}{C_2R_1+C_2R_3-C_5R_3}$

 $\sqrt{\frac{C_{2}+C_{3}+C_{4}-C_{5}}{C_{2}C_{3}C_{4}R_{1}R_{4}+C_{2}C_{3}C_{4}R_{3}R_{4}-C_{3}C_{4}C_{5}R_{3}R_{4}}}(C_{2}C_{3}R_{1}+C_{2}C_{3}R_{3}+C_{2}C_{4}R_{4}+C_{3}C_{4}R_{3}+C_{3}C_{4}R_{4}-C_{3}C_{5}R_{3}-C_{4}C_{5}R_{4})$

 $\frac{\sqrt{C_2C_3C_4R_1R_4+C_2C_3C_4R_3R_4-C_3C_4C_5R_3R_4}}{C_2\sqrt{C_3}\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{C_2}{C_2R_1+C_2R_3-C_5R_3}} + \frac{C_3}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{C_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_3}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_5}{C_$

K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: 0

K-BP: $\frac{C_3C_4C_5R_1R_4}{C_2C_3C_6R_1+C_2C_3C_6R_3+C_2C_4C_6R_4+C_3C_4C_6R_3+C_3C_4C_6R_4-C_3C_5C_6R_3-C_4C_5C_6R_4}$ Qz: None

Wz: None

9.79 X-INVALID-NUMER-79 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_4R_6s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 + C_3C_4C_6R_3R_4R_5\right) + s\left(C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5\right)}$

Parameters:

bandwidth: $\frac{C_2R_4R_5 + C_3C_3R_3R_4 + C_3R_3R_5 + C_3R_5}{\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2}R_1 + C_2R_3 + C_4R_3\sqrt{C_2}C_3R_1R_4R_5}}{K-LP: -\frac{C_3R_1R_4}{C_6R_4 - C_6R_5}}$ K-HP: 0

K-BP: $\frac{C_3R_1R_4R_6}{C_2R_4R_5 - C_3R_3R_4 + C_3R_3R_5 + C_3R_4R_5 + C_4R_4R_5}$

Qz: None Wz: None

9.80 X-INVALID-NUMER-80 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s$ $H(s) = \frac{1}{C_6 + s^2 \left(C_2 C_3 C_6 R_1 R_4 + C_2 C_3 C_6 R_3 R_4 + C_3 C_4 C_6 R_3 R_4 - C_3 C_5 C_6 R_3 R_4 \right) + s \left(C_2 C_6 R_4 + C_3 C_6 R_3 + C_3 C_6 R_4 + C_4 C_6 R_4 - C_5 C_6 R_4 \right)}$

Parameters:

 $\frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+C_2R_4+C_3R_3+C_4R_4-C_5R_4}$

Wo: $\sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}$

 $\text{bandwidth: } \frac{(C_2R_4 + C_3R_3 + C_3R_4 + C_4R_4 - C_5R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 + C_3C_5R_3R_4}}}{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}C_3R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + C_3\sqrt{C_3}C_3R_3\sqrt{\frac{1}{C_3}}} + C_3\sqrt{C_3}C_3R_3\sqrt{\frac{1}{C_3}} + C_3\sqrt{C_3}C_3R_3\sqrt{\frac{1}{C_3}} + C_3\sqrt{C_3}C_3R_3\sqrt{\frac{1}{C_3}} + C_3\sqrt{C_3}C_3R_3\sqrt{\frac{1}{C_3}} + C_3\sqrt{C_3}C_3R_3\sqrt{\frac{1}{C_3}} + C_3\sqrt{C_3}C_3R_3\sqrt{\frac{1}{C_3}}$

K-LP: 0

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}$ K-BP: $\frac{C_3C_5R_1R_4}{C_2C_6R_4+C_3C_6R_3+C_3C_6R_4+C_4C_6R_4-C_5C_6R_4}$ Qz: None

9.81 X-INVALID-NUMER-81
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 + C_2C_3R_3R_4R_5 + C_3C_4R_3R_4R_5 - C_3C_5R_3R_4R_5\right) + s\left(C_2R_4R_5 - C_3R_3R_4 + C_3R_3R_5 + C_3R_4R_5 + C_4R_4R_5 - C_5R_4R_5\right)}$$

 $+ \underbrace{\frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}_{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5-C_5R_4R_5} + \underbrace{\frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3+C_4R$ $\frac{-R_4 + R_5}{\sqrt{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 + C_3 C_5 R_3 R_4 R_5}}}{\sqrt{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 + C_3 C_5 R_3 R_4 R_5}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_$

K-LP: 0

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} \\ \text{K-BP: } \frac{C_3R_1R_4R_6}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5+C_4R_4R_5-C_5R_4R_5} \\ \text{Qz: None}$

Wz: None

9.82 X-INVALID-NUMER-82 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_5s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 + C_3C_4C_6R_3R_4R_5 - C_3C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 - C_3C_6R_4R_5\right)}$$

Parameters:

 $Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_3+C$ wo: $\sqrt{\frac{-R_4 + R_5}{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 + C_3 C_4 R_3 R_4 R_5 - C_3 C_5 R_3 R_4 R_5}$ $\frac{-R_4 + R_5}{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 + C_3 C_3 R_3 R_4 R_5 - C_3 C_5 R_3 R_4 R_5}{C_2 C_3 R_1 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_3 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_3 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_3 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_3 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_3 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_3 R_3 + C_4 R_3 - C_5$

K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_4R_5}{C_2C_6R_4R_5-C_3C_6R_3R_4+C_3C_6R_3R_5+C_3C_6R_4R_5+C_4C_6R_4R_5-C_5C_6R_4R_5}$ Qz: None

Wz: None

9.83 X-INVALID-NUMER-83 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3R_1R_3R_4R_6s + R_1R_4R_6}{C_2C_3R_1R_3R_4R_5s^2 - R_3R_4 + R_3R_5 + R_4R_5 + s\left(C_2R_1R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{C_2R_1\sqrt{R_4}\sqrt{R_5}+C_2R_3\sqrt{R_4}\sqrt{R_5}+C_3R_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}\sqrt{R_5}+C_2R_3\sqrt{R_4}\sqrt{R_5}+C_3R_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_3\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_3R_6}{C_2R_1R_5+C_2R_3R_5+C_3R_3R_5}$

Qz: None Wz: None

9.84 X-INVALID-NUMER-84 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{C_2C_3R_1R_3R_4s^2 + R_3 + R_4 + s\left(C_2R_1R_4 + C_2R_3R_4 + C_3R_3R_4 - C_5R_3R_4\right)}$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_3}+R_4}{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_3}+R_4}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}{C_2C_3R_1R_3\sqrt{R_4}}$

K-LP: 0K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_2}{C_2R_1+C_2R_3+C_3R_3-C_5R_3}$ Qz: None

Wz: None

9.85 X-INVALID-NUMER-85 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_4s + C_5R_1R_4}{C_2C_3C_6R_1R_3R_4s^2 + C_6R_3 + C_6R_4 + s\left(C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_3+R_4}}{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}{C_2C_3R_1R_3\sqrt{R_4}}$

K-LP: $\frac{C_5R_1R_4}{C_6R_3+C_6R_4}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_3}{C_2C_6R_1+C_2C_6R_3+C_3C_6R_3-C_5C_6R_3}$ Qz: None

Wz: None

9.86 X-INVALID-NUMER-86 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_1 R_3 R_6 s + R_1 R_6}{C_2 C_3 R_1 R_3 R_5 s^2 - R_3 + R_5 + s \left(C_2 R_1 R_5 + C_2 R_3 R_5 + C_3 R_3 R_5 + C_4 R_3 R_5 \right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{-R_3+R_5}}{C_2R_1\sqrt{R_5}+C_2R_3\sqrt{R_5}+C_3R_3\sqrt{R_5}+C_4R_3\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_3+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1\sqrt{R_5}+C_2R_3\sqrt{R_5}+C_3R_3\sqrt{R_5}+C_4R_3\sqrt{R_5}}{C_2C_3R_1R_3\sqrt{R_5}}$

K-LP: $-\frac{R_1R_6}{R_3-R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_3R_6}{C_2R_1R_5+C_2R_3R_5+C_3R_3R_5+C_4R_3R_5}$ Qz: None

Wz: None

9.87 X-INVALID-NUMER-87 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_6s^2 + C_5R_1R_6s}{C_2C_3R_1R_3s^2 + s\left(C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3\right) + 1}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}{C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}$ bandwidth: $\frac{C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3}{C_2C_3R_1R_3}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_2R_1+C_2R_3+C_3R_3+C_4R_3-C_5R_3}$ Qz: None

9.88 X-INVALID-NUMER-88 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_3s + C_5R_1}{C_2C_3C_6R_1R_3s^2 + C_6 + s\left(C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}{C_2R_1+C_2R_3+C_3R_3+C_4R_3-C_5R_3}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}$ bandwidth: $\frac{C_2R_1+C_2R_3+C_3R_3+C_4R_3-C_5R_3}{C_2C_3R_1R_3}$

K-LP: $\frac{C_5R_1}{C_6}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_3}{C_2C_6R_1+C_2C_6R_3+C_3C_6R_3+C_4C_6R_3-C_5C_6R_3}$ Qz: None

Wz: None

9.89 X-INVALID-NUMER-89 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5, R_6\right)$

$$H(s) = \frac{C_3R_1R_3R_4R_6s + R_1R_4R_6}{C_2C_3R_1R_3R_4R_5s^2 - R_3R_4 + R_3R_5 + R_4R_5 + s\left(C_2R_1R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 + C_4R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{-R_3}R_4 + R_3}{C_2R_1\sqrt{R_4}\sqrt{R_5} + C_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_3\sqrt{R_4}\sqrt{R_5} + C_4R_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_3}R_4 + R_3R_5 + R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}\sqrt{R_5} + C_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_3\sqrt{R_4}\sqrt{R_5} + C_4R_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_3\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_3R_6}{C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5}$ Qz: None

Wz: None

9.90 X-INVALID-NUMER-90 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{C_2C_3R_1R_3R_4s^2 + R_3 + R_4 + s\left(C_2R_1R_4 + C_2R_3R_4 + C_3R_3R_4 + C_4R_3R_4 - C_5R_3R_4\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_3+R_4}}{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}+C_4R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}+C_4R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}{C_2C_3R_1R_3\sqrt{R_4}}$

K-LP: 0K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_2}{C_2R_1+C_2R_3+C_3R_3+C_4R_3-C_5R_3}$ Qz: None

Wz: None

9.91 X-INVALID-NUMER-91 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_4s + C_5R_1R_4}{C_2C_3C_6R_1R_3R_4s^2 + C_6R_3 + C_6R_4 + s\left(C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 + C_4C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_3+R_4}}{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}+C_4R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}+C_4R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}{C_2C_3R_1R_3\sqrt{R_4}}$

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K-LP: \frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}
K-HP: 0
K-BP: \frac{C_3C_5R_1R_3}{C_2C_6R_1+C_2C_6R_3+C_3C_6R_3+C_4C_6R_3-C_5C_6R_3} Qz: None
Wz: None
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9.92 X-INVALID-NUMER-92 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2R_1R_2R_4R_6s + R_1R_4R_6}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_6R_1R_4R_5R_6 - C_2C_6R_2R_3R_4R_6 + C_2C_6R_2R_3R_5R_6 + C_2C_6R_2R_4R_5R_6\right) + s\left(C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_5 + C_2R_2R_4R_5 + C_2R_3R_4R_5 - C_6R_3R_4R_6 + C_6R_3R_5R_6 + C_6R_4R_5R_6\right)}$

Parameters:

 $Q: \frac{\sqrt{C_2}\sqrt{C_6}R_1R_4R_5\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_5}}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_5}}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_5}}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}} - \sqrt{C_2}\sqrt{C_6}R_2R_3R_4\sqrt{R_6}$

 $\frac{1}{\sqrt{C_2\sqrt{C_6}R_1R_4R_5\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4\sqrt{R_6}\sqrt{-\frac{R_3R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2\sqrt{C_6}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}$ K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0

K-BP: $\frac{C_2R_1R_2R_4R_6}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5-C_6R_3R_4R_6+C_6R_3R_5R_6+C_6R_4R_5R_6} \\ \text{Qz: None}$

Wz: None

9.93 X-INVALID-NUMER-93 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{-C_2C_5R_2R_3R_4s^2 + R_3 + R_4 + s\left(C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 - C_5R_3R_4\right)}$

Parameters:

Q: $-\frac{i\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4-C_5R_3R_4}$ wo: $\frac{\sqrt{-R_3-R_4}}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{i\sqrt{-R_3-R_4}(C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4-C_5R_3R_4)}{C_2C_5R_2R_3R_4\sqrt{R_3+R_4}}$ K-LP: 0 K-HP: $-\frac{R_1R_6}{R_2}$ K-BP: $\frac{C_5R_1R_4R_6}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4-C_5R_3R_4}$ Qz: None

9.94 X-INVALID-NUMER-94 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_1R_2R_4}{-C_2C_5C_6R_2R_3R_4s^2 + C_6R_3 + C_6R_4 + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 - C_5C_6R_3R_4\right)}$

Parameters:

Wz: None

Wz: None

Q: $-\frac{i\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4-C_5R_3R_4}$ wo: $\frac{\sqrt{-R_3-R_4}}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{i\sqrt{-R_3-R_4}(C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4-C_5R_3R_4)}{C_2C_5R_2R_3R_4\sqrt{R_3+R_4}}$ K-LP: $\frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}$ K-HP: 0 K-BP: $\frac{C_2C_5R_1R_2R_4}{C_2C_6R_1R_4+C_2C_6R_2R_3+C_2C_6R_2R_4+C_2C_6R_3R_4-C_5C_6R_3R_4}$ Qz: None

9.95 X-INVALID-NUMER-95
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{R_3 + R_4 + s^2\left(C_2C_5R_1R_4R_5 - C_2C_5R_2R_3R_4 + C_2C_5R_2R_3R_5 + C_2C_5R_2R_4R_5 + C_2C_5R_3R_4R_5\right) + s\left(C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 - C_5R_3R_4 + C_5R_3R_5 + C_5R_4R_5\right)}$$

 $\frac{\sqrt{C_2}\sqrt{C_5}R_1R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_5}R_2R_3R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_5}R_2R_3R_4+\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}}}}}+\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}}}}}$ wo: $\sqrt{R_3 + R_4} \sqrt{\frac{1}{C_2 C_5 R_1 R_4 R_5 - C_2 C_5 R_2 R_3 R_4 + C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_4 R_5 + C_2 C_5 R_3 R_4 R_5}$

 $\frac{\sqrt{R_3 + R_4}(C_2R_1R_4 + C_2R_3R_4 + C$

K-LP: 0

K-HP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP: } \frac{C_5R_1R_4R_6}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4-C_5R_3R_4+C_5R_3R_5+C_5R_4R_5} \\ \text{Qz: None}$

Wz: None

9.96 X-INVALID-NUMER-96 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4s + C_5R_1R_4}{C_6R_3 + C_6R_4 + s^2\left(C_2C_5C_6R_1R_4R_5 - C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R_4R_5 + C_2C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_5 + C_5C_6R_3R_5 + C_5C_6R_3R_5 + C_5C_6R_3R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5$$

Parameters:

 $Q: \frac{\sqrt{C_2\sqrt{C_5}R_1R_4R_5\sqrt{R_3}+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5\sqrt{R_3}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5\sqrt{R_3}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5\sqrt{R_3}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5\sqrt{R_3}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5\sqrt{R_3}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5\sqrt{R_3}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_2\sqrt{C_5}R_2R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2\sqrt{C_5}R_3R_4+R_2R_3R_5+R_2R_4R_$

wo: $\sqrt{R_3 + R_4} \sqrt{\frac{1}{C_2 C_5 R_1 R_4 R_5 - C_2 C_5 R_2 R_3 R_4 + C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_4 R_5 + C_2 C_5 R_3 R_4 R_5}$

 $\sqrt{R_3 + R_4} (C_2 R_1 R_4 + C_2 R_2 R_3 + C_2 R_2 R_4 + C_2 R_3 R_4 - C_5 R_3 R_4 + C_5 R_3 R_5 + C_5 R_4 R_5) \sqrt{\frac{1}{C_2 C_5 R_1 R_4 R_5 - C_2 C_5 R_2 R_3 R_4 + C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_4 R_5 + C_2 C_5 R_3 R_5 + C_2 C_5 R_3 R_5 + C_2 C_5 R_5 R_5$

 $\frac{\sqrt{R_3 + R_4(C_2R_1R_4 + C_2R_2R_3 + C_2R_3R_4 + C_5R_3R_4 + C_5R_3R_4 + C_5R_3R_4 + C_5R_3R_4 + C_5R_3R_4 + C_5R_3R_4 + C_5R_5R_2R_3R_4 + C_2C_5R_2R_3R_4 + C_2C_5R_2R_4R_5 + C_2C_5R_2R_4R_5 + C_2C_5R_2R_4R_5 + C_2C_5R_2R_4R_$

K-LP: $\frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}$ K-HP: 0

K-BP: $\frac{C_2C_5R_1R_2R_4}{C_2C_6R_1R_4+C_2C_6R_2R_3+C_2C_6R_2R_4+C_2C_6R_3R_4-C_5C_6R_3R_4+C_5C_6R_3R_5+C_5C_6R_4R_5}$ Qz: None

Wz: None

9.97 X-INVALID-NUMER-97 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_2 R_1 R_2 R_6 s + R_1 R_6}{C_2 C_4 R_2 R_3 R_5 s^2 - R_3 + R_5 + s \left(C_2 R_1 R_5 - C_2 R_2 R_3 + C_2 R_2 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 \right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-R_3+R_5}}{C_2R_1R_5-C_2R_2R_3+C_2R_2R_5+C_2R_3R_5+C_4R_3R_5}$ wo: $\frac{\sqrt{-R_3+R_5}}{\sqrt{C_2}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1R_5-C_2R_2R_3+C_2R_2R_5+C_2R_3R_5+C_4R_3R_5}{C_2C_4R_2R_3R_5}$

K-LP: $-\frac{R_1R_6}{R_3-R_5}$ K-HP: 0

K-BP: $\frac{C_2R_1R_2R_6}{C_2R_1R_5-C_2R_2R_3+C_2R_2R_5+C_2R_3R_5+C_4R_3R_5}$

Qz: None Wz: None

9.98 X-INVALID-NUMER-98 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_6s^2 + C_5R_1R_6s}{s^2(C_2C_4R_2R_3 - C_2C_5R_2R_3) + s(C_2R_1 + C_2R_2 + C_2R_3 + C_4R_3 - C_5R_3) + 1}$$

$$\begin{array}{l} Q\colon \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{C_2R_1+C_2R_2+C_2R_3+C_4R_3-C_5R_3}\\ \text{wo: } \sqrt{\frac{1}{C_2C_4R_2R_3-C_2C_5R_2R_3}}\\ \text{bandwidth: } \frac{(C_2R_1+C_2R_2+C_2R_3+C_4R_3-C_5R_3)\sqrt{\frac{1}{C_2C_4R_2R_3-C_2C_5R_2R_3}}}{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_3-C_5R_3}\\ \text{K-BP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_2+C_2R_3+C_4R_3-C_5R_3}}{C_2R_1+C_2R_2+C_2R_3+C_4R_3-C_5R_3}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

9.99 X-INVALID-NUMER-99 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_5R_1R_2s + C_5R_1}{C_6 + s^2\left(C_2C_4C_6R_2R_3 - C_2C_5C_6R_2R_3\right) + s\left(C_2C_6R_1 + C_2C_6R_2 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{C_2R_1+C_2R_2+C_2R_3+C_4R_3-C_5R_3}\\ \text{wo:} \ \sqrt{\frac{1}{C_2C_4R_2R_3-C_2C_5R_2R_3}}\\ \text{bandwidth:} \ \frac{(C_2R_1+C_2R_2+C_2R_3+C_4R_3-C_5R_3)\sqrt{\frac{1}{C_2C_4R_2R_3}-\frac{1}{C_2C_5R_2R_3}}}{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP:} \ \frac{C_5R_1}{C_6}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{C_2C_5R_1R_2}{C_2C_6R_1+C_2C_6R_2+C_2C_6R_3+C_4C_6R_3-C_5C_6R_3}}\\ \text{Qz:} \ \text{None}\\ \text{Wz:} \ \text{None} \end{array}$$

9.100 X-INVALID-NUMER-100 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{C_2R_1R_2R_4R_6s + R_1R_4R_6}{C_2C_4R_2R_3R_4R_5s^2 - R_3R_4 + R_3R_5 + R_4R_5 + s\left(C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_5 + C_2R_2R_4R_5 + C_2R_3R_4R_5 + C_4R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5+C_4R_3R_4R_5}$ wo: $\frac{\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{\sqrt{C_2}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5+C_4R_3R_4R_5}{C_2C_4R_2R_3R_4R_5}$ K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: 0 K-BP: $\frac{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_4R_6}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_4R_5+C_2R_3R_4R_5+C_4R_3R_4R_5}$ Qz: None Wz: None

9.101 X-INVALID-NUMER-101 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{R_3 + R_4 + s^2\left(C_2C_4R_2R_3R_4 - C_2C_5R_2R_3R_4\right) + s\left(C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 + C_4R_3R_4 - C_5R_3R_4\right)}$$

$$Q \colon \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_4-C_5}}}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4}\\ \text{wo: } \sqrt{R_3}+R_4\sqrt{\frac{1}{C_2C_4R_2R_3R_4-C_2C_5R_2R_3R_4}}\\ \text{bandwidth: } \frac{\frac{1}{C_2C_4R_2R_3R_4-C_2C_5R_2R_3R_4}}{\sqrt{C_2C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_2-C_5R_2}$$

K-BP: $\frac{C_5R_1R_4R_6}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4}$ Qz: None

Wz: None

9.102 X-INVALID-NUMER-102 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4s + C_5R_1R_4}{C_6R_3 + C_6R_4 + s^2\left(C_2C_4C_6R_2R_3R_4 - C_2C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_4C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

Parameters:

 $\begin{aligned} & \text{Q: } \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_4-C_5}}}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4} \\ & \text{wo: } \sqrt{R_3+R_4}\sqrt{\frac{1}{C_2C_4R_2R_3R_4-C_2C_5R_2R_3R_4}} \end{aligned}$

bandwidth: $\frac{\sqrt{R_3 + R_4}(C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 + C_4R_3R_4 - C_5R_3R_4)\sqrt{\frac{1}{C_2C_4R_2R_3R_4 - C_2C_5R_2R_3R_4}}}{\sqrt{C_2C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3 + R_4}}\sqrt{\frac{1}{C_4 - C_5}} - \sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_4 - C_5}}$

K-LP: $\frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}$ K-HP: 0

K-BP: $\frac{C_2C_5R_1R_2R_4}{C_2C_6R_1R_4+C_2C_6R_2R_3+C_2C_6R_2R_4+C_2C_6R_3R_4+C_4C_6R_3R_4-C_5C_6R_3R_4}$ Qz: None

Wz: None

9.103 X-INVALID-NUMER-103 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5\right) + s\left(-C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5 + C_3R_4R_5\right)}$$

Parameters:

Q: $-\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{-R_4+R_5}}{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5}}$ bandwidth: $-\frac{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5}}$

K-HP: $\frac{R_1 R_2 R_6}{R_1 R_5 + R_2 R_5}$

Wz: None

9.104 X-INVALID-NUMER-104 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3R_1R_2R_4s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

Parameters:

Q: $-\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{-R_4+R_5}}{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5}}$ bandwidth: $-\frac{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5}}$ K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: $-\frac{C_2C_3R_1R_2R_4}{C_2C_6R_2R_4-C_2C_6R_2R_5-C_2C_6R_4R_5-C_3C_6R_4R_5}$

Qz: None

9.105 X-INVALID-NUMER-105
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_4s}{C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 - C_2C_5C_6R_2R_4\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4\right)}$$

9.106 X-INVALID-NUMER-106 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_1R_2R_6s^2 + C_3R_1R_6s}{s^2\left(C_2C_3R_1R_5 + C_2C_3R_2R_5 + C_2C_4R_2R_5\right) + s\left(-C_2R_2 + C_2R_5 + C_3R_5 + C_4R_5\right) - 1}$$

Parameters:

$$\begin{array}{l} \mathrm{Q:} -\frac{i\sqrt{C_2}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_2R_2-C_2R_5-C_3R_5-C_4R_5} \\ \mathrm{wo:} \ \ \frac{i}{\sqrt{C_2C_3R_1R_5+C_2C_3R_2R_5+C_2C_4R_2R_5}} \\ \mathrm{bandwidth:} -\frac{C_2R_2-C_2R_5-C_3R_5-C_4R_5}{\sqrt{C_2}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_2C_3R_1R_5+C_2C_3R_2R_5+C_2C_4R_2R_5}} \\ \mathrm{K-LP:} \ 0 \\ \mathrm{K-HP:} \ \ \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5} \\ \mathrm{K-BP:} -\frac{C_3R_1R_6}{C_2R_2-C_2R_5-C_3R_5-C_4R_5} \\ \mathrm{Qz:} \ \mathrm{None} \\ \mathrm{Wz:} \ \mathrm{None} \end{array}$$

9.107 X-INVALID-NUMER-107 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3R_1R_2s + C_3R_1}{-C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_4C_6R_2R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5\right)}$$

Parameters:

$$\begin{array}{l} \mathrm{Q:} \ -\frac{i\sqrt{C_2}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_2R_2-C_2R_5-C_3R_5-C_4R_5} \\ \mathrm{wo:} \ \ \frac{i}{\sqrt{C_2C_3R_1R_5+C_2C_3R_2R_5+C_2C_4R_2R_5}} \\ \mathrm{bandwidth:} \ -\frac{C_2R_2-C_2R_5-C_3R_5-C_4R_5}{\sqrt{C_2}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_2C_3R_1R_5+C_2C_3R_2R_5+C_2C_4R_2R_5}} \\ \mathrm{K-LP:} \ -\frac{C_3R_1}{C_6} \\ \mathrm{K-HP:} \ 0 \\ \mathrm{K-BP:} \ -\frac{C_2C_3R_1R_2}{C_2C_6R_2-C_2C_6R_5-C_3C_6R_5-C_4C_6R_5} \\ \mathrm{Qz:} \ \mathrm{None} \\ \mathrm{Wz:} \ \mathrm{None} \end{array}$$

9.108 X-INVALID-NUMER-108 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_6R_1R_6 + C_2C_3C_6R_2R_6 + C_2C_5C_6R_2R_6\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_2 - C_2C_5R_2 + C_2C_6R_6 + C_3C_6R_6 + C_4C_6R_6 - C_5C_6R_6\right)}$$

Parameters:

 $Q: \frac{\sqrt{C_2C_3\sqrt{C_6}R_1\sqrt{R_6}}\sqrt{\frac{C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_3}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \sqrt{C_2}C_3\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \sqrt{C_2}C_4\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_2}C_3\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_2}C_3\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_2}C_4\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_2}C_4\sqrt{C_6}R_2\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_2}C_4\sqrt{C_6}R_2\sqrt{$

```
wo: \sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_2 C_3 C_6 R_1 R_6 + C_2 C_3 C_6 R_2 R_6 + C_2 C_4 C_6 R_2 R_6 - C_2 C_5 C_6 R_2 R_6}}
```

bandwidth: $\frac{1}{\sqrt{C_2}C_3\sqrt{C_6}R_1\sqrt{R_6}\sqrt{\frac{C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_3}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}$

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ K-BP: $\frac{C_3C_5R_1R_6}{C_2C_3R_1+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2+C_2C_6R_6+C_3C_6R_6+C_4C_6R_6-C_5C_6R_6}$ Qz: None

Wz: None

9.109 X-INVALID-NUMER-109 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_5R_1R_5 + C_2C_3C_5R_2R_5 + C_2C_4C_5R_2R_5\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_2 - C_2C_5R_2 + C_2C_5R_5 + C_3C_5R_5 + C_4C_5R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}\sqrt{C_3}R_1+C_3R_2+C_4R_2}{C_2C_3R_1+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}$ wo: $\frac{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}\sqrt{C_3}R_1+C_3R_2+C_4R_2}{\sqrt{C_2+C_3+C_4-C_5}}$

 $\begin{array}{l} \text{K-HP:} \ \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5} \\ \text{K-BP:} \ \frac{C_3C_5R_1R_6}{C_2C_3R_1+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: None

9.110 X-INVALID-NUMER-110 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_2C_3C_5R_1R_2s + C_3C_5R_1$ $H(s) = \frac{1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_2R_5 + c_2C_4C_5C_6R_2R_5\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_5C_6R_2 + c_2C_5C_6R_2 + c_2C_5C_6R_5 + c_3C_5C_6R_5 + c_3C_5C_6R_5 + c_3C_5C_6R_5\right)}{c_3C_6 + c_3C_6 + c_$

Parameters:

wo: $\frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2C_3C_5R_1R_5+C_2C_3C_5R_2R_5+C_2C_4C_5R_2R_5}}$ bandwidth: $\frac{C_2C_3R_1+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_2C_3C_5R_1R_5+C_2C_3C_5R_2R_5+C_2C_4C_5R_2R_5}}$ K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: 0

K-BP: $\frac{C_2C_3C_5R_1R_2}{C_2C_3C_6R_1+C_2C_3C_6R_2+C_2C_4C_6R_2-C_2C_5C_6R_2+C_2C_5C_6R_5+C_3C_5C_6R_5+C_4C_5C_6R_5}$ Qz: None

Wz: None

9.111 X-INVALID-NUMER-111 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 + C_2C_4R_2R_4R_5\right) + s\left(-C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5 + C_3R_4R_5 + C_4R_4R_5\right)}$

Parameters:

 $\begin{array}{l} Q \colon -\frac{\sqrt{C_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_4+R_5}\sqrt{C_3}R_1+C_3R_2+C_4R_2}{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5} \\ \text{wo: } \frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5+C_2C_4R_2R_4R_5}} \\ \text{bandwidth: } -\frac{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5}{\sqrt{C_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3}R_1+C_3R_2+C_4R_2}\sqrt{C_2C_3R_1R_4R_5+C_2C_4R_2R_4R_5}} \\ V.I.D. 0 \end{array}$

K-HP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ K-BP: $-\frac{C_3R_1R_4R_6}{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5}$ Qz: None

9.112 X-INVALID-NUMER-112 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3R_1R_2R_4s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_4C_6R_2R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5\right)}$$

Parameters:

Q: $-\frac{\sqrt{C_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_4+R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5}$

wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5+C_2C_4R_2R_4R_5}}$ bandwidth: $-\frac{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5}{\sqrt{C_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5+C_2C_4R_2R_4R_5}}$ K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0

K-BP: $-\frac{C_2C_3R_1R_2R_4}{C_2C_6R_2R_4 - C_2C_6R_2R_5 - C_2C_6R_4R_5 - C_3C_6R_4R_5 - C_4C_6R_4R_5}$

Wz: None

9.113 X-INVALID-NUMER-113 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_4s}{C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + C_2C_4C_6R_2R_4 - C_2C_5C_6R_2R_4\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4\right)}$$

Parameters:

 $\text{Q:} \ \frac{\sqrt{C_2C_3R_1\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_2C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_2C_4R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} - \sqrt{C_2C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} \\ - \sqrt{C_2C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_2C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} \\ - \sqrt{C_2C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}}} \\ - \sqrt{C_2C_5R_2\sqrt{R_4}\sqrt{\frac{1}{$ Wo: $\sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_2R_4+C_2C_4R_2R_4-C_2C_5R_2R_4}}$

 $\frac{(C_2R_2 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_2R_4 + C_2C_5R_2R_4}}}{\sqrt{C_2C_3R_1\sqrt{R_4}}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_2}C_4R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} - \sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} - \sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} - \sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} - \sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} - \sqrt{C_2}C_3R_2\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} - \sqrt$

K-LP: 0

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ K-BP: $\frac{C_3C_5R_1R_4}{C_2C_6R_2+C_2C_6R_4+C_3C_6R_4+C_4C_6R_4-C_5C_6R_4}$ Qz: None

Wz: None

9.114 X-INVALID-NUMER-114 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 - C_2C_3R_2R_3R_4 + C_2C_3R_2R_3R_5 + C_2C_3R_2R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5 - C_3R_3R_4 + C_3R_3R_5 + C_3R_4R_5\right)}$$

Parameters:

$$Q: \frac{-\sqrt{C_2}\sqrt{C_3}R_1R_4R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5} -\sqrt{C_2}\sqrt{C_3}R_2R_3R_5 -C_3}R_4R_5 -C_2}$$

 $\begin{array}{l} \text{K-HP: } \frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5} \\ \text{K-BP: } -\frac{C_3R_1R_4R_6}{C_2R_2R_4 - C_2R_2R_5 - C_2R_4R_5 + C_3R_3R_4 - C_3R_3R_5 - C_3R_4R_5} \end{array}$

Qz: None Wz: None

9.115 X-INVALID-NUMER-115 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3R_1R_2R_4s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 - C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4 + C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_4R_5\right)}$$

```
O: \frac{-\sqrt{C_2}\sqrt{C_3}R_1R_4R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5 + \frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5 - \frac{R_3}{R_3}R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5 - \frac{R_3}{R_3}R_5} - \sqrt{C_2}\sqrt{C_3}R_2R_3R_5} - \sqrt{C_2}\sqrt{C_3}R_3R_5} - \sqrt{C_2}\sqrt{C_3}R_5} -
                Wo: \sqrt{\frac{-R_4 + R_5}{C_2 C_3 R_1 R_4 R_5 - C_2 C_3 R_2 R_3 R_4 + C_2 C_3 R_2 R_3 R_5 + C_2 C_3 R_2 R_4 R_5 + C_2 C_3 R_3 R_4 R_5}
               \frac{-\sqrt{C_2}\sqrt{C_3}R_1R_4R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_
               K-HP: 0
              K-BP: -\frac{C_2C_3R_1R_2R_4}{C_2C_6R_2R_4-C_2C_6R_2R_5-C_2C_6R_4R_5+C_3C_6R_3R_4-C_3C_6R_3R_5-C_3C_6R_4R_5} Qz: None
                Wz: None
9.116 X-INVALID-NUMER-116 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                       H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_4R_2R_3 - C_2C_3C_5R_2R_3\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_3R_3 + C_2C_4R_2 - C_2C_5R_2 + C_3C_4R_3 - C_3C_5R_3\right)}
      Parameters:
               \text{bandwidth: } \frac{\sqrt{\frac{C_2+C_3+C_4-C_5}{C_2C_3C_4R_2R_3-C_2C_3C_5R_2R_3}}(C_2C_3R_1+C_2C_3R_2+C_2C_3R_3+C_2C_4R_2-C_2C_5R_2+C_3C_4R_3-C_3C_5R_3)}{\sqrt{C_2}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_2}{C_4-C_5}}+\frac{C_3}{C_4-C_5}+\frac{C_4}{C_4-C_5}-\frac{C_5}{C_4-C_5}-\sqrt{C_2}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_2}{C_4-C_5}+\frac{C_3}{C_4-C_5}+\frac{C_4}{C_4-C_5}-\frac{C_5}{C_4-C_5}}}
               K-LP: 0
              K-HP: \frac{C_5 R_1 R_6}{C_4 R_3 - C_5 R_3}
              K-BP: \frac{C_4R_3 - C_5R_3}{C_2C_3R_1 + C_2C_3R_2 + C_2C_3R_3 + C_2C_4R_2 - C_2C_5R_2 + C_3C_4R_3 - C_3C_5R_3}{C_3C_5R_1R_6}
                 Qz: None
                Wz: None
9.117 X-INVALID-NUMER-117 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                      H(s) = \frac{C_2C_3C_5R_1R_2s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_2R_3 - C_2C_3C_5C_6R_2R_3\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_3C_6R_3 + C_2C_4C_6R_2 - C_2C_5C_6R_2 + C_3C_4C_6R_3 - C_3C_5C_6R_3\right)}
        Parameters:
               \text{bandwidth: } \frac{\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_2 C_3 C_4 R_2 R_3 - C_2 C_3 C_5 R_2 R_3}} (C_2 C_3 R_1 + C_2 C_3 R_2 + C_2 C_3 R_3 + C_2 C_4 R_2 - C_2 C_5 R_2 + C_3 C_4 R_3 - C_3 C_5 R_3)}{\sqrt{C_2} \sqrt{C_3} \sqrt{C_4} \sqrt{R_3} \sqrt{\frac{C_2}{C_4 - C_5}} + \frac{C_3}{C_4 - C_5} + \frac{C_4}{C_4 - C_5} - \frac{C_5}{C_4 - C_5}} - \sqrt{C_2} \sqrt{C_3} \sqrt{C_3} \sqrt{R_3} \sqrt{\frac{C_2}{C_4 - C_5}} + \frac{C_3}{C_4 - C_5} + \frac{C_4}{C_4 - C_5} - \frac{C_5}{C_4 - C_5}}
             K-LP: \frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}
K-HP: 0
              K-BP: \frac{C_2C_3C_5R_1R_2}{C_2C_3C_6R_1+C_2C_3C_6R_2+C_2C_3C_6R_3+C_2C_4C_6R_2-C_2C_5C_6R_2+C_3C_4C_6R_3-C_3C_5C_6R_3} Qz: None
               Wz: None
9.118 X-INVALID-NUMER-118 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4
                                                                                               H(s) = \frac{1}{C_{6}R_{1}R_{4} + C_{6}R_{2}R_{3} + C_{6}R_{2}R_{4} + C_{6}R_{3}R_{4} + s^{2}\left(C_{2}C_{5}C_{6}R_{1}R_{2}R_{4}R_{5} + C_{2}C_{5}C_{6}R_{2}R_{3}R_{4} + C_{5}C_{6}R_{1}R_{2}R_{4} + C_{5}C_{6}R_{2}R_{3}R_{4} + C_{5}C_{6}R_{2}R_{3}R_{5} + C_{5}C
```

Q: $\frac{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_2R_1R_2R_4+C_2R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_2C_5R_1R_2R_4R_5+C_2C_5R_2R_3R_4+C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_5R_1R_2R_4R_5+C_2C_5R_2R_3R_4+C_5R_2R_4R_5+C_2C_5R_2R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_2R_4+C_2R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_4R_5+C_5R_2R_4R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_5R_1R_2R_4R_5+C_2C_5R_2R_3R_4R_5}}}$ K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$

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K-HP: 0
```

 $\text{K-BP: } \frac{C_5 R_1 R_2 R_4 R_6}{C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5}$

Qz: None

Wz: None

9.119 X-INVALID-NUMER-119 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $C_5 R_1 R_2 R_4 R_5 R_6 s + R_1 R_2 R_4 R_6$

 $\frac{c_{3}r_{1}r_{2}r_{4}r_{5}r_{6}s + r_{1}r_{2}r_{4}r_{6}}{R_{1}R_{4}R_{5} - R_{2}R_{3}R_{4} + R_{2}R_{3}R_{5} + R_{2}R_{4}R_{5} + R_{3}R_{4}R_{5} + s^{2}\left(C_{2}C_{6}R_{1}R_{2}R_{4}R_{5}R_{6} + C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}R_{6} + C_{2}C_{6}R_{2}R_{3}R_{4}R_{5} + C_{2}R_{2}R_{3}R_{4}R_{5} + C_{2}R_{2}R_{3}R$

Parameters:

 $Q: \frac{C_2\sqrt{C_6}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_4R_5}{C_2R_1+C_2R_3-C_5R_3}} - \frac{R_2R_3R_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_2R_3R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{$

 $\frac{c_1R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}{c_1+C_2C_6R_3R_3R_4R_5R_6-C_5C_6R_3R_4R_5R_5R_6}(C_2R_1R_2R_4R_5+C_2R_2R_3R_4R_5-C_5R_2R_3R_4R_5+C_6R_1R_4R_5R_6-C_6R_2R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6)$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_5R_1R_2R_4R_5R_6}{C_2R_1R_2R_4R_5+C_2R_2R_3R_4R_5-C_5R_2R_3R_4R_5+C_6R_1R_4R_5R_6-C_6R_2R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6} \\ \text{Qz: None} \end{array}$

Wz: None

9.120 X-INVALID-NUMER-120 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_6s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_2C_5C_6R_1R_2R_5 + C_2C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_3R_5\right) + s\left(C_2C_6R_1R_2 + C_2C_6R_2R_3 + C_5C_6R_1R_5 - C_5C_6R_2R_3 + C_5C_6R_3R_3 +$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{R_1+R_2+R_3}\sqrt{C_2R_1+C_2R_3+C_4R_3}}{C_2R_1R_2+C_2R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_2C_5R_1R_2R_5+C_2C_5R_2R_3R_5+C_4C_5R_2R_3R_5}}$ bandwidth: $\frac{C_2R_1R_2+C_2R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}{\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_2R_1+C_2R_2R_3+C_4R_3}\sqrt{C_2C_5R_1R_2R_5+C_2C_5R_2R_3R_5+C_4C_5R_2R_3R_5}}$ K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: 0

K-BP: $\frac{C_5R_1R_2R_6}{C_2R_1R_2+C_2R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}$ Qz: None

Wz: None

9.121 X-INVALID-NUMER-121 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $C_5R_1R_2R_5R_6s + R_1R_2R_6$ $H(s) = \frac{1}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_2C_6R_1R_2R_5R_6 + C_2C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_5R_6 - C_5C_6R_2R_3R_5R_6\right) + s\left(C_2R_1R_2R_5 + C_2R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_3R_5R_6\right) + s\left(C_2R_1R_2R_5 + C_2R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_3R_5R_6\right) + s\left(C_2R_1R_2R_5 + C_2R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_3R_5R_6\right) + s\left(C_2R_1R_2R_5 + C_4R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5R_6\right) + s\left(C_2R_1R_2R_5 + C_4R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5\right) + s\left(C_2R_1R_2R_5 + C_4R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5\right) + s\left(C_2R_1R_2R_5 + C_4R_2R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5\right) + s\left(C_2R_1R_2R_5 + C_4R_2R_3R_5 + C_6R_2R_3R_5\right) + s\left(C_2R_1R_2R_5 + C_4R_2R_3R_5\right) + s\left(C_2R_1R_3R_5 + C_4R_3R_5\right) + s\left(C_2R_1R_3R_5\right) + s\left(C_2$

Parameters:

 $\frac{C_2\sqrt{C_6}R_1\sqrt{R_2}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \frac{R_2R_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} +$

wo: $\sqrt{\frac{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5}{C_2C_6R_1R_2R_5R_6 + C_2C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_5R_6 - C_5C_6R_2R_3R_5R_6}}$

 $\frac{\sqrt{\sqrt{2} + (R_1 R_2 + R_3 + C_4 R_3 - C_5 R_3} + (R_2 R_3 + R_4 R_3 - C_5 R_3)} + (R_2 R_3 + R_3 R_5 + R_4 R_3 - C_5 R_3)}{C_2 \sqrt{C_6} R_1 \sqrt{R_2} \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_2 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_2 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{R_6} \sqrt{\frac{R_1 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3} + \frac{R_3 R_5}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_4 \sqrt{C_6} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{$

K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: 0

K-BP: $\frac{C_5R_1R_2R_5R_6}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_4R_2R_3R_5-C_5R_2R_3R_5+C_6R_1R_5R_6-C_6R_2R_3R_6+C_6R_2R_5R_6+C_6R_3R_5R_6}$ Qz: None

9.122 X-INVALID-NUMER-122 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5, R_6\right)$

$$H(s) = \frac{C_4 R_1 R_2 R_4 R_6 s + R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^2 \left(C_2 C_4 R_1 R_2 R_4 R_5 + C_2 C_4 R_2 R_3 R_4 R_5\right) + s \left(C_2 R_1 R_2 R_5 + C_2 R_2 R_3 R_5 + C_4 R_1 R_4 R_5 - C_4 R_2 R_3 R_4 + C_4 R_2 R_3 R_5 + C_4 R_2 R_4 R_5 + C_4 R_3 R_4 R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_4R_1R_4R_5-C_4R_2R_3R_4+C_4R_2R_3R_5+C_4R_2R_4R_5+C_4R_3R_4R_5}}$ wo: $\frac{\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{\sqrt{C_2C_4R_1R_2R_4R_5+C_2C_4R_2R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_2R_5+C_2C_4R_2R_3R_5+C_4R_2R_3R_4R_5}{\sqrt{C_2}\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_4R_1R_2R_4R_5+C_4R_2R_3R_4R_5}}}{\sqrt{C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_4R_1R_2R_4R_5+C_2C_4R_2R_3R_4R_5}}}}$ K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{K-HP: 0}$

K-BP: $\frac{C_4R_1R_2R_4R_6}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_4R_1R_4R_5-C_4R_2R_3R_4+C_4R_2R_3R_5+C_4R_2R_4R_5+C_4R_3R_4R_5}$ Qz: None

Wz: None

9.123 X-INVALID-NUMER-123 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^2\left(C_2C_4R_1R_2R_4 + C_2C_4R_2R_3R_4 - C_4C_5R_2R_3R_4\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3\right)}$$

Parameters:

 $Q: \frac{C_2\sqrt{C_4}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_4}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_4}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - C_2R_1R_2+C_2R_2R_3+C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3}$

 $\text{wo: } \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 C_4 R_1 R_2 R_4 + C_2 C_4 R_2 R_3 R_4 - C_4 C_5 R_2 R_3 R_4}} \\ \text{bandwidth: } \frac{\sqrt{R_1 + R_2 + R_3} (C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_1 R_4 + C_4 R_2 R_3 + C_4 R_2 R_4 + C_4 R_3 R_4 - C_5 R_2 R_3) \sqrt{\frac{1}{C_2 C_4 R_1 R_2 R_4 + C_2 C_4 R_2 R_3 R_4 - C_4 C_5 R_2 R_3 R_4}}}{C_2 \sqrt{C_4} \sqrt{R_1} \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} R_3 \sqrt{$

K-LP: 0

K-HP: $\frac{C_5 R_1 R_6}{C_2 R_1 + C_2 R_3 - C_5 R_3}$

K-BP: $\frac{C_5R_1R_2R_6}{C_2R_1R_2+C_2R_2R_3+C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3}{\text{Qz: None}}$

Wz: None

9.124 X-INVALID-NUMER-124 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_4C_5R_1R_2R_4s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_2C_4C_6R_1R_2R_4 + C_2C_4C_6R_2R_3R_4 - C_4C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_1R_2 + C_2C_6R_2R_3 + C_4C_6R_2R_3 + C_4C_6R_2R_3 + C_4C_6R_2R_4 + C_4C_6R_2R_4 + C_4C_6R_2R_4 + C_4C_6R_2R_4\right)}$$

Parameters:

$$Q: \frac{C_2\sqrt{C_4}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_4}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_4}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - C_2R_1R_2 + C_2R_2R_3 + C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3}{C_2R_1R_2+C_2R_2R_3+C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3}$$

 $\text{wo: } \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 C_4 R_1 R_2 R_4 + C_2 C_4 R_2 R_3 R_4 - C_4 C_5 R_2 R_3 R_4}} \\ \text{bandwidth: } \frac{\sqrt{R_1 + R_2 + R_3} (C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_1 R_4 + C_4 R_2 R_3 + C_4 R_2 R_4 + C_4 R_3 R_4 - C_5 R_2 R_3) \sqrt{\frac{1}{C_2 C_4 R_1 R_2 R_4 + C_2 C_4 R_2 R_3 R_4 - C_4 C_5 R_2 R_3 R_4}}}{C_2 \sqrt{C_4} \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_4} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - \sqrt{C_4} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} - C_4 \sqrt{R_2} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt{R_2} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_1 + R_2 + R_3}} + C_4 \sqrt$

K-LP: $\frac{C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3}$ K-HP: 0

K-BP: $\frac{C_4C_5R_1R_2R_4}{C_2C_6R_1R_2+C_2C_6R_2R_3+C_4C_6R_1R_4+C_4C_6R_2R_3+C_4C_6R_2R_4+C_4C_6R_3R_4-C_5C_6R_2R_3}$ Qz: None

Wz: None

9.125 X-INVALID-NUMER-125 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4$ $\overline{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + S^2\left(C_2C_5C_6R_1R_2R_4R_5 + C_2C_5C_6R_2R_3R_4R_5 + C_4C_5C_6R_2R_3R_4R_5\right) + s\left(C_2C_6R_1R_2R_4 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 + C_5C_6R_2R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R$

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Q: \frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_2R_1R_2R_4+C_2R_2R_3R_4+C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5} wo: \frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_2C_5R_1R_2R_4R_5+C_2C_5R_2R_3R_4R_5+C_4C_5R_2R_3R_4R_5}} bandwidth: \frac{C_2R_1R_2R_4+C_2R_2R_3R_4+C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_5R_1R_2R_4R_5+C_2C_5R_2R_3R_4R_5+C_4C_5R_2R_3R_4R_5}} K-LP: \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4} K-HP: 0
               K-BP: \frac{C_5R_1R_2R_4R_6}{C_2R_1R_2R_4+C_2R_2R_3R_4+C_4R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}{\text{Qz: None}} Qz: None
                Wz: None
9.126 X-INVALID-NUMER-126 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_5R_1R_2R_4R_5R_6s + R_1R_2R_4R_6
H(s) = \frac{1}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_6 R_2 R_3 R_4 R_5 R_6 + C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_4 C_6 R_2 R_3 R_4 R_5 + C_4 R_2 R_3 R_4 R_5 + C_4 R_2 R_3 R_4 R_5 + C_5 R_2 R_3 R_4 R_5 + C_6 R_1 R_4 R_5 R_6 + C_6 R_2 R_3 R_4 R_5 + C_6 R_2 R_3 R_
       Parameters:
                 O\colon \frac{C_2\sqrt{C_6}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \frac{R_2R_3R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_3R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_3R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_4R_5}{C_2R_1+
                                                                              \frac{\sqrt{C_2\sqrt{C_6}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \frac{R_2R_3R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_3R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_3R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_3R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_3R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_3R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_4R_5}{C_2R_1+C
               K-LP: \frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}K-HP: 0
                \begin{array}{l} \text{K-BP:} \ \frac{C_5R_1R_2R_4R_5R_6}{C_2R_1R_2R_4R_5+C_2R_2R_3R_4R_5+C_4R_2R_3R_4R_5-C_5R_2R_3R_4R_5+C_6R_1R_4R_5R_6-C_6R_2R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6} \\ \text{Qz: None} \end{array} 
                 Wz: None
9.127 X-INVALID-NUMER-127 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                         H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{C_2C_3C_6R_1R_2R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5\right)}
       Parameters:
                 Q: \frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2}R_4 + R_2R_5 + R_4R_5}{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5}}
        \begin{array}{l} \text{C}_{2}R_{2}\sqrt{R_{4}\sqrt{R_{5}}} + C_{3}R_{1}\sqrt{R_{4}\sqrt{R_{5}}} + C_{3}R_{2}\sqrt{R_{4}\sqrt{R_{5}}} \\ \text{Wo:} \quad \frac{\sqrt{-R_{2}R_{4}} + R_{2}R_{5} + R_{4}R_{5}}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}} \\ \text{bandwidth:} \quad \frac{C_{2}R_{2}\sqrt{R_{4}}\sqrt{R_{5}} + C_{3}R_{1}\sqrt{R_{4}}\sqrt{R_{5}} + C_{3}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}}{C_{2}C_{3}R_{1}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}} \\ \text{K-LP:} \quad -\frac{C_{3}R_{1}R_{2}R_{4}}{C_{6}R_{2}R_{4} - C_{6}R_{2}R_{5} - C_{6}R_{4}R_{5}} \\ \text{K-HP:} \quad 0 \\ \end{array} 
               K-BP: \frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5+C_3R_2R_5} Qz: None
                Wz: None
9.128 X-INVALID-NUMER-128 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_2C_3C_6R_1R_2R_4s^2 + C_6R_2 + C_6R_4 + s\left(C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4\right)}
        Parameters:
             Q: \frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2+R_4}}{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}wo: \frac{\sqrt{R_2+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}bandwidth: \frac{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}{C_2C_3R_1R_2\sqrt{R_4}}
```

K-LP: 0K-HP: $\frac{C_5R_6}{C_2}$

Oz: None

K-BP: $\frac{C_3C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}$

9.129 X-INVALID-NUMER-129 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{C_2C_3R_1R_2R_4R_5s^2 - R_2R_4 + R_2R_5 + R_4R_5 + s\left(C_2R_2R_4R_5 + C_3R_1R_4R_5 + C_3R_2R_4R_5 - C_5R_2R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2}R_4 + R_2}{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} - C_5R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2}R_4 + R_2R_5 + R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} - C_5R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_2R_2R_5+C_3R_1R_2R_6}$ Qz: None

Wz: None

9.130 X-INVALID-NUMER-130 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{C_2C_3C_6R_1R_2R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}-C_5R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}-C_5R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2}{C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 - C_5C_6R_2}$ Qz: None

Wz: None

9.131 X-INVALID-NUMER-131 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_6s + C_3R_1R_2}{C_2C_3C_6R_1R_2R_5s^2 - C_6R_2 + C_6R_5 + s\left(C_2C_6R_2R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2+R_5}}{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1R_2}{C_6R_2-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ Qz: None

9.132 X-INVALID-NUMER-132 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_2C_3C_6R_1R_2s^2 + C_6 + s\left(C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}{C_2R_2+C_3R_1+C_3R_2+C_4R_2-C_5R_2}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}$ bandwidth: $\frac{C_2R_2+C_3R_1+C_3R_2+C_4R_2-C_5R_2}{C_2C_3R_1R_2}$ V. I.D. 0

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ Qz: None

Wz: None

9.133 X-INVALID-NUMER-133 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{C_2C_3R_1R_2R_5s^2 - R_2 + R_5 + s\left(C_2R_2R_5 + C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5 - C_5R_2R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2+R_5}}{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}-C_5R_2\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}-C_5R_2\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_5}}$

K-LP: 0 K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5+C_3R_2R_5+C_4R_2R_5-C_5R_2R_5}$ Qz: None Wz: None

9.134 X-INVALID-NUMER-134 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_5s + C_3R_1R_2}{C_2C_3C_6R_1R_2R_5s^2 - C_6R_2 + C_6R_5 + s\left(C_2C_6R_2R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5 - C_5C_6R_2R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2+R_5}}{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}-C_5R_2\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}-C_5R_2\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1R_2}{C_6R_2-C_6R_5}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ Qz: None

Wz: None

9.135 X-INVALID-NUMER-135 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{C_2C_3C_6R_1R_2R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_4C_6R_2R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_2R_2\sqrt{R_4}\sqrt{R_5+C_3}R_1\sqrt{R_4}\sqrt{R_5+C_3}R_2\sqrt{R_4}\sqrt{R_5+C_4}R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$

bandwidth: $\frac{C_2 R_2 \sqrt{R_4} \sqrt{R_5} + C_3 R_1 \sqrt{R_4} \sqrt{R_5} + C_3 R_2 \sqrt{R_4} \sqrt{R_5} + C_4 R_2 \sqrt{R_4} \sqrt{R_5}}{C_2 C_3 R_1 R_2 \sqrt{R_4} \sqrt{R_5}}$

K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ Qz: None

Wz: None

9.136 X-INVALID-NUMER-136 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_2C_3C_6R_1R_2R_4s^2 + C_6R_2 + C_6R_4 + s\left(C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2+R_4}}{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}+C_4R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{R_2+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}+C_3R_1\sqrt{R_4}+C_3R_2\sqrt{R_4}+C_4R_2\sqrt{R_4}-C_5R_2\sqrt{R_4}}{C_2C_3R_1R_2\sqrt{R_4}}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2C_3C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ Qz: None

Wz: None

9.137 X-INVALID-NUMER-137 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5s^2 + C_3R_1R_2R_4R_6s}{C_2C_3R_1R_2R_4R_5s^2 - R_2R_4 + R_2R_5 + R_4R_5 + s\left(C_2R_2R_4R_5 + C_3R_1R_4R_5 + C_3R_2R_4R_5 + C_4R_2R_4R_5 - C_5R_2R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2}R_4 + R_2}{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} + C_4R_2\sqrt{R_4}\sqrt{R_5} - C_5R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2}R_4 + R_2R_5 + R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} + C_4R_2\sqrt{R_4}\sqrt{R_5} - C_5R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

K-LP: 0 K-L1 . \circ K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5+C_3R_2R_5+C_4R_2R_5-C_5R_2R_5}$ Qz: None

Wz: None

9.138 X-INVALID-NUMER-138 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{C_2C_3C_6R_1R_2R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_4C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2}R_4 + R_2}{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} + C_4R_2\sqrt{R_4}\sqrt{R_5} - C_5R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2}R_4 + R_2}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} + C_4R_2\sqrt{R_4}\sqrt{R_5} - C_5R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

 $\begin{array}{l} \text{K-LP:} -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5} \\ \text{K-HP:} \ 0 \end{array}$

K-BP: $\frac{C_3C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ Qz: None

9.139 X-INVALID-NUMER-139
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5, R_6 + \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s\left(C_2C_6R_2R_4R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_5R_5R_5 + C_3C_6R_5R_5 + C_3C_6R_5R_5 + C_3C_6R_5R_5 + C_3C_6R_5R_5 + C_3C_6R_5R_5 + C_3C_6R_5R_$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_2R_2R_4R_5+C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5}}$ bandwidth: $\frac{C_2R_2R_4R_5+C_3R_2R_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_3R_1R_2R_4R_5+C_3R_2R_4R_5}}$ K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_2R_2R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5}$

Qz: None Wz: None

9.140 X-INVALID-NUMER-140 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_2R_4 + C_2C_3C_6R_2R_3R_4 - C_3C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_2R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_2R_4\right)}$$

Parameters:

 $Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - C_2R_2R_4+C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4-C_5R_2R_4}$

 $\text{bandwidth: } \frac{\sqrt{R_2 + R_4}(C_2 R_2 R_4 + C_3 R_1 R_4 + C_3 R_2 R_3 + C_3 R_2 R_4 + C_3 R_3 R_4 - C_5 R_2 R_4) \sqrt{\frac{1}{C_2 C_3 R_1 R_2 R_4 + C_2 C_3 R_2 R_3 R_4 - C_3 C_5 R_2 R_3 R_4}}{C_2 \sqrt{C_3} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_3} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_3} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_3} C_5 \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4} \sqrt{R_2 + R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_4}} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} \sqrt{$

K-LP: 0

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}$

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_2C_6R_2R_4+C_3C_6R_1R_4+C_3C_6R_2R_3+C_3C_6R_2R_4+C_3C_6R_3R_4-C_5C_6R_2R_4}$ Qz: None

Wz: None

9.141 X-INVALID-NUMER-141 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_2R_4R_5 + C_2C_3R_2R_3R_4R_5 - C_3C_5R_2R_3R_4R_5\right) + s\left(C_2R_2R_4R_5 + C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_2R_4R_5 - C_5R_2R_4R_5\right)}$$

Parameters:

 $\frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3-C_5R_3}}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}}{+C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3-C_5R_3}}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}}-\sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3-C_5R_3}}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}$

K-HP: $\frac{C_5 R_1 R_6}{C_2 R_1 + C_2 R_3 - C_5 R_3}$

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_2R_2R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 - C_5R_2R_4R_5}{\text{Qz: None}}$

Wz: None

9.142 X-INVALID-NUMER-142 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 - C_3C_5C_6R_2R_3R_4R_5\right) + s\left(C_2C_6R_2R_4R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_5R_5 + C_3C_6R_5 + C_3C_6R_5R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_$$

```
\frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3-C_5R_3}}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}}{+C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3-C_5R_3}}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}}-\sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3-C_5R_3}}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1
                                                                                                                                                                                                                                                                                                                                                                                \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5-C_3C_5R_2R_3R_4R_5}}(C_2R_2R_4R_5+C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5-C_5R_2R_4R_5)
                 \frac{\sqrt{C_2C_3R_1R_2R_4R_5 + C_2C_3R_2R_3R_4R_5 - C_3C_5R_2R_3R_4R_5}}{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1 + C_2R_3 - C_5R_3}} + \frac{R_2R_5}{C_2R_1 + C_2R_3 - C_5R_3}} + \frac{R_4R_5}{C_2R_1 + C_2R_3 - C_5R_3} + \frac{R_2R_5}{C_2R_1 + C_2R_3 - C_5R_3} + \frac{R_4R_5}{C_2R_1 + C_2R_3 - C_5R_3} + \frac{R_
               K-LP: -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}
                 K-HP: 0
                 \begin{array}{l} \text{K-BP:} \ \frac{C_3C_5R_1R_2R_4R_5}{C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_3R_4R_5 - C_5C_6R_2R_4R_5} \\ \text{Qz: None} \end{array} 
                  Wz: None
9.143 X-INVALID-NUMER-143 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                    H(s) = \frac{C_3C_6R_1R_2R_6s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_3C_6R_2R_3R_5 + C_3C_4C_6R_2R_3R_5\right) + s\left(C_2C_6R_2R_5 + C_3C_6R_1R_5 - C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_5 + C_3C_6R_
       Parameters:
                 K-HP: 0
                K-BP: \frac{C_3R_1R_2R_6}{C_2R_2R_5 + C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_4R_2R_5}
                    Qz: None
                    Wz: None
9.144 X-INVALID-NUMER-144 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s
                                                                                                                                                                                                                                                                                             H(s) = \frac{C_3C_3C_3C_4C_1R_2}{C_6 + s^2\left(C_2C_3C_6R_1R_2 + C_2C_3C_6R_2R_3 + C_3C_4C_6R_2R_3 - C_3C_5C_6R_2R_3\right) + s\left(C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2\right)}
         Parameters:
                                  \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-C_2R_2+C_3R_1+C_3R_2+C_3R_3+C_4R_2-C_5R_2}
                 Wo: \sqrt{\frac{1}{C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_3C_4R_2R_3 - C_3C_5R_2R_3}}
                                                                                                                                                                                                                                                                      (C_2R_2 + C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 - C_5R_2)\sqrt{\frac{1}{C_2C_3R_1R_2 + C_2C_3R_2}\frac{1}{R_3 + C_3C_4R_2R_3 - C_3C_5R_2}R_3}
               \frac{(2^{2}+3^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6^{3}+6
                 K-LP: 0
             K-HP: \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} K-BP: \frac{C_3C_5R_1R_2}{C_2C_6R_2+C_3C_6R_1+C_3C_6R_2+C_3C_6R_3+C_4C_6R_2-C_5C_6R_2} Qz: None
                  Wz: None
9.145 X-INVALID-NUMER-145 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)
                                                                                                                                                                                                                                          H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^2\left(C_2C_3R_1R_2R_5 + C_2C_3R_2R_3R_5 + C_3C_4R_2R_3R_5 - C_3C_5R_2R_3R_5\right) + s\left(C_2R_2R_5 + C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_4R_2R_5 - C_5R_2R_5\right)}
         Parameters:
                                                                                    \frac{-R_2 + R_5}{\sqrt{C_2 C_3 R_1 R_2 R_5 + C_2 C_3 R_2 R_3 R_5 + C_3 C_3 R_2 R_3 + C_3 C_3 R_2 R_3 + C_3 R_2 R_5 + C_3 R_2 R_3 R_5 + C_3 R_2 R_5 + C_3 R_2 R_3 R_5 + C_3 
                 K-LP: 0
```

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}$ K-BP: $\frac{C_3R_1R_2R_6}{C_2R_2R_5+C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5-C_5R_2R_5}$ Qz: None

Wz: None

9.146 X-INVALID-NUMER-146 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_5s + C_3R_1R_2$ $H(s) = \frac{C_3C_5R_1R_2R_5s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_3C_6R_2R_3R_5 + C_3C_4C_6R_2R_3R_5 - C_3C_5C_6R_2R_3R_5\right) + s\left(C_2C_6R_2R_5 + C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_5 + C_$

Parameters:

Wo: $\sqrt{\frac{-R_2 + R_5}{C_2 C_3 R_1 R_2 R_5 + C_2 C_3 R_2 R_3 R_5 + C_3 C_4 R_2 R_3 R_5 - C_3 C_5 R_2 R_3 R_5}}$

 $\frac{-R_2 + R_5}{\sqrt{C_2 C_3 R_1 R_2 R_5 + C_2 C_3 R_2 R_3 + C_3 C_5 R_2 R_3 F_5}} (C_2 R_2 R_5 + C_3 R_1 R_5 - C_3 R_2 R_3 + C_3 R_2 R_5 + C_3 R_3 R_5 + C_4 R_2 R_5 - C_5 R_2 R_5)}{C_2 \sqrt{C_3} R_1 \sqrt{R_2} \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_$

K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_5}{C_2C_6R_2R_5+C_3C_6R_1R_5-C_3C_6R_2R_3+C_3C_6R_2R_5+C_3C_6R_3R_5+C_4C_6R_2R_5-C_5C_6R_2R_5}$ Qz: None

Wz: None

9.147 X-INVALID-NUMER-147 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_6s}\right)$

 $C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4$ $H(s) = \frac{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_3R_4 + C_3C$

Parameters:

wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5+C_3C_4R_2R_3R_4R_5}}$ bandwidth: $\frac{C_2R_2R_4R_5+C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3}{\sqrt{C_3\sqrt{R_2\sqrt{R_4\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_4}}}}$ K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}$ K-HP: 0

 $\text{K-BP: } \frac{C_3R_1R_2R_4R_6}{C_2R_2R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 + C_4R_2R_4R_5}{C_2R_2R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 + C_4R_2R_4R_5}$

Qz: None Wz: None

9.148 X-INVALID-NUMER-148 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s$ $H(s) = \frac{C_3C_5C_6R_1R_2C_4C_6C_7 + C_3C_5C_6R_2R_3R_4 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_4 - C_3C_5C_6R_2R_3R_4) + s\left(C_2C_6R_2R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6$

Parameters:

 $\text{Q:} \begin{array}{c} \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ & - C_2R_2R_4+C_3R_1R_4+C_3R_2R_3+C_4R_3-C_5R_3 + C_4R_3-C_5R_3 + C_4R_3-C_$

wo: $\sqrt{R_2 + R_4} \sqrt{\frac{1}{C_2 C_3 R_1} \frac{1}{R_2 R_4 + C_2 C_3 R_2 R_3 R_4 + C_3 C_4 R_2 R_3 R_4 - C_3 C_5 R_2 R_3 R_4}}$

 $\sqrt{R_2 + R_4} (C_2 R_2 R_4 + C_3 R_1 R_4 + C_3 R_2 R_3 + C_3 R_2 R_4 + C_3 R_3 R_4 + C_4 R_2 R_4 - C_5 R_2 R_4) \sqrt{\frac{1}{C_2 C_3 R_1 R_2 R_4 + C_2 C_3 R_2 R_3 R_4 + C_3 C_4 R_2 R_3 R_4 - C_3 C_5 R_2 R_3 R_4}}$

K-LP: 0

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_3C_5R_1R_2R_4}{C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_3R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4} \\ \end{array}$

Qz: None Wz: None **9.149** X-INVALID-NUMER-149 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

 $C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s$

 $H(s) = \frac{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_2R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 - C_3C_5R_2R_3R_4R_5 + C_3R_2R_4R_5 + C_3R_2R_3R_4 + C_3R_2R_3R_4$

Parameters:

 $\frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\frac{R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}{+\frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\frac{R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}$

 $\sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5+C_3C_4R_2R_3R_4R_5-C_3C_5R_2R_3R_4R_5}}(C_2R_2R_4R_5+C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5-C_5R_2R_4R_5)$ $\frac{\sqrt{\sqrt{c_2 c_3 n_1 n_2 n_4 n_5 + c_2 c_3 n_2 n_3 n_4 n_5 + c_2 n_3 n_4 n_5 + c_2 n_3 n_4 n_5 + c_2 n_4 n_$

K-LP: 0

K-HP: $\frac{C_5 R_1 R_6}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_3R_1R_2R_4R_6}{C_2R_2R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 + C_4R_2R_4R_5 - C_5R_2R_4R_5} \\ \end{array}$

Wz: None

9.150 X-INVALID-NUMER-150 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4$ $\overline{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_3C_$

Parameters:

 $O: \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R$

wo: $\sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5+C_3C_4R_2R_3R_4R_5-C_3C_5R_2R_3R_4R_5}}$

 $\frac{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}{C_{2}C_{3}R_{1}R_{2}R_{4}+R_{5}+C_{3}C_{2}R_{2}R_{3}R_{4}+F_{5}+C_{3}C_{2}R_{3}R_{4}+F_{5}+C_{3}R_{2}R_{3}R_{4}+F_{5}+C_{3}R_{2}R_{3}R_{4}+F_{5}+C_{3}R_{2}R_{3}R_{4}+F_{5}+C_{3}R_{2}R_{3}R_{4}+F_{5}+C_{3}R_{2}R_{3}R_{4}+F_{5}+C_{3}R_{2}R_{4}R_{5}+C_{3}R_{4}R_{5}+C_{3}R_{4}R_{5}+C_{4}R_{4}R_{5}+C_{4}R_{4}R_{5}+C_{4}R_{4}R_{5}+C_{4}R_{4}R_{5}+C_{4}R_{4}R_{5}+C_{4}R_{4}$

 $\begin{array}{l} \text{K-LP:} -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5} \\ \text{K-HP:} \ 0 \end{array}$

 $\text{K-BP:} \ \frac{C_3C_5R_1R_2R_4R_5}{C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_3R_4R_5 + C_4C_6R_2R_4R_5 - C_5C_6R_2R_4R_5} \\ \text{Qz: None}$

Wz: None

9.151 X-INVALID-NUMER-151 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5, R_6\right)$

 $C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6$ $H(s) = \frac{1}{C_2C_3R_1R_2R_3R_4R_5s^2 + R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s\left(C_2R_1R_2R_4R_5 + C_2R_2R_3R_4R_5 + C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1R_4R_5} - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{C_2R_1R_2\sqrt{R_4}\sqrt{R_5} + C_2R_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_1R_3\sqrt{R_4}\sqrt{R_5} + C_3R_2R_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{R_1R_4R_5} - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4}\sqrt{R_5} + C_2R_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_1R_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2R_3\sqrt{R_4}\sqrt{R_5}}$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_2R_3R_6}{C_2R_1R_2R_5 + C_2R_2R_3R_5 + C_3R_1R_3R_5 + C_3R_2R_3R_5}$

Qz: None

Wz: None

9.152 X-INVALID-NUMER-152 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{C_2C_3R_1R_2R_3R_4s^2 + R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s\left(C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4\right)}$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}{C_2R_1R_2\sqrt{R_4} + C_2R_2R_3\sqrt{R_4} + C_3R_1R_3\sqrt{R_4} + C_3R_2R_3\sqrt{R_4} - C_5R_2R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4} + C_2R_2R_3\sqrt{R_4} + C_3R_1R_3\sqrt{R_4} + C_3R_2R_3\sqrt{R_4} - C_5R_2R_3\sqrt{R_4}}{C_2C_3R_1R_2R_3\sqrt{R_4}}$ K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$ K-BP: $\frac{C_2}{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3-C_5R_2R_3}$ Qz: None Wz: None

9.153 X-INVALID-NUMER-153 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4$ $H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4}{C_2C_3C_6R_1R_2R_3R_4s^2 + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_2C_6R_1R_2R_4 + C_2C_6R_2R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}{C_2R_1R_2\sqrt{R_4} + C_2R_2R_3\sqrt{R_4} + C_3R_1R_3\sqrt{R_4} + C_3R_2R_3\sqrt{R_4} - C_5R_2R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4} + C_2R_2R_3\sqrt{R_4} + C_3R_1R_3\sqrt{R_4} + C_3R_2R_3\sqrt{R_4} - C_5R_2R_3\sqrt{R_4}}{C_2C_3R_1R_2R_3\sqrt{R_4}}$

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_3}{C_2C_6R_1R_2+C_2C_6R_2R_3+C_3C_6R_1R_3+C_3C_6R_2R_3-C_5C_6R_2R_3}$ Qz: None

Wz: None

9.154 X-INVALID-NUMER-154 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, R_6\right)$

 $H(s) = \frac{C_3R_1R_2R_3R_6s + R_1R_2R_6}{C_2C_3R_1R_2R_3R_5s^2 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s\left(C_2R_1R_2R_5 + C_2R_2R_3R_5 + C_3R_1R_3R_5 + C_3R_2R_3R_5 + C_4R_2R_3R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{C_2R_1R_2\sqrt{R_5}+C_2R_2R_3+R_3R_5}$ wo: $\frac{\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_5}+C_2R_2R_3\sqrt{R_5}+C_3R_1R_3\sqrt{R_5}+C_3R_2R_3\sqrt{R_5}}{C_3C_3R_3R_3R_3\sqrt{R_5}+C_3R_2R_3\sqrt{R_5}}$

K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_2R_3R_6}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_2R_3R_5}$ Qz: None

Wz: None

9.155 X-INVALID-NUMER-155 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{C_2C_3R_1R_2R_3s^2 + R_1 + R_2 + R_3 + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 - C_5R_2R_3\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}}{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $\frac{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}{C_2C_3R_1R_2R_3}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3} \\ \text{Qz: None}$

9.156 X-INVALID-NUMER-156
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_3s + C_5R_1R_2}{C_2C_3C_6R_1R_2R_3s^2 + C_6R_1 + C_6R_2 + C_6R_3 + s\left(C_2C_6R_1R_2 + C_2C_6R_2R_3 + C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_4C_6R_2R_3 - C_5C_6R_2R_3\right)}$$

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}}{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $\frac{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}{C_2C_3R_1R_2R_3}$

K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_3}{C_2C_6R_1R_2+C_2C_6R_2R_3+C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3-C_5C_6R_2R_3}$ Qz: None

Wz: None

9.157 X-INVALID-NUMER-157 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)$

$$H(s) = \frac{C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6}{C_2C_3R_1R_2R_3R_4R_5s^2 + R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s\left(C_2R_1R_2R_4R_5 + C_2R_2R_3R_4R_5 + C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 + C_4R_2R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1}R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{C_2R_1R_2\sqrt{R_4}\sqrt{R_5} + C_2R_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_1R_3\sqrt{R_4}\sqrt{R_5} + C_3R_2R_3\sqrt{R_4}\sqrt{R_5} + C_4R_2R_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{R_1R_4R_5} - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4}\sqrt{R_5} + C_2R_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_1R_3\sqrt{R_4}\sqrt{R_5} + C_3R_2R_3\sqrt{R_4}\sqrt{R_5} + C_4R_2R_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2R_3\sqrt{R_4}\sqrt{R_5}}$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_2R_3R_6}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_2R_3R_5}$ Qz: None

Wz: None

9.158 X-INVALID-NUMER-158 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{C_2C_3R_1R_2R_3R_4s^2 + R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s\left(C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}{C_2R_1R_2\sqrt{R_4} + C_2R_2R_3\sqrt{R_4} + C_3R_1R_3\sqrt{R_4} + C_3R_2R_3\sqrt{R_4} + C_4R_2R_3\sqrt{R_4} - C_5R_2R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4} + C_2R_2R_3\sqrt{R_4} + C_3R_1R_3\sqrt{R_4} + C_3R_2R_3\sqrt{R_4} + C_4R_2R_3\sqrt{R_4} - C_5R_2R_3\sqrt{R_4}}{C_2C_3R_1R_2R_3\sqrt{R_4}}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_5R_1R_2R_6}{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}$ Qz: None

Wz: None

9.159 X-INVALID-NUMER-159 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4}{C_2C_3C_6R_1R_2R_3R_4s^2 + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_2C_6R_1R_2R_4 + C_2C_6R_2R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1R_4}+R_2R_3+R_2R_4+R_3R_4}{C_2R_1R_2\sqrt{R_4}+C_2R_2R_3\sqrt{R_4}+C_3R_1R_3\sqrt{R_4}+C_3R_2R_3\sqrt{R_4}+C_4R_2R_3\sqrt{R_4}-C_5R_2R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$

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bandwidth: \frac{C_2R_1R_2\sqrt{R_4}+C_2R_2R_3\sqrt{R_4}+C_3R_1R_3\sqrt{R_4}+C_3R_2R_3\sqrt{R_4}+C_4R_2R_3\sqrt{R_4}-C_5R_2R_3\sqrt{R_4}}{C_2C_3R_1R_2R_3\sqrt{R_4}}
K-LP: \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}
K-HP: 0
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K-BP: $\frac{C_3C_5R_1R_2R_3}{C_2C_6R_1R_2+C_2C_6R_2R_3+C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3-C_5C_6R_2R_3}$ Qz: None

Wz: None

9.160 X-INVALID-NUMER-160 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 C_6 R_2 R_4 R_6 s + C_5 R_2 R_4}{-C_1 C_5 C_6 R_2 R_3 R_4 s^2 + C_6 R_4 + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4\right)}$$

Parameters:

Q: $-\frac{i\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}R_4}{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}$

wo: $\frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}{\sqrt{C_1}C_5R_2R_3R_4}$

K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0

K-BP: $\frac{C_5 R_2 R_4 R_6}{C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4}$

Qz: None Wz: None

9.161 X-INVALID-NUMER-161 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_2R_4R_6s + C_5R_2R_4}{C_6R_4 + s^2\left(-C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_5 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_3R_4R_5\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_5C_6R_4R_5\right)}$$

Parameters:

$$Q: \frac{-\sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}^{\frac{3}{2}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}\sqrt{R_{4}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_$$

 $\sqrt{R_4}\sqrt{-\tfrac{1}{C_1C_5R_2R_3R_4-C_1C_5R_2R_3R_5-C_1C_5R_2R_4R_5-C_1C_5R_3R_4R_5}}(C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_5R_4R_5)$ $-\sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}^{\frac{3}{2}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}\sqrt{R_{4}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4$

K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0

K-BP: $\frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_5R_4R_5}$ Qz: None

Wz: None

9.162 X-INVALID-NUMER-162 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_2 R_4 R_5 R_6 s + R_2 R_4 R_6}{-C_1 C_5 R_2 R_3 R_4 R_5 s^2 + R_4 R_5 + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5\right)}$$

Parameters:

wo: $\frac{i}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $\frac{\sqrt{C_1}R_2R_3R_4 - \sqrt{C_1}R_2R_3R_5 - \sqrt{C_1}R_2R_4R_5 - \sqrt{C_1}R_3R_4R_5}{\sqrt{C_1}C_5R_2R_3R_4R_5}$

K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0

K-BP: $-\frac{C_5R_2R_4R_5R_6}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5}$

Qz: None Wz: None

9.163 X-INVALID-NUMER-163
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_2 R_6 s + C_5 R_2}{C_6 + s^2 \left(C_1 C_4 C_6 R_2 R_3 - C_1 C_5 C_6 R_2 R_3\right) + s \left(C_1 C_6 R_2 + C_1 C_6 R_3\right)}$$

$$\begin{array}{l} Q\colon \frac{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1R_2+\sqrt{C_1}}R_3}\\ \text{wo: } \sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}\\ \text{bandwidth: } \frac{\left(\sqrt{C_1}R_2+\sqrt{C_1}R_3\right)\sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_2}{C_6}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_5R_2R_6}{C_1R_2+C_1R_3}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

9.164 X-INVALID-NUMER-164 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_2 R_5 R_6 s + R_2 R_6}{R_5 + s^2 \left(C_1 C_4 R_2 R_3 R_5 - C_1 C_5 R_2 R_3 R_5\right) + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5\right)}$$

Parameters:

9.165 X-INVALID-NUMER-165 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_4 R_2 R_4 R_6 s + R_2 R_6}{R_5 + s^2 \left(-C_1 C_4 R_2 R_3 R_4 + C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_4 R_5 + C_1 C_4 R_3 R_4 R_5\right) + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_4 R_4 R_5\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_1}\sqrt{C_4}R_2R_3R_4\sqrt{R_5}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}} - \sqrt{C_1}\sqrt{C_4}R_2R_3R_5^{\frac{3}{2}}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}} - \sqrt{C_1}\sqrt{C_4}R_2R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}} - \sqrt{C_1}\sqrt{C_4}R_2R_3R_5^{\frac{3}{2}}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}} - \sqrt{C_1}\sqrt{C_4}R_2R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}} - \sqrt{C_1}\sqrt{C_4}R_2R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5}} - \sqrt{C_1}\sqrt{$$

9.166 X-INVALID-NUMER-166
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_2R_4R_6s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4\right)}$$

$$\begin{array}{l} Q\colon \frac{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}\\ \text{wo: } \sqrt{\frac{1}{C_1C_4R_2}\frac{1}{R_3-C_1C_5R_2R_3}}\\ \text{bandwidth: } \frac{\left(\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4\right)\sqrt{\frac{1}{C_1C_4R_2}\frac{1}{R_3-C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_2}{C_6}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

9.167 X-INVALID-NUMER-167 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_5 R_2 R_4 R_5 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^2 \left(C_1 C_4 R_2 R_3 R_4 R_5 - C_1 C_5 R_2 R_3 R_4 R_5\right) + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{-C_4\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_4-C_5}} + C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_2R_3R_4-\sqrt{C_1}R_2R_3R_5-\sqrt{C_1}R_2R_4R_5-\sqrt{C_1}R_3R_4R_5} \\ \text{wo: } \sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{\left(\sqrt{C_1}R_2R_3R_4-\sqrt{C_1}R_2R_3R_5-\sqrt{C_1}R_2R_4R_5-\sqrt{C_1}R_3R_4R_5\right)\sqrt{\frac{1}{C_1C_4R_2R_3}-C_1C_5R_2R_3}}{-C_4\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_4-C_5}} + C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_4-C_5}}} \\ \text{K-LP: } \frac{R_2R_6}{R_5} \\ \text{K-HP: 0} \\ \text{K-BP: } -\frac{C_5R_2R_4R_5R_6}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5}} \\ \text{Qz: None} \\ \text{Wz: None} \end{array}$$

9.168 X-INVALID-NUMER-168 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_3C_5C_6R_2R_4R_5s^2 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_4R_5 + C_3C_5C_6R_4R_5\right)}$$

Parameters:

9.169 X-INVALID-NUMER-169 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_3C_6R_2R_4R_5R_6 - C_1C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_6 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_6 + C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_5R_2R_4R_6 + C_1C_6R_2R_4R_6 + C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_5R_2R_4R_6 + C_1C_6R_2R_4R_6 + C_1C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_5R_2R_4R_5\right) + s\left(C_1C_3R_4R_5 - C_1C_5R_4R_5 - C_1C_5R_4R_5 - C_1C_5R_4R_5\right) + s\left(C_1C_3R_4R_5 - C_1C_5R_4R_5 - C_1C_5R_4R_5\right) + s\left(C_1C_3R_4R_5 - C_1C_5R_4R_5\right) + s\left(C_1C_3R_4R_5\right) + s\left($$

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\frac{\sqrt{C_1C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_3-C_5}+\frac{C_1R_2R_5}{C_3-C_5}+\frac{C_1R_4R_5}{C_3-C_5}+\frac{C_3R_4R_5}{C_3-C_5}-\sqrt{C_1}C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_3-C_5}+\frac{C_1R_2R_5}{C_3-C_5}+\frac{C_1R_4R_5}{C_3-C_5}+\frac{C_3R_4R_5}{C_3-C_5}+\frac{C_3R_4R_5}{C_3-C_5}+\frac{C_3R_4R_5}{C_3-C_5}+\frac{C_3R_4R_5}{C_3-C_5}+\frac{C_3R_4R_5}{C_3-C_5}}{C_1C_3R_2R_4R_5-C_1C_5R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_4R_5R_6}
                                                                         \sqrt{\frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_3C_6R_2R_4R_5R_6-C_1C_5C_6R_2R_4R_5-C_1C_5R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_4R_5R_6}}
                                                      \frac{\sqrt{C_1C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_2-C_5}+\frac{C_1R_4R_5}{C_2-C_5}+\frac{C_3R_4R_5}{C_2-C_5}-\sqrt{C_1}C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_2-C_5}+\frac{C_1R_4R_5}{C_2-C_5}+\frac{C_3R_4R_5}{C_2-C_5}} + \frac{C_3R_4R_5}{C_2-C_5}}{\sqrt{C_1C_5\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_2-C_5}+\frac{C_1R_4R_5}{C_2-C_5}+\frac{C_3R_4R_5}{C_2-C_5}}} + \frac{C_3R_4R_5}{C_2-C_5}
          K-LP: -\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}
           K-HP: 0
          K-BP: \frac{C_3C_5R_2R_4R_5R_6}{C_1C_3R_2R_4R_5-C_1C_5R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_4R_5R_6} Qz: None
           Wz: None
9.170 X-INVALID-NUMER-170 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                            H(s) = \frac{C_3C_5C_6R_2R_6s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5\right) + s\left(C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_1C_5C_6R_5 + C_3C_5C_6R_5\right)}
    Parameters:
      wo: \frac{\sqrt{C_1 + C_2} - C_1 C_5 R_2 + C_1 C_5 R_5 + \overline{C_3 C_5 R_5}}{\sqrt{C_1 + C_3}}
wo: \frac{\sqrt{C_1 + C_3}}{\sqrt{C_1 C_3 C_5 R_2 R_5 + C_1 C_4 C_5 R_2 R_5}}
bandwidth: \frac{C_1 C_3 R_2 + C_1 C_4 R_2 - C_1 C_5 R_2 + C_1 C_5 R_5 + C_3 C_5 R_5}{\sqrt{C_1 \sqrt{C_5}} \sqrt{R_2} \sqrt{R_5} \sqrt{C_3 + C_4} \sqrt{C_1 C_3 C_5 R_2 R_5 + C_1 C_4 C_5 R_5}}
K-LP: \frac{C_3 C_5 R_2}{C_1 C_6 + C_3 C_6}
K-HP: 0
          K-BP: \frac{C_3C_5R_2R_6}{C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}
            Qz: None
            Wz: None
9.171 X-INVALID-NUMER-171 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                   C_3C_5R_2R_5R_6s + C_3R_2R_6
                                                                                                                                  H(s) = \frac{C_3C_5R_2R_5R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_6R_2R_5R_6 + C_1C_4C_6R_2R_5R_6 - C_1C_5C_6R_2R_5R_6\right) + s\left(C_1C_3R_2R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5 - C_1C_6R_2R_6 + C_1C_6R_5R_6 + C_3C_6R_5R_6\right)}
     Parameters:
           \text{bandwidth: } \frac{\sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_3C_6R_2R_5R_6+C_1C_4C_6R_2R_5}}(C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_5R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_3C_6R_5R_6)}{\sqrt{C_1}C_3\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2}{C_3+C_4-C_5}}+\frac{C_1R_5}{C_3+C_4-C_5}+\frac{C_1R_5}{C_3+C_4-C_5}+\sqrt{C_1}C_4\sqrt{C_6}\sqrt{R_2}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2}{C_3+C_4-C_5}}+\frac{C_1R_5}{C_3+C_4-C_5
         K-LP: -\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}
K-HP: 0
          K-BP: \frac{C_3C_5R_2R_5R_6}{C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_5R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_3C_6R_5R_6} Qz: None
           Wz: None
9.172 X-INVALID-NUMER-172 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
                                                                                                                                                                                                                                 H(s) = \frac{C_3C_4R_2R_4R_6s + C_3R_2R_6}{C_1C_3C_4R_2R_4R_5s^2 - C_1R_2 + C_1R_5 + C_3R_5 + s\left(C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 + C_3C_4R_4R_5\right)}
     Parameters:
          Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_4R_4R_5+C_3C_4R_4R_5} wo: \frac{\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}} bandwidth: \frac{C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_4R_4R_5+C_3C_4R_4R_5}{C_1C_3C_4R_2R_4R_5}
```

K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$

K-BP: $\frac{C_3C_4R_2R_4R_6}{C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_4R_4R_5+C_3C_4R_4R_5}$

Qz: None Wz: None

9.173 X-INVALID-NUMER-173 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_3C_4R_2R_4 - C_1C_4C_5R_2R_4\right) + s\left(C_1C_3R_2 + C_1C_4R_2 + C_1C_4R_4 - C_1C_5R_2 + C_3C_4R_4\right)}$$

Parameters:

 $Q \colon \frac{\sqrt{C_1}C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}} - \sqrt{C_1}\sqrt{C_4}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}}}{C_1C_3R_2+C_1C_4R_2+C_1C_4R_4-C_1C_5R_2+C_3C_4R_4} \\ \text{wo: } \sqrt{C_1+C_3}\sqrt{\frac{1}{C_1C_3C_4R_2R_4-C_1C_4C_5R_2R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1+C_3}(C_1C_3R_2+C_1C_4R_2+C_1C_4R_4-C_1C_5R_2+C_3C_4R_4)\sqrt{\frac{1}{C_1C_3C_4R_2R_4}-\frac{1}{C_1C_4C_5R_2R_4}}}{\sqrt{C_1}C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}} - \sqrt{C_1}\sqrt{C_4}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}}}} \\ \text{K-LP: 0} \\ \text{K-HP: } \frac{C_3C_5R_6}{C_1C_3-C_1C_5} \\ \text{K-BP: } \frac{C_3C_5R_6}{C_1C_3R_2+C_1C_4R_2+C_1C_4R_4-C_1C_5R_2+C_3C_4R_4}}{C_1C_4R_4-C_1C_5R_2+C_3C_4R_4}} \\ \text{Qz: None} \\ \text{Wz: None}$

9.174 X-INVALID-NUMER-174 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5R_2R_4s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_4 - C_1C_4C_5C_6R_2R_4\right) + s\left(C_1C_3C_6R_2 + C_1C_4C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_3C_4C_6R_4\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1}C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}} - \sqrt{C_1}\sqrt{C_4}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}}}{C_1C_3R_2+C_1C_4R_2+C_1C_4R_4-C_1C_5R_2+C_3C_4R_4} \\ \text{wo: } \sqrt{C_1+C_3}\sqrt{\frac{1}{C_1C_3C_4R_2R_4-C_1C_4C_5R_2R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1+C_3}(C_1C_3R_2+C_1C_4R_2+C_1C_4R_4-C_1C_5R_2+C_3C_4R_4)\sqrt{\frac{1}{C_1C_3C_4R_2R_4}-\frac{1}{C_1C_4C_5R_2R_4}}}{\sqrt{C_1}C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}} - \sqrt{C_1}\sqrt{C_4}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}}}} \\ \text{K-LP: } \frac{C_3C_5R_2}{C_1C_6+C_3C_6} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_3C_4C_5R_2R_4}{C_1C_3C_6R_2+C_1C_4C_6R_4-C_1C_5C_6R_2+C_3C_4C_6R_4}} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.175 X-INVALID-NUMER-175 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_2R_4R_5\right) + s\left(C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_4R_5 + C_3C_5C_6R_4R_5\right)}$

Parameters:

9.176 X-INVALID-NUMER-176 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1} \end{pmatrix}$

 $C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6$

 $H(s) = \frac{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + c_1C_4C_6R_2R_4R_5R_6 - C_1C_5C_6R_2R_4R_5R_6) + s(C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_6R_2R_4R_5 - C_1C_6R_4R_5R_5 - C_1C_6R_4R_5R_5 - C_1C_6R_4R_5R_5 - C_1C_6R_4R_5R_5 - C_1C_6R_4R_5R_5 - C_1C_6R_4R_5R_5 - C_1C_6R_5R_5R_5 - C_1C_6R_5$

Parameters:

 $\frac{-C_{1}R_{2}R_{4}+C_{1}R_{2}R_{5}+C_{1}R_{4}R_{5}+C_{3}R_{4}R_{5}}{\sqrt{C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}+C_{4}-C_{5}}+\frac{C_{1}R_{4}R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{C_{1}R_{4}R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{C_{1}R_{4}R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{C_{1}R_{2}R_{4}}{C_{3}+C_{4}-C_{5}}+\frac{C_{1}R_{2}R_{4}}{C_{3}+C_{4}-C_{5}}+\frac{C_{1}R_{2}R_{4}}{C_{3}+C_{4}-C_{5}}+\frac{C_{1}R_{4}R_{5}}{C_$

 $\frac{C_3C_5R_2R_4R_5R_6}{C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_5R_6 + C_1C_6R_4R_5R_6 + C_3C_6R_4R_5R_6}$

Qz: None

Wz: None

9.177 X-INVALID-NUMER-177 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4$ $H(s) = \frac{C_3C_3C_3C_3C_2C_4C_6}{-C_1C_3C_5C_6R_2R_3R_4s^2 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 - C_1C_5C_6R_2R_4\right)}$

Parameters:

Q: $-\frac{i\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1}R_2 + C_1R_4 + C_3R_4}{\sqrt{C_1}C_3R_2R_3 + \sqrt{C_1}C_3R_2R_4 + \sqrt{C_1}C_3R_3R_4 - \sqrt{C_1}C_5R_2R_4}$

bandwidth: $\frac{i\sqrt{-C_1R_2-C_1R_4-C_3R_4}\Big(\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4-\sqrt{C_1}C_5R_2R_4\Big)}{\sqrt{C_1C_3R_2R_4}-\sqrt{C_1C_3R_$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4}$

Qz: None

Wz: None

9.178 X-INVALID-NUMER-178 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4$

 $H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(-C_1C_3C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R$

Parameters:

 $-\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{2}R_{3}R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{2}R_{3}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{2}R_{3}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{R_{3}}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{3}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{4}R_{5}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{4}R_{5}\sqrt{C_{1}R_{4}+C_{1}R_{4}+C_{3}R_{4}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{4}R_{5}\sqrt{C_{1}R_{4}+C_{1}R_{4}+C_{3}R_{4}}}+\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}R_{4}R_{5}\sqrt{C_{1}R_{4}+C_{1}R_{4}+C_{3}R_$

 $\frac{-C_1R_2 - C_1R_4 - C_3R_4}{C_1C_3C_5R_2R_3R_4 - C_1C_3C_5R_2R_3R_5 - C_1C_3C_5R_2R_4R_5 - C_1C_3C_5R_3R_4R_5}$

 $\sqrt{\frac{-C_1R_2-C_1R_4-C_3R_4}{C_1C_3C_5R_2R_3R_4-C_1C_3C_5R_2R_3R_5-C_1C_3C_5R_2R_4R_5-C_1C_3C_5R_3R_4R_5}}(C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5)$ $\frac{\sqrt{C_1C_3C_5R_2R_3R_4 - C_1C_3C_5R_2R_3R_4 - C_1C_3C_5R_2R_4R_5 - C_1C_3C_5R_4R_5 - C_1C_3C_5R_4$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}$ Qz: None

Wz: None

9.179 X-INVALID-NUMER-179 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1C_3C_5R_2R_3R_4R_5s^2 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(-C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_3R_4R_5 - C_1C_5R_2R_4R_5\right)}$

```
\begin{array}{l} Q\colon \frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1}R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}{\sqrt{C_1}C_3R_2R_3R_4-\sqrt{C_1}C_3R_2R_3R_5-\sqrt{C_1}C_3R_2R_4R_5-\sqrt{C_1}C_3R_3R_4R_5+\sqrt{C_1}C_5R_2R_4R_5}\\ \text{wo: } \frac{\sqrt{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}\\ \text{bandwidth: } \frac{\sqrt{C_1C_3R_2R_3R_4-\sqrt{C_1}C_3R_2R_3R_5-\sqrt{C_1}C_3R_2R_4R_5-\sqrt{C_1}C_3R_3R_4R_5+\sqrt{C_1}C_5R_2R_4R_5}}{\sqrt{C_1}C_3C_5R_2R_3R_4R_5}\\ \text{K-LP: } -\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}\\ \text{K-HP: } 0\\ \text{K-BP: } -\frac{C_3C_5R_2R_4R_6R_6}{C_1C_3R_2R_3R_4-C_1C_3R_2R_3R_5-C_1C_3R_2R_4R_5-C_1C_3R_3R_4R_5+C_1C_5R_2R_4R_5}\\ \text{Qz: None} \end{array}
```

9.180 X-INVALID-NUMER-180 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_6s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3\right) + s\left(C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2\right)}$$

Parameters:

Wz: None

$$Q \colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_2 + \sqrt{C_1}C_3R_3 + \sqrt{C_1}C_4R_2 - \sqrt{C_1}C_5R_2} \\ \text{wo: } \sqrt{C_1} + C_3\sqrt{\frac{1}{C_1C_3C_4R_2R_3 - C_1C_3C_5R_2R_3}} \\ \text{bandwidth: } \frac{\sqrt{C_1+C_3}\left(\sqrt{C_1}C_3R_2 + \sqrt{C_1}C_3R_3 + \sqrt{C_1}C_4R_2 - \sqrt{C_1}C_5R_2\right)\sqrt{\frac{1}{C_1C_3C_4R_2R_3 - C_1C_3C_5R_2R_3}}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}} \\ \text{K-LP: } \frac{C_3C_5R_2}{C_1C_6 + C_3C_6} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_3C_5R_2R_6}{C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2}} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.181 X-INVALID-NUMER-181 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_5R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_2R_3R_5 - C_1C_3C_5R_2R_3R_5\right) + s\left(-C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_3R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5\right)}$$

Parameters:

$$Q \colon \frac{-\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_4-C_5}+\frac{C_1R_5}{C_4-C_5}+\frac{C_3R_5}{C_4-C_5}} + \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_4-C_5}+\frac{C_1R_5}{C_4-C_5}+\frac{C_3R_5}{C_4-C_5}} }{\sqrt{C_1}C_3R_2R_3-\sqrt{C_1}C_3R_2R_5-\sqrt{C_1}C_3R_3R_5-\sqrt{C_1}C_4R_2R_5+\sqrt{C_1}C_5R_2R_5}} \\ \text{wo: } \sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_3C_4R_2R_3R_5-C_1C_3C_5R_2R_3R_5}} \\ \text{bandwidth: } \frac{\sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_3C_4R_2R_3R_5-C_1C_3C_5R_2R_3R_5}} \left(\sqrt{C_1}C_3R_2R_3-\sqrt{C_1}C_3R_2R_5-\sqrt{C_1}C_3R_3R_5-\sqrt{C_1}C_4R_2R_5+\sqrt{C_1}C_5R_2R_5}\right) \\ -\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_4-C_5}+\frac{C_1R_5}{C_4-C_5}+\frac{C_3R_5}{C_4-C_5}}} + \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_4-C_5}+\frac{C_1R_5}{C_4-C_5}+\frac{C_3R_5}{C_4-C_5}} \\ \text{K-LP: } -\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5} \\ \text{K-HP: } 0 \\ \text{K-BP: } -\frac{C_3C_5R_2R_5R_6}{C_1C_3R_2R_3-C_1C_3R_2R_5-C_1C_3R_3R_5-C_1C_4R_2R_5+C_1C_5R_2R_5}} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.182 X-INVALID-NUMER-182 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3C_4R_2R_4R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(-C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_4R_2R_4R_5\right) + s\left(-C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 + C_3C_4R_4R_5\right)}$$

Parameters:

 $Q: \frac{\sqrt{C_{1}\sqrt{C_{3}}\sqrt{C_{4}}R_{2}R_{3}R_{4}}\sqrt{-\frac{C_{1}R_{2}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} - \sqrt{C_{1}\sqrt{C_{3}}\sqrt{C_{4}}R_{2}R_{3}R_{5}} - \sqrt{C_{1}\sqrt{C_{3}}\sqrt{C_{4}}R_$

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K-HP: 0
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 $\text{K-BP:} - \frac{C_3C_4R_2R_4R_6}{C_1C_3R_2R_3 - C_1C_3R_2R_5 - C_1C_3R_3R_5 + C_1C_4R_2R_4 - C_1C_4R_2R_5 - C_1C_4R_4R_5 - C_3C_4R_4R_5}$

Qz: None

Wz: None

9.183 X-INVALID-NUMER-183 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_4C_6R_2R_3R_4 - C_1C_3C_5C_6R_2R_3R_4\right) + s\left(C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$

Parameters:

 $Q \colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4+\sqrt{C_1}C_4}R_2R_4-\sqrt{C_1}C_5R_2R_4} \\ \text{wo: } \sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4-C_1C_3C_5R_2R_3R_4}}$

 $\text{bandwidth: } \frac{\sqrt{C_1R_2 + C_1R_3 + C_1C_3C_4R_2R_3R_4} - C_1C_3C_5R_2R_3R_4}{\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \left(\sqrt{C_1C_3R_2R_3 + \sqrt{C_1C_3R_2R_4} + \sqrt{C_1C_3R_3R_4} + \sqrt{C_1C_4R_2R_4} - \sqrt{C_1C_5R_2R_4}\right) \sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}}{\sqrt{C_3C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_4 - C_5}} - \sqrt{C_3C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_4 - C_5}}}}}$

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4}$ Qz: None

Wz: None

9.184 X-INVALID-NUMER-184 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_3C_4R_2R_3R_4R_5 - C_1C_3C_5R_2R_3R_4R_5\right) + s\left(-C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C$

Parameters:

 $Q \colon \frac{-\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_4-C_5}+\frac{C_1R_2R_5}{C_4-C_5}+\frac{C_1R_4R_5}{C_4-C_5}+\frac{C_3R_4R_5}{C_4-C_5}+\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_4-C_5}+\frac{C_1R_2R_5}{C_4-C_5}+\frac{C_1R_4R_5}{C_4-C_5}+\frac{C_3R_4R_5}{C_4-C_5}}{\sqrt{C_1}C_3R_2R_3R_4-\sqrt{C_1}C_3R_2R_3R_5-\sqrt{C_1}C_3R_2R_4R_5-\sqrt{C_1}C_3R_3R_4R_5-\sqrt{C_1}C_4R_2R_4R_5+\sqrt{C_1}C_5R_2R_4R_5}$

wo: $\sqrt{\frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_3C_4R_2R_3R_4R_5-C_1C_3C_5R_2R_3R_4R_5}}$

 $\frac{\sqrt{\frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_3C_4R_2R_3R_4R_5-C_1C_3C_5R_2R_3R_4R_5}}(\sqrt{C_1}C_3R_2R_3R_4-\sqrt{C_1}C_3R_2R_3R_5-\sqrt{C_1}C_3R_2R_4R_5-\sqrt{C_1}C_3R_3R_4R_5-\sqrt{C_1}C_4R_2R_4R_5+\sqrt{C_1}C_5R_2R_4R_5)}{-\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_5}{C_4-C_5}+\frac{C_1R_4R_5}{C_4-C_5}+\frac{C_3R_4R_5}{C_4-C_5}+\frac{C_3R_4R_5}{C_4-C_5}+\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_4-C_5}+\frac{C_1R_4R_5}{C_4-C_5}+\frac{C_3R_4R_5}{C_4-C_5}}$

K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$

 $\text{K-BP:} - \frac{C_3C_5R_2R_4R_5R_6}{C_1C_3R_2R_3R_4 - C_1C_3R_2R_3R_5 - C_1C_3R_2R_4R_5 - C_1C_3R_3R_4R_5 - C_1C_4R_2R_4R_5 + C_1C_5R_2R_4R_5}$

Qz: None Wz: None

9.185 X-INVALID-NUMER-185 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4, R_5, R_6\right)$

 $H(s) = \frac{C_3R_2R_3R_4R_6s + R_2R_4R_6}{C_1C_3R_2R_3R_4R_5s^2 + R_4R_5 + s\left(-C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_3R_3R_4R_5\right)}$

Parameters:

Q: $-\frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}R_4R_5}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}$

wo: $\frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{C_1R_2R_3R_4 - C_1R_2R_3R_5 - C_1R_2R_4R_5 - C_1R_3R_4R_5 - C_3R_3R_4R_5}{C_1C_3R_2R_3R_4R_5}$

K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0

K-BP: $-\frac{C_3R_2R_3R_4R_6}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}$

Qz: None Wz: None

9.186 X-INVALID-NUMER-186 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^2\left(C_1C_3R_2R_3R_4 - C_1C_5R_2R_3R_4\right) + s\left(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_3R_3R_4\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{\sqrt{C_{1}}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}-C_{5}}}}{C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{3}R_{3}R_{4}}\\ \text{wo: } \sqrt{\frac{1}{C_{1}C_{3}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}\\ \text{bandwidth: } \frac{(C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{3}R_{3}R_{4})\sqrt{\frac{1}{C_{1}C_{3}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{\sqrt{C_{1}}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}-C_{5}}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_{3}C_{5}R_{6}}{C_{1}C_{3}-C_{1}C_{5}}\\ \text{K-BP: } \frac{C_{5}R_{2}R_{4}R_{6}}{C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{3}R_{3}R_{4}}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

9.187 X-INVALID-NUMER-187 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_4s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_3C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3-C_5}}-\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3-C_5}}}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_3R_3R_4} \\ \text{wo: } \sqrt{\frac{1}{C_1C_3R_2R_3-C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_3R_3R_4)\sqrt{\frac{1}{C_1C_3R_2R_3-C_1C_5R_2R_3}}}{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3-C_5}}-\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3-C_5}}} \\ \text{K-LP: } \frac{C_5R_2}{C_6} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_3C_5R_2R_3R_4}{C_1C_6R_2R_3+C_1C_6R_2R_4+C_1C_6R_3R_4+C_3C_6R_3R_4}} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.188 X-INVALID-NUMER-188 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3R_2R_3R_6s + R_2R_6}{R_5 + s^2\left(C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_3R_3R_5\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} -\frac{\sqrt{C_1}\sqrt{R_2}\sqrt{R_3}R_5\sqrt{C_3+C_4}}{C_1R_2R_3-C_1R_2R_5-C_1R_3R_5-C_3R_3R_5}\\ \text{wo:} \ \frac{1}{\sqrt{C_1C_3R_2R_3+C_1C_4R_2R_3}}\\ \text{bandwidth:} \ -\frac{C_1R_2R_3-C_1R_2R_5-C_1R_3R_5-C_3R_3R_5}{\sqrt{C_1}\sqrt{R_2}\sqrt{R_3}R_5\sqrt{C_3+C_4}\sqrt{C_1C_3}R_2R_3+C_1C_4R_2}\\ \text{K-LP:} \ \frac{R_2R_6}{R_5}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ -\frac{C_3R_2R_3R_6}{C_1R_2R_3-C_1R_2R_5-C_1R_3R_5-C_3R_3R_5}\\ \text{Qz:} \ \text{None}\\ \text{Wz:} \ \text{None} \end{array}$$

9.189 X-INVALID-NUMER-189 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_6s^2 + C_5R_2R_6s}{s^2\left(C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3\right) + s\left(C_1R_2 + C_1R_3 + C_3R_3\right) + 1}$$

$$Q \colon \frac{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_2+C_1R_3+C_3R_3} \\ \text{wo: } \sqrt{\frac{1}{C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_1R_2+C_1R_3+C_3R_3)\sqrt{\frac{1}{C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}}}{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}} \\ \text{K-LP: 0} \\ \text{K-HP: } \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5} \\ \text{K-BP: } \frac{C_5R_2R_6}{C_1R_2+C_1R_3+C_3R_3} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.190 X-INVALID-NUMER-190 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_3s + C_5R_2}{C_6 + s^2\left(C_1C_3C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_2+C_1R_3+C_3R_3} \\ \text{wo: } \sqrt{\frac{1}{C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_1R_2+C_1R_3+C_3R_3)\sqrt{\frac{1}{C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}}}{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}} \\ \text{K-LP: } \frac{C_5R_2}{C_6} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_3C_5R_2R_3}{C_1C_6R_2+C_1C_6R_3+C_3C_6R_3}} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.191 X-INVALID-NUMER-191 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5, R_6\right)$

$$H(s) = \frac{C_3R_2R_3R_4R_6s + R_2R_4R_6}{R_4R_5 + s^2\left(C_1C_3R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5\right) + s\left(-C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_3R_3R_4R_5\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} -\frac{\sqrt{C_1}\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{C_3+C_4}}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}\\ \text{wo:} \ \frac{1}{\sqrt{C_1C_3R_2R_3+C_1C_4R_2R_3}}\\ \text{bandwidth:} \ -\frac{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}{\sqrt{C_1}\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{C_3+C_4}\sqrt{C_1C_3R_2R_3+C_1C_4R_2R_3}}\\ \text{K-LP:} \ \frac{R_2R_6}{R_5}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ -\frac{C_3R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}\\ \text{Qz:} \ \text{None}\\ \text{Wz:} \ \text{None} \end{array}$$

9.192 X-INVALID-NUMER-192 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^2\left(C_1C_3R_2R_3R_4 + C_1C_4R_2R_3R_4 - C_1C_5R_2R_3R_4\right) + s\left(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_3R_3R_4\right)}$$

$$\begin{array}{l} Q\colon \frac{\sqrt{C_{1}}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}{C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{3}R_{3}R_{4}}\\ \text{wo: } \sqrt{\frac{1}{C_{1}C_{3}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}\\ \text{bandwidth: } \frac{(C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{3}R_{3}R_{4})\sqrt{\frac{1}{C_{1}C_{3}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{\sqrt{C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_{3}C_{5}R_{6}}{C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}} \end{array}$$

K-BP: $\frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_3R_3R_4}$ Qz: None

Wz: None

9.193 X-INVALID-NUMER-193 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_4s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_3C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4\right)}$$

Parameters:

 $\text{Q: } \frac{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_3R_3R_4}$

bandwidth: $\frac{(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_3R_3R_4)\sqrt{\frac{1}{C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}}{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3 + C_4 - C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3 + C_4 - C_5}}}$

K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0

K-BP: $\frac{C_3C_5R_2R_3R_4}{C_1C_6R_2R_3+C_1C_6R_2R_4+C_1C_6R_3R_4+C_3C_6R_3R_4}$ Qz: None

Wz: None

9.194 X-INVALID-NUMER-194 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_4C_5R_4R_6s + C_5R_6}{C_1 + C_2 + s^2\left(C_1C_2C_4R_3R_4 - C_1C_4C_5R_3R_4\right) + s\left(C_1C_2R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_2C_4R_4\right)}$$

Parameters:

 $Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_4}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2-C_5}} - \sqrt{C_1}\sqrt{C_4}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2-C_5}}}{C_1C_2R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_2C_4R_4}$ wo: $\sqrt{C_1 + C_2}\sqrt{\frac{1}{C_1C_2C_4R_3R_4 - C_1C_4C_5R_3R_4}}$ bandwidth: $\frac{\sqrt{C_1+C_2}(C_1C_2R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_2C_4R_4)\sqrt{\frac{1}{C_1C_2C_4R_3R_4 - C_1C_4C_5R_3R_4}}}{\sqrt{C_1C_2}\sqrt{C_4}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2-C_5}} - \sqrt{C_1}\sqrt{C_4}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2-C_5}}}$

K-LP: $\frac{C_5R_6}{C_1+C_2}$ K-HP: 0

K-BP: $\frac{C_4C_5R_4R_6}{C_1C_2R_3+C_1C_4R_3+C_1C_4R_4-C_1C_5R_3+C_2C_4R_4}$ Qz: None

Wz: None

9.195 X-INVALID-NUMER-195 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_4R_6s + C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4\right)}$

Parameters:

wo: $\frac{C_1C_2R_4+C_1C_3R_4+C_1C_5R_5+C_2C_3R_4}{\sqrt{C_1}}$ wo: $\frac{C_1C_2R_4+C_1C_3C_5R_4R_5+C_2C_3C_5R_4R_5}{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_5R_4+C_1C_5R_5+C_2C_3R_4}}$ bandwidth: $\frac{C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_5R_4R_5+C_1C_3C_5R_4R_5+C_2C_3C_5R_4R_5}}$ K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}$ Oz: None

Qz: None Wz: None

9.196 X-INVALID-NUMER-196 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_4R_5R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_6R_4R_5R_6 + C_1C_3C_6R_4R_5R_6 - C_1C_5C_6R_4R_5R_6 + C_2C_3C_6R_4R_5R_6\right) + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 - C_1C_5R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_4R_5\right)}$$

Parameters:

 $Q: \frac{C_1^{\frac{3}{2}}C_2\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}-C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_4}{C_$ K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0

K-BP: $\frac{C_3C_5R_4R_5R_6}{C_1C_2R_4R_5+C_1C_3R_4R_5-C_1C_5R_4R_5-C_1C_6R_4R_6+C_1C_6R_5R_6+C_2C_3R_4R_5}$ Qz: None

Wz: None

9.197 X-INVALID-NUMER-197 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_5R_6s + C_3R_6}{-C_1 + s^2\left(C_1C_2C_6R_5R_6 + C_1C_3C_6R_5R_6 + C_1C_4C_6R_5R_6 - C_1C_5C_6R_5R_6 + C_2C_3C_6R_5R_6\right) + s\left(C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 - C_1C_6R_6 + C_2C_3R_5\right)}$$

Parameters:

 $Q: \frac{C_1^{\frac{3}{2}}C_2\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_4\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + \sqrt{C_1C_2C_3\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_$ $\frac{\sqrt{C_{1}}\sqrt{-\frac{1}{C_{1}C_{2}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{5}R_{6}+C_{1}C_{5}C_{5}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{5}R_{6}+C_{1}C_{5}C_{5}R_{5}R_{6$ K-LP: $-\frac{C_3 R_6}{C_1}$ K-HP: 0

K-BP: $\frac{C_3C_5R_5R_6}{C_1C_2R_5+C_1C_3R_5+C_1C_4R_5-C_1C_5R_5-C_1C_6R_6+C_2C_3R_5}$ Qz: None

Wz: None

9.198 X-INVALID-NUMER-198 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3C_4R_4R_6s + C_3R_6}{-C_1 + s^2\left(C_1C_2C_4R_4R_5 + C_1C_3C_4R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_1C_2R_5 + C_1C_3R_5 - C_1C_4R_4 + C_1C_4R_5 + C_2C_3R_5\right)}$$

Parameters:

K-HP: 0

K-BP: $\frac{C_3C_4R_4R_6}{C_1C_2R_5 + C_1C_3R_5 - C_1C_4R_4 + C_1C_4R_5 + C_2C_3R_5}$

Qz: None Wz: None

9.199 X-INVALID-NUMER-199 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_4R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_4C_6R_4R_6 + C_1C_3C_4C_6R_4R_6 + C_2C_3C_4C_6R_4R_6 + C_1C_2C_4R_4 + C_1C_2C_6R_6 + C_1C_3C_4R_4 + C_1C_3C_6R_6 - C_1C_4C_5R_4 + C_1C_4C_6R_6 - C_1C_5C_6R_6 + C_2C_3C_4R_4 + C_2C_3C_6R_6\right)}$

 $C_{1}C_{2}\sqrt{C_{4}}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{\frac{C_{1}C_{2}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{C_{1}C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+$ $\frac{C_{1}C_{2}\sqrt{C_{4}}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{\frac{C_{1}C_{2}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{C_{1}C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}C_{3}}{C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{3}+C_{1}C_{3}-C_{1}C_{3}+C_{1}C_{3}$ K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: 0 $\begin{array}{l} \text{K-BP:} \ \frac{C_3C_4C_5R_4R_6}{C_1C_2C_4R_4+C_1C_2C_6R_6+C_1C_3C_4R_4+C_1C_3C_6R_6-C_1C_4C_5R_4+C_1C_4C_6R_6-C_1C_5C_6R_6+C_2C_3C_4R_4+C_2C_3C_6R_6} \\ \text{Qz: None} \end{array}$ Wz: None **9.200** X-INVALID-NUMER-200 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_3C_4C_5R_4R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_4C_5R_4R_5 + C_1C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5\right) + s\left(C_1C_2C_4R_4 + C_1C_2C_5R_5 + C_1C_3C_4R_4 + C_1C_3C_5R_5 - C_1C_4C_5R_4 + C_1C_4C_5R_5 + C_2C_3C_4R_4 + C_2C_3C_5R_5\right)}$ Parameters: wo: $\frac{\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{\sqrt{C_1C_2C_4C_5R_4R_5+C_1C_3C_4C_5R_4R_5+C_2C_3C_4C_5R_4R_5}}$ bandwidth: $\frac{C_1C_2C_4R_4+C_1C_2C_5R_5+C_1C_3C_4R_4+C_1C_3C_5R_5-C_1C_4C_5R_4+C_1C_4C_5R_5+C_2C_3C_4R_4+C_2C_3C_5R_5}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_4C_5R_4R_5+C_1C_3C_4C_5R_4R_5+C_2C_3C_4C_5R_4R_5}}$ K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: 0 $\text{K-BP: } \frac{C_3C_4C_5R_4R_6}{C_1C_2C_4R_4 + C_1C_2C_5R_5 + C_1C_3C_4R_4 + C_1C_3C_5R_5 - C_1C_4C_5R_4 + C_1C_4C_5R_5 + C_2C_3C_4R_4 + C_2C_3C_5R_5}$ Qz: None Wz: None **9.201** X-INVALID-NUMER-201 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_4 R_4 s + 1}, & R_5 + \frac{1}{C_5 s}, & R_6 + \frac{1}{C_6 s} \end{pmatrix}$ $C_3C_5C_6R_4R_6s + C_3C_5R_4$ $H(s) = \frac{C_3 C_5 C_6 R_4 R_5 + C_3 C_5 C_6 R_4}{C_1 C_6 + s^2 \left(C_1 C_2 C_5 C_6 R_4 R_5 + C_1 C_3 C_5 C_6 R_4 R_5 + C_2 C_3 C_5 C_6 R_4 R_5\right) + s \left(C_1 C_2 C_6 R_4 + C_1 C_3 C_6 R_4 + C_1 C_5 C_6 R_4 + C_1 C_5 C_6 R_4 + C_1 C_5 C_6 R_5 + C_2 C_3 C_6 R_4\right)}$ **Parameters:** wo: $\frac{\sqrt{C_1}}{\sqrt{C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_4C_5R_4R_5 + C_2C_3C_5R_4R_5}}$ bandwidth: $\frac{C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_1C_5R_5}{\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2 + C_1C_3 + C_1C_4 + C_2C_3}\sqrt{C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5}}$ K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: 0 K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_1C_5R_5+C_2C_3R_4}$ Qz: None Wz: None **9.202** X-INVALID-NUMER-202 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & \frac{R_4}{C_4 R_4 s + 1}, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{R_6}{C_6 R_6 s + 1} \end{pmatrix}$ $C_3C_5R_4R_5R_6s + C_3R_4R_6$ $H(s) = \frac{1}{-C_{1}R_{4} + C_{1}R_{5} + s^{2}\left(C_{1}C_{2}C_{6}R_{4}R_{5}R_{6} + C_{1}C_{3}C_{6}R_{4}R_{5}R_{6} + C_{1}C_{5}C_{6}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{6}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{6}R_{4}R_{5}R_{6} + C_{1}C_{3}R_{4}R_{5} + C_{1}C_{3}R_{4}R$ **Parameters:** $Q: \frac{C_1^{\frac{3}{2}}C_2\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_3\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_4\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_4\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_4}{C_1C_4+C_1C_5+C_2C_3}} + C_1^{\frac{3}{2}}C_4\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-$

 $\text{K-BP: } \frac{C_3C_5R_4R_5R_6}{C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_5R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_4R_5}$

K-HP: 0

 $\overline{C_{1}^{\frac{3}{2}}C_{2}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}} + C_{1}^{\frac{3}{2}}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}^{\frac{3}{2}}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}^{\frac{3}{2}}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}^{\frac{3}{2}}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}^{\frac{3}{2}}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}^{\frac{3}{2}}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}^{\frac{3}{2}}C_{3}\sqrt{C_{6}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C$

 $\frac{R_5}{-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + C_1^{\frac{3}{2}}C_4\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1^{\frac{3}{2}}C_5\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}$

Qz: None Wz: None

9.203 X-INVALID-NUMER-203
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_4R_6s + C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_3R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

 $\text{Q: } \frac{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2-C_5}}-C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2-C_5}}}{C_1C_2R_4+C_1C_3R_3+C_1}C_3R_4-C_1C_5R_4+C_2C_3R_4}$ bandwidth: $\frac{(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_3R_4 - C_3C_5R_3R_4}}}{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2-C_5}} - C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{1}{C_2-C_5}}}$

K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: 0

K-BP: $\frac{C_3C_5R_4R_6}{C_1C_2R_4+C_1C_3R_3+C_1C_3R_4-C_1C_5R_4+C_2C_3R_4}$ Qz: None

Wz: None

9.204 X-INVALID-NUMER-204 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_4R_5R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_3R_4R_5 - C_1C_3C_5R_3R_4R_5\right) + s\left(C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

Parameters:

 $Q \colon \frac{C_1 C_2 \sqrt{C_3} \sqrt{R_3} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 - C_5} + \frac{R_5}{C_2 - C_5}} - C_1 \sqrt{C_3} C_5 \sqrt{R_3} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 - C_5} + \frac{R_5}{C_2 - C_5}} }{C_1 C_2 R_4 R_5 - C_1 C_3 R_3 R_4 + C_1 C_3 R_3 R_5 + C_1 C_3 R_4 R_5 - C_1 C_5 R_4 R_5 + C_2 C_3 R_4 R_5}$ wo: $\sqrt{\frac{-R_4 + R_5}{C_2 C_3 R_3 R_4 R_5 - C_3 C_5 R_3 R_4 R_5}}$ bandwidth: $\frac{\sqrt{\frac{-R_4 + R_5}{C_2 C_3 R_3 R_4 R_5 - C_3 C_5 R_3 R_4 R_5}}(C_1 C_2 R_4 R_5 - C_1 C_3 R_3 R_4 + C_1 C_3 R_3 R_5 + C_1 C_3 R_4 R_5 - C_1 C_5 R_4 R_5 + C_2 C_3 R_4 R_5)}{C_1 C_2 \sqrt{C_3} \sqrt{R_3} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 - C_5} + \frac{R_5}{C_2 - C_5}} - C_1 \sqrt{C_3} C_5 \sqrt{R_3} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 - C_5} + \frac{R_5}{C_2 - C_5}}}$ K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0 Qz: None Wz: None

9.205 X-INVALID-NUMER-205 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_5R_6s + C_3R_6}{-C_1 + s^2\left(C_1C_2C_3R_3R_5 + C_1C_3C_4R_3R_5 - C_1C_3C_5R_3R_5\right) + s\left(C_1C_2R_5 - C_1C_3R_3 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}$$

9.206 X-INVALID-NUMER-206
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_4C_5R_4R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_3R_4 - C_1C_3C_4C_5R_3R_4\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_4R_4 + C_1C_3C_4R_3 + C_1C_3C_4R_4 - C_1C_3C_5R_3 - C_1C_4C_5R_4 + C_2C_3C_4R_4\right)}$$

 $Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{C_4}\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{C_1C_2}{C_2-C_5}} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_4}{C_2-C_5} - \frac{C_1C_5}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5}}{C_2-C_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{C_4}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{\frac{C_1C_2}{C_2-C_5}} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_5}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5}}{C_2-C_5} - \frac{C_1C_3}{C_2-C_5} - \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_4}{C_2-C_5} - \frac{C_1C_5}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5} - \frac{C_1C_5}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5} - \frac{C_1C_3}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5} - \frac{C_1C_3}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5} - \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2-C_5} - \frac{C_1C_3}{C_2-C_5} + \frac{C_2C_3}{C_2-C_5} - \frac{C_1C_3}{C_2-C_5} + \frac{C_1C_3}{C_2$

9.207 X-INVALID-NUMER-207 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_4R_6s + C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_3R_4 + C_1C_3C_4C_6R_3R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

$$Q \colon \frac{C_1 C_2 \sqrt{C_3} \sqrt{R_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 + C_4 - C_5}} + C_1 \sqrt{C_3} C_4 \sqrt{R_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 + C_4 - C_5}} - C_1 \sqrt{C_3} C_5 \sqrt{R_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 + C_4 - C_5}} }{C_1 C_2 R_4 + C_1 C_3 R_3 + C_1 C_3 R_4 + C_1 C_4 R_4 - C_1 C_5 R_4 + C_2 C_3 R_4} \\ \text{wo: } \sqrt{\frac{1}{C_2 C_3 R_3 R_4 + C_3 C_4 R_3 R_4 - C_3 C_5 R_3 R_4}} \\ \text{bandwidth: } \frac{(C_1 C_2 R_4 + C_1 C_3 R_3 + C_1 C_3 R_4 + C_1 C_4 R_4 - C_1 C_5 R_4 + C_2 C_3 R_4) \sqrt{\frac{1}{C_2 C_3 R_3 R_4 + C_3 C_4 R_3 R_4 - C_3 C_5 R_3 R_4}}}{\frac{1}{C_1 C_2 \sqrt{C_3} \sqrt{R_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 + C_4 - C_5}} + C_1 \sqrt{C_3} C_4 \sqrt{R_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 + C_4 - C_5}} - C_1 \sqrt{C_3} C_5 \sqrt{R_3} \sqrt{R_4} \sqrt{\frac{1}{C_2 + C_4 - C_5}}}} \\ \text{K-LP: } \frac{C_3 C_5 R_4}{C_1 C_6} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_3 C_5 R_4 R_6}{C_1 C_2 R_4 + C_1 C_3 R_3 + C_1 C_3 R_4 + C_1 C_5 R_4 + C_2 C_3 R_4}}{C_1 C_2 R_4 + C_1 C_3 R_3 + C_1 C_3 R_4 + C_1 C_5 R_4 + C_2 C_3 R_4}} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.208 X-INVALID-NUMER-208 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_4R_5R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_3R_4R_5 + C_1C_3C_4R_3R_4R_5 - C_1C_3C_5R_3R_4R_5\right) + s\left(C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

$$Q \colon \frac{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2+C_4-C_5}} + C_1\sqrt{C_3}C_4\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2+C_4-C_5}} + C_5\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2+C_4-C_5}} - C_1\sqrt{C_3}C_5\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2+C_4-C_5}} + \frac{R_5}{C_2+C_4-C_5}}{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_1C_5R_4R_5+C_2C_3R_4R_5} \\ \text{wo: } \sqrt{\frac{-R_4+R_5}{C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5-C_3C_5R_3R_4R_5}} \\ \text{bandwidth: } \frac{-\frac{R_4+R_5}{C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5-C_3C_5R_3R_4R_5}}{\sqrt{C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5-C_3C_5R_3R_4R_5}} (C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_1C_4R_4R_5-C_1C_5R_4R_5+C_2C_3R_4R_5) \\ \text{bandwidth: } \frac{-\frac{R_4+R_5}{C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5-C_3C_5R_3R_4R_5}}{\sqrt{C_1C_2R_4R_5-C_3C_5R_3R_4R_5}} (C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_1C_4R_4R_5-C_1C_5R_4R_5+C_2C_3R_4R_5) \\ \text{bandwidth: } \frac{-\frac{R_4+R_5}{C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5-C_3C_5R_3R_4R_5}}{\sqrt{C_1C_2R_4R_5-C_3C_5R_3R_4R_5}} (C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_1C_3R_4R_5+C_2C_3R_4R_5) \\ \text{bandwidth: } \frac{-\frac{R_4+R_5}{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2+C_4-C_5}+\frac{R_5}{C_2+C_4-C_5}+C_1C_3R_4R_5}}}{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2+C_4-C_5}+\frac{R_5}{C_2+C_4-C_5}+C_1C_3R_4R_5}}} C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 + C_1C_3$$

9.209 X-INVALID-NUMER-209 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_3R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6 + C_2C_3C_6R_3R_4R_6\right) + s\left(C_1C_2R_3R_4 + C_1C_3R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_4R_6 + C_2C_3R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_3R_6 + C_1C_6R_3R_6 + C_2C_3R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_3R_6 + C_2C_3R_3R_4 + C_2C_6R_4R_6\right)}$

Parameters:

 $\frac{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_$

wo: $\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6 + C_2C_3C_6R_3R_4R_6}}$

 $bandwidth: \frac{\sqrt{C_1R_3 + C_1R_4 + C_2R_4}(C_1C_2R_3R_4 + C_1C_5R_3R_4 + C_1C_6R_4R_6 + C_2C_3R_3R_4 + C_2C_6R_4R_6)\sqrt{\frac{1}{C_1C_2C_6R_3R_4R_6 + C_1C_5C_6R_3R_4R_6 + C_2C_3C_6R_3R_4R_6}}{C_1C_2\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_1C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} - C_1C_5\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} - C_1C_5\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} - C_1C_5\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} - C_1C_5\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} - C_1C_5\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4$

Wz: None

K-BP: $\frac{C_3C_5R_3R_4R_6}{C_1C_2R_3R_4+C_1C_3R_3R_4-C_1C_5R_3R_4+C_1C_6R_3R_6+C_1C_6R_4R_6+C_2C_3R_3R_4+C_2C_6R_4R_6}$ Qz: None

9.210 X-INVALID-NUMER-210 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_3C_5R_3R_4R_6s + C_5R_4R_6$ $H(s) = \frac{C_3C_5R_3R_4R_5 + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_5R_3R_4R_5 + C_1C_3C_5R_3R_4R_5 + C_2C_3C_5R_3R_4R_5\right) + s\left(C_1C_2R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5 + C_2C_3R_3R_4 + C_2C_5R_4R_5\right)}$

Parameters:

wo: $\frac{\sqrt{C_1R_3 + C_1R_4 + C_2R_4}}{\sqrt{C_1C_2C_5}R_3R_4R_5 + C_1C_3C_5R_3R_4R_5 + C_2C_3C_5R_3R_4R_5}}{\sqrt{C_1C_2C_5}R_3R_4C_1C_3C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5 + C_2C_3R_3R_4 + C_2C_5R_4R_5}}$ bandwidth: $\frac{C_1C_2R_3R_4 + C_1C_3R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5 + C_2C_3R_3R_4 + C_2C_5R_4R_5}{\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2 + C_1C_3 + C_2C_3}\sqrt{C_1C_2C_5R_3R_4R_5 + C_1C_3C_5R_3R_4R_5 + C_2C_3C_5R_3R_4R_5}}$ K-LP: $\frac{C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4}$ K-HP: 0

K-BP: $\frac{C_3C_5R_3R_4R_6}{C_1C_2R_3R_4+C_1C_3R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_3R_3R_4+C_2C_5R_4R_5}$

Qz: None

Wz: None

9.211 X-INVALID-NUMER-211 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{R_3}{C_3 R_3 s + 1}, & \frac{1}{C_4 s}, & \frac{1}{C_5 s}, & \frac{R_6}{C_6 R_6 s + 1} \end{pmatrix}$

 $H(s) = \frac{C_3C_5R_3R_6s + C_5R_6}{C_1 + C_2 + s^2\left(C_1C_2C_6R_3R_6 + C_1C_3C_6R_3R_6 + C_1C_4C_6R_3R_6 - C_1C_5C_6R_3R_6 + C_2C_3C_6R_3R_6\right) + s\left(C_1C_2R_3 + C_1C_3R_3 + C_1C_4R_3 - C_1C_5R_3 + C_1C_6R_6 + C_2C_3R_3 + C_2C_6R_6\right)}$

Parameters:

 $Q: \frac{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}R_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}R_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{2}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{2}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{2}\sqrt{C_{1}C_{2}+$

wo: $\sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 C_6 R_3 R_6 + C_1 C_3 C_6 R_3 R_6 + C_1 C_4 C_6 R_3 R_6 - C_1 C_5 C_6 R_3 R_6 + C_2 C_3 C_6 R_3 R_6}$

 $\sqrt{C_1 + C_2} \left(C_1 C_2 R_3 + C_1 C_3 R_3 + C_1 C_4 R_3 - C_1 C_5 R_3 + C_1 C_6 R_6 + C_2 C_3 R_3 + C_2 C_6 R_6 \right) \sqrt{\frac{C_1 C_2 C_6 R_3 R_6 + C_1 C_3 C_6 R_3 R_6 + C_1 C_5 C_6 R_3 R_6 + C_2 C_3 C_6 R_5 + C_2 C_5 C_6 R_5 + C_2$ $\frac{\sqrt{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}\sqrt{C_{1}+C_{2}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}\sqrt{C_{1}+C_{2}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}\sqrt{C_{1}+C_{2}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}\sqrt{C_{1}+C_{2}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}\sqrt{C_{1}+C_{2}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}\sqrt{C_{1}+C_{2}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}}+C_{2}C_{3}\sqrt{C_{6}\sqrt{R_{3}}\sqrt{R_{6}\sqrt{C_{1}+C_{2}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_$

K-LP: $\frac{C_5R_6}{C_1+C_2}$ K-HP: 0

K-BP: $\frac{C_3C_5R_3R_6}{C_1C_2R_3+C_1C_3R_3+C_1C_4R_3-C_1C_5R_3+C_1C_6R_6+C_2C_3R_3+C_2C_6R_6}$ Qz: None

Wz: None

9.212 X-INVALID-NUMER-212 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{R_3}{C_3 R_3 s+1}, & \frac{1}{C_4 s}, & R_5 + \frac{1}{C_5 s}, & R_6 \end{pmatrix}$

 $H(s) = \frac{C_3C_5R_3R_6s + C_5R_6}{C_1 + C_2 + s^2\left(C_1C_2C_5R_3R_5 + C_1C_3C_5R_3R_5 + C_1C_4C_5R_3R_5 + C_2C_3C_5R_3R_5\right) + s\left(C_1C_2R_3 + C_1C_3R_3 + C_1C_4R_3 - C_1C_5R_3 + C_1C_5R_5 + C_2C_3R_3 + C_2C_5R_5\right)}$

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K-LP: \frac{C_5 R_6}{C_1 + C_2}
K-HP: 0
               K-BP: \frac{C_3C_5R_3R_6}{C_1C_2R_3+C_1C_3R_3+C_1C_4R_3-C_1C_5R_3+C_1C_5R_5+C_2C_3R_3+C_2C_5R_5} Qz: None
                 Wz: None
9.213 X-INVALID-NUMER-213 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_3C_5R_3R_4R_6s + C_5R_4R_6
                                      H(s) = \frac{C_3C_5R_3R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_6 + C_1C_5C_6R_3R_4R_6 + C_1C_5R_3R_4 + C_1C_5R_3R_4
       Parameters:
                  Q: \underbrace{\frac{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}} + C_{1}R_{4} + C_{2}R_{4}\sqrt{\frac{1}{C_{1}C_{2} + C_{1}C_{3}} + C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}} + C_{1}R_{4} + C_{2}R_{4}}\sqrt{\frac{1}{C_{1}C_{2} + C_{1}C_{3}} + C_{1}C_{5}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}} + C_{1}C_{
                 \text{wo: } \sqrt{C_1R_3 + C_1R_4 + C_2R_4} \sqrt{\frac{1}{C_1C_2C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6 + C_2C_3C_6R_3R_4R_6}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \frac{\sqrt{C_1C_2\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}}{C_1C_2\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1C_4+C_2C_3}} + C_1C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1C_4+C_2C_3}} + C_1C_3\sqrt{C_6}\sqrt{R_3}\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1C_4
                \text{K-BP: } \frac{C_3C_5R_3R_4R_6}{C_1C_2R_3R_4+C_1C_3R_3R_4+C_1C_4R_3R_4-C_1C_5R_3R_4+C_1C_6R_3R_6+C_1C_6R_4R_6+C_2C_3R_3R_4+C_2C_6R_4R_6}
                   Qz: None
                  Wz: None
9.214 X-INVALID-NUMER-214 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_3C_5R_3R_4R_6s + C_5R_4R_6
                                                                                       H(s) = \frac{C_3C_3R_4R_5}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_5R_3R_4R_5 + C_1C_3C_5R_3R_4R_5 + C_1C_4C_5R_3R_4R_5 + C_2C_3C_5R_3R_4R_5\right) + s\left(C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5 + C_2C_3R_3R_4 + C_2C_5R_4R_5\right)}{c_3C_3R_4R_5 + c_3C_3R_4R_5 + c_3C_3R_4
       Parameters:
         Q: \frac{\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1R_3}+C_1R_4+C_2R_4}{\sqrt{C_1C_2}+C_1C_3+C_1C_4+C_2C_3}}{\sqrt{C_1C_2R_3R_4}+C_1C_3R_3R_4+C_1C_5R_3R_4}+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_3R_3R_4+C_2C_5R_4R_5}
wo: \frac{\sqrt{C_1R_3}+C_1R_4+C_2R_4}{\sqrt{C_1C_2C_5}R_3R_4R_5+C_1C_3C_5R_3R_4R_5+C_2C_3C_5R_3R_4R_5}}
bandwidth: \frac{C_1C_2R_3R_4+C_1C_3R_3R_4+C_1C_4C_5R_3R_4+C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_3R_3R_4+C_2C_5R_4R_5}{\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2}+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_5R_3R_4R_5+C_1C_3C_5R_3R_4R_5+C_1C_4C_5R_3R_4R_5+C_2C_3C_5}}
K-LP: \frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4}
K-HP: 0
                K-BP: \frac{C_3C_5R_3R_4R_6}{C_1C_2R_3R_4+C_1C_3R_3R_4+C_1C_4R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_3R_3R_4+C_2C_5R_4R_5}{\text{Qz: None}} Qz: None
                 Wz: None
9.215 X-INVALID-NUMER-215 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{C_2C_5R_2R_4R_6s + C_5R_4R_6}{-C_1C_2C_5R_2R_3R_4s^2 + C_1R_3 + C_1R_4 + C_2R_4 + s\left(C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 - C_1C_5R_3R_4\right)}
       Parameters:
```

Q: $-\frac{i\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1}R_3 + C_1R_4 + C_2R_4}{\sqrt{C_1}C_2R_2R_3 + \sqrt{C_1}C_2R_2R_4 + \sqrt{C_1}C_2R_3R_4 - \sqrt{C_1}C_5R_3R_4}$ wo: $\frac{\sqrt{-C_1}R_3 - C_1R_4 - C_2R_4}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{i\sqrt{-C_1R_3-C_1R_4-C_2R_4}\Big(\sqrt{C_1}C_2R_2R_3+\sqrt{C_1}C_2R_2R_4+\sqrt{C_1}C_2R_3R_4-\sqrt{C_1}C_5R_3R_4\Big)}{-(1-c_1R_3-c_1R_4-c_2R_4)}$ $\sqrt{C_1}C_2C_5R_2R_3R_4\sqrt{C_1R_3+C_1R_4+C_2R_4}$ K-LP: $\frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4}$ K-HP: 0 K-BP: $\frac{C_2C_5R_2R_4R_6}{C_1C_2R_2R_3+C_1C_2R_2R_4+C_1C_2R_3R_4-C_1C_5R_3R_4}$

9.216 X-INVALID-NUMER-216 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_5R_2R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(-C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_2R_4R_5 + C_1C_2C_5R_3R_4 + C_1C_2R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5\right)}$$

Parameters:

 $Q: \frac{-\sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{5}}R_{2}R_{3}R_{4}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{5}}R_{2}R_{3}R_{5}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{5}}R_{3}R_{4}+C_{1}C_{5}R_{3}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{5}}R_{3}R_{4}+C_{1}C_{5}R_{3}R_{4}+C$ Wo: $\sqrt{\frac{-C_1R_3 - C_1R_4 - C_2R_4}{C_1C_2C_5R_2R_3R_4 - C_1C_2C_5R_2R_3R_5 - C_1C_2C_5R_2R_4R_5 - C_1C_2C_5R_3R_4R_5}}$ $\frac{-c_{1}R_{3}-c_{1}R_{4}-c_{2}R_{4}}{\sqrt{c_{1}c_{2}c_{5}R_{2}R_{3}R_{4}-c_{1}c_{2}c_{5}R_{3}R_{4}-c_{1}c_{2}c_{5}R_{3}R_{4}-c_{1}c_{2}c_{5}R_{3}R_{4}-c_{1}c_{2}c_{5}R_{3}R_{4}-c_{1}c_{2}c_{5}R_{3}R_{4}-c_{1}c_{2}R_{3}R_{4}+c_{1}c_{5}R_{3}R_$

K-LP: $\frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4}$ K-HP: 0

K-BP: $\frac{C_2C_5R_2R_4R_6}{C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5 + C_2C_5R_4R_5}$

Qz: None Wz: None

9.217 X-INVALID-NUMER-217 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_5R_2R_6s + C_5R_6}{C_1 + C_2 + s^2\left(C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3\right) + s\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 - C_1C_5R_3\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_2R_2+\sqrt{C_1}C_2R_3+\sqrt{C_1}C_4R_3-\sqrt{C_1}C_5R_3}} \\ \text{wo: } \sqrt{C_1+C_2}\sqrt{\frac{1}{C_1C_2C_4R_2R_3-C_1C_2C_5R_2R_3}} \\ \text{bandwidth: } \frac{\sqrt{C_1+C_2}\left(\sqrt{C_1}C_2R_2+\sqrt{C_1}C_2R_3+\sqrt{C_1}C_4R_3-\sqrt{C_1}C_5R_3\right)\sqrt{\frac{1}{C_1C_2C_4R_2R_3-C_1C_2C_5R_2R_3}}}{\sqrt{C_2C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_4-C_5}}}} \\ \text{K-LP: } \frac{C_5R_6}{C_1+C_2} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_2C_5R_2R_6}{C_1C_2R_2+C_1C_2R_3+C_1C_4R_3-C_1C_5R_3}} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.218 X-INVALID-NUMER-218 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_5R_2R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_4R_2R_3R_4 - C_1C_2C_5R_2R_3R_4\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4\right)}$$

$$Q\colon \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3} + C_1R_4 + C_2R_4}{\sqrt{C_4-C_5}} - \sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3} + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_2R_2R_3 + \sqrt{C_1}C_2R_2R_4 + \sqrt{C_1}C_2R_3R_4 + \sqrt{C_1}C_4R_3R_4 - \sqrt{C_1}C_5R_3R_4}}$$
 wo:
$$\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2C_4R_2R_3}R_4 - C_1C_2C_5R_2R_3R_4}}$$
 bandwidth:
$$\frac{\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{C_1}C_2R_2R_3 + \sqrt{C_1}C_2R_2R_4 + \sqrt{C_1}C_2R_3R_4 + \sqrt{C_1}C_4R_3R_4 - \sqrt{C_1}C_5R_3R_4})\sqrt{\frac{1}{C_1C_2C_4R_2R_3}\frac{1}{R_4-C_1}C_2C_5R_2R_3R_4}}}{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_4-C_5}}}$$
 K-LP:
$$\frac{C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4}}{K-HP: 0}$$
 K-BP:
$$\frac{C_2C_5R_2R_4R_6}{C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4}}{C_2C_3R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4}}$$
 Qz: None Wz: None

9.219 X-INVALID-NUMER-219 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_2R_4R_6s + C_3R_4R_6}{C_1C_2C_3R_2R_4R_5s^2 - C_1R_4 + C_1R_5 + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_2C_3R_4R_5\right)}$$

Parameters:

Q: $-\frac{C_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_4+R_5}}{C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_5-C_1C_3R_4R_5-C_2C_3R_4R_5}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $-\frac{C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_5-C_1C_3R_4R_5-C_2C_3R_4R_5}{C_1C_2C_3R_2R_4R_5}$

K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0

K-BP: $-\frac{C_2C_3R_2R_4R_6}{C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_5-C_1C_3R_4R_5-C_2C_3R_4R_5}$ Qz: None

Wz: None

9.220 X-INVALID-NUMER-220 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_3R_2R_4 - C_1C_2C_5R_2R_4\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4\right)}$$

Parameters:

Q: $\frac{C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}}-C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}}}{C_1C_2R_2+C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_2C_3R_4}$

WO: $\sqrt{\frac{1}{C_2C_3R_2R_4-C_2C_5R_2R_4}}$

wo. $\sqrt{C_2C_3R_2R_4 - C_2C_5R_2R_4}$ bandwidth: $\frac{(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_2R_4 - C_2C_5R_2R_4}}}{C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3 - C_5}} - C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3 - C_5}}}$

K-HP: $\frac{C_3C_5R_6}{C_1C_3-C_1C_5}$ K-BP: $\frac{C_3C_5R_6}{C_1C_2R_2+C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_2C_3R_4}$ Qz: None

Wz: None

9.221 X-INVALID-NUMER-221 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_4s + C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_4 - C_1C_2C_5C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

 $\frac{C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}}-C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}}}{C_1C_2R_2+C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_2C_3R_4}$

bandwidth: $\frac{(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_2R_4 - C_2C_5R_2R_4}}}{C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}} - C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}}}$

K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: 0

K-BP: $\frac{C_2C_3C_5R_2R_4}{C_1C_2C_6R_2+C_1C_2C_6R_4+C_1C_3C_6R_4-C_1C_5C_6R_4+C_2C_3C_6R_4}$ Qz: None

Wz: None

9.222 X-INVALID-NUMER-222 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_2R_6s + C_3R_6}{-C_1 + s^2\left(C_1C_2C_3R_2R_5 + C_1C_2C_4R_2R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 + C_2C_3R_5\right)}$$

```
wo: \frac{\iota}{\sqrt{C_2C_3R_2R_5+C_2C_4R_2R_5}} bandwidth: -\frac{C_1C_2R_2-C_1C_2R_5-C_1C_3R_5-C_1C_4R_5-C_2C_3R_5}{C_1\sqrt{C_2}\sqrt{R_2}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{C_2C_3R_2R_5+C_2C_4R_2R_5}}
K-HP: 0
K-BP: -\frac{C_2C_3R_2R_6}{C_1C_2R_2-C_1C_2R_5-C_1C_3R_5-C_1C_4R_5-C_2C_3R_5} Qz: None
Wz: None
```

9.223 X-INVALID-NUMER-223 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_6R_2R_6 + C_1C_2C_4C_6R_2R_6 - C_1C_2C_5C_6R_2R_6\right) + s\left(C_1C_2C_3R_2 + C_1C_2C_5R_2 + C_1C_2C_6R_6 + C_1C_3C_6R_6 + C_1C_4C_6R_6 - C_1C_5C_6R_6 + C_2C_3C_6R_6\right)}$

Parameters:

```
Q: \frac{\sqrt{C_1}\sqrt{C_2}C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}\sqrt{\frac{C_1C_2}{C_3+C_4-C_5}} + \frac{C_1C_3}{C_3+C_4-C_5} + \frac{C_1C_4}{C_3+C_4-C_5} + \frac{C_1C_3}{C_3+C_4-C_5} + \frac{C
Wo: \sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_6R_2R_6+C_1C_2C_4C_6R_2R_6-C_1C_2C_5C_6R_2R_6}}
```

 $\text{bandwidth: } \frac{\sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_6R_2R_6+C_1C_2C_5R_2+C_1C_2C_5R_2+C_1C_2C_6R_6+C_1C_3C_6R_6+C_1C_3C_6R_6+C_2C_3C_6R_6}}{\sqrt{C_1\sqrt{C_2}C_3\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}\sqrt{\frac{C_1C_2}{C_3+C_4-C_5}+\frac{C_1C_3}{C_3$

K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: 0

 $\text{K-BP: } \frac{C_2C_3C_5R_2R_6}{C_1C_2C_3R_2 + C_1C_2C_4R_2 - C_1C_2C_5R_2 + C_1C_2C_6R_6 + C_1C_3C_6R_6 + C_1C_4C_6R_6 - C_1C_5C_6R_6 + C_2C_3C_6R_6}$

Qz: None Wz: None

9.224 X-INVALID-NUMER-224 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_2C_3C_5R_2R_6s + C_3C_5R_6$ $H(s) = \frac{C_2C_3C_5R_2R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2(C_1C_2C_3C_5R_2R_5 + C_1C_2C_4C_5R_2R_5) + s(C_1C_2C_3R_2 + C_1C_2C_5R_2 + C_1C_2C_5R_5 + C_1C_3C_5R_5 + C_1C_4C_5R_5 + C_2C_3C_5R_5)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{C_1C_2C_3R_2+C_1C_2C_4R_2-C_1C_2C_5R_2+C_1C_2C_5R_5+C_1C_3C_5R_5+C_1C_4C_5R_5+C_2C_3C_5R_5}}$ wo: $\frac{\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{\sqrt{C_1C_2C_3C_5}R_2R_5+C_1C_2C_4C_5R_2R_5}}$ bandwidth: $\frac{C_1C_2C_3R_2+C_1C_2C_4R_2-C_1C_2C_5R_2+C_1C_2C_5R_5+C_1C_3C_5R_5+C_1C_4C_5R_5+C_2C_3C_5R_5}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{C_1C_2C_3C_5R_2+C_1C_2C_4C_5R_2}}}$ K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: 0 K-BP: $\frac{C_2C_3C_5R_2R_6}{C_1C_2C_3R_2 + C_1C_2C_4R_2 - C_1C_2C_5R_2 + C_1C_2C_5R_5 + C_1C_3C_5R_5 + C_1C_4C_5R_5 + C_2C_3C_5R_5}{C_1C_2C_3R_2 + C_1C_2C_4R_2 - C_1C_2C_5R_2 + C_1C_2C_5R_5 + C_1C_3C_5R_5 + C_1C_4C_5R_5 + C_2C_3C_5R_5}$ Qz: None

9.225 X-INVALID-NUMER-225 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $C_2C_3R_2R_4R_6s + C_3R_4R_6$ $H(s) = \frac{-\frac{1}{12} \left(-\frac{1}{12} \left(-\frac{1}{1$

Parameters:

Wz: None

 $\begin{aligned} & \text{Q:} - \frac{C_1 \sqrt{C_2} \sqrt{R_2} \sqrt{R_4} \sqrt{R_5} \sqrt{C_3 + C_4} \sqrt{-R_4 + R_5}}{C_1 C_2 R_2 R_4 - C_1 C_2 R_2 R_5 - C_1 C_2 R_4 R_5 - C_1 C_3 R_4 R_5 - C_1 C_4 R_4 R_5 - C_2 C_3 R_4 R_5} \\ & \text{wo:} \ \, \frac{\sqrt{-R_4 + R_5}}{\sqrt{C_2 C_3 R_2 R_4 R_5 + C_2 C_4 R_2 R_4 R_5}} \\ & \text{bandwidth:} \ \, - \frac{C_1 C_2 R_2 R_4 - C_1 C_2 R_2 R_5 - C_1 C_2 R_4 R_5 - C_1 C_3 R_4 R_5 - C_1 C_4 R_4 R_5 - C_2 C_3 R_4 R_5}{C_1 \sqrt{C_2} \sqrt{R_2} \sqrt{R_4} \sqrt{R_5} \sqrt{C_3 + C_4} \sqrt{C_2 C_3 R_2 R_4 R_5 + C_2 C_4 R_2 R_4 R_5}} \end{aligned}$ K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0 $\text{K-BP:} - \frac{C_2C_3R_2R_4R_6}{C_1C_2R_2R_4 - C_1C_2R_2R_5 - C_1C_2R_4R_5 - C_1C_3R_4R_5 - C_1C_4R_4R_5 - C_2C_3R_4R_5}$ Qz: None Wz: None

9.226 X-INVALID-NUMER-226
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_3R_2R_4 + C_1C_2C_4R_2R_4 - C_1C_2C_5R_2R_4\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_2C_3R_4\right)}$$

9.227 X-INVALID-NUMER-227 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_4s + C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_4 + C_1C_2C_4C_6R_2R_4 - C_1C_2C_5C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

9.228 X-INVALID-NUMER-228 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_2R_4R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^2\left(-C_1C_2C_3R_2R_3R_4 + C_1C_2C_3R_2R_3R_5 + C_1C_2C_3R_2R_4R_5 + C_1C_2R_3R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 + C_2C_3R_4R_5\right)}$$

Parameters:

$$Q: \frac{C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - C_1\sqrt{C_2}\sqrt{C_3}R_2R_4R_5+R_3R_4R_5} - C_1\sqrt{C_2}\sqrt{C_3}R_2R_4R_5 + \frac{R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - C_1\sqrt{C_2}\sqrt{C_3}R_2R_4R_5$$

Qz: None Wz: None

9.229 X-INVALID-NUMER-229 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_2R_3 - C_1C_2C_3C_5R_2R_3\right) + s\left(C_1C_2C_3R_2 + C_1C_2C_3R_3 + C_1C_2C_4R_2 - C_1C_2C_5R_2 + C_1C_3C_4R_3 - C_1C_3C_5R_3\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_2}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_1C_2}{C_4-C_5}} + \frac{C_1C_3}{C_4-C_5} + \frac{C_1C_4}{C_4-C_5} - \frac{C_1C_5}{C_4-C_5} + \frac{C_2C_3}{C_4-C_5}}{\sqrt{C_1}C_2C_3R_2 + \sqrt{C_1}C_2C_3R_3 + \sqrt{C_1}C_2C_4R_2} - \sqrt{C_1}C_2C_5R_2 + \sqrt{C_1}C_3C_4R_3 - \sqrt{C_1}C_3C_5R_3} } \\ wo: \sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_4R_2R_3-C_1C_2C_3C_5R_2R_3}}} \\ bandwidth: \frac{\sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_4R_2R_3-C_1C_2C_3C_5R_2R_3}} (\sqrt{C_1}C_2C_3R_2 + \sqrt{C_1}C_2C_3R_3 + \sqrt{C_1}C_2C_4R_2 - \sqrt{C_1}C_2C_5R_2 + \sqrt{C_1}C_3C_4R_3 - \sqrt{C_1}C_3C_5R_3})}{\sqrt{C_2}\sqrt{C_3C_3C_4R_2R_3-C_1C_2C_3C_5R_2R_3}} (\sqrt{C_1C_2C_3R_2} + \frac{C_1C_3}{C_4-C_5} + \frac{C_2C_3}{C_4-C_5} - \sqrt{C_2}C_4R_2 - \sqrt{C_1}C_2C_5R_2 + \sqrt{C_1}C_3C_4R_3 - \sqrt{C_1}C_3C_5R_3})} \\ bandwidth: \frac{\sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_4R_2R_3-C_1C_2C_3C_5R_2R_3}} (\sqrt{C_1C_2C_3R_2} + \sqrt{C_1C_2C_3R_3} + \sqrt{C_1C_2C_4R_2} - \sqrt{C_1C_2C_5R_2} + \sqrt{C_1C_3C_4R_3} - \sqrt{C_1C_3C_5R_3})}}{\sqrt{C_2}\sqrt{C_3C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_1C_2}{C_4-C_5}} + \frac{C_1C_3}{C_4-C_5}} + \frac{C_1C_3}{C_4-C_5}} - \sqrt{C_2}\sqrt{C_3C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_1C_2}{C_4-C_5}} + \frac{C_1C_3}{C_4-C_5}} + \frac{C_1C_3}{C_4-C_5}}} \\ K-LP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{C_1C_2C_3R_3+C_1C_2C_4R_2-C_1C_2C_5R_2+C_1C_3C_4R_3-C_1C_3C_5R_3}} \\ W_2: None \\ W_z: None \\$$

9.230 X-INVALID-NUMER-230 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_2R_4R_6s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_2C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_2C_6R_2R_4\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{\sqrt{C_1}C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2-C_5}}}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4}\\ \text{wo: } \sqrt{\frac{1}{C_1C_2R_3}-\frac{1}{C_1C_5R_2R_3}}\\ \text{bandwidth: } \frac{(C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4)\sqrt{\frac{1}{C_1C_2R_2R_3-C_1C_5R_2R_3}}}{\sqrt{C_1}C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2-C_5}}}\\ \text{K-LP: } \frac{C_5R_2}{C_6}\\ \text{K-HP: } 0\\ \text{K-BP: } \frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4}}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

9.231 X-INVALID-NUMER-231 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_2 R_4 R_5 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^2 \left(C_1 C_2 R_2 R_3 R_4 R_5 - C_1 C_5 R_2 R_3 R_4 R_5\right) + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 + C_2 R_2 R_4 R_5\right)}$$

9.232 X-INVALID-NUMER-232
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_2R_6s + C_5R_2}{C_6 + s^2\left(C_1C_2C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2\right)}$$

$$Q \colon \frac{\sqrt{C_{1}}C_{2}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}} + \sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}} - \sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}{C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2}}$$

$$\text{wo: } \sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}$$

$$\text{bandwidth: } \frac{(C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}{\sqrt{C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}} + \sqrt{C_{1}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}$$

$$\text{K-LP: } \frac{C_{5}R_{2}}{C_{6}}$$

$$\text{K-HP: } 0$$

$$\text{K-BP: } \frac{C_{5}R_{2}R_{6}}{C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2}}}{C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2}}}$$

$$\text{Qz: None}$$

$$\text{Wz: None}$$

9.233 X-INVALID-NUMER-233 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_5 R_2 R_5 R_6 s + R_2 R_6}{R_5 + s^2 \left(C_1 C_2 R_2 R_3 R_5 + C_1 C_4 R_2 R_3 R_5 - C_1 C_5 R_2 R_3 R_5\right) + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_2 R_2 R_5\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{-\sqrt{C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}{C_{1}R_{2}R_{3}-C_{1}R_{2}R_{5}-C_{1}R_{3}R_{5}-C_{2}R_{2}R_{5}}}\\ \text{wo: } \sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}\\ \text{bandwidth: } \frac{(C_{1}R_{2}R_{3}-C_{1}R_{2}R_{5}-C_{1}R_{3}R_{5}-C_{2}R_{2}R_{5})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{-\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}-\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}\\ \text{K-LP: } \frac{R_{2}R_{6}}{R_{5}}\\ \text{K-HP: 0}\\ \text{K-BP: } -\frac{C_{5}R_{2}R_{5}R_{6}}{C_{1}R_{2}R_{3}-C_{1}R_{2}R_{5}-C_{1}R_{3}R_{5}-C_{2}R_{2}R_{5}}}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

9.234 X-INVALID-NUMER-234 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_2R_4R_6s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_2C_6R_2R_4\right)}$$

$$Q \colon \frac{\sqrt{C_1}C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4} \\ \text{Wo: } \sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4)\sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}}}{\sqrt{C_1}C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_2+C_4-C_5}}} \\ \text{K-LP: } \frac{C_5R_2}{C_6} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4}} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.235 X-INVALID-NUMER-235
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_5 R_2 R_4 R_5 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^2 \left(C_1 C_2 R_2 R_3 R_4 R_5 + C_1 C_4 R_2 R_3 R_4 R_5 - C_1 C_5 R_2 R_3 R_4 R_5\right) + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 + C_2 R_2 R_4 R_5\right)}$$

$$Q\colon \frac{-\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}{C_{1}R_{2}R_{3}R_{4}-C_{1}R_{2}R_{3}R_{5}-C_{1}R_{2}R_{4}R_{5}-C_{1}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}}$$

$$\text{wo: }\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}$$

$$\text{bandwidth: }\frac{(C_{1}R_{2}R_{3}R_{4}-C_{1}R_{2}R_{3}R_{5}-C_{1}R_{2}R_{4}R_{5}-C_{1}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{-\sqrt{C_{1}}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}R_{5}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}}$$

$$\text{K-LP: }\frac{R_{2}R_{6}}{R_{5}}$$

$$\text{K-HP: 0}$$

$$\text{K-BP: }-\frac{C_{5}R_{2}R_{4}R_{5}R_{6}}{C_{1}R_{2}R_{3}R_{5}-C_{1}R_{2}R_{4}R_{5}-C_{1}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}}}{C_{2}R_{2}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}}}$$

$$\text{Qz: None}$$

$$\text{Wz: None}$$

9.236 X-INVALID-NUMER-236 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_2R_4 + S^2\left(C_1C_2C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + S(C_1C_2C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_4$

Parameters:

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Q: \frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{C_1C_2R_2R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5} wo: \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_2C_5R_2R_4R_5+C_1C_3C_5R_2R_4}R_5+C_2C_3C_5R_2R_4R_5} bandwidth: \frac{C_1C_2R_2R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5}{\sqrt{C_5}\sqrt{R_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_5}R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3C_5R_2R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5} K-HP: 0

K-BP: \frac{C_3C_5R_2R_4}{C_1C_2R_2R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5} Qz: None

Wz: None
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9.237 X-INVALID-NUMER-237 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_2C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_5C_6R_2R_4R_5R_6 + C_1C_5R_2R_4R_5 + C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_6R_2R_4R_5 + C_1C_6R_4R_5 + C_1C_6R_4R_5R_5 + C_1C_6R_4R_5 + C_1C_6R_5R_5 + C_1C_6R_5R_5 + C_1C_6R_5R_5 + C_1C_6R_5R_5 + C_1C_6R_5R_5 + C_1C_6R_5R_5 + C_1C_6R_5R$

Parameters:

$$Q: \frac{C_1C_2\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_1R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_1R_4R_5}{C_1C_2$$

9.238 X-INVALID-NUMER-238 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_6s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5 + C_2C_3C_5C_6R_2R_5\right) + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_5C_6R_2 + C_1C_5C_6$$

Parameters:

Wz: None

Q: $\frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}\sqrt{C_1+C_3}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1C_2R_2+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_2C_3R_2+C_3C_5R_5}$ wo: $\frac{\sqrt{C_1+C_3}}{\sqrt{C_1C_2C_5R_2R_5+C_1C_3C_5R_2R_5+C_1C_4C_5R_2R_5+C_2C_3C_5R_2R_5}}$ bandwidth: $\frac{C_1C_2R_2+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_1C_4R_2-C_1C_5R_2+C_1C_3C_5R_2}$ K-LP: $\frac{C_3C_5R_2}{C_1C_6+C_3C_6}$ K-HP: 0 K-BP: $\frac{C_3C_5R_2R_6}{C_1C_2R_2+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_2C_3R_2+C_3C_5R_5}$ Qz: None Wz: None **9.239** X-INVALID-NUMER-239 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $C_3C_5R_2R_5R_6s + C_3R_2R_6$ $H(s) = \frac{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_6R_2R_5R_6 + C_1C_3C_6R_2R_5R_6 + C_1C_4C_6R_2R_5R_6 - C_1C_5C_6R_2R_5R_6 + C_2C_3C_6R_2R_5R_6 + C_1C_4R_2R_5 - C_1C_5R_2R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5 - C_1C_6R_2R_6 + C_1C_6R_5R_6 + C_2C_3R_2R_5 + C_3C_6R_2R_5R_6 + C_3C_6R_5R_6 + C_3C$ Parameters: $O: \frac{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}R_{5}}{C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}R_{5}}{C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}R_{5}}{C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}R_{5}}{C_{1}C_{5}+C_{2}C_{3}} + \frac{C_{1}R_{5}}{C_{1}C_{5}+C_{2$ Wo: $\sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_2C_6R_2R_5R_6+C_1C_3C_6R_2R_5R_6+C_1C_4C_6R_2R_5R_6-C_1C_5C_6R_2R_5R_6+C_2C_3C_6R_2R_5R_6}}$ K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$ K-HP: 0 $\text{K-BP:} \frac{C_3C_5R_2R_5R_6}{C_1C_2R_2R_5+C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_5R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_2C_3R_2R_5+C_3C_6R_5R_6}$ Qz: None Wz: None **9.240** X-INVALID-NUMER-240 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$ $C_3C_4R_2R_4R_6s + C_3R_2R_6$ $H(s) = \frac{-3C_4R_2R_4R_6 + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_4R_2R_4R_5 + C_1C_3C_4R_2R_4R_5 + C_2C_3C_4R_2R_4R_5\right) + s\left(C_1C_2R_2R_5 + C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 + C_2C_3R_2R_5 + C_3C_4R_4R_5\right)}$ Parameters: wo: $\frac{\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{\sqrt{C_1C_2C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_2C_3C_4R_2R_4R_5}}$ bandwidth: $\frac{C_1C_2R_2R_5+C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_4R_4R_5+C_2C_3R_2R_5+C_3C_4R_4R_5}{\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_2C_3C_4R_2R_4R_5}}$ K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$ K-HP: 0 K-BP: $\frac{C_3C_4R_2R_4R_6}{C_1C_2R_2R_5+C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_4R_4R_5+C_2C_3R_2R_5+C_3C_4R_4R_5}$ Qz: None Wz: None **9.241** X-INVALID-NUMER-241 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_2C_4R_2R_4 + C_1C_3C_4R_2R_4 - C_1C_4C_5R_2R_4 + C_2C_3C_4R_2R_4\right) + s\left(C_1C_2R_2 + C_1C_3R_2 + C_1C_4R_4 - C_1C_5R_2 + C_2C_3R_2 + C_3C_4R_4\right)}$ Parameters: $Q: \frac{C_1C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1\sqrt{C_4}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} \\ - C_1C_2R_2+C_1C_3R_2+C_1C_4R_4-C_1C_5R_2+C_2C_3R_2+C_3C_4R_4$ $\sqrt{C_1 + C_3} (C_1 C_2 R_2 + C_1 C_3 R_2 + C_1 C_4 R_2 + C_1 C_4 R_4 - C_1 C_5 R_2 + C_2 C_3 R_2 + C_3 C_4 R_4) \sqrt{\frac{1}{C_1 C_2 C_4 R_2 R_4 + C_1 C_3 C_4 R_2 R_4 + C_1 C_4 C_5 R_2 R_4 + C_2 C_3 C_4 R_2 R_4}}$ $\frac{\sqrt{C_{1}C_{2}C_{4}N_{2}N_{4}+C_{1}C_{3}C_{4}N_{2}N_{4}+C_{1}C_{3}C_{4}N_{2}N_{4}+C_{1}C_{3}C_{4}N_{2}N_{4}+C_{1}C_{3}C_{4}N_{2}N_{4}+C_{1}C_{3}C_{4}N_{2}N_{4}}{C_{1}C_{2}\sqrt{C_{4}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}}} + C_{1}C_{3}\sqrt{C_{4}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}} + C_{1}C_{3}\sqrt{C_{4}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}} - C_{1}\sqrt{C_{4}C_{5}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}} + C_{2}C_{3}\sqrt{C_{4}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}} + C_{2}C_{3}\sqrt{C_{4}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}}} + C_{2}C_{3}\sqrt{C_{4}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}}}} + C_{2}C_{3}\sqrt{C_{4}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}}} + C_{2}C_{3}\sqrt{C_{4}\sqrt{R_{2}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}}} + C_{2}C_{3}\sqrt{C_{4}\sqrt{R_{4}\sqrt{C_{1}+C_{3}}}}} + C_$ K-LP: 0 $\begin{array}{l} \text{K-HP: } \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} \\ \text{K-BP: } \frac{C_3C_5R_2R_6}{C_1C_2R_2+C_1C_3R_2+C_1C_4R_2+C_1C_4R_4-C_1C_5R_2+C_2C_3R_2+C_3C_4R_4} \end{array}$

Qz: None Wz: None

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9.242 X-INVALID-NUMER-242 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
```

 $C_3C_4C_5R_2R_4s + C_3C_5R_2$ $H(s) = \frac{C_3C_4C_5R_2R_4S + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_4C_6R_2R_4 + C_1C_3C_4C_6R_2R_4 + C_2C_3C_4C_6R_2R_4 + S(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_2C_3C_6R_2 + C_3C_4C_6R_4\right)}$

Parameters:

 $\frac{C_{1}C_{2}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{1}+C_{3}}\sqrt{C_{1}+C_{3}}\sqrt{C_{1}+C_{3}}\sqrt{C_{1}+C_{3}}\sqrt{C_{1}+$

 $\text{bandwidth: } \frac{\sqrt{C_1 + C_3}(C_1C_2R_2 + C_1C_3R_2 + C_1C_4R_4 - C_1C_5R_2 + C_2C_3R_2 + C_3C_4R_4)\sqrt{\frac{1}{C_1C_2C_4R_2R_4 + C_1C_3C_4R_2R_4 - C_1C_4C_5R_2R_4 + C_2C_3C_4R_2R_4}}{C_1C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_1\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_1\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{R_4}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_4}\sqrt{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2\sqrt{C_1C_2 + C$

K-LP: $\frac{C_3C_5R_2}{C_1C_6+C_3C_6}$ K-HP: 0

K-BP: $\frac{C_3C_4C_5R_2R_4}{C_1C_2C_6R_2+C_1C_3C_6R_2+C_1C_4C_6R_2+C_1C_4C_6R_4-C_1C_5C_6R_2+C_2C_3C_6R_2+C_3C_4C_6R_4}$ Qz: None

Wz: None

9.243 X-INVALID-NUMER-243 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s+1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4$

Parameters:

Q: $\frac{\sqrt{C_5}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1R_2}+C_1R_4+C_3R_4}{\sqrt{C_1C_2}+C_1C_3}+C_1C_4+C_2C_3}{\sqrt{C_1R_2}+C_1R_4+C_1C_3R_2R_4+C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5}}$ wo: $\frac{\sqrt{C_1R_2}+C_1R_4+C_3R_4}{\sqrt{C_1C_2C_5R_2R_4R_5}+C_1C_3C_5R_2R_4+C_1C_4C_5R_2R_4+R_5+C_2C_3C_5R_2R_4R_5}}$ bandwidth: $\frac{C_1C_2R_2R_4+C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3C_5R_2R_4+C_1C_5R_4+C_1C$

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4+C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_2C_3R_2R_4+C_3C_5R_4R_5}{\text{Qz: None}}$ Qz: None

Wz: None

9.244 X-INVALID-NUMER-244 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6$

 $\overline{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + c_1C_4C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C$

Parameters:

 $O: \frac{C_1C_2\sqrt{C_6}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}+\frac{C_1R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}+\frac{C_1R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}+\frac{C_1R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}+\frac{C_1R_2R_5}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}+\frac{C_1R_2R_5}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}+\frac{C_1R_2R_5}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}+\frac{C_1R_2R_5}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}+\frac{C_1R_2R_5}{C_1C_2$

 $\overline{C_{1}C_{2}\sqrt{C_{6}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{1}R_{4}R_{5}}{C_{1}C_{4}+$ K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_2R_4R_5R_6}{C_1C_2R_2R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_5R_6 + C_1C_6R_4R_5R_6 + C_2C_3R_2R_4R_5 + C_3C_6R_4R_5R_6}$

Qz: None Wz: None

9.245 X-INVALID-NUMER-245
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_2R_3R_4 - C_1C_3C_5C_6R_2R_3R_4\right) + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_4$$

 $Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}}}{C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_2C_3R_2R_4} \\ \text{wo: } \sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4-C_1C_3C_5R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}(C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_2C_3R_2R_4)\sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4-C_1C_3C_5R_2R_3R_4}}}{\sqrt{C_1C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}}} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2-C_5}}} \\ \text{K-LP: } \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}} \\ \text{K-HP: } 0 \\ \text{K-BP: } \frac{C_3C_5R_2R_4}{C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_5R_2R_4+C_2C_3R_2R_4}}{C_1C_2R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_2C_3R_2R_4}} \\ \text{Wz: None} \\ \text{Wz: None}$

9.246 X-INVALID-NUMER-246 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_2C_3R_2R_3R_4R_5 - C_1C_3C_5R_2R_3R_4R_5\right) + s\left(C_1C_2R_2R_4R_5 - C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_$

Parameters:

 $Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_2-C_5}} + \frac{C_1R_2R_5}{C_2-C_5} + \frac{C_1R_4R_5}{C_2-C_5} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_2-C_5}} + \frac{C_1R_4R_5}{C_2-C_5} + \frac{C_3R_4R_5}{C_2-C_5}}{C_1C_2R_2R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_3R_4R_5-C_1C_5R_2R_4R_5+C_2C_3R_2R_4R_5}\\ \text{wo: } \sqrt{\frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_2C_3R_2R_3R_4R_5-C_1C_3C_5R_2R_3R_4R_5}}(C_1C_2R_2R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C$

9.247 X-INVALID-NUMER-247 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_6s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3\right) + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2\right)}$

Parameters:

 $Q \colon \frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1C_2R_2+C_1C_3R_2+C_1C_3R_3+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}\\ \text{wo: } \sqrt{C_1+C_3}\sqrt{\frac{1}{C_1C_2C_3R_2R_3+C_1C_3C_4R_2R_3-C_1C_3C_5R_2R_3}}\\ \text{bandwidth: } \frac{\sqrt{C_1+C_3}(C_1C_2R_2+C_1C_3R_2+C_1C_3R_3+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2)\sqrt{\frac{1}{C_1C_2C_3R_2R_3+C_1C_3C_5R_2R_3}}}{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2+C_4-C_5}}}}\\ \text{K-LP: } \frac{C_3C_5R_2}{C_1C_6+C_3C_6}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_3C_5R_2R_6}{C_1C_2R_2+C_1C_3R_3+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}\\ \text{Qz: None}\\ \text{Wz: None}$

```
9.248 X-INVALID-NUMER-248 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
```

 $H(s) = \frac{C_3C_5R_2R_5R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_3R_2R_3R_5 + C_1C_3C_4R_2R_3R_5 - C_1C_3C_5R_2R_3R_5\right) + s\left(C_1C_2R_2R_5 - C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_3R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5 + C_2C_3R_2R_5\right)}{s^2}$

Parameters:

 $Q: \frac{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}\sqrt{-\frac{C_1R_2}{C_2+C_4-C_5}} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_3R_5}{C_2+C_4-C_5}}{C_1C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5}}{C_1C_2R_2R_5-C_1C_3R_2R_3+C_1C_3R_2R_5+C_1C_3R_2R_5+C_1C_3R_2R_5+C_1C_3R_2R_5} - \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_2+C_4-C_5}}} + \frac{C_1R_5}{C_2+C_4-C_5}} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5}} - \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_2+C_4-C_5}}} + \frac{C_1R_5}{C_2+C_4-C_5}} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_2R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac{C_1R_5}{C_2+C_4-C_5}} + \frac{C_1R_5}{C_2+C_4-C_5} + \frac$

9.249 X-INVALID-NUMER-249 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 - C_1C_3C_5C_6R_2R_3R_4) + s\left(C_1C_2C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 +$

Parameters:

Q: $\frac{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}} - \sqrt{C_1\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}} } }{C_1C_2R_2R_4+C_1C_3R_2R_3+C_1C_3R_2R_4} + C_1C_3R_3R_4+C_1C_3R_2R_4+C_2C_3R_2R_4}} \\ \text{wo: } \sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4+C_1C_3C_5R_2R_4}} + C_1C_3C_5R_2R_4} + C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_2C_3R_2R_4} \\ \text{bandwidth: } \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4+C_1C_3C_5R_2R_3R_4}}} {\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}} - \sqrt{C_1\sqrt{C_3}C_5R_2R_3R_4} - C_1C_5R_2R_4 + C_1C_3R_2R_4 + C_1C_3R_2R_4 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4+C_1C_3C_3R_2R_4+C_1C_3R_2R_4+C_1C_3R_2R_4+C_1C_3R_2R_4+C_1C_3R_2R_4+C_1C_3R_2R_4+C_1C_3R_2R_4+C_1C_3R_2R_4+C_1C_3R_2R_4 + C_1C_3R_2R_4 + C_$

9.250 X-INVALID-NUMER-250 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_2C_3R_2R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 - C_1C_3C_5R_2R_3R_4R_5 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_3R_2R_4R_5 + C$

Parameters:

 $Q: \frac{\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_2+C_4-C_5} + \frac{C_1R_2R_5}{C_2+C_4-C_5} + \frac{C_1R_4R_5}{C_2+C_4-C_5} + \frac{C_3R_4R_5}{C_2+C_4-C_5} + \frac{C_1R_2R_5}{C_2+C_4-C_5} + \frac{C_1R_2R$

9.251 X-INVALID-NUMER-251
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_3R_2R_3R_4R_6s + R_2R_4R_6}{R_4R_5 + s^2\left(C_1C_2R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_2C_3R_2R_3R_4R_5\right) + s\left(-C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5 + C_3R_3R_4R_5\right)}$$

 $\begin{array}{l} \text{Q:} - \frac{\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{C_1C_2+C_1C_3+C_2C_3}}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5-C_3R_3R_4R_5}\\ \text{wo:} \ \frac{1}{\sqrt{C_1C_2R_2R_3+C_1C_3R_2R_3+C_2C_3R_2R_3}}\\ \text{bandwidth:} \ - \frac{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5-C_3R_3R_4R_5}{\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2R_2R_3+C_1C_3R_2R_3+C_2C_3R_2R_3}}\\ \text{K-LP:} \ \frac{R_2R_6}{R_5}\\ \text{K-HP:} \ 0 \end{array}$

K-BP: $-\frac{C_3R_2R_3R_4R_6}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5-C_3R_3R_4R_5}$

Qz: None Wz: None

9.252 X-INVALID-NUMER-252 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^2\left(C_1C_2R_2R_3R_4 + C_1C_3R_2R_3R_4 - C_1C_5R_2R_3R_4 + C_2C_3R_2R_3R_4\right) + s\left(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_3R_3R_4\right)}$$

Parameters:

 $\begin{array}{c} Q: \frac{C_{1}C_{2}\sqrt{R_{3}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{2}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} - C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} \\ wo: \sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{3}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}+C_{2}C_{3}R_{2}R_{3}}}{(C_{1}R_{2}R_{3}+C_{1}C_{3}R_{2}R_{3}+C_{2}C_{3}R_{2}R_{3}}}} \\ bandwidth: \frac{(C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{3}R_{4})\sqrt{\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{3}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}+C_{2}C_{3}R_{2}R_{3}}}}{C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} - C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} \\ K-P: 0 \\ K-HP: \frac{C_{3}C_{5}R_{6}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{5}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{3}R_{4}}} \\ Qz: None \\ Wz: None \\ \end{array}$

9.253 X-INVALID-NUMER-253 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_4s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_2C_6R_2R_4 + C_3C_6R_3R_4\right)}$$

Parameters:

$$Q: \frac{ c_1 c_2 \sqrt{R_3} \sqrt{R_3} R_4 \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} { C_1 R_2 \sqrt{R_3} R_4 \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} } - C_1 C_5 \sqrt{R_2} \sqrt{R_3} R_4 \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} } { C_1 R_2 R_3 + C_1 R_3 R_4 + C_2 R_2 R_4 + C_3 R_3 R_4}$$

$$wo: \sqrt{\frac{1}{C_1 C_2 R_2 R_3 + C_1 C_3 R_2 R_3 - C_1 C_5 R_2 R_3 + C_2 C_3 R_2 R_3}} { C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_2 R_2 R_4 + C_3 R_3 R_4} \sqrt{\frac{1}{C_1 C_2 R_2 R_3 + C_1 C_3 R_2 R_3 - C_1 C_5 R_2 R_3 + C_2 C_3 R_2 R_3}} }$$

$$bandwidth: \frac{(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_2 R_2 R_4 + C_3 R_3 R_4) \sqrt{\frac{1}{C_1 C_2 R_2 R_3 + C_1 C_3 R_2 R_3 - C_1 C_5 R_2 R_3 + C_2 C_3 R_2 R_3}}} { C_1 C_2 \sqrt{R_2} \sqrt{R_3} R_4 \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} } - C_1 C_5 \sqrt{R_2} \sqrt{R_3} R_4 \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} } }$$

$$K-LP: \frac{C_5 R_2}{C_6} K-HP: 0$$

$$K-BP: \frac{C_3 C_5 R_2 R_3 R_4}{C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4 + C_2 C_6 R_2 R_4 + C_3 C_6 R_3 R_4}} { Qz: None}$$

$$Wz: None$$

9.254 X-INVALID-NUMER-254 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3R_2R_3R_6s + R_2R_6}{R_5 + s^2\left(C_1C_2R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5 + C_2C_3R_2R_3R_5\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_2R_2R_5 + C_3R_3R_5\right)}$$

```
 \text{Wo: } \frac{1}{\sqrt{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_4R_2R_3 + C_2C_3R_2R_3}} \\ \text{bandwidth: } -\frac{C_1R_2R_3 + C_1R_2R_5 - C_1R_3R_5 - C_2R_2R_5 - C_3R_3R_5}{\sqrt{R_2}\sqrt{R_3}R_5\sqrt{C_1C_2 + C_1C_3 + C_1C_4 + C_2C_3}\sqrt{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_3R_3R_3 + C_1C_3
             K-HP: 0
             K-BP: -\frac{C_3R_2R_3R_6}{C_1R_2R_3 - C_1R_2R_5 - C_1R_3R_5 - C_2R_2R_5 - C_3R_3R_5}
                Qz: None
              Wz: None
9.255 X-INVALID-NUMER-255 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                      H(s) = \frac{C_3C_5R_2R_3R_6s^2 + C_5R_2R_6s}{s^2\left(C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3 + C_2C_3R_2R_3\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2 + C_3R_3\right) + 1}
     Parameters:
              Q: \underbrace{\frac{C_1C_2\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{C_1R_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}_{C_1R_2+C_1R_3+C_1C_4-C_1C_5+C_2C_3} + C_1C_3\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_1C_3\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_1C_3+C_1C_5+C_1C_5+C_1C_5}}} + C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1
              WO: \sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3+C_2C_3R_2R_3}}
              \text{bandwidth: } \frac{(C_1R_2 + C_1R_3 + C_2R_2 + C_3R_3)\sqrt{\frac{1}{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_5R_2R_3 + C_2C_3R_2R_3}}{C_1C_2\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_5 + C_2C_3}} + C_1C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}} + C_1C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}}} + C_2C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_4 + C_1C_5 + C_2C_3}}}}}}}}}}
              K-LP: 0
            \begin{array}{l} \text{K-HP: } \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP: } \frac{C_5R_2R_6}{C_1R_2+C_1R_3+C_2R_2+C_3R_3} \\ \text{Qz: None} \end{array} 
              Wz: None
9.256 X-INVALID-NUMER-256 Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{R_3}{C_3 R_3 s + 1}, & \frac{1}{C_4 s}, & \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}
                                                                                                                                                                                                                                                H(s) = \frac{C_3C_5R_2R_3s + C_5R_2}{C_6 + s^2\left(C_1C_2C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3 + C_2C_3C_6R_2R_3\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2 + C_3C_6R_3\right)}
       Parameters:
                          \underbrace{\frac{C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+C_{1}C_{3}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}}
             wo: \sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3+C_2C_3R_2R_3}}
                                                                                                                                                                                                                                                                                                                                                        (C_1R_2 + C_1R_3 + C_2R_2 + C_3R_3)\sqrt{\frac{1}{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3 + C_2C_3R_2R_3}}
             K-LP: \frac{C_5 R_2}{C_6}
             K-HP: 0
            K-BP: \frac{C_3C_5R_2R_3}{C_1C_6R_2+C_1C_6R_3+C_2C_6R_2+C_3C_6R_3} Qz: None
             Wz: None
9.257 X-INVALID-NUMER-257 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)
                                                                                                                                                            H(s) = \frac{C_3R_2R_3R_4R_6s + R_2R_4R_6}{R_4R_5 + s^2\left(C_1C_2R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_2C_3R_2R_3R_4R_5\right) + s\left(-C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5 + C_3R_3R_4R_5\right)}
     Parameters:
             K-LP: \frac{R_2R_6}{R_5}
             K-HP: 0
             K-BP: -\frac{C_3R_2R_3R_4R_6}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5-C_3R_3R_4R_5}
```

Qz: None Wz: None

9.258 X-INVALID-NUMER-258
$$Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{R_3}{C_3 R_3 s + 1}, & \frac{R_4}{C_4 R_4 s + 1}, & \frac{1}{C_5 s}, & R_6 \end{pmatrix}$$

$$H(s) = \frac{C_3C_5R_2R_3R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^2\left(C_1C_2R_2R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_4R_2R_3R_4 - C_1C_5R_2R_3R_4 + C_2C_3R_2R_3R_4\right) + s\left(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_3R_3R_4\right)}$$

Parameters:

 $+ \frac{C_1C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt$

 $/\frac{1}{C_{1}C_{2}R_{2}R_{3}+C_{1}C_{3}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}+C_{2}C_{3}R_{2}R_{3}}$

 $(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_3R_3R_4)\sqrt{\frac{1}{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3 + C_2C_3R_2R_3}{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_3R_3R_3 + C_1C_3R_3 + C_1C_3R_3 + C_1C_3R_3 + C_1C_3R_3 + C_1C_3R_3 +$

 $\frac{1}{C_{1}C_{2}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{5}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C$

K-LP: 0

 $\begin{array}{l} \text{K-HP: } \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP: } \frac{C_5R_2R_4R_6}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4+C_3R_3R_4} \\ \text{Qz: None} \end{array}$

Wz: None

9.259 X-INVALID-NUMER-259 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_2C_6R_2R_4 + C_3C_6R_3R_4\right)}$

Parameters:

 $Q: \underbrace{\frac{C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{3}R_{4}}} + C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{3}R_{4}}} + C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{3}R_{4}}} + C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{3}R_{4}}} + C_{2}C_{3}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_$

Wo: $\sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3+C_2C_3R_2R_3}}$

 $\frac{(C_1R_2R_3 + C_1R_3R_4 + C_2R_2R_4 + C_3R_3R_4)\sqrt{\frac{1}{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_2C_3R_2R_3}}{C_1C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_3$

K-LP: $\frac{C_5 R_2}{C_6}$

K-HP: 0

K-BP: $\frac{C_3C_5R_2R_3R_4}{C_1C_6R_2R_3+C_1C_6R_2R_4+C_1C_6R_3R_4+C_2C_6R_2R_4+C_3C_6R_3R_4}$ Qz: None

Wz: None

9.260 X-INVALID-NUMER-260 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1 R_1 R_2 R_4 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^2 \left(C_1 C_6 R_1 R_4 R_5 R_6 - C_1 C_6 R_2 R_3 R_4 R_6 + C_1 C_6 R_2 R_3 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 R_6 + C_1 C_6 R_3 R_4 R_5 R_6\right) + s \left(C_1 R_1 R_4 R_5 - C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 + C_6 R_4 R_5 R_6\right)}$

Parameters:

 $Q: \frac{\sqrt{C_{1}}\sqrt{C_{6}}R_{1}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{6}}R_{2}R_{3}R_{4}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{2}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{\frac{3}{2}}R_{5}^{\frac{3}{2}}\sqrt{R_{6}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{6}}R_{3}R_{4}^{$

wo: $\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{1}{C_1C_6R_1R_4R_5R_6-C_1C_6R_2R_3R_4R_6+C_1C_6R_2R_3R_5R_6+C_1C_6R_2R_4R_5R_6+C_1C_6R_3R_4R_5R_6}}$

 $\sqrt{R_4}\sqrt{R_5}(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_6R_4R_5R_6)\sqrt{\frac{1}{C_1C_6R_1R_4R_5R_6 - C_1C_6R_2R_3R_4R_6 + C_1C_6R_2R_3R_5R_6 + C_1C_6R_2R_4R_5R_6 + C_1C_6R_3R_4R_5R_6}}$ $\frac{1}{\sqrt{C_1}\sqrt{C_6}R_1R_4^{\frac{3}{2}}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_6}R_2R_3R_4^{\frac{3}{2}}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_6}R_2R_3\sqrt{R_4}R_5^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_6}R_2R_3R_4^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_6}R_2R_3R_4^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_6}R_2R_3R_4^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_6}R_2R_3R_4^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_6}R_2R_3R_4^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_6}R_3R_3R_4^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_6}R_3R_3R_4^{\frac{3}{2}}\sqrt{R_6}\sqrt{\frac{1}{R_1R_4R_5$

K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0

K-BP: $\frac{C_1R_1R_2R_4R_6}{C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_6R_4R_5R_6}$

Qz: None Wz: None

9.261 X-INVALID-NUMER-261 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{-C_1C_5R_2R_3R_4s^2 + R_4 + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4\right)}$$

Parameters:

Q: $-\frac{i\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}R_4}{\sqrt{C_1}R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}$

wo: $\frac{\sqrt{C_1\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}}{\sqrt{C_1\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}}$ bandwidth: $-\frac{\sqrt{C_1R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}}{\sqrt{C_1C_5R_2R_3R_4}}$

K-LP: 0

K-HP: $-\frac{R_1R_6}{R_2}$

K-BP: $\frac{C_5R_2R_4R_6}{C_1R_1R_4+C_1R_2R_3+C_1R_2R_4+C_1R_3R_4}$ Qz: None

Wz: None

9.262 X-INVALID-NUMER-262 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 C_5 R_1 R_2 R_4 s + C_5 R_2 R_4}{-C_1 C_5 C_6 R_2 R_3 R_4 s^2 + C_6 R_4 + s \left(C_1 C_6 R_1 R_4 + C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4\right)}$$

Parameters:

Q: $-\frac{i\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}R_4}{\sqrt{C_1}R_1R_4 + \sqrt{C_1}R_2R_3 + \sqrt{C_1}R_2R_4 + \sqrt{C_1}R_3R_4}$

wo: $\frac{i}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{\sqrt{C_1}R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}{\sqrt{C_1}C_5R_2R_3R_4}$

K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0

K-BP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$

Qz: None Wz: None

9.263 X-INVALID-NUMER-263 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^2\left(C_1C_5R_1R_4R_5 - C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_5 + C_1C_5R_2R_4R_5 + C_1C_5R_3R_4R_5\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_5R_4R_5\right)}$$

Parameters:

 $Q: \frac{\sqrt{C_1}\sqrt{C_5}R_1R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_5}R_2R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_2R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_5}R_2R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}}}} + \sqrt{C_1}\sqrt{C_5}R_3R_4^$

wo: $\sqrt{R_4}\sqrt{\frac{1}{C_1C_5R_1R_4R_5-C_1C_5R_2R_3R_4+C_1C_5R_2R_3R_5+C_1C_5R_2R_4R_5+C_1C_5R_3R_4R_5}}$

 $\frac{\sqrt{R_4}(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_5R_4R_5)\sqrt{\frac{1}{C_1C_5R_1R_4R_5 - C_1C_5R_2R_3R_4 + C_1C_5R_2R_4R_5 + C_1C_5R_2R_4R_5 + C_1C_5R_2R_4R_5 + C_1C_5R_2R_4R_5 + C_1C_5R_3R_4R_5}{\sqrt{C_1}\sqrt{C_5}R_1R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_2R_3\frac{3}{R_4}R_5\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_2R_3\frac{3}{R_4}R_5\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{3}{R_5}R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{3}{R_5}R_5R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{3}{R_5}R_5R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{3}{R_5}R_5R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5 + R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5} + \sqrt{C_1}\sqrt{C_5}R_3R_4R_5$

 $\begin{array}{l} \text{K-HP:} \ \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP:} \ \frac{C_5R_2R_4R_6}{C_1R_1R_4+C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_5R_4R_5} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: None

9.264 X-INVALID-NUMER-264 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_5C_6R_1R_4R_5 - C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_5 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_3R_4R_5\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_5C_6R_4R_5\right)}$$

Parameters:

 $Q: \frac{\sqrt{C_{1}}\sqrt{C_{5}}R_{1}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}^{\frac{3}{2}}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{2}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{5}R_{3}R_{4}R_{5}}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{5}R_{3}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}\sqrt{\frac{1}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{5}R_{4}R_{5}}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}R_{4}^{\frac{3}{2}}R_{5}} + \sqrt{C_{1}}\sqrt{C_{5}}R_{3}^{\frac{3}{2}}R_{5}} + \sqrt{C_{1}}\sqrt$

wo:
$$\sqrt{R_4}\sqrt{\frac{1}{C_1C_5R_1R_4R_5-C_1C_5R_2R_3R_4+C_1C_5R_2R_3R_5+C_1C_5R_2R_4R_5+C_1C_5R_3R_4R_5}}$$

 $\sqrt{R_4}(C_1R_1R_4 + C_1R_2R_3 + C_1R_2\underbrace{R_4 + C_1R_3R_4 + C_5R_4R_5})\sqrt{\underbrace{C_1C_5R_1R_4R_5 - C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_5 + C_1C_5R_2R_4R_5 + C_1C_5R_3R_4R_5}_{2}$ $\frac{1}{\sqrt{C_1}\sqrt{C_5}R_1R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_2R_3R_4^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_2R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_2R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_3R_4R_5}}}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_3R_4R_5}}}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}}}}}+\sqrt{C_1}\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5}}}}}$

K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0

K-BP: $\frac{C_1C_5R_1R_2R_4}{C_1C_6R_1R_4+C_1C_6R_2R_3+C_1C_6R_2R_4+C_1C_6R_3R_4+C_5C_6R_4R_5}$ Qz: None

Wz: None

9.265 X-INVALID-NUMER-265 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1 R_1 R_2 R_6 s + R_2 R_6}{C_1 C_4 R_2 R_3 R_5 s^2 + R_5 + s \left(C_1 R_1 R_5 - C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 \right)}$$

Parameters:

Q: $\frac{\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}R_5}{\sqrt{C_1}R_1R_5 - \sqrt{C_1}R_2R_3 + \sqrt{C_1}R_2R_5 + \sqrt{C_1}R_3R_5}$

wo: $\frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $\frac{\sqrt{C_1}R_1R_5 - \sqrt{C_1}R_2R_3 + \sqrt{C_1}R_2R_5 + \sqrt{C_1}R_3R_5}{\sqrt{C_1}C_4R_2R_3R_5}$

K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0

K-BP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ Qz: None

Wz: None

9.266 X-INVALID-NUMER-266 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1 C_5 R_1 R_2 R_6 s^2 + C_5 R_2 R_6 s}{s^2 (C_1 C_4 R_2 R_3 - C_1 C_5 R_2 R_3) + s (C_1 R_1 + C_1 R_2 + C_1 R_3) + 1}$$

Parameters:

Q: $\frac{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_1+\sqrt{C_1}R_2+\sqrt{C_1}R_3}$

wo: $\sqrt{\frac{1}{C_1C_4R_2R_3 - C_1C_5R_2R_3}}$ bandwidth: $\frac{\left(\sqrt{C_1}R_1 + \sqrt{C_1}R_2 + \sqrt{C_1}R_3\right)\sqrt{\frac{1}{C_1C_4R_2R_3 - C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4 - C_5}} - C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4 - C_5}}}$

K-LP: 0 K-HP: $\frac{C_5R_1R_6}{C_4R_3-C_5R_3}$ K-BP: $\frac{C_5R_2R_6}{C_1R_1+C_1R_2+C_1R_3}$ Qz: None

Wz: None

9.267 X-INVALID-NUMER-267 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_2s + C_5R_2}{C_6 + s^2\left(C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3\right)}$$

Parameters:

Q: $\frac{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_1+\sqrt{C_1}R_2+\sqrt{C_1}R_3}$ wo: $\sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}$ bandwidth: $\frac{\left(\sqrt{C_1}R_1+\sqrt{C_1}R_2+\sqrt{C_1}R_3\right)\sqrt{\frac{1}{C_1C_4R_2R_3}-C_1C_5R_2R_3}}{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}$

K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0

K-BP: $\frac{C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3}$

Qz: None Wz: None

9.268 X-INVALID-NUMER-268 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{C_1R_1R_2R_4R_6s + R_2R_4R_6}{C_1C_4R_2R_3R_4R_5s^2 + R_4R_5 + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5\right)}$$

Parameters:

9.269 X-INVALID-NUMER-269 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^2\left(C_1C_4R_2R_3R_4 - C_1C_5R_2R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4\right)}$$

Parameters:

Wz: None

 $\begin{array}{l} Q\colon \frac{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}\\ \text{wo: } \sqrt{\frac{1}{C_1C_4R_2}R_3-C_1C_5R_2R_3}\\ \text{bandwidth: } \frac{\left(\sqrt{C_1}R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4\right)\sqrt{\frac{1}{C_1C_4R_2}R_3-C_1C_5R_2R_3}}{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_3-C_5R_3}\\ \text{K-BP: } \frac{C_5R_2R_4R_6}{C_1R_1R_4+C_1R_2R_3+C_1R_2R_4+C_1R_3R_4}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$

9.270 X-INVALID-NUMER-270 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4\right)}$$

Parameters:

 $\begin{array}{l} Q\colon \frac{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}\\ \text{wo: } \sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}\\ \text{bandwidth: } \frac{\left(\sqrt{C_1}R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4\right)\sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_2}{C_6}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$

9.271 X-INVALID-NUMER-271 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_3C_6R_1R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_5R_6 + C_1C_6R_4R_5R_6 + C_3C_6R_4R_5R_6\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_2}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_3R_1R_4R_5+C_1C_3R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_4R_5R_6}$ wo: $\frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1C_3C_6R_1R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6}}$ bandwidth: $\frac{C_1C_3R_1R_4R_5R_6+C_1C_3C_6R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_4R_5R_6}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_2}\sqrt{C_1C_3C_6R_1R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6}}$ bandwidth: $\frac{C_3R_2R_4R_6}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{R_1+R_2}\sqrt{C_1C_3C_6R_1R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6}}{\sqrt{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}}$ K-HP: 0

 $\text{K-BP: } \frac{C_1C_3R_1R_2R_4R_6}{C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_5R_6 + C_1C_6R_4R_5R_6 + C_3C_6R_4R_5R_6}$

Qz: None Wz: None

9.272 X-INVALID-NUMER-272 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_6R_1R_4R_6 + C_1C_3C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_3C_6R_4R_6\right)}$$

Parameters:

 $\frac{\sqrt{C_{1}}C_{3}\sqrt{C_{6}}R_{1}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}+\sqrt{C_{1}}C_{3}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}-\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}-\frac{1}{C_{1}C_{3}R_{1}+C_{3}R_{2}+C_{1}C_{5}R_{2}+C_{1}$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_3C_6R_1R_4R_6 + C_1C_3C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6}}$

 $\text{bandwidth: } \frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4}(C_1C_3R_1R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_6R_4R_6 + C_3C_6R_4R_6)\sqrt{\frac{1}{C_1C_3C_6R_1R_4R_6 + C_1C_5C_6R_2R_4R_6}}}{\sqrt{C_1C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} + \sqrt{C_1C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_4 - C_1C_5\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_4 + C_3C_4}\sqrt{C_3R_4 + C_3C_6}}}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_4 + C_3C_6}\sqrt{C_1R_4 + C_3C_6}}}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{C_1R_4 + C_3C_6}\sqrt{C_1R_4 + C$

K-LP: 0

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}$

K-BP: $\frac{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}{C_1C_3R_1R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_6R_2R_6+C_1C_6R_4R_6+C_3C_6R_4R_6}{Qz. \text{ None}}$

Wz: None

9.273 X-INVALID-NUMER-273 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_5R_1R_4R_5 + C_1C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_3C_5R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{1}+R_{2}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}}{C_{1}C_{3}R_{1}R_{4}+C_{1}C_{3}R_{2}R_{4}-C_{1}C_{5}R_{2}R_{4}+C_{1}C_{5}R_{2}R_{5}+C_{1}C_{5}R_{4}R_{5}+C_{3}C_{5}R_{4}R_{5}}$ wo: $\frac{\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}}{\sqrt{C_{1}C_{3}C_{5}R_{1}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{4}R_{5}}}$ bandwidth: $\frac{C_{1}C_{3}R_{1}R_{4}+C_{1}C_{3}R_{2}R_{4}-C_{1}C_{5}R_{2}R_{4}+C_{1}C_{5}R_{2}R_{5}+C_{1}C_{5}R_{4}R_{5}+C_{3}C_{5}R_{4}R_{5}}{\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{C_{5}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{1}+R_{2}}\sqrt{C_{1}C_{3}C_{5}R_{1}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{4}R_{5}}}$

K-LP: 0

K-HP: $\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_1R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}{\text{Qz: None}}$

Wz: None

9.274 X-INVALID-NUMER-274 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_2R_4R_5\right) + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_4R_5 + C_3C_5C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{C_1C_3R_1R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}$

wo: $\frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4}}{\sqrt{C_1C_3C_5R_1R_4R_5 + C_1C_3C_5R_2R_4R_5}}$ bandwidth: $\frac{C_1C_3R_1R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_3C_5R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1 + R_2}\sqrt{C_1C_3C_5R_1R_4R_5 + C_1C_3C_5R_2R_4R_5}}$ K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4}$ K-PP: 0

K-BP: $\frac{C_1C_3C_5R_1R_2R_4}{C_1C_3C_6R_1R_4+C_1C_3C_6R_2R_4-C_1C_5C_6R_2R_4+C_1C_5C_6R_2R_5+C_1C_5C_6R_4R_5+C_3C_5C_6R_4R_5}$ Qz: None

Wz: None

9.275 X-INVALID-NUMER-275 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_3R_1R_2R_6s + C_3R_2R_6$ $H(s) = \frac{-1.53R_1R_2R_0s + 5.3R_2R_0}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_6R_1R_5R_6 + C_1C_3C_6R_2R_5R_6 + C_1C_4C_6R_2R_5R_6\right) + s\left(C_1C_3R_1R_5 + C_1C_3R_2R_5 + C_1C_4R_2R_5 - C_1C_6R_2R_6 + C_1C_6R_5R_6 + C_3C_6R_5R_6\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{-C_1R_2+C_1R_5+C_3R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_1C_3R_1R_5+C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_3C_6R_5R_6}}$ wo: $\frac{\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{\sqrt{C_1C_3C_6R_1R_5R_6+C_1C_3C_6R_2R_5R_6}+C_1C_4C_6R_2R_5R_6}}$ bandwidth: $\frac{C_1C_3R_1R_5+C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_3C_6R_5R_6}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_1C_3C_6R_1R_5R_6+C_1C_3C_6R_2R_5R_6}+C_1C_4C_6R_2R_5R_6}}$ K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$ K-HP: 0

K-BP: $\frac{C_1C_3R_1R_2R_6}{C_1C_3R_1R_5+C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_3C_6R_5R_6}$ Qz: None

Wz: None

9.276 X-INVALID-NUMER-276 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_3C_6R_1R_6 + C_1C_3C_6R_2R_6 + C_1C_4C_6R_2R_6 - C_1C_5C_6R_2R_6\right) + s\left(C_1C_3R_1 + C_1C_3R_2 + C_1C_4R_2 - C_1C_5R_2 + C_1C_6R_6 + C_3C_6R_6\right)}$

Parameters:

 $Q: \frac{\sqrt{C_{1}}C_{3}\sqrt{C_{6}}R_{1}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}+\sqrt{C_{1}}C_{3}\sqrt{C_{6}}R_{2}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}+\sqrt{C_{1}}C_{4}\sqrt{C_{6}}R_{2}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{6}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{1}}$

wo: $\sqrt{C_1 + C_3} \sqrt{\frac{1}{C_1 C_3 C_6 R_1 R_6 + C_1 C_3 C_6 R_2 R_6 + C_1 C_4 C_6 R_2 R_6 - C_1 C_5 C_6 R_2 R_6}}$

 $\text{bandwidth: } \frac{\sqrt{C_1 + C_3} (C_1 C_3 R_1 + C_1 C_3 R_2 + C_1 C_4 R_2 - C_1 C_5 R_2 + C_1 C_6 R_6 + C_3 C_6 R_6) \sqrt{\frac{1}{C_1 C_3 C_6 R_1 R_6 + C_1 C_3 C_6 R_2 R_6 + C_1 C_4 C_6 R_2 R_6 - C_1 C_5 C_6 R_2 R_6}}{\sqrt{C_1 C_3} \sqrt{C_6 R_1 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_3} \sqrt{C_6 R_2 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_4 \sqrt{C_6} R_2 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} - \sqrt{C_1 C_5 \sqrt{C_6} R_2 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} - \sqrt{C_1 C_5 \sqrt{C_6} R_2 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_3 \sqrt{C_6} R_1 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} - \sqrt{C_1 C_5 \sqrt{C_6} R_2 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_3 \sqrt{C_6} R_1 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} - \sqrt{C_1 C_5 \sqrt{C_6} R_2 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_3 \sqrt{C_6} R_1 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} - \sqrt{C_1 C_5 \sqrt{C_6} R_2 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_3 \sqrt{C_6} R_1 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} - \sqrt{C_1 C_5 \sqrt{C_6} R_2 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_3 \sqrt{C_6} R_1 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_3 \sqrt{C_6} R_1 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_1 C_3 \sqrt{C_6} R_1 \sqrt{R_6} \sqrt{C_1 + C_3} \sqrt{C_6} R_1 \sqrt{C_1 + C_3} \sqrt{C_6} R_1 \sqrt{C_1 + C_3} \sqrt{C_1 +$

K-LP: 0

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ K-BP: $\frac{C_3C_5R_2R_6}{C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_6R_6+C_3C_6R_6}$ Qz: None Wz: None

9.277 X-INVALID-NUMER-277 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_3C_5R_1R_5 + C_1C_3C_5R_2R_5 + C_1C_4C_5R_2R_5\right) + s\left(C_1C_3R_1 + C_1C_3R_2 + C_1C_4R_2 - C_1C_5R_2 + C_1C_5R_5 + C_3C_5R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_5}\sqrt{C_1+C_3}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_1C_3R_1+C_1C_3R_2+C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}$ wo: $\frac{\sqrt{C_1+C_3}}{\sqrt{C_1C_3C_5R_1R_5+C_1C_3C_5R_2R_5+C_1C_4C_5R_2R_5}}$ bandwidth: $\frac{C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_1C_3C_5R_1R_5+C_1C_4C_5R_2R_5}}$ KID: 0

K-HP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ K-BP: $\frac{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}{C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}$ Qz: None

Wz: None

9.278 X-INVALID-NUMER-278
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_2s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_5C_6R_1R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5\right) + s\left(C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_1C_5C_6R_5 + C_3C_5C_6R_5\right)}$$

wo: $\frac{\sqrt{C_1+C_3}}{\sqrt{C_1C_3C_5}R_1R_5+C_1C_3C_5R_2R_5} + C_1C_5R_5 + C_3C_5\overline{R_5}}{\sqrt{C_1C_3C_5}R_1R_5+C_1C_3C_5R_2R_5+C_1C_4C_5R_2R_5}}$ bandwidth: $\frac{C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_1C_5R_5+C_3C_5R_5}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_1C_3C_5R_1R_5+C_1C_3C_5R_2R_5+C_1C_4C_5R_2R_5}}$ K-LP: $\frac{C_3C_5R_2}{C_1C_6+C_3C_6}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1R_2}{C_1C_3C_6R_1+C_1C_3C_6R_2+C_1C_4C_6R_2-C_1C_5C_6R_2+C_1C_5C_6R_5+C_3C_5C_6R_5}$ Qz: None

Wz: None

9.279 X-INVALID-NUMER-279 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6$ $H(s) = \frac{-1.53 - 1.22 - 1.33 - 1.23$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_6}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_3R_1R_4R_5+C_1C_3R_2R_4R_5+C_1C_4R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_4R_5R_6}$ wo: $\frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1C_3C_6R_1R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_4R_2R_4R_5R_6}}$ bandwidth: $\frac{C_1C_3R_1R_4R_5+C_1C_3R_2R_4R_5+C_1C_4R_2R_4R_5-C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_2R_4R_5+C_1C_6R_2R_4R_6+C_1C_6R_2R_5R_6+C_1C_6R_4R_5R_6+C_3C_6R_2R_4R_5+C_1C_6R_2R_4R_6+C_1C_6R_2R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_5R_6+C_1C_6R_4R_$

 $\text{K-BP: } \frac{C_1C_3R_1R_2R_4R_6}{C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_5R_6 + C_1C_6R_4R_5R_6 + C_3C_6R_4R_5R_6}$

Qz: None Wz: None

9.280 X-INVALID-NUMER-280 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_6R_1R_4R_6 + C_1C_3C_6R_2R_4R_6 + C_1C_5C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_4 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_3C_6R_4R_6\right)}$

Parameters:

 $\frac{\sqrt{C_{1}}C_{3}\sqrt{C_{6}}R_{1}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}+\sqrt{C_{1}}C_{3}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}+\sqrt{C_{1}}C_{4}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{3}R_{4}+C_{1}C_{5}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}-C_{1}C_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}-C_{1}C_{1}C_{2}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{$

 $\frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_2}(C_1C_3R_1R_4 + C_1C_3R_2R_4 + C_1C_6R_2R_6 + C_1C_6R_4R_6 + C_3C_6R_4R_6)\sqrt{\frac{1}{C_1C_3C_6R_1R_4R_6 + C_1C_5C_6R_2R_4R_6}}}{\sqrt{C_1C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_1C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1C_5\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_3R_4 + C_1C_3R_4 + C_$

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_1R_4+C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_6R_2R_6+C_1C_6R_4R_6+C_3C_6R_4R_6}$ Qz: None

Wz: None

9.281 X-INVALID-NUMER-281 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_5R_1R_4R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_4C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_3C_5R_4R_5\right)}$$

Parameters:

```
K-BP: \frac{C_3 C_1 R_2 R_5 + C_4 R_2 R_5}{C_1 C_3 R_1 R_4 + C_1 C_3 R_2 R_4 + C_1 C_4 R_2 R_4 - C_1 C_5 R_2 R_4 + C_1 C_5 R_2 R_5 + C_1 C_5 R_4 R_5 + C_3 C_5 R_4 R_5}Qz: None
              Wz: None
9.282 X-INVALID-NUMER-282 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4
                                                                 H(s) = \frac{1}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_
     Parameters:
       Q: \frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_1C_3R_1R_4+C_1C_3R_2R_4+C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5} wo: \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_3C_5R_1R_4R_5+C_1C_3C_5R_2R_4R_5+C_1C_4C_5R_2R_4R_5}} bandwidth: \frac{C_1C_3R_1R_4+C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}{C_1C_5\sqrt{C_1}\sqrt{C_5}\sqrt{C_4}\sqrt{C_5}\sqrt{C_3}R_4+C_3C_3R_4+C_4R_2\sqrt{C_1}C_3C_5R_1R_4R_5+C_1C_3C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5+C_1C_3C_5R_2R_4R_5} K-LP: \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4} K-HP: 0
             K-BP: \frac{C_1C_3C_5R_1R_2R_4}{C_1C_3C_6R_1R_4+C_1C_3C_6R_2R_4+C_1C_4C_6R_2R_4-C_1C_5C_6R_2R_4+C_1C_5C_6R_2R_5+C_1C_5C_6R_4R_5+C_3C_5C_6R_4R_5} Qz: None
             Wz: None
9.283 X-INVALID-NUMER-283 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6
H(s) = \frac{1}{-C_{1}R_{2}R_{4} + C_{1}R_{2}R_{5} + C_{1}R_{4}R_{5} + C_{3}R_{4}R_{5} + s^{2}\left(C_{1}C_{3}C_{6}R_{1}R_{4}R_{5}R_{6} - C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{6} + C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}R_{6} + C_{1}C_{3}C_{6}R_{3}R_{4}R_{5} + c_{1}C_{3}R_{2}R_{3}R_{4} + C_{1}C_{3}R_{2}R_{3}R_{5} + C_{1}C_{3}R_{2}R_{3}R_{4} + C_{1}C_{3}R_{2}R_{3}R_{5} + C_{1}C_{3}R_{2}R_{5} + C_{1}C_{3}R_{2}R_{3}R_{5} + C_{1}C_{3}R_{2}R_{3}R_{5} + C_{1}C_{3}R_{2}R_{5} + C_{1}C_{3}R_{2}R_{3}R_{5} + C_{1}C_{3}R_{2}R_{3}R_{5} + C_{1}C_{3}R_{2}R_{3}R_{5} + C_{1}C_{3}R_{2}R_{5} + C_{1}C_{3}R_{2}R_{5} + C_{1}C_{3}R_{2}R_{5} + C_{1}C_{3}
     Parameters:
              O: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_6}R_1R_4R_5\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{C_1R_2R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{C_1R_2R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{C_1R_2R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} + \frac{C_1R_2R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5} + \frac{C_1R_4R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{C_1R
             Wo: \sqrt{\frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_3C_6R_1R_4R_5R_6-C_1C_3C_6R_2R_3R_4R_6+C_1C_3C_6R_2R_3R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_3C_6R_3R_4R_5R_6}}
             K-LP: -\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}
             Qz: None
             Wz: None
```

9.284 X-INVALID-NUMER-284 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{-C_1C_3C_5R_2R_3R_4s^2 + C_1R_2 + C_1R_4 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 - C_1C_5R_2R_4\right)}$

Parameters:

Q: $-\frac{i\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1}C_3R_1R_4+\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4-\sqrt{C_1}C_5R_2R_4}}$ wo: $\frac{\sqrt{-C_1R_2-C_1R_4-C_3R_4}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $i\sqrt{-C_1R_2-C_1R_4-C_3R_4}\left(\sqrt{C_1C_3R_1R_4}+\sqrt{C_1C_3R_2R_3}+\sqrt{C_1C_3R_2R_4}+\sqrt{C_1C_3R_3R_4}-\sqrt{C_1C_5R_2R_4}\right)$ K-LP: 0 K-HP: $-\frac{R_1R_6}{R_3}$ K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_1R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4}$ Qz: None Wz: None

9.285 X-INVALID-NUMER-285
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{-C_1C_3C_5C_6R_2R_3R_4s^2 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 - C_1C_5C_6R_2R_4\right)}$$

Q: $-\frac{i\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_3R_1R_4+\sqrt{C_1C_3R_2}R_3+\sqrt{C_1C_3}R_2R_4+\sqrt{C_1}C_3R_3R_4-\sqrt{C_1}C_5R_2R_4}}$ wo: $\frac{\sqrt{-C_1R_2-C_1R_4-C_3R_4}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$

bandwidth: $\frac{i\sqrt{-C_1R_2-C_1R_4-C_3R_4}\left(\sqrt{C_1}C_3R_1R_4+\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4-\sqrt{C_1}C_5R_2R_4\right)}{2}$

 $\sqrt{C_1}C_3C_5R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4+C_3C_6R_2R_3+C_3C_6R_2R_4+C_3C_6R_3R_4-C_5C_6R_2R_4}$ Qz: None

Wz: None

9.286 X-INVALID-NUMER-286 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_5R_1R_4R_5 - C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_3R_4R_5\right) + s\left(C_1C_3R_1R_4 + C_1C_3R_2R_4 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_3C_5R_4R_5\right)}$

Parameters:

 $Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_1R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}}} + \sqrt{C_1}\sqrt$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_3C_5R_1R_4R_5 - C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_3R_4R_5}}$

 $\sqrt{C_1R_2 + C_1R_4 + C_3R_4} (C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_3C_5R_4R_5) \sqrt{\frac{1}{C_1C_3C_5R_1R_4R_5 - C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_5R_4R_5}{\frac{1}{C_1C_3C_5R_1R_4R_5 - C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_5R_4R_5}}$ $\frac{\sqrt{C_1 \sqrt{C_3} \sqrt{C_5} R_1 R_4 R_5 - C_1 R_3 + C_1 R_4 + C_3 R_4} \sqrt{\frac{1}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} - \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 \sqrt{C_1 R_2 + C_1 R_4 + C_3 R_4}} \sqrt{\frac{1}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_5 \sqrt{C_1 R_2 + C_1 R_4 + C_3 R_4}} \sqrt{\frac{1}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5}} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt{C_3} \sqrt{C_5} R_2 R_4 R_5 + R_3 R_4 R_5} + \sqrt{C_1} \sqrt{C_2} \sqrt$

K-LP: 0

Qz: None Wz: None

9.287 X-INVALID-NUMER-287 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4$

 $H(s) = \frac{c_1 c_3 c_5 R_1 R_2 R_4 c_5}{c_1 C_6 R_2 + C_1 C_6 R_4 + C_3 C_6 R_4 + s^2 \left(C_1 C_3 C_5 C_6 R_1 R_4 R_5 - C_1 C_3 C_5 C_6 R_2 R_3 R_4 + C_1 C_3 C_5 C_6 R_2 R_4 R_5 + C_1 C_3 C_5 C_6 R_2 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 + C_1 C_3 C_6 R_4 + C_1 C_5 C_6 R_$

Parameters:

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_3C_5R_1R_4R_5 - C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_3R_4R_5}}$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_1C_3C_5R_1R_2R_4}{C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 - C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_4R_5 + C_3C_5C_6R_4R_5} \\ \text{Qz: None} \end{array}$

Wz: None

9.288 X-INVALID-NUMER-288 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_3R_1R_2R_6s + C_3R_2R_6}{C_1C_3C_4R_2R_3R_5s^2 - C_1R_2 + C_1R_5 + C_3R_5 + s\left(C_1C_3R_1R_5 - C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_3R_5 + C_1C_4R_2R_5\right)}$

Q: $\frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{\sqrt{C_1}C_3R_1R_5-\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_5+\sqrt{C_1}C_3R_3R_5+\sqrt{C_1}C_4R_2R_5}}$ wo: $\frac{\sqrt{-C_1}R_2+C_1R_5+C_3R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}}$ bandwidth: $\frac{\sqrt{C_1}C_3R_1R_5-\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_5+\sqrt{C_1}C_3R_3R_5+\sqrt{C_1}C_4R_2R_5}}{\sqrt{C_1}C_3C_4R_2R_3R_5}}$ K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$ K-HP: 0 K-BP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5}$ Qz: None Wz: None **9.289** X-INVALID-NUMER-289 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_3C_4R_2R_3 - C_1C_3C_5R_2R_3\right) + s\left(C_1C_3R_1 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2\right)}$ Parameters: Q: $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_{1}+\sqrt{C_1}C_3R_2+\sqrt{C_1}C_3R_3+\sqrt{C_1}C_4R_2-\sqrt{C_1}C_5R_2}$ wo: $\sqrt{C_1 + C_3} \sqrt{\frac{1}{C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}}$ bandwidth: $\frac{\sqrt{C_1 + C_3} \left(\sqrt{C_1} C_3 R_1 + \sqrt{C_1} C_3 R_2 + \sqrt{C_1} C_3 R_3 + \sqrt{C_1} C_4 R_2 - \sqrt{C_1} C_5 R_2\right) \sqrt{\frac{1}{C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}}}{\sqrt{C_3} C_4 \sqrt{R_2} \sqrt{R_3} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_4 - C_5}} - \sqrt{C_3} C_5 \sqrt{R_2} \sqrt{R_3} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_4 - C_5}}}$ K-LP: 0 K-HP: $\frac{C_5 R_1 R_6}{C_4 R_3 - C_5 R_3}$ $\begin{array}{l} \text{K-BP:} \ \frac{C_3 C_5 R_2 R_6}{C_1 C_3 R_1 + C_1 C_3 R_2 + C_1 C_3 R_3 + C_1 C_4 R_2 - C_1 C_5 R_2} \\ \text{Qz:} \ \ \text{None} \end{array}$ Wz: None **9.290** X-INVALID-NUMER-290 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_2s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3\right) + s\left(C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2\right)}$ Parameters: $Q \colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_4 - C_5}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1 + C_3}\sqrt{\frac{1}{C_4 - C_5}}}{\sqrt{C_1}C_3R_1 + \sqrt{C_1}C_3R_2 + \sqrt{C_1}C_3R_3 + \sqrt{C_1}C_4R_2 - \sqrt{C_1}C_5R_2}$ wo: $\sqrt{C_1 + C_3} \sqrt{\frac{1}{C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}}$ bandwidth: $\frac{\sqrt{C_1C_3C_4L_2L_3}}{\sqrt{C_1+C_3}\left(\sqrt{C_1}C_3R_1+\sqrt{C_1}C_3R_2+\sqrt{C_1}C_3R_3+\sqrt{C_1}C_4R_2-\sqrt{C_1}C_5R_2\right)\sqrt{\frac{1}{C_1C_3C_4R_2R_3-C_1C_3C_5R_2R_3}}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}}$ K-LP: $\frac{C_3C_5R_2}{C_1C_6+C_3C_6}$ K-HP: 0 K-BP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_3C_6R_3+C_4C_6R_2-C_5C_6R_2}$ Qz: None Wz: None **9.291** X-INVALID-NUMER-291 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$ $C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6$ $H(s) = \frac{1}{C_1 C_3 C_4 R_2 R_3 R_4 R_5 s^2 - C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(C_1 C_3 R_1 R_4 R_5 - C_1 C_3 R_2 R_3 R_4 + C_1 C_3 R_2 R_3 R_5 + C_1 C_3 R_2 R_4 R_5 + C_1 C_3 R_5 R_5 + C_1 C_5 R$ Parameters: Q: $\frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1}C_3R_1R_4R_5-\sqrt{C_1}C_3R_2R_3R_4+\sqrt{C_1}C_3R_2R_3R_5+\sqrt{C_1}C_3R_2R_4R_5+\sqrt{C_1}C_3R_3R_4R_5+\sqrt{C_1}C_4R_2R_4R_5}}$ wo: $\frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_4}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}}$ bandwidth: $\frac{\sqrt{C_1C_3R_1R_4R_5-\sqrt{C_1}C_3R_2R_3R_4+\sqrt{C_1}C_3R_2R_3R_5+\sqrt{C_1}C_3R_2R_4R_5+\sqrt{C_1}C_3R_3R_4R_5+\sqrt{C_1}C_4R_2R_4R_5}}{\sqrt{C_1}C_3C_4R_2R_3R_4R_5}}$ K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: 0

K-BP: $\frac{C_3R_1R_2R_4R_6}{C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 + C_4R_2R_4R_5}$

Qz: None Wz: None

9.292 X-INVALID-NUMER-292
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4\right) + s\left(C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4\right)}$$

Parameters:

 $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_1R_4+\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4+\sqrt{C_1}C_4R_2R_4-\sqrt{C_1}C_5R_2R_4}}$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}$

 $\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \Big(\sqrt{C_1}C_3R_1R_4 + \sqrt{C_1}C_3R_2R_3 + \sqrt{C_1}C_3R_2R_4 + \sqrt{C_1}C_3R_3R_4 + \sqrt{C_1}C_4R_2R_4 - \sqrt{C_1}C_5R_2R_4 \Big) \sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}} \\ + \sqrt{C_1R_2 + C_1R_4 + C_3R_4} \Big(\sqrt{C_1C_3R_1R_4} + \sqrt{C_1C_3R_2R_3} + \sqrt{C_1C_3R_2R_4} + \sqrt{C_1C_3R_3R_4} + \sqrt{$ $\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}$

K-LP: 0

K-HP: $\frac{C_5 R_1 R_6}{C_4 R_3 - C_5 R_3}$

K-BP: $\frac{C_3C_5R_2R_4R_6}{C_1C_3R_1R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4}$ Qz: None

Wz: None

9.293 X-INVALID-NUMER-293 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_4C_6R_2R_3R_4 - C_1C_3C_5C_6R_2R_3R_4\right) + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$$

Parameters:

 $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_1R_4+\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4+\sqrt{C_1}C_4R_2R_4-\sqrt{C_1}C_5R_2R_4}}$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}$

 $\frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\left(\sqrt{C_1}C_3R_1R_4 + \sqrt{C_1}C_3R_2R_3 + \sqrt{C_1}C_3R_2R_4 + \sqrt{C_1}C_3R_3R_4 + \sqrt{C_1}C_4R_2R_4 - \sqrt{C_1}C_5R_2R_4\right)\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_4-C_5}}}$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_3C_6R_1R_4+C_3C_6R_2R_3+C_3C_6R_2R_4+C_3C_6R_3R_4+C_4C_6R_2R_4-C_5C_6R_2R_4}$ Qz: None

Wz: None

9.294 X-INVALID-NUMER-294 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_6R_1R_4R_6 + C_1C_2C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 - C_1C_5R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_4R_6\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_{1}}C_{2}\sqrt{C_{6}}R_{1}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}C_{2}R_{1}R_{4}+C_{1}C_{2}R_{3}R_{4}+C_{1}C_{5}R_{3}R_{4}+C_{1}C_{6}R_{3}R_{6}+C_{1}C_{6}R_{4}R_{6}+C_{2}C_{6}R_{4}R_{6}}$$

wo: $\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2C_6R_1R_4R_6 + C_1C_2C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6}}$

 $\begin{array}{c} \sqrt{C_1C_2C_6R_1R_4R_6+C_1C_2C_6R_3R_4+C_1C_3C_6R_3R_4+C_1C_6R_3R_6+C_1C_6R_4R_6+C_2C_6R_4R_6)} \sqrt{\frac{1}{C_1C_2C_6R_3R_4+C_1C_2C_6R_3R_4+C_1C_2R_3R_4+C_1C_6R_3R_6+C_1C_6R_4R_6+C_2C_6R_4R_6)} \sqrt{\frac{1}{C_1C_2C_6R_1R_4R_6+C_1C_2C_6R_3R_4R_6-C_1C_5C_6R_3R_4R_6}} \\ \text{bandwidth: } \frac{\sqrt{C_1C_2\sqrt{C_6}R_1\sqrt{R_4}\sqrt{C_2R_1+C_2R_3-C_5R_3}} + \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_1C_2\sqrt{C_6}R_3R_4R_6-C_1C_5C_6R_3R_4R_6}} }{\sqrt{C_1C_2\sqrt{C_6}R_1\sqrt{R_4}\sqrt{C_2R_1+C_2R_3-C_5R_3}}} + \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3+C_1R_4+C_2R_4}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{C_1R_3+C_1R_4+C_2R_4}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{C_1R_3+C_1R_4+C_2R_4}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{C_1R_3+C_1R_4+C_2R_4}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{R_4}\sqrt{C_1R_3+C_1R_4+C_2R_4}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{C_1R_4+C_1C_4}}} - \sqrt{C_1C_2\sqrt{C_6}R_3\sqrt{C_1R_4+C_1C_4}}} - \sqrt{C_1C_2\sqrt{C_6$

K-LP: $\frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4}$ K-HP: 0

K-BP: $\frac{C_1C_5R_1R_4R_6}{C_1C_2R_1R_4+C_1C_2R_3R_4-C_1C_5R_3R_4+C_1C_6R_3R_6+C_1C_6R_4R_6+C_2C_6R_4R_6}$ Qz: None

Wz: None

9.295 X-INVALID-NUMER-295
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_1C_5R_1R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_5R_1R_4R_5 + C_1C_2C_5R_3R_4R_5\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5 + C_2C_5R_4R_5\right)}$$

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_1R_3+C_1R_4+C_2R_4}}{C_1C_2R_1R_4+C_1C_2R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}$ wo: $\frac{\sqrt{C_1R_3+C_1R_4+C_2R_4}}{\sqrt{C_1C_2C_5R_1R_4R_5+C_1C_2C_5R_3R_4R_5}}$ bandwidth: $\frac{C_1C_2R_1R_4+C_1C_2R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_1C_2C_5R_1R_4R_5+C_1C_5R_3R_4R_5}}$ K-LP: $\frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4}$ K-HP: 0

K-BP: $\frac{C_1C_5R_1R_4R_6}{C_1C_2R_1R_4+C_1C_2R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}$ Qz: None

Wz: None

9.296 X-INVALID-NUMER-296 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_6s + C_5R_6}{C_1 + C_2 + s^2\left(C_1C_2C_6R_1R_6 + C_1C_2C_6R_3R_6 + C_1C_4C_6R_3R_6 - C_1C_5C_6R_3R_6\right) + s\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_4R_3 - C_1C_5R_3 + C_1C_6R_6 + C_2C_6R_6\right)}$$

Parameters:

 $\frac{\sqrt{C_{1}C_{2}\sqrt{C_{6}}R_{1}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}C_{2}\sqrt{C_{6}}R_{3}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}C_{4}\sqrt{C_{6}}R_{3}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{6}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-C_{1}C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}$

wo: $\sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 C_6 R_1 R_6 + C_1 C_2 C_6 R_3 R_6 + C_1 C_4 C_6 R_3 R_6 - C_1 C_5 C_6 R_3 R_6}$

K-LP: $\frac{C_5R_6}{C_1+C_2}$ K-HP: 0

K-BP: $\frac{C_1C_5R_1R_6}{C_1C_2R_1+C_1C_2R_3+C_1C_4R_3-C_1C_5R_3+C_1C_6R_6+C_2C_6R_6}$ Qz: None

Wz: None

9.297 X-INVALID-NUMER-297 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_6s + C_5R_6}{C_1 + C_2 + s^2\left(C_1C_2C_5R_1R_5 + C_1C_2C_5R_3R_5 + C_1C_4C_5R_3R_5\right) + s\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_4R_3 - C_1C_5R_3 + C_1C_5R_5 + C_2C_5R_5\right)}$$

Parameters:

wo: $\frac{\sqrt{C_1 + C_2}}{\sqrt{C_1 C_2 C_5 R_1 R_5 + C_1 C_2 C_5 R_3 R_5 + C_1 C_4 C_5 R_3 R_5}}$ bandwidth: $\frac{C_1 C_2 R_1 + C_1 C_2 R_3 + C_1 C_4 R_3 - C_1 C_5 R_3 + C_1 C_5 R_5 + C_2 C_5 R_5}{\sqrt{C_1} \sqrt{C_5} \sqrt{R_5} \sqrt{C_2 R_1 + C_2 R_3 + C_4 R_3} \sqrt{C_1 C_2 C_5 R_1 R_5 + C_1 C_2 C_5 R_3 R_5 + C_5}}$ K-LP: $\frac{C_5 R_6}{C_1 + C_2}$ K-HP: 0

K-BP: $\frac{C_1C_5R_1R_6}{C_1C_2R_1+C_1C_2R_3+C_1C_4R_3-C_1C_5R_3+C_1C_5R_5+C_2C_5R_5}$

Qz: None Wz: None

9.298 X-INVALID-NUMER-298 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_6R_1R_4R_6 + C_1C_2C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6\right) + s\left(C_1C_2R_1R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_4R_6 + C_2C_6R_4R_6\right)}$$

Parameters:

 $\frac{\sqrt{C_{1}}C_{2}\sqrt{C_{6}}R_{1}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{4}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{5}\sqrt{C_{6}}R_{3}\sqrt{R_{4}}\sqrt{R_{6}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{\frac{1}{C_{2}R_{3}+C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{1}R_{4}+C_{2}R_{4}}\sqrt{C_{$

 $\text{wo: } \sqrt{C_1R_3 + C_1R_4 + C_2R_4} \sqrt{\frac{1}{C_1C_2C_6R_1R_4R_6 + C_1C_2C_6R_3R_4R_6 + C_1C_5C_6R_3R_4R_6}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_3 + C_1R_4 + C_2R_4} \sqrt{C_1R_3 + C_1C_4R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_4R_6 + C_2C_6R_4R_6}) \sqrt{\frac{1}{C_1C_2C_6R_1R_4R_6 + C_1C_2C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_3 + C_1R_4 + C_2R_4} \sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3} + \sqrt{C_1C_2C_6R_3R_4R_6 + C_1C_5C_6R_3R_4R_6} - C_1C_5C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6}} {\sqrt{C_1C_2C_6R_1\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + \sqrt{C_1C_4\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - \sqrt{C_1C_5\sqrt{C_6}R_3\sqrt{R_4}\sqrt{R_6}\sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_4 + C_2R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_4 - C_1C_5R_3R_4 + C_1C_6R_3R_4 + C_1C_6R_3R_4$

9.299 X-INVALID-NUMER-299 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_5R_1R_4R_5 + C_1C_2C_5R_3R_4R_5 + C_1C_4C_5R_3R_4R_5\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5 + C_2C_5R_4R_5\right)}$$

Parameters:

Wz: None

Q: $\frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1R_3}+C_1R_4+C_2R_4}{C_1C_2R_3R_4+C_1C_2R_3R_4+C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5}+C_2C_5R_4R_5}{\sqrt{C_1R_3}+C_1R_4+C_2R_4}}$ wo: $\frac{\sqrt{C_1R_3}+C_1R_4+C_2R_4}{\sqrt{C_1C_2C_5R_1R_4R_5}+C_1C_2C_5R_3R_4R_5+C_1C_4C_5R_3R_4R_5}}$ bandwidth: $\frac{C_1C_2R_1R_4+C_1C_2R_3R_4+C_1C_4R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3}+C_4R_3\sqrt{C_1C_2C_5R_1R_4R_5}+C_1C_2C_5R_3R_4R_5+C_1C_4C_5R_3R_4R_5}}$ K-LP: $\frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4}$ K-HP: 0
K-BP: $\frac{C_1C_5R_1R_4+C_1C_2R_3R_4+C_1C_4R_3R_4-C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}{C_1C_2R_1R_4+C_1C_2R_3R_4+C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}$ Qz: None

9.300 X-INVALID-NUMER-300 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1C_3R_1R_4R_6s + C_3R_4R_6}{C_1C_2C_3R_1R_4R_5s^2 - C_1R_4 + C_1R_5 + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_2C_3R_4R_5\right)}$$

Parameters:

Q: $\frac{C_{1}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{-R_{4}+R_{5}}}{C_{1}C_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}+C_{2}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}}$ wo: $\frac{\sqrt{-R_{4}+R_{5}}}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}}$ bandwidth: $\frac{C_{1}C_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}+C_{2}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}}{C_{1}C_{2}C_{3}R_{1}\sqrt{R_{4}}\sqrt{R_{5}}}$ K-LP: $-\frac{C_{3}R_{4}R_{6}}{C_{1}R_{4}-C_{1}R_{5}}$ K-HP: 0 K-BP: $\frac{C_{1}C_{3}R_{1}R_{6}}{C_{1}C_{2}R_{5}+C_{1}C_{3}R_{5}+C_{2}C_{3}R_{5}}$ Qz: None Wz: None

9.301 X-INVALID-NUMER-301 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3R_1R_4s^2 + C_1 + s\left(C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4\right)}$$

Parameters:

 $\begin{array}{l} Q\colon \frac{C_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_1C_2\sqrt{R_4}+C_1C_3\sqrt{R_4}-C_1C_5\sqrt{R_4}+C_2C_3\sqrt{R_4}}\\ \text{wo: } \frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}}\\ \text{bandwidth: } \frac{C_1C_2\sqrt{R_4}+C_1C_3\sqrt{R_4}-C_1C_5\sqrt{R_4}+C_2C_3\sqrt{R_4}}{C_1C_2C_3R_1\sqrt{R_4}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_5R_6}{C_2}\\ \text{K-BP: } \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$

9.302 X-INVALID-NUMER-302 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4s + C_3C_5R_4}{C_1C_2C_3C_6R_1R_4s^2 + C_1C_6 + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

Q: $\frac{C_{1}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}}{C_{1}C_{2}\sqrt{R_{4}}+C_{1}C_{3}\sqrt{R_{4}}-C_{1}C_{5}\sqrt{R_{4}}+C_{2}C_{3}\sqrt{R_{4}}}$ wo: $\frac{1}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{4}}}$ bandwidth: $\frac{C_{1}C_{2}\sqrt{R_{4}}+C_{1}C_{3}\sqrt{R_{4}}-C_{1}C_{5}\sqrt{R_{4}}+C_{2}C_{3}\sqrt{R_{4}}}{C_{1}C_{2}C_{3}R_{1}\sqrt{R_{4}}}$

K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1}{C_1C_2C_6+C_1C_3C_6-C_1C_5C_6+C_2C_3C_6}$ Qz: None

Wz: None

9.303 X-INVALID-NUMER-303 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1 C_3 R_1 R_6 s + C_3 R_6}{C_1 C_2 C_3 R_1 R_5 s^2 - C_1 + s \left(C_1 C_2 R_5 + C_1 C_3 R_5 + C_1 C_4 R_5 + C_2 C_3 R_5 \right)}$$

Parameters:

Q: $\frac{iC_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_1C_2\sqrt{R_5} + C_1C_3\sqrt{R_5} + C_1C_4\sqrt{R_5} + C_2C_3\sqrt{R_5}}$

wo: $\frac{i}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_1C_2\sqrt{R_5}+C_1C_3\sqrt{R_5}+C_1C_4\sqrt{R_5}+C_2C_3\sqrt{R_5}}{C_1C_2C_3R_1\sqrt{R_5}}$

K-LP: $-\frac{C_3 R_6}{C_1}$ K-HP: 0

K-BP: $\frac{C_1C_3R_1R_6}{C_1C_2R_5+C_1C_3R_5+C_1C_4R_5+C_2C_3R_5}$

Qz: None Wz: None

9.304 X-INVALID-NUMER-304 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_6s + C_3C_5R_6}{C_1C_2C_3C_6R_1R_6s^2 + C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_3R_1 + C_1C_2C_6R_6 + C_1C_3C_6R_6 + C_1C_4C_6R_6 - C_1C_5C_6R_6 + C_2C_3C_6R_6\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{C_1C_2C_3R_1+C_1C_2C_6R_6+C_1C_3C_6R_6+C_1C_4C_6R_6-C_1C_5C_6R_6+C_2C_3C_6R_6}}$ wo: $\frac{\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}}$ bandwidth: $\frac{C_1C_2C_3R_1+C_1C_2C_6R_6+C_1C_3C_6R_6+C_1C_4C_6R_6-C_1C_5C_6R_6+C_2C_3C_6R_6}{C_1C_2C_3C_6R_1R_6}}$

K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1R_6}{C_1C_2C_3R_1+C_1C_2C_6R_6+C_1C_3C_6R_6+C_1C_4C_6R_6-C_1C_5C_6R_6+C_2C_3C_6R_6}$ Qz: None

Wz: None

9.305 X-INVALID-NUMER-305 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_6s + C_3C_5R_6}{C_1C_2C_3C_5R_1R_5s^2 + C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_3R_1 + C_1C_2C_5R_5 + C_1C_3C_5R_5 + C_1C_4C_5R_5 + C_2C_3C_5R_5\right)}$$

Parameters:

 $\begin{array}{ll} \text{Q:} & \frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{C_1C_2C_3R_1+C_1C_2C_5R_5+C_1C_3C_5R_5+C_1C_4C_5R_5+C_2C_3C_5R_5} \\ \text{wo:} & \frac{\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}} \\ \text{bandwidth:} & \frac{C_1C_2C_3R_1+C_1C_2C_5R_5+C_1C_3C_5R_5+C_1C_4C_5R_5+C_2C_3C_5R_5}{C_1C_2C_3C_5R_1R_5} \end{array}$

K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1R_6}{C_1C_2C_3R_1+C_1C_2C_5R_5+C_1C_3C_5R_5+C_1C_4C_5R_5+C_2C_3C_5R_5}$ Qz: None

Wz: None

9.306 X-INVALID-NUMER-306 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_3R_1R_4R_6s + C_3R_4R_6}{C_1C_2C_3R_1R_4R_5s^2 - C_1R_4 + C_1R_5 + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 + C_2C_3R_4R_5\right)}$

Parameters:

Q: $\frac{C_{1}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{-R_{4}+R_{5}}}{C_{1}C_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{4}\sqrt{R_{4}}\sqrt{R_{5}}+C_{2}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}}$ wo: $\frac{\sqrt{-R_{4}+R_{5}}}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}}$ bandwidth: $\frac{C_{1}C_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{4}\sqrt{R_{4}}\sqrt{R_{5}}+C_{2}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}}{C_{1}C_{2}C_{3}R_{1}\sqrt{R_{4}}\sqrt{R_{5}}}$

K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0

K-BP: $\frac{C_1C_3R_1R_6}{C_1C_2R_5+C_1C_3R_5+C_1C_4R_5+C_2C_3R_5}$ Qz: None

Wz: None

9.307 X-INVALID-NUMER-307 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3R_1R_4s^2 + C_1 + s\left(C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_2C_3R_4\right)}$

Parameters:

Q: $\frac{C_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_1C_2\sqrt{R_4} + C_1C_3\sqrt{R_4} + C_1C_4\sqrt{R_4} - C_1C_5\sqrt{R_4} + C_2C_3\sqrt{R_4}}$ wo: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_1C_2\sqrt{R_4} + C_1C_3\sqrt{R_4} + C_1C_4\sqrt{R_4} - C_1C_5\sqrt{R_4} + C_2C_3\sqrt{R_4}}{C_1C_2C_2R_1\sqrt{R_4}}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ Qz: None Wz: None

9.308 X-INVALID-NUMER-308 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_4s + C_3C_5R_4}{C_1C_2C_3C_6R_1R_4s^2 + C_1C_6 + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$

Parameters:

Q: $\frac{C_{1}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}}{C_{1}C_{2}\sqrt{R_{4}}+C_{1}C_{3}\sqrt{R_{4}}+C_{1}C_{4}\sqrt{R_{4}}-C_{1}C_{5}\sqrt{R_{4}}+C_{2}C_{3}\sqrt{R_{4}}}$ wo: $\frac{1}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{4}}}$ bandwidth: $\frac{C_{1}C_{2}\sqrt{R_{4}}+C_{1}C_{3}\sqrt{R_{4}}+C_{1}C_{4}\sqrt{R_{4}}-C_{1}C_{5}\sqrt{R_{4}}+C_{2}C_{3}\sqrt{R_{4}}}{C_{1}C_{2}C_{3}R_{1}\sqrt{R_{4}}}$ where $C_{1}C_{2}C_{3}R_{4}$

K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1}{C_1C_2C_6+C_1C_3C_6+C_1C_4C_6-C_1C_5C_6+C_2C_3C_6}$ Qz: None

Wz: None

9.309 X-INVALID-NUMER-309
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_1C_3R_1R_4R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_3R_3R_4R_5\right) + s\left(C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 + C_2C_3R_4R_5\right)}$$

Q: $\frac{C_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{-R_4+R_5}}{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_2C_3R_4R_5}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5}}$ bandwidth: $\frac{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_2C_3R_4R_5}{C_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5}}$ K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: 0

K-BP: $\frac{C_1C_3R_1R_4R_6}{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_2C_3R_4R_5}$ Qz: None

Wz: None

9.310 X-INVALID-NUMER-310 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_3R_3R_4 - C_1C_3C_5R_3R_4\right) + s\left(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4\right)}$$

Parameters:

 $Q: \frac{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{C_1C_2R_4+C_1C_3R_4+C_1C_5R_4+C_2C_3R_4}$

 $\text{bandwidth: } \frac{(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}}}{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}}$

K-LP: 0

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}$ K-BP: $\frac{C_5R_1R_6}{C_1C_2R_4+C_1C_3R_3+C_1C_3R_4+C_1C_5R_4+C_2C_3R_4}$ Qz: None

Wz: None

9.311 X-INVALID-NUMER-311 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4s + C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_3R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

Q:
$$\frac{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}-C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{C_1C_2R_4+C_1C_3R_3+C_1C_3R_4-C_1C_5R_4+C_2C_3R_4}$$

 $\text{wo: } \sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}} \\ \text{bandwidth: } \frac{(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}}}{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}} \\ + C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}} \\ + C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_3 - C_5R_3}} \\ + C_1C_2\sqrt{C_3}R_3\sqrt{\frac{1}{C_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{$

K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1R_4}{C_1C_2C_6R_4+C_1C_3C_6R_3+C_1C_3C_6R_4-C_1C_5C_6R_4+C_2C_3C_6R_4}$ Qz: None

Wz: None

9.312 X-INVALID-NUMER-312
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_1C_3R_1R_6s + C_3R_6}{-C_1 + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_3R_3R_5 + C_1C_3C_4R_3R_5\right) + s\left(C_1C_2R_5 - C_1C_3R_3 + C_1C_3R_5 + C_1C_4R_5 + C_2C_3R_5\right)}$$

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wo: \frac{i}{\sqrt{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5}} bandwidth: \frac{C_1C_2R_5-C_1C_3R_3+C_1C_3R_5+C_1C_4R_5+C_2C_3R_5}{C_1\sqrt{C_3}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5}} K-LP: -\frac{C_3R_6}{C_1}
            K-HP: 0
           K-BP: \frac{C_1C_3R_1R_6}{C_1C_2R_5-C_1C_3R_3+C_1C_3R_5+C_1C_4R_5+C_2C_3R_5} Qz: None
            Wz: None
9.313 X-INVALID-NUMER-313 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
          H(s) = \frac{C_1C_3C_5R_1R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_6R_1R_6 + C_1C_3C_4C_6R_3R_6 - C_1C_3C_5C_6R_3R_6\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_6R_6 + C_1C_3C_5R_3 + C_1C_3C_5R_3 + C_1C_3C_6R_6 + C_1C_3C_6R_6
      Parameters:
             O: \frac{\sqrt{C_1}C_2\sqrt{C_3}\sqrt{C_6}R_1\sqrt{R_6}\sqrt{\frac{C_1C_2}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{C_1C_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{C_1C_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{C_1C_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{C_1C_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \sqrt{C_1}C_2\sqrt{C_3}\sqrt{C_6}R_3\sqrt{R_6}\sqrt{\frac{C_1C_2}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{C_1C_3}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{C_1
            Wo: \sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_6R_1R_6+C_1C_2C_3C_6R_3R_6+C_1C_3C_4C_6R_3R_6-C_1C_3C_5C_6R_3R_6}}
            \frac{1}{\sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{C_{6}}R_{1}\sqrt{R_{6}}\sqrt{\frac{C_{1}C_{2}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \frac{C_{1}C_{4}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}} + \frac{C_{1}C_{4}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}} + \frac{C_{1}C_{3}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{C_{6}}R_{3}\sqrt{R_{6}}\sqrt{\frac{C_{1}C_{2}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}} + \frac{C_{1}C_{4}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \frac{C_{1}C_{3}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}} 
            K-LP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}
K-HP: 0
            \text{K-BP: } \frac{C_1C_3C_5R_1R_6}{C_1C_2C_3R_1+C_1C_2C_3R_3+C_1C_2C_6R_6+C_1C_3C_4R_3-C_1C_3C_5R_3+C_1C_3C_6R_6+C_1C_4C_6R_6-C_1C_5C_6R_6+C_2C_3C_6R_6}
              Qz: None
            Wz: None
9.314 X-INVALID-NUMER-314 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_1C_3C_5R_1R_6s + C_3C_5R_6
                                                                         H(s) = \frac{C_1 C_3 C_5 I \iota_1 I \iota_6 s + C_3 C_5 I \iota_6}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3 + s^2 \left(C_1 C_2 C_3 C_5 R_1 R_5 + C_1 C_2 C_3 C_5 R_3 R_5 + C_1 C_3 C_4 C_5 R_3 R_5\right) + s \left(C_1 C_2 C_3 R_1 + C_1 C_2 C_5 R_5 + C_1 C_3 C_4 R_3 - C_1 C_3 C_5 R_3 + C_1 C_3 C_5 R_5 + C_1 C_4 C_5 R_5 + C_2 C_3 C_5 R_5\right)}
     Parameters:
       \begin{array}{l} \text{K-BP:} \ \frac{C_1C_3C_5R_1R_6}{C_1C_2C_3R_1+C_1C_2C_3R_3+C_1C_2C_5R_5+C_1C_3C_4R_3-C_1C_3C_5R_3+C_1C_3C_5R_5+C_1C_4C_5R_5+C_2C_3C_5R_5} \end{array} 
             Qz: None
            Wz: None
9.315 X-INVALID-NUMER-315 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1C_3R_1R_4R_6s + C_3R_4R_6
                                                                                                                                                                         Parameters:
             Q: \frac{C_1\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_4+R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}}{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_1C_4R_4R_5+C_2C_3R_4R_5} wo: \frac{\sqrt{-R_4+R_5}}{\sqrt{-R_4+R_5}}
          W0: \frac{\sqrt{-n_4+n_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5}} bandwidth: \frac{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_1C_4R_4R_5+C_2C_3R_4R_5}{C_1\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5+C_3C_4R_3R_4R_5}} K-LP: -\frac{C_3R_4R_6}{C_1R_4-C_1R_5} K-HP: 0
```

K-HP: 0

Wz: None

K-BP: $\frac{C_1C_3R_1R_4R_6}{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_1C_4R_4R_5+C_2C_3R_4R_5}$ Qz: None

9.316 X-INVALID-NUMER-316
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_3R_3R_4 + C_1C_3C_4R_3R_4 - C_1C_3C_5R_3R_4\right) + s\left(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_2C_3R_4\right)}$$

$$\begin{array}{c} Q: \frac{C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + C_{1}C_{2}\sqrt{C_{3}}R_{3}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + C_{1}\sqrt{C_{3}}C_{4}R_{3}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - C_{1}\sqrt{C_{3}}C_{5}R_{3}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} \\ wo: \sqrt{\frac{1}{C_{2}C_{3}R_{1}R_{4}+C_{2}C_{3}R_{3}R_{4}+C_{3}C_{4}R_{3}R_{4}-C_{3}C_{5}R_{3}R_{4}}} \\ bandwidth: \frac{(C_{1}C_{2}R_{4}+C_{1}C_{3}R_{3}+C_{1}C_{3}R_{4}+C_{1}C_{4}R_{4}-C_{1}C_{5}R_{4}+C_{2}C_{3}R_{4})\sqrt{\frac{1}{C_{2}C_{3}R_{1}R_{4}+C_{2}C_{3}R_{3}R_{4}+C_{3}C_{4}R_{3}R_{4}-C_{3}C_{5}R_{3}R_{4}}} \\ bandwidth: \frac{(C_{1}C_{2}R_{4}+C_{1}C_{3}R_{3}+C_{1}C_{3}R_{4}+C_{1}C_{4}R_{4}-C_{1}C_{5}R_{4}+C_{2}C_{3}R_{4})\sqrt{\frac{1}{C_{2}C_{3}R_{1}R_{4}+C_{2}C_{3}R_{3}R_{4}+C_{3}C_{5}R_{3}R_{4}}{C_{2}C_{3}R_{1}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} + C_{1}\sqrt{C_{3}C_{4}R_{3}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}C_{3}R_{1}R_{4}+C_{2}C_{3}R_{3}R_{4}+C_{3}C_{5}R_{3}R_{4}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} \\ K-LP: 0 \\ K-HP: \frac{C_{5}R_{1}R_{6}}{C_{2}C_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}{C_{1}C_{2}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{4}R_{4}-C_{1}C_{5}R_{4}+C_{2}C_{3}R_{4}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}} \\ K-BP: \frac{C_{5}R_{1}R_{6}}{C_{1}C_{2}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{4}R_{4}-C_{1}C_{5}R_{4}+C_{2}C_{3}R_{4}}}{C_{2}C_{2}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{4}R_{4}-C_{1}C_{5}R_{4}+C_{2}C_{3}R_{4}} \\ Wz: None \end{aligned}$$

9.317 X-INVALID-NUMER-317 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4s + C_3C_5R_4}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_3R_4 + C_1C_3C_4C_6R_3R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

$$Q: \frac{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_1\sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{\frac{1}{C_3}C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{\frac{1}$$

9.318 X-INVALID-NUMER-318 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1R_1R_2R_4R_6s + R_2R_4R_6}{R_4R_5 + s^2\left(C_1C_2R_1R_2R_4R_5 + C_1C_2R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5\right)}$$

Parameters:

9.319 X-INVALID-NUMER-319 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_2R_2R_3R_4 - C_1C_5R_2R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4\right)}$$

```
Q\colon \frac{\sqrt{C_{1}}C_{2}R_{1}\sqrt{R_{2}}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}}{C_{1}R_{1}R_{4}+C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}}
wo: \sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{2}+C_{1}C_{2}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}
bandwidth: \frac{(C_{1}R_{1}R_{4}+C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4})\sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{2}+C_{1}C_{2}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{\sqrt{C_{1}}C_{2}R_{1}\sqrt{R_{2}}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}}+\sqrt{C_{1}}C_{2}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}}
K-LP: 0
K-HP: \frac{C_{5}R_{1}R_{6}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}{C_{1}R_{1}R_{4}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}}}
Qz: None
Wz: None
```

9.320 X-INVALID-NUMER-320 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_2C_6R_2R_4\right)}$$

Parameters:

```
\begin{array}{c} Q\colon \frac{\sqrt{C_{1}}C_{2}R_{1}\sqrt{R_{2}}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}\\ &\quad C_{1}R_{1}R_{4}+C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}\\ \text{wo: }\sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{2}+C_{1}C_{2}}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}\\ \text{bandwidth: }\frac{(C_{1}R_{1}R_{4}+C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4})\sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{2}+C_{1}C_{2}}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}\\ \text{bandwidth: }\frac{(C_{1}R_{1}R_{4}+C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4})\sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{2}+C_{1}C_{2}}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{\sqrt{C_{1}C_{2}R_{1}\sqrt{R_{2}}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}}}}\\ \text{K-LP: }\frac{C_{5}R_{2}}{C_{6}}\\ \text{K-HP: 0}\\ \text{K-BP: }\frac{C_{1}C_{5}R_{1}R_{2}R_{4}}{C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{4}+C_{1}C_{6}R_{3}R_{4}+C_{2}C_{6}R_{2}R_{4}}}{C_{2}C_{1}C_{5}R_{1}R_{2}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{4}+C_{1}C_{6}R_{2}R_{4}}}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}
```

9.321 X-INVALID-NUMER-321 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1 R_1 R_2 R_6 s + R_2 R_6}{R_5 + s^2 \left(C_1 C_2 R_1 R_2 R_5 + C_1 C_2 R_2 R_3 R_5 + C_1 C_4 R_2 R_3 R_5\right) + s \left(C_1 R_1 R_5 - C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_2 R_2 R_5\right)}$$

Parameters:

9.322 X-INVALID-NUMER-322 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_6s^2 + C_5R_2R_6s}{s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_2R_2\right) + 1}$$

$$Q: \frac{\sqrt{C_{1}C_{2}R_{1}\sqrt{R_{2}}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}C_{2}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}C_{4}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}$$

K-BP: $\frac{C_5R_2R_6}{C_1R_1+C_1R_2+C_1R_3+C_2R_2}$ Qz: None

Wz: None

9.323 X-INVALID-NUMER-323 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_5R_1R_2s + C_5R_2}{C_6 + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2\right)}$

Parameters:

 $\text{Q:} \ \frac{\sqrt{C_{1}}C_{2}R_{1}\sqrt{R_{2}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-C_{1}R_{1}+C_{1}R_{2}+C_{1}R_{3}+C_{2}R_{2}}$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_2R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}}$

 $(C_1R_1 + C_1R_2 + C_1R_3 + C_2R_2)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}$ $\frac{1}{\sqrt{C_1}C_2R_1\sqrt{R_2}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\sqrt{C_1}C_4\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\sqrt{C_1}C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_2R_3+C_4R_3-C_5R_3}}}-\frac{1}{\sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3$

K-LP: $\frac{C_5R_2}{C_6}$ K-HP: 0

K-BP: $\frac{C_1C_5R_1R_2}{C_1C_6R_1+C_1C_6R_2+C_1C_6R_3+C_2C_6R_2}$ Qz: None

Wz: None

9.324 X-INVALID-NUMER-324 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_1R_1R_2R_4R_6s + R_2R_4R_6}{R_4R_5 + s^2\left(C_1C_2R_1R_2R_4R_5 + C_1C_2R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5\right)}$

Parameters:

wo: $\frac{1}{\sqrt{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3}}$ bandwidth: $\frac{C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5}{\sqrt{C_1\sqrt{R_2}R_4R_5\sqrt{C_2R_1 + C_2R_3 + C_4R_3}\sqrt{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3}}}$ K-LP: $\frac{R_2R_6}{R_5}$ K-HP: 0

K-BP: $\frac{C_1R_1R_2R_4R_6}{C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5}$

Wz: None

9.325 X-INVALID-NUMER-325 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_2R_2R_3R_4 + C_1C_4R_2R_3R_4 - C_1C_5R_2R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4\right)}$

Parameters:

 $\text{Q:} \ \frac{\sqrt{C_{1}}C_{2}R_{1}\sqrt{R_{2}}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-C_{1}R_{1}R_{4}+C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{2}R_{4}}$

 $\frac{(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}{\sqrt{C_1C_2R_1\sqrt{R_2}R_4\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + \sqrt{C_1C_2\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + \sqrt{C_1C_4\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}} + \sqrt{C_1C_4\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}}}} + \sqrt{C_1C_4\sqrt{R_2}R_3 + C_4R_3 - C_5R_3}} + \sqrt{C_1C_4\sqrt{R_2}R_3 + C_4R_3 - C_5R_3}} + \sqrt{C_1C_4\sqrt{R_2}R_3 - C_4R_3 - C_5R_3}} + \sqrt{C_1C_4\sqrt{R_2}R_3 - C_5R_3}} + \sqrt{C$

K-LP: 0

 $\begin{array}{l} \text{K-HP: } \frac{C_5 R_1 R_6}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3} \\ \text{K-BP: } \frac{C_5 R_2 R_4 R_6}{C_1 R_1 R_4 + C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_2 R_2 R_4} \\ \end{array}$

Qz: None Wz: None

9.326 X-INVALID-NUMER-326
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_5R_1R_2R_4s + C_5R_2R_4}{C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_1C_6R_2R_4\right)}$$

$$\begin{array}{c} Q: \frac{\sqrt{C_1}C_2R_1\sqrt{R_2}R_4\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_1}C_2\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_1}C_4\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_1}C_5\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ \text{wo: } \sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_2R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_1R_1R_4+C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4)\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_2R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}}}{\sqrt{C_1C_2R_1\sqrt{R_2}R_4\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} + \sqrt{C_1C_2\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} + \sqrt{C_1C_4\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}} \\ \text{K-LP: } \frac{C_5R_2}{C_6} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_1C_5R_1R_2R_4}{C_1C_6R_1R_4+C_1C_6R_2R_4+C_1C_6R_3R_4+C_2C_6R_2R_4}}{Q_{Z: None}} \\ \text{Wz: None} \end{array}$$

9.327 X-INVALID-NUMER-327 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{C_1C_2C_3R_1R_2R_4R_5s^2 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_2R_2R_4R_5 + C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 + C_2C_3R_2R_4R_5\right)}$$

Parameters:

Q:
$$\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_2R_2\sqrt{R_4}\sqrt{R_5}+C_1C_3R_1\sqrt{R_4}\sqrt{R_5}+C_1C_3R_2\sqrt{R_4}\sqrt{R_5}+C_2C_3R_2\sqrt{R_4}\sqrt{R_5}}$$
 wo:
$$\frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$$
 bandwidth:
$$\frac{C_1C_2R_2\sqrt{R_4}\sqrt{R_5}+C_1C_3R_1\sqrt{R_4}\sqrt{R_5}+C_1C_3R_2\sqrt{R_4}\sqrt{R_5}+C_2C_3R_2\sqrt{R_4}\sqrt{R_5}}{C_1C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$$
 K-LP:
$$-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$$
 K-HP: 0 K-BP:
$$\frac{C_1C_3R_1R_2R_6}{C_1C_2R_2R_5+C_1C_3R_1R_2R_6}$$
 Qz: None Wz: None

9.328 X-INVALID-NUMER-328 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1C_2C_3R_1R_2R_4s^2 + C_1R_2 + C_1R_4 + C_3R_4 + s\left(C_1C_2R_2R_4 + C_1C_3R_1R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4\right)}$$

Parameters:

9.329 X-INVALID-NUMER-329 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_2C_3C_6R_1R_2R_4s^2 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{C_1C_2R_2\sqrt{R_4}+C_1C_3R_1\sqrt{R_4}+C_1C_3R_2\sqrt{R_4}-C_1C_5R_2\sqrt{R_4}+C_2C_3R_2\sqrt{R_4}}$

wo: $\frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_1C_2R_2\sqrt{R_4} + C_1C_3R_1\sqrt{R_4} + C_1C_3R_2\sqrt{R_4} - C_1C_5R_2\sqrt{R_4} + C_2C_3R_2\sqrt{R_4}}{C_1C_2C_3R_1R_2\sqrt{R_4}}$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1R_2}{C_1C_2C_6R_2+C_1C_3C_6R_1+C_1C_3C_6R_2-C_1C_5C_6R_2+C_2C_3C_6R_2}$ Qz: None

Wz: None

9.330 X-INVALID-NUMER-330 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_3R_1R_2R_6s + C_3R_2R_6}{C_1C_2C_3R_1R_2R_5s^2 - C_1R_2 + C_1R_5 + C_3R_5 + s\left(C_1C_2R_2R_5 + C_1C_3R_1R_5 + C_1C_3R_2R_5 + C_1C_4R_2R_5 + C_2C_3R_2R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{-C_{1}R_{2}+C_{1}R_{5}+C_{3}R_{5}}}{C_{1}C_{2}R_{2}\sqrt{R_{5}}+C_{1}C_{3}R_{1}\sqrt{R_{5}}+C_{1}C_{3}R_{2}\sqrt{R_{5}}+C_{1}C_{4}R_{2}\sqrt{R_{5}}+C_{2}C_{3}R_{2}\sqrt{R_{5}}}$ wo: $\frac{\sqrt{-C_{1}R_{2}+C_{1}R_{5}+C_{3}R_{5}}}{\sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{5}}}}$ bandwidth: $\frac{C_{1}C_{2}R_{2}\sqrt{R_{5}}+C_{1}C_{3}R_{1}\sqrt{R_{5}}+C_{1}C_{3}R_{2}\sqrt{R_{5}}+C_{1}C_{4}R_{2}\sqrt{R_{5}}+C_{2}C_{3}R_{2}\sqrt{R_{5}}}{C_{1}C_{2}C_{3}R_{1}R_{2}\sqrt{R_{5}}}$

K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$ K-HP: 0

K-BP: $\frac{C_1C_3R_1R_2R_6}{C_1C_2R_2R_5+C_1C_3R_1R_5+C_1C_3R_2R_5+C_1C_4R_2R_5+C_2C_3R_2R_5}$ Qz: None

Wz: None

9.331 X-INVALID-NUMER-331 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1C_2C_3R_1R_2s^2 + C_1 + C_3 + s\left(C_1C_2R_2 + C_1C_3R_1 + C_1C_3R_2 + C_1C_4R_2 - C_1C_5R_2 + C_2C_3R_2\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{C_1+C_3}}{C_1C_2R_2+C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}$ wo: $\frac{\sqrt{C_1+C_3}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}$ bandwidth: $\frac{C_1C_2R_2+C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}{C_1C_2C_3R_1R_2}$ K IP: 0

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_3C_5R_2R_6}{C_1C_2R_2+C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}$ Qz: None

Wz: None

9.332 X-INVALID-NUMER-332 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2s + C_3C_5R_2}{C_1C_2C_3C_6R_1R_2s^2 + C_1C_6 + C_3C_6 + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{C_1+C_3}}{C_1C_2R_2+C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}$ wo: $\frac{\sqrt{C_1+C_3}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}$ bandwidth: $\frac{C_1C_2R_2+C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}{C_1C_2C_3R_1R_2}$

K-LP: $\frac{C_3C_5R_2}{C_1C_6+C_3C_6}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1R_2}{C_1C_2C_6R_2+C_1C_3C_6R_1+C_1C_3C_6R_2+C_1C_4C_6R_2-C_1C_5C_6R_2+C_2C_3C_6R_2}$ Qz: None

Wz: None

9.333 X-INVALID-NUMER-333
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{C_1C_2C_3R_1R_2R_4R_5s^2 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_2R_2R_4R_5 + C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 + C_2C_3R_2R_4R_5\right)}$$

Q: $\frac{\sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{-C_{1}R_{2}R_{4}+C_{1}R_{2}R_{5}+C_{1}R_{4}R_{5}}}{C_{1}C_{2}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}R_{1}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{4}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{2}C_{3}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}}}$ wo: $\frac{\sqrt{-C_{1}R_{2}R_{4}+C_{1}R_{2}R_{5}+C_{1}R_{4}R_{5}+C_{3}R_{4}R_{5}}}{\sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}}}$ bandwidth: $\frac{C_{1}C_{2}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}R_{1}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{4}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{2}C_{3}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}}}{C_{1}C_{2}C_{3}R_{1}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}}}$

K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: 0

K-BP: $\frac{C_1C_3R_1R_2R_6}{C_1C_2R_2R_5+C_1C_3R_1R_5+C_1C_3R_2R_5+C_1C_4R_2R_5+C_2C_3R_2R_5}$ Qz: None

Wz: None

9.334 X-INVALID-NUMER-334 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1C_2C_3R_1R_2R_4s^2 + C_1R_2 + C_1R_4 + C_3R_4 + s\left(C_1C_2R_2R_4 + C_1C_3R_1R_4 + C_1C_3R_2R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{C_1C_2R_2\sqrt{R_4}+C_1C_3R_1\sqrt{R_4}+C_1C_3R_2\sqrt{R_4}+C_1C_4R_2\sqrt{R_4}-C_1C_5R_2\sqrt{R_4}+C_2C_3R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_1C_2R_2\sqrt{R_4}+C_1C_3R_1\sqrt{R_4}+C_1C_3R_2\sqrt{R_4}+C_1C_4R_2\sqrt{R_4}-C_1C_5R_2\sqrt{R_4}+C_2C_3R_2\sqrt{R_4}}{C_1C_2C_3R_1R_2\sqrt{R_4}}$

K-LP: 0 K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_3C_5R_2R_6}{C_1C_2R_2+C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}$ Qz: None

Wz: None

9.335 X-INVALID-NUMER-335 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_2C_3C_6R_1R_2R_4s^2 + C_1C_6R_2 + C_1C_6R_4 + c_3C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{C_1C_2R_2\sqrt{R_4}+C_1C_3R_1\sqrt{R_4}+C_1C_3R_2\sqrt{R_4}+C_1C_4R_2\sqrt{R_4}-C_1C_5R_2\sqrt{R_4}+C_2C_3R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_1C_2R_2\sqrt{R_4}+C_1C_3R_1\sqrt{R_4}+C_1C_3R_2\sqrt{R_4}+C_1C_4R_2\sqrt{R_4}-C_1C_5R_2\sqrt{R_4}+C_2C_3R_2\sqrt{R_4}}{C_1C_2C_2R_2R_2\sqrt{R_4}+C_1C_3R_2\sqrt{R_4}-C_1C_5R_2\sqrt{R_4}+C_2C_3R_2\sqrt{R_4}}$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: 0

K-BP: $\frac{C_1C_3C_5R_1R_2}{C_1C_2C_6R_2 + C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2}$

Qz: None Wz: None

9.336 X-INVALID-NUMER-336 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_2R_2R_4R_5\right) + s\left(C_1C_2R_2R_4R_5 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_2R_4R_5\right)}$$

Parameters:

 $\begin{aligned} & \text{Q:} \ \frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_3}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_2R_2R_4R_5+C_1C_3R_1R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_3R_4R_5+C_2C_3R_2R_4R_5} \\ & \text{wo:} \ \frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1C_2C_3R_1R_2R_4R_5+C_1C_2C_3R_2R_3R_4R_5}} \end{aligned}$

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bandwidth: \frac{C_1C_2R_2R_4R_5 + C_1C_3R_1R_4R_5 - C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_3R_4R_5 + C_2C_3R_2R_4R_5}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1 + R_3}\sqrt{C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_3R_2R_3R_4R_5}} K-LP: -\frac{C_3R_2R_4R_6}{C_1R_2R_4 - C_1R_2R_5 - C_1R_4R_5 - C_3R_4R_5} K HP: 0
              K-BP: \frac{C_1C_3R_1R_2R_4R_6}{C_1C_2R_2R_4R_5 + C_1C_3R_1R_4R_5 - C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_3R_4R_5 + C_2C_3R_2R_4R_5} Qz: None
              Wz: None
9.337 X-INVALID-NUMER-337 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s
                                                                                                                                                     Parameters:
               wo: \sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}
                                                                                                                                                     \sqrt{C_1R_2 + C_1R_4 + C_3R_4}(C_1C_2R_2R_4 + C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4)\sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}
                                                                       \frac{\sqrt{C_1C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}-\sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}-\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}-\sqrt{C_1}\sqrt{C_2}R_3\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}-\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}-\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}-\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+\frac{1}{C_2R_1+C_2R_3-C_5R_3}}
               K-LP: 0
              K-HP: \frac{C_5 R_1 R_6}{C_2 R_1 + C_2 R_3 - C_5 R_3}
               \text{K-BP:} \frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4+C_1C_3R_1R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4-C_1C_5R_2R_4+C_2C_3R_2R_4} 
                 Qz: None
              Wz: None
9.338 X-INVALID-NUMER-338 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4
                                                                       H(s) = \frac{1}{C_1 C_6 R_2 + C_1 C_6 R_4 + C_3 C_6 R_4 + s^2 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 + C_1 C_3 C_6 R_2 R_3 R_4 - C_1 C_3 C_6 R_2 R_3 R_4 \right) + s \left(C_1 C_2 C_6 R_2 R_4 + C_1 C_3 C_6 R_2 R_3 + C_1 C_3 C_6 R_2 R_4 + C_1 C_3 C_6 R_3 R_4 + C_1
       Parameters:
               Q: \frac{\sqrt{C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} - \frac{1}{C_{1}C_{2}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}R_{4}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R
               \text{wo: } \sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4}(C_1C_2R_2R_4 + C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_2R_4 + C_2C_3R_2R_4)\sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_3R_2R_3 + C_1C_3C_5R_2R_3R_4}}}{\sqrt{C_1C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}}\sqrt{R_2}\sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_3}}} + \sqrt{C_1C_2\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_3}}} - \sqrt{C_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_3}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_2}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}}} - \sqrt{C_1\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{
             K-LP: \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}
K-HP: 0
              K-BP: \frac{C_1C_3C_5R_1R_2R_4}{C_1C_2C_6R_2R_4+C_1C_3C_6R_1R_4+C_1C_3C_6R_2R_3+C_1C_3C_6R_2R_4+C_1C_3C_6R_3R_4-C_1C_5C_6R_2R_4+C_2C_3C_6R_2R_4} Qz: None
               Wz: None
9.339 X-INVALID-NUMER-339 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_3R_1R_2R_6s + C_3R_2R_6
                                                                                                                                                 H(s) = \frac{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_3R_1R_2R_5 + C_1C_2C_3R_2R_3R_5 + C_1C_3C_4R_2R_3R_5\right) + s\left(C_1C_2R_2R_5 + C_1C_3R_1R_5 - C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_3R_5 + C_1C_4R_2R_5 + C_2C_3R_2R_5\right)}{-C_1R_2 + C_1R_5 + C_2C_3R_1R_2R_5 + C_1C_2C_3R_2R_3R_5 + C_1C_3C_4R_2R_3R_5\right) + s\left(C_1C_2R_2R_5 + C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_3R_5 + C_1C_3R_2R_5 + C_1C_3R_2R_5 + C_1C_3R_2R_5 + C_1C_3R_2R_5 + C_1C_3R_2R_5\right)}
       Parameters:
           \begin{array}{l} \dots & \sqrt{C_1C_2C_3R_1R_2R_5+C_1C_2C_3R_2R_3R_5+C_1C_3C_4R_2R_3R_5} \\ \text{bandwidth:} & \frac{C_1C_2R_2R_5+C_1C_3R_1R_5-C_1C_3R_2R_3+C_1C_3R_2R_5+C_1C_3R_3R_5+C_1C_4R_2R_5+C_2C_3R_2R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_2}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_1C_2C_3R_1R_2R_5+C_1C_2C_3R_2R_3R_5+C_1C_3C_4R_2R_3R_5}} \\ \text{K-LP:} & -\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5} \\ \text{K-HP:} & 0 \end{array} 
               \text{K-BP: } \frac{C_1C_3R_1R_2R_6}{C_1C_2R_2R_5 + C_1C_3R_1R_5 - C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_3R_5 + C_1C_4R_2R_5 + C_2C_3R_2R_5}
```

Qz: None Wz: None

9.340 X-INVALID-NUMER-340
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_2C_3R_2R_3 + C_1C_3C_4R_2R_3 - C_1C_3C_5R_2R_3\right) + s\left(C_1C_2R_2 + C_1C_3R_1 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_2C_3R_2\right)}$$

$$\begin{array}{c} Q: \frac{\sqrt{C_1}C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2}R_1+C_2}R_3+C_4R_3-C_5R_3} + \sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2}R_1+C_2}R_3+C_4}R_3-C_5R_3} + \sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2}R_1+C_2}R_3+C_4}R_3-C_5R_3} \\ wo: \sqrt{C_1+C_3}\sqrt{\frac{1}{C_1}C_2C_3R_1R_2+C_1C_2C_3R_2}R_3-C_1C_3C_5R_2R_3} \\ & bandwidth: \frac{\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2}C_3R_1R_2+C_1C_2C_3R_2}R_3+C_1C_3C_5R_2R_3}} {\sqrt{C_1}C_2\sqrt{C_3}R_1R_2+C_1C_3R_2+C_1C_3R_3+C_1C_3R_2+C_1C_3R_3+C_1C_3C_5R_2+C_2C_3R_2}} \\ & bandwidth: \frac{\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2}C_3R_1R_2+C_1C_2C_3R_2R_3+C_1C_3C_5R_2R_3}} + \sqrt{C_1}\sqrt{\frac{1}{C_2}C_3R_1R_2+C_1C_3R_3+C_1C_3C_3R_2R_3+C_1C_3C_5R_2R_3}} \\ & bandwidth: \frac{\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2}C_3R_1R_2+C_1C_3R_3+C_1C_3C_3R_3+C_1C_3C_5R_2R_3}} {\sqrt{C_1}C_2\sqrt{C_3}R_1R_2+C_1C_3R_3+C_1C_3R_2+C_1C_3R_3+C_1C_3R_2+C_1C_3R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_2R_3+C_1C_3C_3R_3+C$$

9.341 X-INVALID-NUMER-341 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_3C_6R_1R_2 + C_1C_2C_3C_6R_2R_3 + C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3\right) + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2\right)}$$

Parameters:

```
 Q: \frac{\sqrt{C_1C_2\sqrt{C_3R_1\sqrt{R_2}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} + \sqrt{C_1C_2\sqrt{C_3\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} + \sqrt{C_1\sqrt{C_3C_4\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} - \sqrt{C_1\sqrt{C_3C_5\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}} - \sqrt{C_1\sqrt{C_3C_5\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}} - \sqrt{C_1\sqrt{C_3C_5\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}} - \sqrt{C_1\sqrt{C_3C_5\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}} - \sqrt{C_1\sqrt{C_3C_5\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}}} - \sqrt{C_1\sqrt{C_3C_5\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}} - \sqrt{C_1\sqrt{C_3C_5R_1R_2}}
```

9.342 X-INVALID-NUMER-342 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

```
H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + S^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_2R_3R_4 + C_1C_3R_3R_3R_4 + C_1C_3R
```

Parameters:

```
Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{C_1C_2R_2R_4R_5+C_1C_3R_1R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_3R_4R_5+C_1C_4R_2R_4R_5+C_2C_3R_2R_4R_5}
wo: \frac{\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}}{\sqrt{C_1C_2C_3R_1R_2R_4R_5+C_1C_2C_3R_2R_3R_4R_5+C_1C_3C_4R_2R_3R_4R_5}}
bandwidth: \frac{C_1C_2R_2R_4R_5+C_1C_3R_1R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_3R_4R_5+C_1C_4R_2R_4R_5+C_2C_3R_2R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_2R_1+C_2R_3+C_4R_3}\sqrt{C_1C_2C_3R_1R_2R_4R_5+C_1C_2C_3R_2R_3R_4R_5+C_1C_3C_4R_2R_3R_4R_5}}
K-LP: -\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}
K-HP: 0

K-BP: \frac{C_1C_3R_1R_2R_4R_6}{C_1C_2R_2R_4R_5+C_1C_3R_1R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_4R_2R_4R_5+C_2C_3R_2R_4R_5}
Qz: None

Wz: None
```

9.343 X-INVALID-NUMER-343 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_4R_2R_3R_4 + C_1C_3C_5R_2R_3R_4\right) + s\left(C_1C_2R_2R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4\right)}$$

```
\sqrt{C_1R_2 + C_1R_4 + C_3R_4} (C_1C_2R_2R_4 + C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4) \sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_3C_3R_2R_3R_4 + C_1C_3C_5R_2R_3R_4}} \sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_3R_2R_3 + C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_4}}{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_
                  \frac{\text{bandwidth:}}{\sqrt{C_{1}C_{2}\sqrt{C_{3}R_{1}\sqrt{R_{2}}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} + \sqrt{C_{1}C_{2}\sqrt{C_{3}\sqrt{R_{2}}R_{3}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} + \sqrt{C_{1}\sqrt{C_{2}\sqrt{C_{3}\sqrt{R_{2}}R_{3}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} + \sqrt{C_{1}\sqrt{C_{2}\sqrt{C_{3}\sqrt{R_{2}}R_{3}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} + \sqrt{C_{1}\sqrt{C_{2}\sqrt{C_{3}\sqrt{R_{2}}R_{3}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} + \sqrt{C_{1}\sqrt{C_{2}\sqrt{C_{3}\sqrt{R_{2}}R_{3}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}} - \sqrt{C_{1}\sqrt{C_{3}C_{4}\sqrt{R_{2}R_{3}+C_{
                  K-LP: 0
                 K-HP: \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}
                   \text{K-BP:} \  \frac{C_3C_5R_2R_4R_6}{C_1C_2R_2R_4+C_1C_3R_1R_4+C_1C_3R_2R_3+C_1C_3R_2R_4+C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_2C_3R_2R_4}{C_1C_2R_2R_4+C_1C_3R_2R_4+C_1C_3R_2R_4+C_1C_3R_3R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_2C_3R_2R_4} 
                     Qz: None
                   Wz: None
9.344 X-INVALID-NUMER-344 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4
H(s) = \frac{1133311247 + 333324}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_
      Parameters:
                   Q: \frac{\sqrt{C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}\sqrt{C_{3}}C_{4}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{3}+C_{1}R_{4}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{3}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R
                  wo: \sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}
                                                                                                                                                                                                                                                                                                                                        \sqrt{C_1R_2 + C_1R_4 + C_3R_4} (C_1C_2R_2R_4 + C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4) \sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_4 + C_1C_3C_5R_4 + C_1C_5R_4R_4 + C_1C_3C_5R_4R_4 + C_1C_5R_4R_4 + C_1C_5R_5R_4 + C_1C_5R_5R_4 + C_1C_5R_5R_4 + C_1C_5R_5R_4 + C_1C_5R_5R_4 + C_1C_5R_5R_4 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5 + C_1C_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5 + C_
                  K-LP: \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}
                 \text{K-BP:} \quad \frac{C_1C_3C_5R_1R_2R_4}{C_1C_2C_6R_2R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_2R
                     Qz: None
                   Wz: None
9.345 X-INVALID-NUMER-345 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4
                                                                                                                                                                                                                                                                                                                        H(s) = \frac{C_5 C_6 R_1 R_2 R_4 R_5 + C_5 R_1 R_2 R_4}{-C_1 C_5 C_6 R_1 R_2 R_3 R_4 s^2 + C_6 R_1 R_4 + C_6 R_2 R_4 + C_6 R_2 R_4 + C_6 R_3 R_4 + s \left(C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_4 + C_1 C_6 R_1 R_3 R_4 - C_5 C_6 R_2 R_3 R_4\right)}
       Parameters:
                                               \frac{i\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4-C_5R_2R_3R_4} \frac{\sqrt{-R_1R_4-R_2R_3-R_2R_4-R_3R_4}}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}
                  bandwidth: \frac{i\sqrt{-R_1R_4-R_2R_3-R_2R_4-R_3R_4}(C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4-C_5R_2R_3R_4)}{C_1C_5R_1R_2R_3R_4\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}
                K-LP: \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4}
                 K-BP: \frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4-C_5R_2R_3R_4}
                     Qz: None
                   Wz: None
9.346 X-INVALID-NUMER-346 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4
H(s) = \frac{1}{C_{6}R_{1}R_{4} + C_{6}R_{2}R_{3} + C_{6}R_{2}R_{4} + C_{6}R_{3}R_{4} + s^{2}\left(-C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3} + C_{1}C_{5}C_{
       Parameters:
                   Q: \frac{-\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}R_2R_3R_4\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_5+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R_3R_4+R_2R_4+R_3R_4}\sqrt{\frac{1}{-R_2R
                   Wo: \sqrt{\frac{-R_1R_4 - R_2R_3 - R_2R_4 - R_3R_4}{C_1C_5R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_5 - C_1C_5R_1R_2R_4R_5 - C_1C_5R_1R_3R_4R_5}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \sqrt{\frac{-R_1R_4-R_2R_3-R_2R_4-R_3R_4}{C_1C_5R_1R_2R_3R_4-C_1C_5R_1R_2R_3R_5-C_1C_5R_1R_2R_4R_5-C_1C_5R_1R_3R_4R_5}}(C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5)
                                                                                        K-LP: \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4}
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 $\frac{\sqrt{C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}\sqrt{C_{3}}C_{4}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{4}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{4}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1}R_{4}+C_{1$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}$

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K-HP: 0
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 $\text{K-BP:} \ \frac{C_5 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5 }$

Qz: None Wz: None

9.347 X-INVALID-NUMER-347 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_5 R_6 s + R_1 R_2 R_4 R_6}{-C_1 C_5 R_1 R_2 R_3 R_4 R_5 s^2 + R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + s \left(-C_1 R_1 R_2 R_3 R_4 + C_1 R_1 R_2 R_3 R_5 + C_1 R_1 R_2 R_4 R_5 + C_1 R_1 R_2 R_4 R_5 - C_5 R_2 R_3 R_4 R_5\right)}$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \, \frac{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_1}R_4R_5 + R_2R_3R_4 - R_2R_3R_5 - R_2R_4R_5 - R_3R_4R_5}{C_1R_1R_2R_3R_4 - C_1R_1R_2R_3R_5 - C_1R_1R_2R_4R_5 - C_1R_1R_3R_4R_5 + C_5R_2R_3R_4R_5}\\ \text{wo:} \ \, \frac{\sqrt{-R_1}R_4R_5 + R_2R_3R_4 - R_2R_3R_5 - R_2R_4R_5 - R_3R_4R_5}}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}\\ \text{bandwidth:} \ \, \frac{C_1R_1R_2R_3R_4 - C_1R_1R_2R_3R_5 - C_1R_1R_2R_4R_5 - C_1R_1R_3R_4R_5 + C_5R_2R_3R_4R_5}{C_1C_5R_1R_2R_3R_4R_5}\\ - C_1C_5R_1R_2R_3R_4 - C_1R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4R_5} \end{array}$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0

K-BP: $-\frac{C_5R_1R_2R_4R_5R_6}{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5+C_5R_2R_3R_4R_5}$ Qz: None

Wz: None

9.348 X-INVALID-NUMER-348 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_1R_2R_6s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_1C_4C_6R_1R_2R_3 - C_1C_5C_6R_1R_2R_3\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_3 + C_4C_6R_2R_3 - C_5C_6R_2R_3\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}}}{C_1R_1R_2+C_1R_1R_3+C_4R_2R_3-C_5R_2R_3}\\ \text{wo: } \sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_4R_1R_2R_3-C_1C_5R_1R_2R_3}}\\ \text{bandwidth: } \frac{\sqrt{R_1+R_2+R_3}(C_1R_1R_2+C_1R_1R_3+C_4R_2R_3-C_5R_2R_3)\sqrt{\frac{1}{C_1C_4R_1R_2R_3-C_1C_5R_1R_2R_3}}}{\sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_5R_1R_2R_2R_6}{C_1R_1R_2+C_1R_1R_3+C_4R_2R_3-C_5R_2R_3}\\ \text{Qz: None} \end{array}$$

9.349 X-INVALID-NUMER-349 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5R_1R_2R_5R_6s + R_1R_2R_6}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_1C_4R_1R_2R_3R_5 - C_1C_5R_1R_2R_3R_5\right) + s\left(-C_1R_1R_2R_3 + C_1R_1R_2R_5 + C_1R_1R_3R_5 + C_4R_2R_3R_5 - C_5R_2R_3R_5\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{-\sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{4}-C_{5}}-\frac{R_{2}R_{3}}{C_{4}-C_{5}}+\frac{R_{2}R_{5}}{C_{4}-C_{5}}+\frac{R_{3}R_{5}}{C_{4}-C_{5}}+\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{4}-C_{5}}-\frac{R_{2}R_{3}}{C_{4}-C_{5}}+\frac{R_{3}R_{5}}{C_{4}-C_{5}}}}\\ \text{Wo:} \ \frac{1}{\sqrt{\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{1}C_{4}R_{1}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{5}}}}\\ \text{bandwidth:} \ \frac{\sqrt{\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{1}C_{4}R_{1}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{5}}}}{\sqrt{\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{4}-C_{5}}R_{5}+R_{2}R_{3}R_{5}}}}(C_{1}R_{1}R_{2}R_{3}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{3}R_{5}-C_{4}R_{2}R_{3}R_{5}+C_{5}R_{2}R_{3}R_{5}}})\\ \text{bandwidth:} \ \frac{\sqrt{\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{1}C_{4}R_{1}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{5}}}}{-\sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{4}-C_{5}}}-\frac{R_{2}R_{3}}{C_{4}-C_{5}}}+\frac{R_{2}R_{5}}{C_{4}-C_{5}}}}(C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{3}R_{5}-C_{1}R_{1}R_{3}R_{5}-C_{4}R_{2}R_{3}R_{5}}+C_{5}R_{2}R_{3}R_{5}})\\ \text{bandwidth:} \ \frac{\sqrt{\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{4}-C_{5}}-\frac{R_{2}R_{3}}{C_{4}-C_{5}}+\frac{R_{2}R_{5}}{C_{4}-C_{5}}}}{-\frac{R_{2}R_{3}}{C_{4}-C_{5}}+\frac{R_{2}R_{5}}{C_{4}-C_{5}}+\frac{R_{3}R_{5}}{C_{4}-C_{5}}}+\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{4}-C_{5}}}-\frac{R_{2}R_{3}}{C_{4}-C_{5}}+\frac{R_{3}R_{5}}{C_{4}-C_{5}}}}\\ \text{K-LP:} \ \frac{R_{1}R_{2}R_{6}}{R_{1}R_{2}R_{5}+R_{3}R_{5}}{R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}}{C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{3}R_{5}-C_{4}R_{2}R_{3}R_{5}+C_{5}R_{2}R_{3}R_{5}}}\\ \text{Qz:} \ \text{None} \ \text{Wz:} \ \text{None} \ \ \end{array}$$

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9.350 X-INVALID-NUMER-350 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
```

 $C_4R_1R_2R_4R_6s + R_1R_2R_6$ $H(s) = \frac{c_4R_1R_2R_4R_5 + R_1R_2R_5}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(-C_1C_4R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_5 + C_1C_4R_1R_2R_4R_5 + C_1C_4R_1R_2R_3 + C_1R_1R_2R_5 + C_1R_1R_3R_5 + C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_4R_5 + C_4R_3R_4R_5\right)}$

Parameters:

 $Q: \frac{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}R_2R_3R_4\sqrt{\frac{R_1R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{R_1}R_2R_3R_4\sqrt{\frac{R_1R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_4}\sqrt{R_1}R_2R_3R_5\sqrt{\frac{R_1R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{R_1}R_2R_3R_5\sqrt{\frac{R_1R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_4}\sqrt{R_1}R_2R_3R_5\sqrt{\frac{R_1R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_4}\sqrt{R_1}R_2R_3R_5+\frac{R_2R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_1}\sqrt{R_1}R_2R_3R_5+\frac{R_2R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_1}\sqrt{R_1}R_2R_3R_5+\frac{R_2R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_1}\sqrt{R_1}R_2R_3R_5+\frac{R_2R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{R_1}R_2R_3R_5+\frac{R_2R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_1}\sqrt{R_1}R_2R_3R_5+\frac{R_2R_5}{-R_2R_3R_4+R_2R_$

K-BP: $-\frac{C_4R_1R_2R_4R_6}{C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_3R_5-C_4R_1R_4R_5+C_4R_2R_3R_4-C_4R_2R_3R_5-C_4R_2R_4R_5-C_4R_3R_4R_5}$ Qz: None

Wz: None

9.351 X-INVALID-NUMER-351 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4$ $H(s) = \frac{C_{6}R_{1}R_{4} + C_{6}R_{2}R_{3} + C_{6}R_{2}R_{4} + C_{6}R_{3}R_{4} + s^{2}\left(C_{1}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4} - C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}\right) + s\left(C_{1}C_{6}R_{1}R_{2}R_{3} + C_{1}C_{6}R_{1}R_{2}R_{4} + C_{1}C_{6}R_{1}R_{3}R_{4} + C_{4}C_{6}R_{2}R_{3}R_{4} - C_{5}C_{6}R_{2}R_{3}R_{4}\right)}$

Parameters:

 $Q: \frac{\sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}\sqrt{\frac{1}{C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_4R_2R_3R_4-C_5R_2R_3R_4}}$ wo: $\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_4-C_5}}$ $\text{bandwidth: } \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4)\sqrt{\frac{1}{C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}}{\sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_4 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_4 - C_5}}}$ K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: 0K-BP: $\frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_4R_2R_3R_4-C_5R_2R_3R_4}$ Qz: None

Wz: None

9.352 X-INVALID-NUMER-352 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $C_5 R_1 R_2 R_4 R_5 R_6 s + R_1 R_2 R_4 R_6$ $H(s) = \frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + S^2\left(C_1C_4R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_$

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Parameters:

Wz: None

 $\text{wo: } \sqrt{\frac{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{C_1C_4R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4R_5}} \\ \text{bandwidth: } \frac{\sqrt{\frac{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{C_1C_4R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4}} (C_1R_1R_2R_3R_4 - C_1R_1R_2R_3R_5 - C_1R_1R_2R_4R_5 - C_1R_1R_3R_4R_5 - C_4R_2R_3R_4R_5 + C_5R_2R_3R_4R_5)}{-\sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_4 - C_5} - \frac{R_2R_3R_5}{C_4 - C_5} + \frac{R_2R_3R_5}{C_4 - C_5} + \frac{R_2R_4R_5}{C_4 - C_5} + \frac{R_2R_4R$ K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0 K-BP: $-\frac{C_5R_1R_2R_4R_5R_6}{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_4R_2R_3R_4R_5+C_5R_2R_3R_4R_5}$ Qz: None

9.353 X-INVALID-NUMER-353
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{C_1C_3C_6R_1R_2R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_1R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5$$

 $\begin{array}{l} Q\colon -\frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_2}R_4+R_2R_5+R_4R_5}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}\\ \text{wo: } \frac{\sqrt{-R_2}R_4+R_2R_5+R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}\\ \text{bandwidth: } -\frac{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}{C_1C_3R_1R_2R_4R_5}\\ \text{K-LP: } -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}\\ \text{K-HP: 0}\\ \text{K-BP: } -\frac{C_3R_1R_2R_4}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_2R_4R_5}\\ \text{Qz: None} \end{array}$

9.354 X-INVALID-NUMER-354 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_1C_3C_6R_1R_2R_4 - C_1C_5C_6R_1R_2R_4\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

Parameters:

Wz: None

 $Q\colon \frac{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3-C_5}}}{C_1R_1R_2+C_1R_1R_4+C_3R_1R_4+C_3R_2R_4-C_5R_2R_4}\\ \text{wo: } \sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_3R_1R_2R_4-C_1C_5R_1R_2R_4}}\\ \text{bandwidth: } \frac{\sqrt{R_2+R_4}(C_1R_1R_2+C_1R_1R_4+C_3R_1R_4+C_3R_2R_4-C_5R_2R_4)\sqrt{\frac{1}{C_1C_3R_1R_2R_4-C_1C_5R_1R_2R_4}}}{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3-C_5}}}\\ \text{K-LP: 0}\\ \text{K-HP: } \frac{C_3C_5R_6}{C_1C_3-C_1C_5}\\ \text{K-BP: } \frac{C_3C_5R_1R_2R_4}{C_1C_6R_1R_2+C_1C_6R_1R_4+C_3C_6R_2R_4-C_5C_6R_2R_4}}\\ \text{Qz: None}\\ \text{Wz: None}$

9.355 X-INVALID-NUMER-355 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_1C_3R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5\right) + s\left(-C_1R_1R_2R_4 + C_1R_1R_2R_5 + C_1R_1R_4R_5 + C_3R_1R_4R_5 + C_3R_2R_4R_5 - C_5R_2R_4R_5\right)}$$

Parameters:

 $Q\colon \frac{-\sqrt{C_{1}}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{3}-C_{5}}} + \frac{R_{2}R_{5}}{C_{3}-C_{5}} + \frac{R_{4}R_{5}}{C_{3}-C_{5}}} + \sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{3}-C_{5}}} + \frac{R_{4}R_{5}}{C_{3}-C_{5}}}}{\frac{C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}+C_{5}R_{2}R_{4}R_{5}}}{C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}}}$ $\text{bandwidth:} \frac{\sqrt{\frac{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}}}}{\sqrt{C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}}}} (C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}+C_{5}R_{2}R_{4}R_{5}}}$ $\text{bandwidth:} \frac{\sqrt{\frac{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}}}}{\sqrt{C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}}} (C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}-C$

9.356 X-INVALID-NUMER-356 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_3C_6R_1R_2R_4R_5 - C_1C_5C_6R_1R_2R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5\right)}$$

```
Q\colon \frac{-\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}\sqrt{-\frac{R_2R_4}{C_3-C_5}+\frac{R_2R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}}{C_1R_1R_2R_4-C_1R_1R_2}+\frac{R_2R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}+\sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}\sqrt{-\frac{R_2R_4}{C_3-C_5}+\frac{R_2R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}}}{V\circ \cdot \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_5R_1R_2R_4R_5}}}}
bandwidth: \frac{\sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_3R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5}}}{\sqrt{C_1C_3R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5}}(C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5+C_5R_2R_4R_5)}}{-\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3-C_5}+\frac{R_2R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}}}+\sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}}}
K-LP: -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}}{C_1C_6R_1R_2R_5-C_1C_6R_1R_4R_5-C_3C_6R_1R_4R_5-C_3C_6R_2R_4R_5+C_5C_6R_2R_4R_5}}
K-BP: -\frac{C_3C_5R_1R_2R_4R_5}{C_1C_6R_1R_2R_4-C_1C_6R_1R_4R_5-C_3C_6R_1R_4R_5-C_3C_6R_2R_4R_5+C_5C_6R_2R_4R_5}}{C_2: None}
Wz: None
```

9.357 X-INVALID-NUMER-357 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_6s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^2\left(C_1C_3C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_5\right) + s\left(-C_1C_6R_1R_2 + C_1C_6R_1R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5\right)}$$

Parameters:

 $\begin{array}{l} Q\colon -\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{-R_2+R_5}}{C_1R_1R_2-C_1R_1R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5}\\ \text{wo: } \frac{\sqrt{-R_2+R_5}}{\sqrt{C_1C_3}R_1R_2R_5+C_1C_4R_1R_2R_5}\\ \text{bandwidth: } -\frac{C_1R_1R_2-C_1R_1R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{C_1C_3}R_1R_2R_5+C_1C_4R_1R_2R_5}\\ \text{K-LP: } -\frac{C_3R_1R_2}{C_6R_2-C_6R_5}\\ \text{K-HP: 0}\\ \text{K-BP: } -\frac{C_3R_1R_2}{C_1R_1R_2-C_1R_1R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5}\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$

9.358 X-INVALID-NUMER-358 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_6 + s^2\left(C_1C_3C_6R_1R_2 + C_1C_4C_6R_1R_2 - C_1C_5C_6R_1R_2\right) + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{\frac{1}{C_3+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_1+C_3R_1+C_3R_2+C_4R_2-C_5R_2} \\ \text{wo: } \sqrt{\frac{1}{C_1C_3R_1R_2+C_1C_4R_1R_2-C_1C_5R_1R_2}} \\ \text{bandwidth: } \frac{(C_1R_1+C_3R_1+C_3R_2+C_4R_2-C_5R_2)\sqrt{\frac{1}{C_1C_3R_1R_2+C_1C_4R_1R_2-C_1C_5R_1R_2}}}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}}\sqrt{\frac{1}{C_3+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{\frac{1}{C_3+C_4-C_5}}}} \\ \text{K-LP: 0} \\ \text{K-HP: } \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5} \\ \text{K-BP: } \frac{C_3C_5R_6}{C_1C_6R_1+C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}}{C_1C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} \\ \text{Qz: None} \\ \text{Wz: None}$$

9.359 X-INVALID-NUMER-359 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^2\left(C_1C_3R_1R_2R_5 + C_1C_4R_1R_2R_5 - C_1C_5R_1R_2R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5 - C_5R_2R_5\right)}$$

$$Q\colon \frac{-\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} - \sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}}{\frac{C_{1}R_{1}R_{2}-C_{1}R_{1}R_{5}-C_{3}R_{1}R_{5}-C_{3}R_{2}R_{5}-C_{4}R_{2}R_{5}+C_{5}R_{2}R_{5}}{\frac{C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{5}}{\frac{R_{2}R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{5}}}}} \\ \text{bandwidth:} \frac{\sqrt{\frac{-R_{2}+R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{5}}}{\frac{-R_{2}+R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{5}}}{\frac{-R_{2}+R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{5}}{\frac{-R_{2}+R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}}}}} \\ \text{bandwidth:} \frac{\sqrt{\frac{-R_{2}+R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{5}}}{\frac{-R_{2}+R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}}}}} \\ \text{C}_{1}R_{1}R_{2}-C_{1}R_{1}R_{5}-C_{3}R_{1}R_{5}-C_{3}R_{1}R_{5}-C_{3}R_{2}R_{5}-C_{4}R_{2}R_{5}+C_{5}R_{2}R_{5}}}{\frac{-R_{2}+R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}}}{\frac{-R_{2}+R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}}{\frac{-R_{2}+R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}}}}} \\ \text{K-LP: 0}$$

K-HP: $\frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}$

K-BP: $-\frac{C_{1}R_{1}R_{2}-C_{1}C_{5}}{C_{1}R_{1}R_{2}-C_{1}R_{1}R_{5}-C_{3}R_{1}R_{5}-C_{3}R_{2}R_{5}-C_{4}R_{2}R_{5}+C_{5}R_{2}R_{5}}{C_{1}R_{1}R_{2}-C_{1}R_{1}R_{5}-C_{3}R_{1}R_{5}-C_{3}R_{2}R_{5}-C_{4}R_{2}R_{5}+C_{5}R_{2}R_{5}}$

Qz: None Wz: None

9.360 X-INVALID-NUMER-360 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_5s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^2\left(C_1C_3C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_5 - C_1C_5C_6R_1R_2R_5\right) + s\left(-C_1C_6R_1R_2 + C_1C_6R_1R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5 - C_5C_6R_2R_5\right)}$

Parameters:

 $\text{bandwidth: } \frac{\sqrt{\frac{-R_2+R_5}{C_1C_3R_1R_2R_5+C_1C_4R_1R_2}R_5 - C_1C_5R_1R_2R_5}}{\sqrt{\frac{-R_2+R_5}{C_1C_3R_1R_2R_5+C_1C_4R_1R_2}R_5 - C_1C_5R_1R_2R_5}} (C_1R_1R_2 - C_1R_1R_5 - C_3R_1R_5 - C_3R_2R_5 - C_4R_2R_5 + C_5R_2R_5)}{-\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_3+C_4-C_5}} + \frac{R_5}{C_3+C_4-C_5}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_3+C_4-C_5}} + \frac{R_5}{C_3+C_4-C_5}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_3+C_4-C_5}} + \frac{R_5}{C_3+C_4-C_5}}$

K-HP: 0

K-BP: $-\frac{C_3C_5R_1R_2R_5}{C_1C_6R_1R_2-C_1C_6R_1R_5-C_3C_6R_1R_5-C_3C_6R_2R_5-C_4C_6R_2R_5+C_5C_6R_2R_5}$ Qz: None

Wz: None

9.361 X-INVALID-NUMER-361 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_3C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_4C_6R_2R_4R_5\right)}$

Parameters:

Q: $-\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_1C_2R_2R_3R_3R_3R_4+R_2R_5+R_4R_5}}$

wo: $\frac{\sqrt{-R_2R_4 + R_2R_5 + R_4R_5}}{\sqrt{C_1C_3R_1R_2R_4R_5 + C_1C_4R_1R_2R_4R_5}}$ bandwidth: $-\frac{C_1R_1R_2R_4 - C_1R_1R_2R_5 - C_1R_1R_4R_5 - C_3R_1R_4R_5 - C_3R_2R_4R_5}{\sqrt{C_1\sqrt{R_1\sqrt{R_2\sqrt{R_4\sqrt{R_5\sqrt{C_3+C_4\sqrt{C_1C_3R_1R_2R_4R_5} + C_1C_4R}}}}}$ K-LP: $-\frac{C_3R_1R_2R_4}{C_6R_2R_4 - C_6R_2R_5 - C_6R_4R_5}$

 $\text{K-BP:} - \frac{C_3 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_4 - C_1 R_1 R_2 R_5 - C_1 R_1 R_4 R_5 - C_3 R_1 R_4 R_5 - C_3 R_2 R_4 R_5 - C_4 R_2 R_4 R_5}$

Qz: None Wz: None

9.362 X-INVALID-NUMER-362 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s$ $H(s) = \frac{C_3C_5C_6R_1R_2R_4C_6S_7 + C_3C_5R_1R_2R_4C_6S_7 + C_3C_5R_1R_2R_4C_5R_5R_5C_5R_5R_5C_5R_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5R_5C_5R_5C_5R_5R_5C_5R_5C_5R_5R_5C_5R_5C_5R_5C_5R_5C_5R_5C_5R_5R_5C_5R$

Parameters:

 $Q: \frac{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_1R_2+C_1R_1R_4+C_3R_1R_4+C_3R_2R_4+C_4R_2R_4-C_5R_2R_4}$

 $\sqrt{R_2 + R_4} (C_1 R_1 R_2 + C_1 R_1 R_4 + C_3 R_1 R_4 + C_3 R_2 R_4 + C_4 R_2 R_4 - C_5 R_2 R_4) \sqrt{\frac{1}{C_1 C_3 R_1 R_2 R_4 + C_1 C_4 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4}}$ bandwidth: $\frac{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}$

K-LP: 0

K-HP: $\frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}$

K-BP: $\frac{C_3C_5R_1R_2R_4}{C_1C_6R_1R_2+C_1C_6R_1R_4+C_3C_6R_1R_4+C_3C_6R_2R_4+C_4C_6R_2R_4-C_5C_6R_2R_4}$ Qz: None

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9.363 X-INVALID-NUMER-363 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
```

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_1C_3R_1R_2R_4R_5 + C_1C_4R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5\right) + s\left(-C_1R_1R_2R_4 + C_1R_1R_2R_5 + C_1R_1R_4R_5 + C_3R_1R_4R_5 + C_3R_2R_4R_5 + C_4R_2R_4R_5 - C_5R_2R_4R_5\right)}$$

```
\frac{-\frac{R_2R_4+R_2R_5+R_4R_5}{C_1C_3R_1R_2R_4+R_5+C_1C_4R_1R_2R_4+R_5-C_1C_5R_1R_2R_4R_5}}{-\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_5}+\frac{R_2R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}-\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac{R_4R_5}{C_3+C_4-C_5}+\frac
 K-LP: 0
K-HP: \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}
\text{K-BP:} - \frac{C_3 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_4 - C_1 R_1 R_2 R_5 - C_1 R_1 R_4 R_5 - C_3 R_1 R_4 R_5 - C_3 R_2 R_4 R_5 - C_4 R_2 R_4 R_5 + C_5 R_2 R_4 R_5}
Wz: None
```

9.364 X-INVALID-NUMER-364 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4$ $H(s) = \frac{1}{-C_{6}R_{2}R_{4} + C_{6}R_{2}R_{5} + C_{6}R_{4}R_{5} + s^{2}\left(C_{1}C_{3}C_{6}R_{1}R_{2}R_{4}R_{5} + C_{1}C_{6}R_{1}R_{2}R_{4}R_{5} + C_{1}C_{6}R_{1}R_{2}R_{4}R_{5} + C_{1}C_{6}R_{1}R_{2}R_{4} + C_{1}C_{6}R_{1}R_{2}R_{4} + C_{1}C_{6}R_{1}R_{2}R_{4} + C_{1}C_{6}R_{1}R_{2}R_{4} + C_{1}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{6}R_{1}R_{4}R_{5} + C_{3}C_{6}R_{1}R_{4}R_{5} + C_{3}C_{6}R_{2}R_{4}R_{5} + C_{4}C_{6}R_{2}R_{4}R_{5} + C_{5}C_{6}R_{2}R_{4}R_{5} + C_{5}C_{6}R_{2}R_{$

Parameters:

```
wo: \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_3R_1R_2R_4R_5+C_1C_4R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5}}
                                                                                    \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_3R_1R_2R_4R_5+C_1C_4R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5}}(C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5-C_4R_2R_4R_5+C_5R_2R_4R_5)
\frac{\sqrt{C_1C_3R_1R_2R_4R_5 + C_1C_4R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5}}{-\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3 + C_4 - C_5}} + \frac{R_2R_5}{C_3 + C_4 - C_5}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3 + C_4 - C_5}} + \frac{R_4R_5}{C_3 + C_4 - C_5}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3 + C_4 - C_5}} + \frac{R_2R_5}{C_3 + C_4 - C_5}} + \frac{R_4R_5}{C_3 + C_4 - C_5}}
\begin{array}{l} \text{K-LP:} -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5} \\ \text{K-HP:} \ 0 \end{array}
K-BP: -\frac{C_3C_5R_1R_2R_4R_5}{C_1C_6R_1R_2R_4-C_1C_6R_1R_2R_5-C_1C_6R_1R_4R_5-C_3C_6R_1R_4R_5-C_3C_6R_2R_4R_5-C_4C_6R_2R_4R_5+C_5C_6R_2R_4R_5} Qz: None
Wz: None
```

9.365 X-INVALID-NUMER-365 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4$ $\overline{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(-C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_3R_3R_5 + C_3C_6R_3R_3R_5$

Parameters:

```
Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_4\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_2R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} - \sqrt{C_1}\sqrt{C_3}\sqrt{R_1}R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R_5}{-R_2R_3R_4+R_2R_3R_5} + \frac{R_4R
 wo: \sqrt{\frac{R_2R_4 - R_2R_5 - R_4R_5}{C_1C_3R_1R_2R_3R_4 - C_1C_3R_1R_2R_3R_5 - C_1C_3R_1R_2R_4R_5 - C_1C_3R_1R_3R_4R_5}}
                                                                                             \overline{\sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{4}\sqrt{-\frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} + \frac{R_{2}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}} + \frac{R_{4}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5}} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5} + \frac{R_{2}R_{4}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}\sqrt{R_{1}}R_{2}R_{3}R_{5}} + \frac{R_{2}R_{3}}{-R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}R_{3}R_{5} + \frac{R_{2}R_{3}}{-R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}R_{3}R_{5} + \frac{R_{2}R_{3}}{-R_{1}}R_{5} + \frac{R_{2}R_{3}}{-R_{1}}R_{5} + \frac{R_{2}R_{3}}{-R_{1}}R_{5} + \frac{R_{2}
  K-HP: 0
K-BP: -\frac{C_3R_1R_2R_4R_6}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5+C_3R_2R_3R_4-C_3R_2R_3R_5-C_3R_2R_4R_5-C_3R_3R_4R_5} Qz: None
```

9.366 X-INVALID-NUMER-366
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6}{C_1C_3R_1R_2R_3R_4R_5s^2 + R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s\left(-C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_4R_5 + C_1R_1R_3R_4R_5 + C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5\right)}$$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0

Wz: None

9.367 X-INVALID-NUMER-367 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4\right) + s\left(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}\sqrt{\frac{1}{C_3-C_5}}}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_3R_1R_3R_4+C_3R_2R_3R_4-C_5R_2R_3R_4}$$

 $Q\colon \frac{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}-C_{5}}}}{C_{1}R_{1}R_{2}R_{3}+C_{1}R_{1}R_{2}R_{4}+C_{1}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}-C_{5}R_{2}R_{3}R_{4}}\\ \text{wo: } \sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}}}\\ \text{bandwidth: } \frac{\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}}}{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}}}\\ \text{bandwidth: } \frac{\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{3}-R_{1}R_{2}R_{3}R_{4}}-C_{5}R_{2}R_{3}R_{4}}-C_{5}R_{2}R_{3}R_{4}}}{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}}}\sqrt{\frac{1}{C_{3}-C_{5}}}}$

K-LP: 0

K-HP: $\frac{C_3C_5R_6}{C_1C_3-C_1C_5}$

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_3R_1R_3R_4+C_3R_2R_3R_4-C_5R_2R_3R_4}$ Qz: None

Wz: None

9.368 X-INVALID-NUMER-368 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_3C_6R_1R_2R_3R_4 - C_1C_5C_6R_1R_2R_3R_4\right) + s\left(C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}{C_3-C_5} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1}R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3-C_5}}}{C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4}} \\ \text{wo: } \sqrt{R_1R_4 + R_2R_3} + R_2R_4 + R_3R_4\sqrt{\frac{1}{C_1C_3R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}} \\ \text{bandwidth: } \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_1C_3R_1R_2R_3 + C_1C_5R_1R_2R_3R_4}}}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}}\sqrt{\frac{1}{C_3-C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}}\sqrt{\frac{1}{C_3-C_5}}} \\ \text{c. } R_1R_2R_3$$

wo:
$$\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_3R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}$$

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_3R_4}{C_1C_6R_1R_2R_3+C_1C_6R_1R_2R_4+C_1C_6R_1R_3R_4+C_3C_6R_1R_3R_4+C_3C_6R_2R_3R_4-C_5C_6R_2R_3R_4}$ Qz: None

Wz: None

9.369 X-INVALID-NUMER-369
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3R_1R_2R_3R_6s + R_1R_2R_6}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5\right) + s\left(-C_1R_1R_2R_3 + C_1R_1R_2R_5 + C_1R_1R_3R_5 + C_3R_1R_3R_5 + C_3R_2R_3R_5 + C_4R_2R_3R_5\right)}$$

```
 \begin{array}{c} & \frac{1}{\sqrt{1-C_3}\sqrt{1-C_3}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_3}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_3}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_3}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_3}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_3}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_3}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_3}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_3}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}} \frac{1}{\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1-C_4}\sqrt{1
                   K-BP: -\frac{C_3R_1R_2R_3R_6}{C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_3R_5-C_3R_1R_3R_5-C_3R_2R_3R_5-C_4R_2R_3R_5} Qz: None
                     Wz: None
9.370 X-INVALID-NUMER-370 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                  H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^2\left(C_1C_3R_1R_2R_3 + C_1C_4R_1R_2R_3 - C_1C_5R_1R_2R_3\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 - C_5R_2R_3\right)}
         Parameters:
                         Q \colon \frac{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_1R_2+C_1R_1R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}
                   \text{wo: } \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_1 C_3 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3}} \\ \text{bandwidth: } \frac{\sqrt{R_1 + R_2 + R_3} (C_1 R_1 R_2 + C_1 R_1 R_3 + C_3 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3) \sqrt{\frac{1}{C_1 C_3 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3}}}{\sqrt{C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} - \sqrt{C_1 C_5 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \frac{1}{\sqrt{C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} - \sqrt{C_1 C_5 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \frac{1}{\sqrt{C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} \\ \frac{1}{\sqrt{C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} \\ \frac{1}{\sqrt{C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} \\ \frac{1}{\sqrt{C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} \\ \frac{1}{\sqrt{C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} \\ \frac{1}{\sqrt{C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1 C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}}} 
                  K-HP: \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5} K-BP: \frac{C_5R_1R_2R_6}{C_1R_1R_2+C_1R_1R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3} Qz: None
                     Wz: None
9.371 X-INVALID-NUMER-371 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_3C_5R_1R_2R_3s + C_5R_1R_2
                                                                                                                                                                                                                                                                      H(s) = \frac{C_3C_5R_1R_2R_3s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_1C_3C_6R_1R_2R_3 + C_1C_4C_6R_1R_2R_3 - C_1C_5C_6R_1R_2R_3\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_3 + C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_4C_6R_2R_3 - C_5C_6R_2R_3\right)}
           Parameters:
                  Q \colon \frac{\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_1R_2+C_1R_1R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}\\ \text{wo: } \sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_3R_1R_2R_3+C_1C_4R_1R_2R_3-C_1C_5R_1R_2R_3}}\\ \text{bandwidth: } \frac{\sqrt{R_1+R_2+R_3}(C_1R_1R_2+C_1R_1R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3)\sqrt{\frac{1}{C_1C_3R_1R_2R_3+C_1C_4R_1R_2R_3-C_1C_5R_1R_2R_3}}}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}\\ \text{bandwidth: } \frac{C_1R_1R_2}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}\\ \text{bandwidth: } \frac{C_1R_1R_2}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}\\ \text{bandwidth: } \frac{C_1R_1R_2}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}\\ \text{bandwidth: } \frac{C_1R_1R_2}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}} + \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}} - \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3+C_4-C_5}}}
                   K-LP: \frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}
K-HP: 0
                     K-BP: \frac{C_3C_5R_1R_2R_3}{C_1C_6R_1R_2+C_1C_6R_1R_3+C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3-C_5C_6R_2R_3} Qz: None
                      Wz: None
9.372 X-INVALID-NUMER-372 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6
                                                                                          H(s) = \frac{C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s^2\left(C_1C_3R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_4 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_3R_4 +
         Parameters:
                 \begin{array}{l} Q\colon -\frac{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_3R_1R_3R_4R_5-C_3R_2R_3R_4R_5-C_4R_2R_3R_4+R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}\\ wo: & \frac{\sqrt{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_1C_3R_1R_2R_3R_4R_5+C_1C_4R_1R_3R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_3R_1R_3R_4R_5-C_3R_2R_3R_4R_5-C_4R_2R_3R_4R_5}}\\ bandwidth: & -\frac{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_3R_1R_3R_4R_5-C_3R_2R_3R_4R_5-C_4R_2R_3R_4R_5}}{\sqrt{C_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3+C_4}\sqrt{C_1C_3R_1R_2R_3R_4R_5+C_1C_4R_1R_2R_3R_4R_5}}}\\ K\text{-LP:} & \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}\\ K\text{-HP:} & 0 \end{array}
                    \text{K-BP:} - \frac{C_3 R_1 R_2 R_3 R_4 R_6}{C_1 R_1 R_2 R_3 R_4 - C_1 R_1 R_2 R_3 R_5 - C_1 R_1 R_2 R_4 R_5 - C_1 R_1 R_3 R_4 R_5 - C_3 R_1 R_3 R_4 R_5 - C_3 R_2 R_3 R_4 R_5 - C_4 R_2 R_3 R_4 R_5}
```

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Qz: None
Wz: None
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9.373 X-INVALID-NUMER-373 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4\right) + s\left(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4\right)}$

Parameters:

 $Q: \frac{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}} + \sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}} - \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}{\frac{C_{1}R_{1}R_{2}R_{3}+C_{1}R_{1}R_{2}R_{4}+C_{1}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{2}R_{3}R_{4}-C_{5}R_{2}R_{3}R_{4}}{\sqrt{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{4}R_{1}R_{2}R_{3}+C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}}}}}}$ $\text{wo: } \sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}}{\sqrt{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}}}}}}$ $\text{bandwidth: } \frac{\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}}{\sqrt{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}}}}}}{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}} + \sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}}}$

K-LP: 0

K-HP: $\frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}$

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_3R_1R_3R_4+C_3R_2R_3R_4+C_4R_2R_3R_4-C_5R_2R_3R_4} \\ \text{Qz: None}$

Wz: None

9.374 X-INVALID-NUMER-374 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_3C_6R_1R_2R_3R_4 + C_1C_6C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$

Parameters:

 $Q \colon \frac{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}} + \sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}} - \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}{C_{1}R_{1}R_{2}R_{4}+C_{1}R_{1}R_{2}R_{4}+C_{1}R_{1}R_{3}R_{4}+C_{3}R_{2}R_{3}R_{4}+C_{4}R_{2}R_{3}R_{4}-C_{5}R_{2}R_{3}R_{4}}$

 $\text{wo: } \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} (C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4) \sqrt{\frac{1}{C_1C_3R_1R_2R_3R_4 + C_1C_5R_1R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}} \sqrt{\frac{1}{C_3 + C_4 - C_5}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{$

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_1R_2R_3R_4}{C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 - C_5C_6R_2R_3R_4}$

Qz: None Wz: None

9.375 X-INVALID-NUMER-375 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_4R_6s + C_5R_1R_4}{C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_3R_4 - C_1C_5C_6R_1R_3R_4\right) + s\left(C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_3R_4 - C_5C_6R_3R_4\right)}$

Parameters:

$$Q: \frac{\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2-C_5}}-\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_2-C_5}}}{\underbrace{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4-C_5R_3R_4}}$$

wo: $\sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4}}$ bandwidth: $\frac{\sqrt{R_3 + R_4} (C_1 R_1 R_3 + C_1 R_1 R_4 + C_2 R_1 R_4 + C_2 R_3 R_4 - C_5 R_3 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4}}}{\sqrt{C_1} C_2 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_2 - C_5}} - \sqrt{C_1} C_5 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_2 - C_5}}}$

K-LP: $\frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}$ K-HP: 0

K-BP: $\frac{C_5R_1R_4R_6}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4-C_5R_3R_4}$ Qz: None

9.376 X-INVALID-NUMER-376
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_4 R_5 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(C_1 C_2 R_1 R_3 R_4 R_5 - C_1 C_5 R_1 R_3 R_4 R_5\right) + s \left(-C_1 R_1 R_3 R_4 + C_1 R_1 R_3 R_5 + C_1 R_1 R_4 R_5 + C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 - C_5 R_3 R_4 R_5\right)}$$

$$Q\colon \frac{-\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3R_4}{C_2-C_5}+\frac{R_3R_5}{C_2-C_5}+\frac{R_4R_5}{C_2-C_5}}}{C_1R_1R_3R_4-C_1R_1R_3}R_5-C_1R_1R_4R_5-C_2R_1R_4R_5-C_2R_3R_4R_5+C_5R_3R_4R_5}$$

$$\text{Wo: } \sqrt{\frac{-R_3R_4+R_3R_5+R_4R_5}{C_1C_2R_1R_3R_4R_5-C_1C_5R_1R_3R_4R_5}}}$$

$$\text{bandwidth: } \frac{\sqrt{\frac{-R_3R_4+R_3R_5+R_4R_5}{C_1C_2R_1R_3R_4R_5-C_1C_5R_1R_3R_4R_5}}(C_1R_1R_3R_4-C_1R_1R_3R_5-C_1R_1R_4R_5-C_2R_1R_4R_5-C_2R_3R_4R_5+C_5R_3R_4R_5)}{-\sqrt{C_1}C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3R_4}{C_2-C_5}+\frac{R_3R_5}{C_2-C_5}}}} \\ \text{K-LP: } -\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}}{R_1R_3R_4-C_1R_1R_3R_5-C_1R_1R_4R_5-C_2R_3R_4R_5+C_5R_3R_4R_5}}$$

$$\text{K-HP: 0}$$

$$\text{K-BP: } -\frac{C_5R_1R_4R_5R_6}{C_1R_1R_3R_4-C_1R_1R_3R_5-C_2R_1R_4R_5-C_2R_3R_4R_5+C_5R_3R_4R_5}}{C_1R_1R_4R_5-C_2R_1R_4R_5-C_2R_3R_4R_5+C_5R_3R_4R_5}}$$

9.377 X-INVALID-NUMER-377 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_1R_6s + C_5R_1}{C_6 + s^2\left(C_1C_2C_6R_1R_3 + C_1C_4C_6R_1R_3 - C_1C_5C_6R_1R_3\right) + s\left(C_1C_6R_1 + C_2C_6R_1 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$$

Parameters:

$$Q\colon \frac{\sqrt{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}{C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}\\ \text{Wo: } \sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{3}+C_{1}C_{4}R_{1}R_{3}-C_{1}C_{5}R_{1}R_{3}}}\\ \text{bandwidth: } \frac{(C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3})\sqrt{\frac{1}{C_{1}C_{2}R_{1}R_{3}+C_{1}C_{4}R_{1}R_{3}-C_{1}C_{5}R_{1}R_{3}}}}{\sqrt{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}\\ \text{K-LP: } \frac{C_{5}R_{1}}{C_{6}}\\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_{5}R_{1}R_{6}}{C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}\\ \text{Qz: None} \\ \text{Wz: None}$$

9.378 X-INVALID-NUMER-378 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_5 R_6 s + R_1 R_6}{-R_3 + R_5 + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 - C_1 C_5 R_1 R_3 R_5\right) + s \left(-C_1 R_1 R_3 + C_1 R_1 R_5 + C_2 R_1 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_5 R_3 R_5\right)}$$

$$Q\colon \frac{-\sqrt{C_{1}}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{2}+C_{4}-C_{5}}}+\frac{R_{5}}{C_{2}+C_{4}-C_{5}}-\sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{2}+C_{4}-C_{5}}}+\frac{R_{5}}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{2}+C_{4}-C_{5}}}+\frac{R_{5}}{C_{2}+C_{4}-C_{5}}}}{\frac{C_{1}}{R_{1}}R_{3}-C_{1}R_{1}R_{5}-C_{2}R_{1}R_{5}-C_{2}R_{3}R_{5}-C_{4}R_{3}R_{5}+C_{5}R_{3}R_{5}}}$$
wo:
$$\sqrt{\frac{-R_{3}+R_{5}}{C_{1}C_{2}R_{1}R_{3}R_{5}+C_{1}C_{5}R_{1}R_{3}R_{5}}}{\sqrt{\frac{C_{1}C_{2}R_{1}R_{3}R_{5}-C_{1}C_{5}R_{1}R_{3}R_{5}}{C_{2}+C_{4}R_{1}R_{3}}}}}(C_{1}R_{1}R_{3}-C_{1}R_{1}R_{5}-C_{2}R_{1}R_{5}-C_{2}R_{3}R_{5}-C_{4}R_{3}R_{5}+C_{5}R_{3}R_{5}}})$$
bandwidth:
$$\frac{\sqrt{\frac{C_{1}C_{2}R_{1}R_{3}R_{5}-C_{1}C_{5}R_{1}R_{3}R_{5}}{C_{2}+C_{4}R_{1}R_{3}R_{5}-C_{1}C_{5}R_{1}R_{3}R_{5}}}(C_{1}R_{1}R_{3}-C_{1}R_{1}R_{5}-C_{2}R_{1}R_{5}-C_{2}R_{3}R_{5}-C_{4}R_{3}R_{5}+C_{5}R_{3}R_{5}})}{-\sqrt{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{2}+C_{4}-C_{5}}}+\frac{R_{5}}{C_{2}+C_{4}-C_{5}}}}-\sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{2}+C_{4}-C_{5}}}+\frac{R_{5}}{C_{2}+C_{4}-C_{5}}}}}$$

$$K-LP: -\frac{R_{1}R_{6}}{R_{3}-R_{5}}}{K-HP: 0}$$

$$K-BP: -\frac{C_{5}R_{1}R_{5}R_{6}}{C_{1}R_{1}R_{5}-C_{2}R_{1}R_{5}-C_{2}R_{3}R_{5}-C_{4}R_{3}R_{5}+C_{5}R_{3}R_{5}}}{C_{1}R_{3}R_{5}-C_{4}R_{3}R_{5}+C_{5}R_{3}R_{5}}}$$

$$Qz: None$$

$$Wz: None$$

9.379 X-INVALID-NUMER-379
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_1R_4R_6s + C_5R_1R_4}{C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_3R_4 + C_1C_4C_6R_1R_3R_4 - C_1C_5C_6R_1R_3R_4\right) + s\left(C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_4C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

$$Q \colon \frac{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}\sqrt{\frac{1}{C_2+C_4-C_5}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}\sqrt{\frac{1}{C_2+C_4-C_5}}}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4}} \\ \text{wo: } \sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2R_1R_3R_4+C_1C_4R_1R_3R_4-C_1C_5R_1R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{R_3+R_4}(C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4)\sqrt{\frac{1}{C_1C_2R_1R_3R_4+C_1C_4R_1R_3R_4-C_1C_5R_1R_3R_4}}}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3}+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3}+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3}+R_4}\sqrt{\frac{1}{C_2+C_4-C_5}}} \\ \text{K-LP: } \frac{C_5R_1R_4}{C_6R_3+C_6R_4}} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{C_5R_1R_4R_6}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_5R_3R_4}} \\ \text{Qz: None} \\ \text{Wz: None} \\ \end{aligned}$$

9.380 X-INVALID-NUMER-380 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_5 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(C_1 C_2 R_1 R_3 R_4 R_5 + C_1 C_4 R_1 R_3 R_4 R_5 - C_1 C_5 R_1 R_3 R_4 R_5\right) + s \left(-C_1 R_1 R_3 R_4 + C_1 R_1 R_3 R_5 + C_1 R_1 R_4 R_5 + C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 + C_4 R_3 R_4 R_5 - C_5 R_3 R_4 R_5\right)}$$

Parameters:

9.381 X-INVALID-NUMER-381 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_4R_6s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

Parameters:

Q:
$$-\frac{\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_4+R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}}{C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5}$$
 wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_1C_2R_1R_4R_5+C_1C_3R_1R_4R_5}}$ bandwidth: $-\frac{C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5}{\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2R_1R_4R_5+C_1C_3R_1R_4R_5+C_2C_3R_1R_4R_5}}$ K-LP: $-\frac{C_3R_1R_4}{C_6R_4-C_6R_5}$ K-HP: 0 K-BP: $-\frac{C_3R_1R_4R_5}{C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5}$ Qz: None Wz: None

9.382 X-INVALID-NUMER-382 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_6 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 - C_1C_5C_6R_1R_4 + C_2C_3C_6R_1R_4\right) + s\left(C_1C_6R_1 + C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4\right)}$$

```
+\frac{C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}-C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+C_2C_3\sqrt
                     Wo: \sqrt{\frac{1}{C_1C_2R_1R_4+C_1C_3R_1R_4-C_1C_5R_1R_4+C_2C_3R_1R_4}}
                                                                                                                                                                                                                                                                                                                                                           (C_1R_1 + C_2R_4 + C_3R_4 - C_5R_4)\sqrt{\frac{1}{C_1C_2R_1R_4 + C_1C_3R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_1R_4}}
                     \text{bandwidth: } \frac{C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C
                    K-LP: 0
                 K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} K-BP: \frac{C_3C_5R_1R_4}{C_1C_6R_1+C_2C_6R_4+C_3C_6R_4-C_5C_6R_4} Qz: None
                     Wz: None
9.383 X-INVALID-NUMER-383 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                     H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^2\left(C_1C_2R_1R_4R_5 + C_1C_3R_1R_4R_5 - C_1C_5R_1R_4R_5 + C_2C_3R_1R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 + C_2R_4R_5 + C_3R_4R_5 - C_5R_4R_5\right)}
          Parameters:
                     Q: \frac{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} -C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} -C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}
                    \frac{-R_4 + R_5}{\sqrt{C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 R_4 R_5 - C_1 C_5 R_5 - C_
                     K-LP: 0
                 K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} K-BP: -\frac{C_3R_1R_4R_6}{C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5+C_5R_4R_5} Qz: None
                       Wz: None
9.384 X-INVALID-NUMER-384 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_3C_5R_1R_4R_5s + C_3R_1R_4
                                                                                                                                                                                                                                                        H(s) = \frac{-3 \cdot 5 \cdot 10^{11} \cdot 10^{13} \cdot 1}{-C_6 R_4 + C_6 R_5 + s^2 \left(C_1 C_2 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 - C_1 C_5 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5\right) + s \left(-C_1 C_6 R_1 R_4 + C_1 C_6 R_1 R_5 + C_2 C_6 R_4 R_5 + C_3 C_6 R_4 R_5 - C_5 C_6 R_4 R_5\right)}
          Parameters:
                     Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + \frac{R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} - C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_3-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_
                    Wo: \sqrt{\frac{-R_4 + R_5}{C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 - C_1 C_5 R_1 R_4 R_5 + C_2 C_3 R_1 R_4 R_5}}
                    \frac{-R_4 + R_5}{\sqrt{C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 - C_1 C_5 R_1 R_4 R_5 - C_1 C_1 R_4 R_5 - C_1 
                   K-LP: -\frac{C_3R_1R_4}{C_6R_4-C_6R_5}
                    K-HP: 0
                   K-BP: -\frac{C_3C_5R_1R_4R_5}{C_1C_6R_1R_4-C_1C_6R_1R_5-C_2C_6R_4R_5-C_3C_6R_4R_5+C_5C_6R_4R_5}
                     Qz: None
                     Wz: None
9.385 X-INVALID-NUMER-385 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                            H(s) = \frac{C_3C_6R_1R_6s + C_3R_1}{-C_6 + s^2\left(C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_4C_6R_1R_5 + C_2C_3C_6R_1R_5\right) + s\left(-C_1C_6R_1 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5\right)}
          Parameters:
                     Q: -\frac{i\sqrt{R_1}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1R_1-C_2R_5-C_3R_5-C_4R_5}
```

K-LP: $-\frac{C_3R_1}{C_2}$

K-HP: 0

K-BP: $-\frac{C_3R_1R_6}{C_1R_1-C_2R_5-C_3R_5-C_4R_5}$

Qz: None Wz: None

9.386 X-INVALID-NUMER-386 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_5C_6R_1R_6s + C_3C_5R_1$ $H(s) = \frac{1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_1C_2C_5C_6R_1R_5 + C_1C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_1R_5\right) + s\left(C_1C_2C_6R_1 + C_1C_3C_6R_1 + C_1C_3C_6R_1 + C_2C_3C_6R_1 + C_2C_5C_6R_5 + C_3C_5C_6R_5 + C_3C_5C_6R_5\right)}{c_2C_6 + c_3C_6 +$

Parameters:

 $\begin{array}{l} \text{Q: } \frac{\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}\sqrt{C_2+C_3+C_4-C_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}\\ \text{wo: } \frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_1C_2C_5R_1R_5+C_1C_3C_5R_1R_5+C_1C_4C_5R_1R_5+C_2C_3C_5R_1R_5}}\\ \text{bandwidth: } \frac{C_1C_2R_1+C_1C_3R_1+C_1C_3R_1+C_1C_5R_1+C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}{\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2C_5R_1R_5+C_1C_3C_5R_1R_5+C_1C_4C_5R_1R_5+C_4C_5R_1R_5+C_4C_5R_1R_5+C_4C_5R_1R_5+C_4C_5R_1R_5+C_4C_5R_1R_5+C_4C_5R_1R_5+C_4$

K-BP: $\frac{C_3C_5R_1R_6}{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_1+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}$ Qz: None

Wz: None

9.387 X-INVALID-NUMER-387 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_5R_6s^2 + C_3R_1R_6s}{s^2\left(C_1C_2R_1R_5 + C_1C_3R_1R_5 + C_1C_4R_1R_5 - C_1C_5R_1R_5 + C_2C_3R_1R_5\right) + s\left(-C_1R_1 + C_2R_5 + C_3R_5 + C_4R_5 - C_5R_5\right) - 1}$

Parameters:

 $\frac{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{$ $\sqrt{-\frac{1}{C_{1}C_{2}R_{1}R_{5}+C_{1}C_{3}R_{1}R_{5}+C_{1}C_{4}R_{1}R_{5}-C_{1}C_{5}R_{1}R_{5}+C_{2}C_{3}R_{1}R_{5}}}(C_{1}R_{1}-C_{2}R_{5}-C_{3}R_{5}-C_{4}R_{5}+C_{5}R_{5})$

 $\frac{\sqrt{-C_{1}C_{2}R_{1}R_{5}+C_{1}C_{3}R_{1}R_{5}+C_{1}C_{3}R_{1}R_{5}+C_{1}C_{3}R_{1}R_{5}+C_{2}C_{3}R_{1}R_{5}}}{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}$

K-LP: 0

K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-BP: $-\frac{C_3R_1R_6}{C_1R_1-C_2R_5-C_3R_5-C_4R_5+C_5R_5}$ Qz: None

Wz: None

9.388 X-INVALID-NUMER-388 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_5s + C_3R_1}{-C_6 + s^2\left(C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_4C_6R_1R_5 - C_1C_5C_6R_1R_5 + C_2C_3C_6R_1R_5\right) + s\left(-C_1C_6R_1 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}$

Parameters:

 $-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_$

 $-\frac{1}{C_1C_2R_1R_5+C_1C_3R_1R_5+C_1C_4R_1R_5-C_1C_5R_1R_5+C_2C_3R_1R_5}$

 $\sqrt{-\frac{1}{C_{1}C_{2}R_{1}R_{5}+C_{1}C_{3}R_{1}R_{5}+C_{1}C_{4}R_{1}R_{5}-C_{1}C_{5}R_{1}R_{5}+C_{2}C_{3}R_{1}R_{5}}}\left(C_{1}R_{1}-C_{2}R_{5}-C_{3}R_{5}-C_{4}R_{5}+C_{5}R_{5}\right)$ $\frac{\sqrt{-C_1C_2R_1R_5+C_1C_3R_1R_$

K-LP: $-\frac{C_3R_1}{C_6}$

K-HP: 0

K-BP: $-\frac{C_3C_5R_1R_5}{C_1C_6R_1 - C_2C_6R_5 - C_3C_6R_5 - C_4C_6R_5 + C_5C_6R_5}$

Qz: None Wz: None

9.389 X-INVALID-NUMER-389
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_1C_2C_4R_1R_4 + C_1C_3C_4R_1R_4 - C_1C_4C_5R_1R_4 + C_2C_3C_4R_1R_4\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_5R_1 + C_2C_3R_1 + C_2C_4R_4 + C_3C_4R_4 - C_4C_5R_4\right)}$$

 $\frac{C_{1}C_{2}\sqrt{C_{4}}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{\frac{C_{2}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{3}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}-\frac{C_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{C_{3}}$

 $\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_1 C_2 C_4 R_1 R_4 + C_1 C_3 C_4 R_1 R_4 - C_1 C_4 C_5 R_1 R_4 + C_2 C_3 C_4 R_1 R_4}} (C_1 C_2 R_1 + C_1 C_3 R_1 + C_1 C_4 R_1 - C_1 C_5 R_1 + C_2 C_3 R_1 + C_2 C_4 R_4 + C_1 C_5 R_1 + C_2 C_3 R_1 + C_2 C_4 R_4 + C_1 C_5 R_1 + C_2 C_4 R_4 + C_1 C_5 R_1 + C_2 C_4 R_4 + C_1 C_5 R_1 + C_2 C_5 R_$ $\frac{\sqrt{\frac{C_1C_2C_4R_1R_4+C_1C_3$

K-LP: 0

K-BP: $\frac{C_{1}C_{2}R_{1}+C_{1}C_{3}R_{1}+C_{2}C_{3}}{C_{1}C_{2}R_{1}+C_{1}C_{3}R_{1}+C_{1}C_{4}R_{1}-C_{1}C_{5}R_{1}+C_{2}C_{3}R_{1}+C_{2}C_{4}R_{4}+C_{3}C_{4}R_{4}-C_{4}C_{5}R_{4}}{\text{Qz: None}}$

Wz: None

9.390 X-INVALID-NUMER-390 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_4s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_1C_2C_4C_6R_1R_4 + C_1C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_1R_4 + C_1C_3C_6R_1 + C_1C_3C_6R_1 + C_1C_3C_6R_1 + C_1C_3C_6R_1 + C_2C_3C_6R_1 + C_2C_3C_6R_$

Parameters:

 $Q: \frac{C_1C_2\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{C_2}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_3}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} - \frac{C_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + C_1C_3\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{C_2}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_3}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_3}{C_1C_2+C_1C_3-C_1C_3+C_1C_3-C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1$

wo: $\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_1 C_2 C_4 R_1 R_4 + C_1 C_3 C_4 R_1 R_4 - C_1 C_4 C_5 R_1 R_4 + C_2 C_3 C_4 R_1 R_4}$

 $\frac{\frac{C_{2}+C_{3}+C_{4}-C_{5}}{C_{1}C_{2}C_{4}R_{1}R_{4}+C_{1}C_{3}R_{1}+C_{1}C_{4}R_{1}$

K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: 0

K-BP: $\frac{C_3C_4C_5R_1R_4}{C_1C_2C_6R_1+C_1C_3C_6R_1+C_1C_4C_6R_1-C_1C_5C_6R_1+C_2C_3C_6R_1+C_2C_4C_6R_4+C_3C_4C_6R_4-C_4C_5C_6R_4}$ Qz: None

Wz: None

9.391 X-INVALID-NUMER-391 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_4R_6s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_4C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5\right)}$

Parameters:

Q: $-\frac{\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_4+R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}}{C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5}$ wo: $-\frac{\sqrt{-R_4+R_5}}{\sqrt{C_1C_2R_1R_4R_5+C_1C_3R_1R_4R_5+C_1C_4R_1R_4R_5+C_2C_3R_1R_4R_5}}{\frac{C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5}{\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2R_1R_4R_5+C_1C_3R_1R_4R_5+C_1C_$

K-BP: $-\frac{C_3R_1R_4R_6}{C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5}$

Qz: None

Wz: None

9.392 X-INVALID-NUMER-392 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_6 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_4C_6R_1R_4 - C_1C_5C_6R_1R_4 + C_2C_3C_6R_1R_4\right) + s\left(C_1C_6R_1 + C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4\right)}$

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\frac{C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_1C_4\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}-C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C
                   Wo: \sqrt{\frac{1}{C_1C_2R_1R_4+C_1C_3R_1R_4+C_1C_4R_1R_4-C_1C_5R_1R_4+C_2C_3R_1R_4}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                          (C_1R_1 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4)\sqrt{\frac{1}{C_1C_2R_1R_4 + C_1C_3}\frac{1}{R_1R_4 + C_1C_4R_1R_4} - C_1C_5R_1R_4 + C_2C_3R_1R_4}
                  K-LP: 0
              K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} K-BP: \frac{C_3C_5R_1R_4}{C_1C_6R_1+C_2C_6R_4+C_3C_6R_4+C_4C_6R_4-C_5C_6R_4} Qz: None
                   Wz: None
9.393 X-INVALID-NUMER-393 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)
                                                                                                                                                                                                                                 H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^2\left(C_1C_2R_1R_4R_5 + C_1C_3R_1R_4R_5 + C_1C_4R_1R_4R_5 - C_1C_5R_1R_4R_5 + C_2C_3R_1R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 + C_2R_4R_5 + C_3R_4R_5 + C_4R_4R_5 - C_5R_4R_5\right)}
         Parameters:
                   Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + \frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \sqrt{\frac{-R_4+R_5}{C_1C_2R_1R_4R_5+C_1C_3R_1R_4R_5+C_1C_4R_1R_4R_5-C_1C_5R_1R_4R_5+C_2C_3R_1R_4R_5}}(C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5+C_5R_4R_5)
                                                                                          \overline{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}} -C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3
                   K-LP: 0
               \begin{array}{l} \text{K-H1: } G \\ \text{K-HP: } \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP: } -\frac{C_3R_1R_4R_6}{C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5+C_5R_4R_5} \\ \end{array} 
                     Qz: None
                     Wz: None
9.394 X-INVALID-NUMER-394 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_3C_5R_1R_4R_5s + C_3R_1R_4
                                                                                                                                H(s) = \frac{-C_6R_4 + C_6R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_4C_6R_1R_4R_5 - C_1C_5C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5\right)}{-c_6R_4 + c_6R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_5C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5\right)}
         Parameters:
                   Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{-C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} -C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} -C_1C_4\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} +C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} -C_1C_4\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} +C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} +C_1C_5\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R
                  wo: \sqrt{\frac{-R_4 + R_5}{C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 + C_1 C_4 R_1 R_4 R_5 - C_1 C_5 R_1 R_4 R_5 + C_2 C_3 R_1 R_4 R_5}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \sqrt{\frac{-R_4+R_5}{C_1C_2R_1R_4R_5+C_1C_3R_1R_4R_5+C_1C_4R_1R_4R_5-C_1C_5R_1R_4R_5+C_2C_3R_1R_4R_5}}(C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5+C_5R_4R_5)
                  \frac{\sqrt{C_1C_2R_1R_4R_5 + C_1C_3}R_4}{-C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_5+C_1C_3+C_1C_5+C_1C_3+C_1C_5+C_1C_3+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_
                  K-HP: 0
                 K-BP: -\frac{C_3C_5R_1R_4R_5}{C_1C_6R_1R_4 - C_1C_6R_1R_5 - C_2C_6R_4R_5 - C_3C_6R_4R_5 - C_4C_6R_4R_5 + C_5C_6R_4R_5}
                     Qz: None
                   Wz: None
9.395 X-INVALID-NUMER-395 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                H(s) = \frac{C_3C_5C_6R_1R_6s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_1C_2C_3C_6R_1R_3 + C_1C_3C_4C_6R_1R_3 - C_1C_3C_5C_6R_1R_3\right) + s\left(C_1C_2C_6R_1 + C_1C_3C_6R_1 + C_1C_3C_6R_1 + C_2C_3C_6R_1 + C_2C_3C_6R_1 + C_2C_3C_6R_3 + C_3C_5C_6R_3\right)}
         Parameters:
                   Q: \underbrace{\frac{\sqrt{C_{1}}C_{2}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} + \frac{C_{5}}{C_{2}+C_{4}-C_{5}} + \sqrt{C_{1}}\sqrt{C_{3}}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}}} - \sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}} + \frac{C_{3}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}} + \frac{C_{4}}{C_{2}+C_{4}-C_{5}} - \frac{C_{5}}{C_{2}+C_{4}-C_{5}} 
                                                                                          \frac{C_{2}+C_{3}+C_{4}-C_{5}}{\sqrt{C_{1}C_{2}C_{3}R_{1}R_{3}+C_{1}C_{3}C_{4}R_{1}R_{3}-C_{1}C_{3}C_{5}R_{1}R_{3}}}(C_{1}C_{2}R_{1}+C_{1}C_{3}R_{1}+C_{1}C_{4}R_{1}-C_{1}C_{5}R_{1}+C_{2}C_{3}R_{3}+C_{3}C_{4}R_{3}-C_{3}C_{5}R_{3})}{\sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{3}}{C_{2}+C_{4}-C_{5}}+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}-\sqrt{C_{1}\sqrt{C_{3}}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{3}}{C_{2}+C_{4}-C_{5}}+\frac{C_{4}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}-\sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{C_{2}}{C_{2}+C_{4}-C_{5}}+\frac{C_{3}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_{4}-C_{5}}+\frac{C_{5}}{C_{2}+C_
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K-LP: \frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}
K-HP: 0
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K-BP: $\frac{C_3C_5R_1R_6}{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_1+C_2C_3R_3+C_3C_4R_3-C_3C_5R_3}$ Qz: None

Wz: None

9.396 X-INVALID-NUMER-396 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_1 R_3 R_4 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(C_1 C_2 R_1 R_3 R_4 R_5 + C_1 C_3 R_1 R_3 R_4 R_5 + C_2 C_3 R_1 R_3 R_4 R_5\right) + s \left(-C_1 R_1 R_3 R_4 + C_1 R_1 R_3 R_5 + C_1 R_1 R_4 R_5 + C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 + C_3 R_3 R_4 R_5\right)}$

Parameters:

Q: $-\frac{\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{2}C_{3}}\sqrt{-R_{3}R_{4}+R_{3}R_{5}+R_{4}R_{5}}}{C_{1}R_{1}R_{3}R_{4}-C_{1}R_{1}R_{3}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{1}R_{4}R_{5}-C_{2}R_{3}R_{4}R_{5}-C_{3}R_{3}R_{4}R_{5}}}$ wo: $\frac{\sqrt{-R_{3}R_{4}+R_{3}R_{5}+R_{4}R_{5}}}{\sqrt{C_{1}C_{2}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{3}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{3}R_{4}R_{5}}}$ bandwidth: $-\frac{C_{1}R_{1}R_{3}R_{4}-C_{1}R_{1}R_{3}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{1}R_{4}R_{5}-C_{2}R_{3}R_{4}R_{5}-C_{3}R_{3}R_{4}R_{5}}{\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{2}C_{3}}\sqrt{C_{1}C_{2}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{3}R_{4}R_{5}+C_{2}C_{3}R_{1}}}$ K-LP: $-\frac{R_{1}R_{4}R_{6}}{R_{3}R_{4}-R_{3}R_{5}-R_{4}R_{5}}}{K_{5}-R_{4}R_{5}}$ K-HP: 0K DD.

K-BP: $-\frac{C_3R_1R_3R_4R_6}{C_1R_1R_3R_4-C_1R_1R_3R_5-C_1R_1R_4R_5-C_2R_1R_4R_5-C_2R_3R_4R_5-C_3R_3R_4R_5}$

Qz: None Wz: None

9.397 X-INVALID-NUMER-397 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$

 $C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s$ $H(s) = \frac{C_3C_5\kappa_1\kappa_3\kappa_4\kappa_6s^2 + C_5\kappa_1\kappa_4\kappa_6s}{R_3 + R_4 + s^2\left(C_1C_2R_1R_3R_4 + C_1C_3R_1R_3R_4 - C_1C_5R_1R_3R_4 + C_2C_3R_1R_3R_4\right) + s\left(C_1R_1R_3 + C_1R_1R_4 + C_2R_1R_4 + C_2R_3R_4 + C_3R_3R_4 - C_5R_3R_4\right)}$

Parameters:

 $\text{Q:} \frac{ \frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}$

 $\sqrt{R_3 + R_4} (C_1 R_1 R_3 + C_1 R_1 R_4 + C_2 R_1 R_4 + C_2 R_3 R_4 + C_3 R_3 R_4 - C_5 R_3 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4}{C_1 C_2 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4}}$

K-LP: 0

K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}$ K-BP: $\frac{C_5R_1R_4R_6}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_3R_3R_4-C_5R_3R_4}$ Qz: None

Wz: None

9.398 X-INVALID-NUMER-398 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_4s + C_5R_1R_4}{C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 - C_1C_5C_6R_1R_3R_4 + C_2C_3C_6R_1R_3R_4\right) + s\left(C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 - C_5C_6R_3R_4\right)}$

Parameters:

 $Q: \frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1$

wo: $\sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4}$

 $\text{K-BP: } \frac{C_3C_5R_1R_3R_4}{C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 - C_5C_6R_3R_4}$

Qz: None Wz: None

9.399 X-INVALID-NUMER-399
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3R_1R_3R_6s + R_1R_6}{-R_3 + R_5 + s^2\left(C_1C_2R_1R_3R_5 + C_1C_3R_1R_3R_5 + C_1C_4R_1R_3R_5 + C_2C_3R_1R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_1R_5 + C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5\right)}$$

K-LP: $-\frac{R_1R_6}{R_3-R_5}$ K-HP: 0

K-BP: $-\frac{C_3R_1R_3R_6}{C_1R_1R_3 - C_1R_1R_5 - C_2R_1R_5 - C_2R_3R_5 - C_3R_3R_5 - C_4R_3R_5}$

Qz: None Wz: None

9.400 X-INVALID-NUMER-400 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_6s^2 + C_5R_1R_6s}{s^2\left(C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_1C_4R_1R_3 - C_1C_5R_1R_3 + C_2C_3R_1R_3\right) + s\left(C_1R_1 + C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3\right) + 1}$$

Parameters:

 $Q: \frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{1}+C_{2}R_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{1}+C_{2}R_{3}+C_{3}R_{3}+C_{4}R_{3}-C_{5}R_{3}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{3}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{4}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{2}C_{4}\sqrt{R_{1}C_{$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_1C_4R_1R_3 - C_1C_5R_1R_3 + C_2C_3R_1R_3}}$

 $\text{bandwidth: } \frac{(C_1R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3)\sqrt{\frac{1}{C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_2C_3R_1R_3}}{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 +$

K-LP: 0

K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-BP: $\frac{C_5R_1R_6}{C_1R_1+C_2R_1+C_2R_3+C_3R_3+C_4R_3-C_5R_3}$ Qz: None

Wz: None

9.401 X-INVALID-NUMER-401 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_3s + C_5R_1}{C_6 + s^2\left(C_1C_2C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_4C_6R_1R_3 - C_1C_5C_6R_1R_3 + C_2C_3C_6R_1R_3\right) + s\left(C_1C_6R_1 + C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$$

Parameters:

$$Q: \frac{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{$$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_3+C_1C_3R_1R_3+C_1C_4R_1R_3-C_1C_5R_1R_3+C_2C_3R_1R_3}}$

 $(C_1R_1 + C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3)\sqrt{\frac{1}{C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_1C_4R_1R_3 - C_1C_5R_1R_3 + C_2C_3R_1R_3}}$

K-LP: $\frac{C_5R_1}{C_6}$ K-HP: 0

K-BP: $\frac{C_3C_5R_1R_3}{C_1C_6R_1+C_2C_6R_1+C_2C_6R_3+C_3C_6R_3+C_4C_6R_3-C_5C_6R_3}$

Qz: None

Wz: None

9.402 X-INVALID-NUMER-402
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)$$

$$H(s) = \frac{C_3R_1R_3R_4R_6s + R_1R_4R_6}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_1C_2R_1R_3R_4R_5 + C_1C_3R_1R_3R_4R_5 + C_2C_3R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 + C_4R_3R_4R_5\right)}$$

```
K-LP: -\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}
                        K-HP: 0
                     K-BP: -\frac{C_3R_1R_3R_4R_6}{C_1R_1R_3R_4 - C_1R_1R_3R_5 - C_1R_1R_4R_5 - C_2R_1R_4R_5 - C_2R_3R_4R_5 - C_3R_3R_4R_5 - C_4R_3R_4R_5}{C_1R_1R_3R_4 - C_1R_1R_3R_5 - C_1R_1R_4R_5 - C_2R_1R_4R_5 - C_2R_3R_4R_5 - C_3R_3R_4R_5 - C_4R_3R_4R_5}
                        Wz: None
9.403 X-INVALID-NUMER-403 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s
                                                                                                                                                                                                                                                                H(s) = \frac{C_3C_5R_1R_3R_4R_6s - C_5R_1R_3R_4R_6s - C_5R_1R_3R_4R_6s - C_5R_1R_3R_4R_6s - C_5R_1R_3R_4 + C_2R_3R_4R_4 + C_3R_3R_4 + C_3R_3
            Parameters:
                          Q: \frac{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{1}R_{3}+C_{1}R_{4}+C_{2}R_{3}R_{4}+C_{3}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \sqrt{R_3 + R_4} (C_1 R_1 R_3 + C_1 R_1 R_4 + C_2 R_1 R_4 + C_2 R_3 R_4 + C_3 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 + C_1 C_4 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4 + C_1 
                                                                                                              \overline{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+
                      K-LP: 0
                    \begin{array}{lll} \text{K-HP:} & \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP:} & \frac{C_5R_1R_4R_6}{C_1R_1R_3+C_1R_1R_4+C_2R_1R_4+C_2R_3R_4+C_3R_3R_4+C_4R_3R_4-C_5R_3R_4} \end{array} 
                          Qz: None
                        Wz: None
9.404 X-INVALID-NUMER-404 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_3C_5R_1R_3R_4s + C_5R_1R_4
                                                                                                                             H(s) = \frac{C_3 C_3 C_4 C_1 C_2 C_6 R_1 R_3 R_4 + C_1 C_3 C_6 R_1 R_3 R_4 + C_1 C_4 C_6 R_1 R_3 R_4 + C_1 C_5 C_6 R_1 R_3 R_4 + C_2 C_3 C_6 R_1 R_3 R_4 + C_2 C_3 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 + C_1 C_6 R_1 R_3 + C_1 C_6 R_1 R_4 + C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 + C_3 C_6 R_3 R_4 + C_4 C_6 R_3 R_4 + C_5 C_6 R_5 R_5 + C_5 C_6 R_5 R
            Parameters:
                                           + \frac{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{C_1R_1R_3+C_1R_4+C_2R_3R_4+C_2R_3R_4+C_3R_3R_4+C_4R_3R_4-C_5R_3} + C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{-C_1C_5\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3
                      wo: \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 + C_1 C_4 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \sqrt{R_3 + R_4} (C_1 R_1 R_3 + C_1 R_1 R_4 + C_2 R_1 R_4 + C_2 R_3 R_4 + C_3 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 + C_1 C_5 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4 + C_3 R_4 + C_3 R_3 R_4 + C_3 R_3 R_4 + C_3 R_4 + 
                      \frac{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}+C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_
                    K-LP: \frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}
K-HP: 0
                      K-BP: \frac{C_3C_5R_1R_3R_4}{C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 + C_4C_6R_3R_4 - C_5C_6R_3R_4}
                          Qz: None
                        Wz: None
9.405 X-INVALID-NUMER-405 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_2 R_1 R_2 R_4 R_6 s + R_1 R_4 R_6
                                                                                            H(s) = \frac{C_2 R_1 R_2 R_4 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(-C_1 C_2 R_1 R_2 R_3 R_4 + C_1 C_2 R_1 R_2 R_3 R_5 + C_1 C_2 R_1 R_2 R_4 R_5 + C_1 C_2 R_1 R_3 R_4 R_5\right) + s \left(-C_1 R_1 R_3 R_4 + C_1 R_1 R_3 R_5 + C_1 R_1 R_4 R_5 + C_2 R_2 R_3 R_4 + C_2 R_2 R_3 R_5 + C_2 R_2 R_4 R_5 + C_2 R_3 R_4 R_5\right)}
         Parameters:
```

K-LP: $-\frac{R_1R_4R_6}{R_2R_4-R_2R_5-R_4R_5}$

 $Q: \frac{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}R_2R_3R_4\sqrt{-\frac{R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_2}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_2}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_2}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_4R_5}} - \sqrt{C_1}\sqrt{C_2}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_4R_5}} - \sqrt{C_1}\sqrt{C_2}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_4R_5}} - \sqrt{C_1}\sqrt{C_2}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_3R_4}{-R_2R_3R_4+R_2R_3R_5+R_4R_5}} - \sqrt{C_1}\sqrt{C_2}\sqrt{R_1}R_2R_3R_5\sqrt{-\frac{R_3R_4}{-R_2R_3R_4+R_2$

 $\sqrt{\frac{R_3R_4 - R_3R_5 - R_4R_5}{C_1C_2R_1R_2R_3R_4 - C_1C_2R_1R_2R_3R_5 - C_1C_2R_1R_2R_4R_5 - C_1C_2R_1R_3R_4R_5}}(C_1R_1R_3R_4 - C_1R_1R_3R_5 - C_1R_1R_4R_5 - C_1R_1R_3R_4 - C_1R_1R_3R_4 - C_1R_1R_3R_4 - C_1R_1R_3R_5 - C_1R_1R_4R_5 - C_1R_1R_3R_4 - C_1R_1R_3R_5 - C_1R_1R_5 - C_1R_5 - C_1R_5$

```
K-HP: 0
```

 $\text{K-BP:} - \frac{C_2 R_1 R_2 R_4 R_6}{C_1 R_1 R_3 R_4 - C_1 R_1 R_3 R_5 - C_1 R_1 R_4 R_5 - C_2 R_1 R_4 R_5 + C_2 R_2 R_3 R_4 - C_2 R_2 R_3 R_5 - C_2 R_2 R_4 R_5 - C_2 R_3 R_4 R_5}$

Qz: None

Wz: None

9.406 X-INVALID-NUMER-406 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_2C_4R_1R_2 - C_1C_2C_5R_1R_2\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_5R_1 + C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_2 - C_2C_5R_2\right)}$

Parameters:

 $Q: \underbrace{\frac{\sqrt{C_1}\sqrt{C_2}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{\frac{C_2}{C_3+C_4-C_5}} + \frac{C_3}{C_3+C_4-C_5} + \frac{C_4}{C_3+C_4-C_5} + \frac{C_5}{C_3+C_4-C_5}}_{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_2+C_2C_3R_2+C_2C_5R_2} - \underbrace{\frac{C_3}{C_3+C_4-C_5}}_{C_1\sqrt{C_2}C_5\sqrt{R_1}\sqrt{R_2}} + \underbrace{\frac{C_3}{C_3+C_4-C_5}}_{C_3+C_4-C_5} + \underbrace{\frac{C_4}{C_3+C_4-C_5}}_{C_3+C_4-C_5} - \underbrace{\frac{C_5}{C_3+C_4-C_5}}_{C_3+C_4-C_5} - \underbrace{\frac{C_5}{C_3+C_4-C_5}}_{C_3+C_4-C_5} + \underbrace{\frac{C_4}{C_3+C_4-C_5}}_{C_3+C_4-C_5} + \underbrace{\frac{C_4}{C_3+C_4-C_5}}_{C_3+C_4-C_5} - \underbrace{\frac{C_5}{C_3+C_4-C_5}}_{C_3+C_4-C_5} -$

 $\text{bandwidth: } \frac{\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_1 C_2 C_3 R_1 R_2 + C_1 C_2 C_4 R_1 R_2 - C_1 C_2 C_5 R_1 R_2}}}{\sqrt{C_1 \sqrt{C_2} C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{C_2}{C_3 + C_4 - C_5} + \frac{C_3}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_5}{C_3 + C_4 - C_5} + \sqrt{C_1} \sqrt{C_2} C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{C_2}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_5}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_5}{C_3 + C_4 - C$

K-LP: 0

K-HP: $\frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}$

K-BP: $\frac{C_3C_5R_1R_6}{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_1+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2}$ Qz: None

Wz: None

9.407 X-INVALID-NUMER-407 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_1C_2C_3C_6R_1R_2 + C_1C_2C_4C_6R_1R_2 - C_1C_2C_5C_6R_1R_2\right) + s\left(C_1C_2C_6R_1 + C_1C_3C_6R_1 + C_1C_3C_6R_1 + C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_4C_6R_2 - C_2C_5C_6R_2\right)}$

Parameters:

 $Q: \underbrace{\frac{\sqrt{C_1}\sqrt{C_2}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{\frac{C_2}{C_3+C_4-C_5}} + \frac{C_3}{C_3+C_4-C_5} + \frac{C_4}{C_3+C_4-C_5} + \frac{C_5}{C_3+C_4-C_5}}_{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_2+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2} - \underbrace{\frac{C_3}{C_3+C_4-C_5} + \frac{C_3}{C_3+C_4-C_5} + \frac{C_4}{C_3+C_4-C_5} + \frac{C_5}{C_3+C_4-C_5}}_{C_1C_2R_1+C_1C_3R_1+C_1C_4R_1-C_1C_5R_1+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2} - \underbrace{\frac{C_4}{C_3+C_4-C_5} + \frac{C_3}{C_3+C_4-C_5} + \frac{C_4}{C_3+C_4-C_5} + \frac{C_4}{C_3+C_4-C_5} + \frac{C_5}{C_3+C_4-C_5}}_{C_1C_2R_1+C_1C_3R_1+C_1C_3R_1+C_1C_5R_1+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2}$

 $\text{bandwidth: } \frac{\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_1 C_2 C_3 R_1 R_2 + C_1 C_2 C_4 R_1 R_2 - C_1 C_2 C_5 R_1 R_2}}}{\sqrt{C_1 \sqrt{C_2} C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{C_2}{C_3 + C_4 - C_5} + \frac{C_3}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_5}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_5}{C_3 + C_4 - C_5} - \frac{C_5}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} - \frac{C_5}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} - \frac{C_5}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} - \frac{C_5}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_5}{C_3 + C_4 - C_5} - \frac{C_5}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_5}{C_3 + C_4 - C_5} + \frac{$

K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: 0

K-BP: $\frac{C_2C_3C_5R_1R_2}{C_1C_2C_6R_1+C_1C_3C_6R_1+C_1C_4C_6R_1-C_1C_5C_6R_1+C_2C_3C_6R_1+C_2C_3C_6R_2+C_2C_4C_6R_2-C_2C_5C_6R_2}$ Qz: None

Wz: None

9.408 X-INVALID-NUMER-408 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_2C_6R_1R_2R_3R_4 - C_1C_5C_6R_1R_2R_3R_4\right) + s\left(C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 + C_2C_6R_1R_2R_4 + C_2C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$ $C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4$

Parameters:

 $\text{Q: } \frac{\sqrt{C_{1}}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}-C_{5}}}}{C_{1}R_{1}R_{2}R_{3}+C_{1}R_{1}R_{2}R_{4}+C_{1}R_{1}R_{3}R_{4}+C_{2}R_{1}R_{2}R_{4}+C_{2}R_{2}R_{3}R_{4}-C_{5}R_{2}R_{3}R_{4}}$

wo: $\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}$

 $\text{bandwidth: } \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 - C_5R_2R_3R_4)}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 - C_5}}}$

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: 0

K-BP: $\frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_2R_1R_2R_4+C_2R_2R_3R_4-C_5R_2R_3R_4}$ Qz: None

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9.409 X-INVALID-NUMER-409 Z(s) = \left(\frac{R_1}{C_1 R_1 s+1}, \frac{R_2}{C_2 R_2 s+1}, R_3, R_4, \frac{R_5}{C_5 R_5 s+1}, R_6\right)
```

 $C_5R_1R_2R_4R_5R_6s + R_1R_2R_4R_6$

 $H(s) = \frac{\frac{C_{5}R_{1}R_{2}R_{3}R_{6}}{R_{1}R_{4}R_{5} - R_{2}R_{3}R_{4} + R_{2}R_{3}R_{5} + R_{2}R_{4}R_{5} + R_{3}R_{4}R_{5} + s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{3}R_{4}R_{5} - C_{1}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{1}R_{1}R_{2}R_{3}R_{5} + C_{1}R_{1}R_{2}R_{3}R_{5} + C_{1}R_{1}R_{3}R_{4}R_{5} + C_{2}R_{1}R_{2}R_{4}R_{5} + C_{2}R_{2}R_{3}R_{4}R_{5} - C_{5}R_{2}R_{3}R_{4}R_{5}\right)}}$

Parameters:

 $\frac{\sqrt{\frac{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{C_{1}C_{2}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}}}(C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{5}-C_{1}R_{1}R_{2}R_{4}R_{5}-C_{2}R_{1}R_{2}R_{4}R_{5}-C_{2}R_{1}R_{2}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: 0

K-BP: $-\frac{C_5R_1R_2R_4R_5R_6}{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_2R_1R_2R_4R_5-C_2R_2R_3R_4R_5+C_5R_2R_3R_4R_5}{\text{Qz: None}}$ Qz: None

Wz: None

9.410 X-INVALID-NUMER-410 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_5C_6R_1R_2R_6s + C_5R_1R_2$ $H(s) = \frac{C_5C_6R_1R_2R_6s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_1C_2C_6R_1R_2R_3 + C_1C_4C_6R_1R_2R_3 - C_1C_5C_6R_1R_2R_3\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_3 + C_2C_6R_1R_2 + C_2C_6R_2R_3 + C_4C_6R_2R_3 - C_5C_6R_2R_3\right)}$

Parameters:

 $\text{Q: } \frac{\sqrt{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}}{C_{1}R_{1}R_{2}+C_{1}R_{1}R_{2}+C_{2}R_{1}R_{2}+C_{2}R_{2}R_{3}+C_{4}R_{2}R_{3}-C_{5}R_{2}R_{3}}$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3}}$

 $\text{bandwidth: } \frac{\sqrt{C_1C_2R_1R_2R_3 + C_1C_4R_1R_2R_3 - C_1C_5R_1R_2R_3}}{\sqrt{R_1+R_2+R_3}\left(C_1R_1R_2 + C_1R_1R_3 + C_2R_1R_2 + C_2R_2R_3 + C_4R_2R_3 - C_5R_2R_3\right)\sqrt{\frac{1}{C_1C_2R_1R_2R_3 + C_1C_4R_1R_2R_3 - C_1C_5R_1R_2R_3}}}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2+C_4-C_5}}}}$

K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: 0

K-BP: $\frac{C_5R_1R_2R_6}{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3+C_4R_2R_3-C_5R_2R_3}$ Qz: None

Wz: None

9.411 X-INVALID-NUMER-411 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $C_5 R_1 R_2 R_5 R_6 s + R_1 R_2 R_6$

 $H(s) = \frac{C_5R_1R_2R_5R_6s + R_1R_2R_6}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_1C_2R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5 - C_1C_5R_1R_2R_3R_5\right) + s\left(-C_1R_1R_2R_3 + C_1R_1R_2R_5 + C_1R_1R_3R_5 + C_2R_1R_2R_5 + C_2R_2R_3R_5 + C_4R_2R_3R_5 - C_5R_2R_3R_5\right)}$

Parameters:

 $Q: \underbrace{\frac{-\sqrt{C_{1}}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{2}+C_{4}-C_{5}} - \frac{R_{2}R_{3}}{C_{2}+C_{4}-C_{5}} + \frac{R_{2}R_{5}}{C_{2}+C_{4}-C_{5}} - \sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{2}+C_{4}-C_{5}} + \frac{R_{2}R_{5}}{C_{2}+C_{4}-C_{5}} + \frac{R_{2}R_{5}}{C_{$

 $\frac{\sqrt{\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{1}C_{2}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{3}R_{5}}}{\sqrt{\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{1}C_{4}R_{1}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{5}}}}(C_{1}R_{1}R_{2}R_{3}-C_{1}R_{1}R_{2}R_{5}-C_{2}R_{1}R_{2}R_{5}-C_{2}R_{2}R_{3}R_{5}-C_{4}R_{2}R_{3}R_{5}+C_{5}R_{2}R_{3}R_{5}})$ $\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{1}C_{2}R_{1}R_{2}R_{3}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{5}}(C_{1}R_{1}R_{2}R_{3}-C_{1}R_{1}R_{2}R_{5}-C_{2}R_{1}R_{2}R_{5}-C_{2}R_{2}R_{3}R_{5}-C_{4}R_{2}R_{3}R_{5}+C_{5}R_{2}R_{3}R_{5}})$ $\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{2}R_{5}}{C_{2}+C_{4}-C_{5}}+\frac{R_{2}R_{5}}{C_{2}+C_{4}-$

 $\begin{array}{l} \text{K-BP:} -\frac{C_5R_1R_2R_5R_6}{C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_3R_5-C_2R_1R_2R_5-C_2R_2R_3R_5-C_4R_2R_3R_5+C_5R_2R_3R_5} \end{array}$

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9.412 X-INVALID-NUMER-412 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
                                                                   H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_2C_6R_1R_2R_3R_4 + C_1C_6C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_2C_6R_1R_2R_4 + C_2C_6R_
         Parameters:
                                               \frac{\sqrt{C_{1}}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{2}+C_{4}-C_{5}}}-C_{1}R_{1}R_{2}R_{4}+R_{2}R_{3}R_{4}+C_{2}R_{1}R_{2}R_{4}+R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}R_{4}+C_{2}R_{2}R_{3}+C_{2}R_{2}R_{3}+C_{2}R_{2}R_{3}+C_{2}R_{2}R_
                      \text{bandwidth: } \frac{\sqrt{C_1C_2R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \left(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4\right) \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_5R_1R_2R_3R_4}}}{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_2 + C_4 - C_5}}}} \right) 
                   K-LP: \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}
K-HP: 0
                    K-BP: \frac{C_5R_1R_2R_4R_6}{C_1R_1R_2R_3+C_1R_1R_2R_4+C_1R_1R_3R_4+C_2R_1R_2R_4+C_2R_2R_3R_4+C_4R_2R_3R_4-C_5R_2R_3R_4} Qz: None
                      Wz: None
9.413 X-INVALID-NUMER-413 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_5R_1R_2R_4R_5R_6s + R_1R_2R_4R_6
                                                        \overline{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}\right)+s\left(-C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{3}R_{4}R
         Parameters:
                        Q: \frac{-\sqrt{C_{1}}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{2}+C_{4}-C_{5}}} - \frac{R_{2}R_{3}R_{4}}{C_{2}+C_{4}-C_{5}} + \frac{R_{2}R_{3}R_{5}}{C_{2}+C_{4}-C_{5}} + \frac{R_{2}R_{3}R_{5}}{C_{2}+C_{4}-C_{5}} - \sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{2}+C_{4}-C_{5}}} + \frac{R_{2}R_{3}R_{5}}{C_{2}+C_{4}-C_{5}}} + \sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{2}+C_{4}-C_{5}}} - \frac{R_{2}R_{3}R_{4}}{C_{2}+C_{4}-C_{5}}} + \frac{R_{2}R_{3}R_{5}}{C_{2}+C_{4}-C_{5}} + \frac{R_{2}R_{3}R_{5}}{C_{2}+C_{
                                                                                                                                                                                                                                                                                                                                                                                                                                    \sqrt{\frac{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{5}-R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{C_{1}C_{2}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}}}(C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{5}-C_{1}R_{1}R_{2}R_{4}R_{5}-C_{2}R_{1}R_{2}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{4}R_{2}R_{3}R_{4}R_{5}+C_{5}R_{2}R_{3}R_{4}R_{5}+C_{5}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{2}R_{3}R_{4}R_{5}-C_{5}R_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}R_{5}R_{5}-C_{5}
                                                                                                               \frac{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}} - \frac{R_2R_3R_4}{C_2+C_4-C_5} - \frac{R_2R_3R_4}
                     K-LP: \frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}
                      \begin{array}{l} \text{K-BP:} - \frac{C_5 R_1 R_2 R_4 R_5 R_6}{C_1 R_1 R_2 R_3 R_4 - C_1 R_1 R_2 R_3 R_5 - C_1 R_1 R_2 R_4 R_5 - C_1 R_1 R_3 R_4 R_5 - C_2 R_1 R_2 R_4 R_5 - C_2 R_2 R_3 R_4 R_5 - C_4 R_2 R_3 R_4 R_5 + C_5 R_2 R_3 R_4 R_5 \\ \text{Qz: None} \end{array} 
                        Wz: None
9.414 X-INVALID-NUMER-414 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4
                                                                                                                                                    H(s) = \frac{1}{-C_{6}R_{2}R_{4} + C_{6}R_{2}R_{5} + C_{6}R_{4}R_{5} + s^{2}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{4}R_{5} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{4}R_{5} + C_{2}C_{3}C_{6}R_{1}R_{2}R_{4}R_{5} + s\left(-C_{1}C_{6}R_{1}R_{2}R_{4} + C_{1}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{6}R_{1}R_{4}R_{5} + C_{3}C_{6}R_{1}R_{4}R_{5} + C_{3}C_{6}R_{1}R_{4}R_{5} + C_{3}C_{6}R_{1}R_{4}R_{5} + C_{3}C_{6}R_{1}R_{2}R_{4}R_{5} + C_{4}C_{6}R_{1}R_{2}R_{4} + C_{4}C_{6}R_{1}R_{2}R_{5} + C_{4}C_{6}R_{1}R_{4}R_{5} + C_{5}C_{6}R_{1}R_{4}R_{5} +
         Parameters:
               \begin{array}{l} \mathrm{Q:} -\frac{\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_2R_2R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}\\ \mathrm{wo:} \ \frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_2C_3R_1R_2R_4R_5}}\\ \mathrm{bandwidth:} \ -\frac{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_2R_2R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_2C_3R_1}}\\ \mathrm{K-LP:} \ -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}\\ \mathrm{K-HP:} \ 0 \end{array}
```

```
K-HP: 0
K-BP: -\frac{C_3R_1R_2R_4R_6}{C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_2R_2R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5} Qz: None
Wz: None
```

9.415 X-INVALID-NUMER-415 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_2C_3C_6R_1R_2R_4\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

```
\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{2}\sqrt{R_{1}}\sqrt{R_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{2}\sqrt{R_{1}}\sqrt{R_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{2}\sqrt{R_{1}}\sqrt{R_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{2}\sqrt{R_{1}}\sqrt{R_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{2}\sqrt{R_{1}}\sqrt{R_{2}+C_{1}
                    wo: \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4}
                                                                                                                                                                                                                                                                                                                                       \sqrt{R_2 + R_4} (C_1 R_1 R_2 + C_1 R_1 R_4 + C_2 R_2 R_4 + C_3 R_1 R_4 + C_3 R_2 R_4 - C_5 R_2 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4 + C_3 R_1 R_2 
                   K-LP: 0
               K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} K-BP: \frac{C_3C_5R_1R_2R_4}{C_1C_6R_1R_2+C_1C_6R_1R_4+C_2C_6R_2R_4+C_3C_6R_1R_4+C_3C_6R_2R_4-C_5C_6R_2R_4} Qz: None
                    Wz: None
9.416 X-INVALID-NUMER-416 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, R_6\right)
                                                                                                                         H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_1C_2R_1R_2R_4R_5 + C_1C_3R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5 + C_2C_3R_1R_2R_4R_5\right) + s\left(-C_1R_1R_2R_4 + C_1R_1R_2R_5 + C_1R_1R_4R_5 + C_2R_2R_4R_5 + C_3R_1R_4R_5 + C_3R_2R_4R_5 - C_5R_2R_4R_5\right)}
          Parameters:
                    Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}-C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_5}{C_1C_2+C_1C_
                   \frac{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}
                    K-LP: 0
                   K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}
                  K-BP: -\frac{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}+C_{5}R_{2}R_{4}R_{5}}{C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}+C_{5}R_{2}R_{4}R_{5}}
                      Qz: None
                    Wz: None
9.417 X-INVALID-NUMER-417 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4
              H(s) = \frac{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + c_2C_3C_3C_6R_1R_2R_4R_5 + c_2C_3C_3C_6R_1R_2R_4R_5 + c_2C_3C_3C_3C_3R_4R_5 + c_2C_3C_3C_3C
           Parameters:
                   Q: \frac{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} - C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{4}R_{5}}{C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{4}R_{
                   wo: \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5+C_2C_3R_1R_2R_4R_5}}
                   \frac{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}
                 K-LP: -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}
                  \text{K-BP:} - \frac{C_3C_5R_1R_2R_4R_5}{C_1C_6R_1R_2R_4 - C_1C_6R_1R_2R_5 - C_1C_6R_1R_4R_5 - C_2C_6R_2R_4R_5 - C_3C_6R_1R_4R_5 - C_3C_6R_2R_4R_5 + C_5C_6R_2R_4R_5}
                    Qz: None
                    Wz: None
9.418 X-INVALID-NUMER-418 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_3C_6R_1R_2R_6s + C_3R_1R_2
                                                                                                                                                                                            H(s) = \frac{1}{-C_{6}R_{2} + C_{6}R_{5} + s^{2}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{5} + C_{2}C_{3}C_{6}R_{1}R_{2}R_{5}\right) + s\left(-C_{1}C_{6}R_{1}R_{2} + C_{1}C_{6}R_{1}R_{5} + C_{2}C_{6}R_{2}R_{5} + C_{3}C_{6}R_{1}R_{5} + C_{3}C_{6}R_{1}R_{5} + C_{4}C_{6}R_{2}R_{5}\right)}
          Parameters:
                  bandwidth: -\frac{C_1R}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{C_1C_2+C_1C_2}}

K-LP: -\frac{C_3R_1R_2}{C_6R_2-C_6R_5}
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K-HP: 0
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K-BP: $-\frac{C_3R_1R_2R_6}{C_1R_1R_2 - C_1R_1R_5 - C_2R_2R_5 - C_3R_1R_5 - C_3R_2R_5 - C_4R_2R_5}$

Qz: None Wz: None

9.419 X-INVALID-NUMER-419 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_6 + s^2\left(C_1C_2C_6R_1R_2 + C_1C_3C_6R_1R_2 + C_1C_4C_6R_1R_2 - C_1C_5C_6R_1R_2 + C_2C_3C_6R_1R_2\right) + s\left(C_1C_6R_1 + C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2\right)}$

Parameters:

 $\underbrace{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{1}+C_{2}R_{2}+C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_3R_1R_2+C_1C_4R_1R_2-C_1C_5R_1R_2+C_2C_3R_1R_2}}$

 $(C_1R_1 + C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_1C_4R_1R_2 - C_1C_5R_1R_2 + C_2C_3R_1R_2}}$

K-LP: 0

 $\begin{array}{l} \text{K-HP:} \ \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP:} \ \frac{C_3C_5R_1R_2}{C_1C_6R_1+C_2C_6R_2+C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: None

9.420 X-INVALID-NUMER-420 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^2\left(C_1C_2R_1R_2R_5 + C_1C_3R_1R_2R_5 + C_1C_4R_1R_2R_5 - C_1C_5R_1R_2R_5 + C_2C_3R_1R_2R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_2R_2R_5 + C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5 - C_5R_2R_5\right)}$

Parameters:

 $Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}+\frac{R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_3$ Wo: $\sqrt{\frac{-R_2+R_5}{C_1C_2R_1R_2R_5+C_1C_3R_1R_2R_5+C_1C_4R_1R_2R_5-C_1C_5R_1R_2R_5+C_2C_3R_1R_2R_5}}$

 $\sqrt{\frac{-R_2+R_5}{C_1C_2R_1R_2R_5+C_1C_3R_1R_2R_5+C_1C_4R_1R_2R_5-C_1C_5R_1R_2R_5+C_2C_3R_1R_2R_5}}(C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5+C_5R_2R_5)$ $\frac{\sqrt{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}-C_1C_4\sqrt{-\frac{R_2}{C$

K-LP: 0

 $\begin{array}{l} \text{K-HP: } \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP: } -\frac{C_3R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_2R_6}{C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5+C_5R_2R_5} \\ \text{Qz: None} \end{array}$

Wz: None

9.421 X-INVALID-NUMER-421 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_5s + C_3R_1R_2$ $H(s) = \frac{1}{-C_6R_2 + C_6R_5 + s^2\left(C_1C_2C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_5 + C_2C_3C_6R_1R_2R_5\right) + s\left(-C_1C_6R_1R_2 + C_1C_6R_1R_5 + C_2C_6R_2R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_3C_6R_2R_5 + C_3C_6R_2R_5 + C_3C_6R_2R_5 + C_3C_6R_2R_5 + C_3C_6R_2R_5\right)}$

Parameters:

 $Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}+\frac{R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{-C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5+C_5R_2R_5}} + C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{-C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5+C_5R_2R_5}} + C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5+C_5R_2R_5}} + C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} + C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{$

Wo: $\sqrt{\frac{-R_2+R_5}{C_1C_2R_1R_2R_5+C_1C_3R_1R_2R_5+C_1C_4R_1R_2R_5-C_1C_5R_1R_2R_5+C_2C_3R_1R_2R_5}}$

 $\sqrt{\frac{-R_2+R_5}{C_1C_2R_1R_2R_5+C_1C_3R_1R_2R_5+C_1C_4R_1R_2R_5-C_1C_5R_1R_2R_5+C_2C_3R_1R_2R_5}}(C_1R_1R_2-C_1R_1R_5-C_2R_2R_5-C_3R_1R_5-C_3R_2R_5-C_4R_2R_5+C_5R_2R_5)$ $\frac{\sqrt{\sqrt{1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_1}\sqrt{-\frac{R_2}{C_1C_2+C_1C_3+C_1C_3+C_1C$

K-LP: $-\frac{C_3R_1R_2}{C_6R_2-C_6R_5}$

K-HP: 0

 $\text{K-BP:} - \frac{C_3C_5R_1R_2R_5}{C_1C_6R_1R_2 - C_1C_6R_1R_5 - C_2C_6R_2R_5 - C_3C_6R_1R_5 - C_3C_6R_2R_5 - C_4C_6R_2R_5 + C_5C_6R_2R_5}$

Qz: None

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9.422 X-INVALID-NUMER-422 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4
              H(s) = \frac{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_4R_5 + C_1C_6R_1R_4R
           Parameters:
                 Q:  -\frac{\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}\sqrt{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}+C_{2}C_{3}}}{C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{5}-C_{1}R_{1}R_{4}R_{5}-C_{2}R_{2}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{2}R_{4}R_{5}-C_{4}R_{2}R_{4}R_{5}}} 
wo:  \frac{\sqrt{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}}{\sqrt{C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{4}R_{5}}} 
bandwidth:  -\frac{C_{1}R_{1}R_{2}R_{4}-C_{1}R_{1}R_{2}R_{4}+C_{1}C_{3}+C_{1}C_{4}+C_{2}C_{3}\sqrt{C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C_{3}R_{1}R_{4}R_{5}-C
                    K-LP: -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5} K-HP: 0
                     \text{K-BP:} - \frac{C_3 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_4 - C_1 R_1 R_2 R_5 - C_1 R_1 R_4 R_5 - C_2 R_2 R_4 R_5 - C_3 R_1 R_4 R_5 - C_3 R_2 R_4 R_5 - C_4 R_2 R_4 R_5}
                      Wz: None
9.423 X-INVALID-NUMER-423 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s
                                                                                                                           H(s) = \frac{1}{C_6R_2 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_2C_3C_6R_1R_2R_4 + C_1C_6R_1R_2 + C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_
           Parameters:
                                          + \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{C_1R_1R_2+C_1R_1R_4+C_2R_2R_4+C_3R_1R_4+C_3R_2R_4+C_4R_2R_4} - C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{C_1R_1R_2+C_1R_1R_4+C_2R_2R_4+C_3R_1R_4+C_3R_2R_4+C_4R_2R_4-C_5R_2R_4} \\ - \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{C_1R_1R_2+C_1R_1R_4+C_2R_2R_4+C_3R_1R_4+C_3R_2R_4+C_4R_2R_4-C_5R_2R_4} \\ - \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{C_1R_1R_2+C_1R_1R_4+C_2R_2R_4+C_3R_1R_4+C_3R_2R_4+C_4R_2R_4-C_5R_2R_4} \\ - \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_2+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{C_1R_1R_2+C_1R_1R_4+C_2R_2R_4+C_3R_1R_4+C_3R_2R_4+C_4R_2R_4-C_5R_2R_4} \\ - \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{
                      wo: \sqrt{R_2 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 + C_1 C_4 R_1 R_2 R_4 - C_1 C_5 R_1 R_2 R_4 + C_2 C_3 R_1 R_2 R_4}
                   \frac{\sqrt{R_2 + R_4} (C_1 R_1 R_2 + C_1 R_1 R_4 + C_2 R_2 R_4 + C_3 R_1 R_4 + C_3 R_2 R_4 + C_4 R_2 R_4 - C_5 R_2 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_4 + C_1 C_3 R_1 R_2 R_4 + C_1 C_5 R_
                       K-LP: 0
                      K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}
                    K-BP: \frac{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}C_{6}R_{1}R_{2}+C_{1}C_{6}R_{1}R_{4}+C_{2}C_{6}R_{2}R_{4}+C_{3}C_{6}R_{1}R_{4}+C_{3}C_{6}R_{2}R_{4}+C_{4}C_{6}R_{2}R_{4}+C_{5}C_{6}R_{2}R_{4}}{\text{Qz: None}}
                       Wz: None
9.424 X-INVALID-NUMER-424 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)
                                                                                      \frac{C_{3}C_{5}R_{1}R_{2}R_{4}R_{5}s^{2}+C_{3}R_{1}R_{2}R_{4}R_{6}s}{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}R_{1}
           Parameters:
```

$$Q: \frac{-c_{1}c_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}c_{2}+c_{1}c_{3}+c_{1}c_{4}-c_{1}c_{5}+c_{2}c_{3}}{C_{1}c_{2}+c_{1}c_{3}+c_{1}c_{4}-c_{1}c_{5}+c_{2}c_{3}}} - c_{1}c_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}c_{2}+c_{1}c_{3}+c_{1}c_{4}-c_{1}c_{5}+c_{2}c_{3}}{C_{1}c_{2}+c_{1}c_{3}+c_{1}c_{4}-c_{1}c_{5}+c_{2}c_{3}}} - c_{1}c_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}c_{2}+c_{1}c_{3}+c_{1}c_{4}-c_{1}c_{5}+c_{2}c_{3}}{C_{1}R_{2}R_{4}R_{5}-c_{1}R_{1}R_{2}R_{5}-c_{1}R_{1}R_{2}R_{5}-c_{1}R_{1}R_{2}R_{5}-c_{1}R_{1}R_{2}R_{5}-c_{1}R_{1}R_{2}R_{5}-c_{1}R_{2}R_{4}R_{5}-c_{1}c_{2}R_{2}R_{4}R_{5}-c_{1}c_{2}R_{2}R_{4}R_{5}-c_{1}c_{2}R_{4}R_{5}-c_{2}R_{4}R_{5}}} \\ bandwidth: \frac{-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}}{-C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}+c_{1}C_{3}R_{1}R_{2}R_{4}R_{5}-c_{1}C_{5}R_{2}R_{4}R_{5}-c_{1}C_{5}R_{4}R_{5}-c_{2}R_{4}R_{5}-c_{2}C_{5}R_{4}R_{5}-c_{2}C_{5}R_{4}R_{5}-c_{2}C_{5}R_{4}R_{5}-c_{2}C_{5}R_{4}R_{5}-c_{2}R_{4}R_{5}-c_{2}C_{5}R_{4}R_{5}-c_{2}R_{4}R_{5}-c_{2}C_{5}R_{4}R_{5}-c_{2}R_{4}R_{5}$$

9.425 X-INVALID-NUMER-425 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5 - C_1C_5C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4 + C_1C_6R$

Parameters:

Qz: None Wz: None

```
\frac{R_4 R_5}{-C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3} - C_1 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_2 R_4}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3} + \frac{R_2 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_1 C_5 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1 C_2 + C_1 C_3 + C_2 C_3} + \frac{R_4 R_5}{C_1
                       Wo: \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_1C_4R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5+C_2C_3R_1R_2R_4R_5}
                                                                                                               -C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}-C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+
                     K-LP: -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}
                      K-HP: 0
                      \text{K-BP:} - \frac{C_3C_5R_1R_2R_4R_5}{C_1C_6R_1R_2R_4 - C_1C_6R_1R_2R_5 - C_1C_6R_1R_4R_5 - C_2C_6R_2R_4R_5 - C_3C_6R_1R_4R_5 - C_3C_6R_2R_4R_5 - C_3C_6R_2R_4R_5 - C_4C_6R_2R_4R_5 + C_5C_6R_2R_4R_5 - C_4C_6R_2R_4R_5 - C_4C_6R_4R_4R_5 - C_4C_6R_4R_5 - C_4C_6R_4R_5 - C_4C_6R_4R_5 - C_4C_6R_5R_5R_5 - C_4C_6R_5R_5 - C_4C_6R_5R_5 - C_4C_6R_5R_5 - C_4C_6R_5R_5 
                          Qz: None
                       Wz: None
9.426 X-INVALID-NUMER-426 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6
H(s) = \frac{c_{3}c_{1}c_{2}c_{3}c_{4}c_{0}c_{0}}{R_{1}R_{4}R_{5} - R_{2}R_{3}R_{4} + R_{2}R_{3}R_{5} + R_{2}R_{4}R_{5} + R_{3}R_{4}R_{5} + C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{1}R_{1}R_{2}R_{3}R_{4} + C_{1}R_{1}R_{2}R_{3}R_{4} + C_{1}R_{1}R_{2}R_{3}R_{4} + C_{1}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}R_{1}R_{2}R_{4}R_{5} + C_{2}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}R_{1}R_{2}R_{3}R_
        Parameters:
                      bandwidth: -\frac{1}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2R_1R_2R_3R_4R_5+C_1C_3}}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_2C_3}\sqrt{C_1C_2R_1R_2R_3R_4R_5+C_1C_3}}
K-LP: \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}
                     \text{K-BP:} - \frac{C_3 R_1 R_2 R_3 R_4 R_6}{C_1 R_1 R_2 R_3 R_4 - C_1 R_1 R_2 R_3 R_5 - C_1 R_1 R_2 R_4 R_5 - C_1 R_1 R_3 R_4 R_5 - C_2 R_1 R_2 R_4 R_5 - C_2 R_2 R_3 R_4 R_5 - C_3 R_1 R_3 R_4 R_5 - C_3 R_2 R_3 R_4 R_5}
                          Qz: None
                          Wz: None
9.427 X-INVALID-NUMER-427 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s
                                                                                  H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_1C_5R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4 + C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_3R_3R_4 + C_3R_3R_3R_4 + C_3R_3R_4 + C_
           Parameters:
                                          \underbrace{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}}{C_{1}R_{1}R_{2}R_{3}+C_{1}R_{1}R_{2}R_{4}+C_{1}R_{1}R_{3}R_{4}+C_{2}R_{1}R_{2}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}R_{4}+C_{3}R_{1}R_{3}+C_{3}R_{3}+C_{3}R_{3}+C_{3}R_{3}+C_{3}R_{3}+C_{3}R_{3}+
                       wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} (C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4) \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4 + C_3R_2R_3R_4 + C_3R_3R_4 + C_3R_2R_3R_4 + C_3R_
                      K-LP: 0
                     K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}
                      \text{K-BP: } \frac{C_5 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_3 R_1 R_3 R_4 + C_3 R_2 R_3 R_4 - C_5 R_2 R_3 R_4} 
                          Qz: None
                       Wz: None
9.428 X-INVALID-NUMER-428 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4
H(s) = \frac{1}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_2C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_
        Parameters:
                                          . \frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{
                      wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} (C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4) \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4 + C_3R_2R_3R_4 + C_3R_3R_3R_4 + C_3R_3R_4 +
                       \frac{1}{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R
                     K-LP: \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4}
```

K-HP: 0

 $\text{K-BP: } \frac{C_3C_5R_1R_2R_3R_4}{C_1C_6R_1R_2R_3+C_1C_6R_1R_2R_4+C_1C_6R_1R_3R_4+C_2C_6R_1R_2R_4+C_2C_6R_2R_3R_4+C_3C_6R_1R_3R_4+C_3C_6R_2R_3R_4+C_3C_6R_3R_3R_4+C_3C_5R_3R_3R_4+C_3C_5R_3R_3C_5R_3R_3R_3+C_3C_5R_3R_3R_3+C_3C_5R_3R_3R_3+C_3C_3R_3R_3+C_3C_3$

Qz: None

Wz: None

9.429 X-INVALID-NUMER-429 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, R_6\right)$

 $C_3R_1R_2R_3R_6s + R_1R_2R_6$

 $H(s) = \frac{\frac{c_3 R_1 R_2 R_3 R_5 + R_1 R_2 R_3 + R_2 R_5 + R_3 R_5 + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_5 + C_1 C_3 R_1 R_2 R_3 R_5 + C_2 C_3 R_1 R_2 R_3 R_5 \right) + s \left(-C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_5 + C_1 R_1 R_2 R_5 + C_2 R_2 R_3 R_5 + C_3 R_1 R_3 R_5 + C_3 R_2 R_3 R_5 + C_4 R_2 R_3 R_5 \right)}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_5 + C_1 C_4 R_1 R_2 R_3 R_5 + C_2 C_3 R_1 R_2 R_3 R_5 \right) + s \left(-C_1 R_1 R_2 R_3 + C_1 R_1 R_3 R_5 + C_2 R_2 R_3 R_5 + C_3 R_1 R_3 R_5 + C_3 R_2 R_3 R_5 \right) + s \left(-C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_5 + C_2 R_1 R_2 R_5 + C_2 R_2 R_3 R_5 + C_3 R_1 R_3 R_5 + C_3 R_2 R_3 R_5 \right)$

Parameters:

Q: $-\frac{\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_2R_5-C_2R_1R_2R_5-C_2R_2R_3R_5-C_3R_1R_3R_5-C_3R_2R_3R_5-C_4R_2R_3R_5}$ wo: $\frac{\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{\sqrt{C_1C_2R_1R_2R_3R_5+C_1C_3R_1R_2R_3R_5+C_1C_4R_2R_3R_5}}$ bandwidth: $-\frac{C_1R_2R_3-C_1R_1R_2R_3-C_1R_1R_2R_5-C_1R_1R_3R_5-C_2R_1R_2R_3-C_3R_1R_3R_5-C_3R_2R_3R_5-C_4R_2R_3R_5}{\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{C_1C_2+C_1C_3+C_1C_4+C_2C_3}\sqrt{C_1C_2R_1R_2R_3R_5+C_1C_3R_1R_2R_3R_5+C_1C_4R_1R_2R_3R_5+C_2C_3R_1}}$ K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: 0

 $\text{K-BP:} - \frac{C_3 R_1 R_2 R_3 R_6}{C_1 R_1 R_2 R_3 - C_1 R_1 R_2 R_5 - C_1 R_1 R_3 R_5 - C_2 R_1 R_2 R_5 - C_2 R_2 R_3 R_5 - C_3 R_1 R_3 R_5 - C_3 R_2 R_3 R_5 - C_4 R_2 R_3 R_5}$

Qz: None Wz: None

9.430 X-INVALID-NUMER-430 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^2\left(C_1C_2R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_5R_1R_2R_3 + C_2C_3R_1R_2R_3 + C_1R_1R_2 + C_1R_1R_3 + C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 - C_5R_2R_3\right)}{R_1 + R_2 + R_3 + s^2\left(C_1C_2R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_5R_1R_2R_3 + C_2C_3R_1R_2R_3 + C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 - C_5R_2R_3\right)}$

Parameters:

 $+ \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_3 + C_1 C_3 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3}$

 $\sqrt{R_1 + R_2 + R_3} (C_1 R_1 R_2 + C_1 R_1 R_3 + C_2 R_1 R_2 + C_2 R_2 R_3 + C_3 R_1 R_3 + C_3 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3) \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_3 + C_1 C_3 R_1 R_2 R_3 + C_1 C_5 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3 + C_3 R_1 R_3 + C_3 R_$ $\frac{\sqrt{-1-2-1-2-3-1$

K-LP: 0

 $\begin{array}{l} \text{K-HP:} \ \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP:} \ \frac{C_5R_1R_2R_6}{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3} \\ \end{array}$

Qz: None

Wz: None

9.431 X-INVALID-NUMER-431 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_3s + C_5R_1R_2$ $H(s) = \frac{-3.5311.2233 + 3.511.2}{C_6R_1 + C_6R_2 + C_6R_3 + s^2 \left(C_1C_2C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_3 + C_1C_5C_6R_1R_2R_3 + C_1C_5C_6R_1R_2R_3 + C_1C_6R_1R_2 + C_1C_6R_1R_2 + C_1C_6R_1R_3 + C_2C_6R_1R_2 + C_1C_6R_1R_3 + C_2C_6R_1R_3 + C_3C_6R_1R_3 + C_3$

Parameters:

 $Q: \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_3 + C_1 C_3 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3}$

 $\sqrt{R_1 + R_2 + R_3} (C_1 R_1 R_2 + C_1 R_1 R_3 + C_2 R_1 R_2 + C_2 R_2 R_3 + C_3 R_1 R_3 + C_3 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3) \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_3 + C_1 C_3 R_1 R_2 R_3 + C_1 C_5 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3 + C_3 R_1 R_$

 $\frac{\text{bandwidth:}}{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt$

K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$

K-HP: 0

K-BP: $\frac{C_3C_5R_1R_2R_3}{C_1C_6R_1R_2+C_1C_6R_1R_3+C_2C_6R_1R_2+C_2C_6R_2R_3+C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3-C_5C_6R_2R_3}$ Qz: None

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9.432 X-INVALID-NUMER-432 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6
H(s) = \frac{1}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + C_1 C_2 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 R_1 R_2 R_3 R_4 R_5 + C_1 R_1 R_2 R_3 R_4 + C_1 R_1 R_2 R_3 
        Parameters:
                   Wz: None
9.433 X-INVALID-NUMER-433 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s
                                            \overline{R_{1}R_{4} + R_{2}R_{3} + R_{2}R_{4} + R_{3}R_{4} + s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{
        Parameters:
                                   : \frac{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4
                   wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4}}
                \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_2R_3R_4 + C_3R_2R_3R
                    K-LP: 0
                 K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}
                   \begin{array}{l} \text{K-BP:} \  \  \frac{C_5 R_1 R_2 R_4 R_6}{C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_2 R_1 R_2 R_4 + C_3 R_3 R_4 + C_3 R_2 R_3 R_4 + C_4 R_2 R_3 R_4 - C_5 R_2 R_3 R_4} \\ \text{CONTRACTOR } \end{array} 
                    Wz: None
9.434 X-INVALID-NUMER-434 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4
                                             \frac{-\frac{1}{3}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{6}R_{2}R_{3}+C_{6}R_{2}R_{4}+C_{6}R_{3}R_{4}+c_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_
                                    \underbrace{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}}_{C_{1}R_{1}R_{2}R_{3}+C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3}R_{4}+C_{3}R_{3
                   wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4)\sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1R_2R_3R_4 + C_1R
                   K-LP: \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}
                    K-HP: 0^{\circ}
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10 X-INVALID-ORDER

10.1 X-INVALID-ORDER-1 $Z(s) = (R_1, R_2, R_3, R_4, R_5, R_6)$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}$$

10.2 X-INVALID-ORDER-2 $Z(s) = \left(R_1, R_2, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{R_1 R_2 R_4}{s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5 \right)}$$

10.3 X-INVALID-ORDER-3 $Z(s) = \left(R_1, R_2, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_6R_1R_2R_4R_6s + R_1R_2R_4}{s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.4 X-INVALID-ORDER-4 $Z(s) = \left(R_1, R_2, R_3, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(C_6 R_1 R_4 R_5 R_6 - C_6 R_2 R_3 R_4 R_6 + C_6 R_2 R_3 R_5 R_6 + C_6 R_2 R_4 R_5 R_6 + C_6 R_3 R_4 R_5 R_6\right)}$$

10.5 X-INVALID-ORDER-5 $Z(s) = \left(R_1, R_2, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{-C_5 R_2 R_3 R_4 s + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4}$$

10.6 X-INVALID-ORDER-6 $Z(s) = \left(R_1, R_2, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4}{-C_5 C_6 R_2 R_3 R_4 s + C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4}$$

10.7 X-INVALID-ORDER-7 $Z(s) = \left(R_1, R_2, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{-C_5C_6R_2R_3R_4s + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4}$$

10.8 X-INVALID-ORDER-8 $Z(s) = \left(R_1, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s \left(C_5 R_1 R_4 R_5 - C_5 R_2 R_3 R_4 + C_5 R_2 R_3 R_5 + C_5 R_2 R_4 R_5 + C_5 R_3 R_4 R_5\right)}$$

10.9 X-INVALID-ORDER-9 $Z(s) = \left(R_1, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s \left(C_5 C_6 R_1 R_4 R_5 - C_5 C_6 R_2 R_3 R_4 + C_5 C_6 R_2 R_3 R_5 + C_5 C_6 R_2 R_4 R_5 + C_5 C_6 R_3 R_4 R_5\right)}$$

10.10 X-INVALID-ORDER-10 $Z(s) = \left(R_1, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_5C_6R_1R_4R_5 - C_5C_6R_2R_3R_4 + C_5C_6R_2R_3R_5 + C_5C_6R_2R_4R_5 + C_5C_6R_3R_4R_5\right)}$$

10.11 X-INVALID-ORDER-11 $Z(s) = \left(R_1, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_5 R_6 s + R_1 R_2 R_4 R_6}{-C_5 R_2 R_3 R_4 R_5 s + R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}$$

10.12 X-INVALID-ORDER-12 $Z(s) = \left(R_1, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_5 s + R_1 R_2 R_4}{-C_5 C_6 R_2 R_3 R_4 R_5 s^2 + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$$

10.13 X-INVALID-ORDER-13 $Z(s) = \left(R_1, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 C_6 R_1 R_2 R_4 R_5 R_6 s^2 + R_1 R_2 R_4 + s \left(C_5 R_1 R_2 R_4 R_5 + C_6 R_1 R_2 R_4 R_6\right)}{-C_5 C_6 R_2 R_3 R_4 R_5 s^2 + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$$

10.14 X-INVALID-ORDER-14 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_2 R_6}{C_4 R_2 R_3 R_5 s + R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5}$$

10.15 X-INVALID-ORDER-15 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{R_1 R_2}{C_4 C_6 R_2 R_3 R_5 s^2 + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5\right)}$$

10.16 X-INVALID-ORDER-16 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_6 R_1 R_2 R_6 s + R_1 R_2}{C_4 C_6 R_2 R_3 R_5 s^2 + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5 \right)}$$

10.17 X-INVALID-ORDER-17 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s \left(C_4 R_2 R_3 - C_5 R_2 R_3\right)}$$

10.18 X-INVALID-ORDER-18 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s \left(C_4 C_6 R_2 R_3 - C_5 C_6 R_2 R_3\right)}$$

10.19 X-INVALID-ORDER-19 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 C_6 R_1 R_2 R_6 s + C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s \left(C_4 C_6 R_2 R_3 - C_5 C_6 R_2 R_3\right)}$$

10.20 X-INVALID-ORDER-20 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_6 s}{C_4 C_5 C_6 R_2 R_3 R_5 R_6 s^3 + R_1 + R_2 + R_3 + s^2 \left(C_4 C_5 R_2 R_3 R_5 + C_4 C_6 R_2 R_3 R_6 + C_5 C_6 R_1 R_5 R_6 - C_5 C_6 R_2 R_3 R_6 + C_5 C_6 R_2 R_5 R_6 + C_5 C_6 R_2 R_5 R_6 + C_5 C_6 R_2 R_3 R_5 + C_5 R_2 R_3 + C_5 R_2 R_3 + C_5 R_2 R_5 + C_5 R_3 R_5 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_6 R_6$$

10.21 X-INVALID-ORDER-21 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_5 R_6 s + R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s \left(C_4 R_2 R_3 R_5 - C_5 R_2 R_3 R_5\right)}$$

10.22 X-INVALID-ORDER-22 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_5 s + R_1 R_2}{s^2 \left(C_4 C_6 R_2 R_3 R_5 - C_5 C_6 R_2 R_3 R_5 \right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5 \right)}$$

10.23 X-INVALID-ORDER-23 $Z(s) = \left(R_1, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 C_6 R_1 R_2 R_5 R_6 s^2 + R_1 R_2 + s \left(C_5 R_1 R_2 R_5 + C_6 R_1 R_2 R_6\right)}{s^2 \left(C_4 C_6 R_2 R_3 R_5 - C_5 C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5\right)}$$

10.24 X-INVALID-ORDER-24 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_4 R_1 R_2 R_4 R_6 s + R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s \left(C_4 R_1 R_4 R_5 - C_4 R_2 R_3 R_4 + C_4 R_2 R_3 R_5 + C_4 R_2 R_4 R_5 + C_4 R_3 R_4 R_5 \right)}$$

10.25 X-INVALID-ORDER-25 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4 R_1 R_2 R_4 s + R_1 R_2}{s^2 \left(C_4 C_6 R_1 R_4 R_5 - C_4 C_6 R_2 R_3 R_4 + C_4 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_4 R_5 + C_4 C_6 R_3 R_4 R_5 \right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5 \right)}$$

10.26 X-INVALID-ORDER-26 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4C_6R_1R_2R_4R_6s^2 + R_1R_2 + s\left(C_4R_1R_2R_4 + C_6R_1R_2R_6\right)}{s^2\left(C_4C_6R_1R_4R_5 - C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_2R_4R_5 + C_4C_6R_3R_4R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$$

10.27 X-INVALID-ORDER-27 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s}{-C_4C_5C_6R_2R_3R_4R_6s^3 + R_1 + R_2 + R_3 + s^2\left(-C_4C_5R_2R_3R_4 + C_4C_6R_1R_4R_6 + C_4C_6R_2R_3R_6 + C_4C_6R_2R_3R_6\right) + s\left(C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3 + C_6R_1R_6 + C_6R_2R_6\right)}$$

10.28 X-INVALID-ORDER-28 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s$$

 $\frac{\smile_{4} \cup_{5} \iota_{1} \iota_{2} \iota_{4} \iota_{6} \cup \cdots \cup_{5} \iota_{4} \iota_{4} \cup \cdots \cup_{5} \iota_{4} \cup_{5} \iota_{6} \cup \cdots \cup_{5} \iota_{6}$

10.29 X-INVALID-ORDER-29 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4C_5R_1R_2R_4R_5s^2 + R_1R_2 + s\left(C_4R_1R_2R_4 + C_5R_1R_2R_5\right)}{-C_4C_5C_6R_2R_3R_4R_5s^3 + s^2\left(C_4C_6R_1R_4R_5 - C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_2R_4R_5 + C_4C_6R_3R_4R_5 - C_5C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$$

10.30 X-INVALID-ORDER-30 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4C_5C_6R_1R_2R_4R_5R_6s^3 + R_1R_2 + s^2\left(C_4C_5R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_6 + C_5C_6R_1R_2R_5R_6\right) + s\left(C_4R_1R_2R_4 + C_5R_1R_2R_5 + C_6R_1R_2R_6\right)}{-C_4C_5C_6R_2R_3R_4R_5s^3 + s^2\left(C_4C_6R_1R_4R_5 - C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_2R_4R_5 + C_4C_6R_4R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_5R_5 + C_4C_6R_$$

10.31 X-INVALID-ORDER-31 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4R_5R_6s^2 + R_1R_2R_6 + s\left(C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)}{-C_4C_5C_6R_2R_3R_4R_5R_6s^3 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(-C_4C_5R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_6 + C_4C_6R_2R_3R_4R_5R_6 - C_5C_6R_2R_3R_5R_6\right) + s\left(C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_4R_5\right) + s\left(C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_3R_5\right) + s\left(C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_3R_5\right) + s\left(C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_3R_5\right) + s\left(C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5\right) + s\left(C_4R_1R_4R_5 - C_4R_3R_4R_5\right) + s\left(C_4R_1R_4R_5 - C_4R_4R_5\right) + s\left(C_4R_4R_5R_5\right) + s$

10.32 X-INVALID-ORDER-32 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{C_4 R_2 R_3 R_4 R_5 s + R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5}$$

10.33 X-INVALID-ORDER-33 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)$

$$H(s) = \frac{R_1 R_2 R_4}{C_4 C_6 R_2 R_3 R_4 R_5 s^2 + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$$

10.34 X-INVALID-ORDER-34 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_6R_1R_2R_4R_6s + R_1R_2R_4}{C_4C_6R_2R_3R_4R_5s^2 + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.35 X-INVALID-ORDER-35 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s \left(C_4 R_2 R_3 R_4 - C_5 R_2 R_3 R_4\right)}$$

10.36 X-INVALID-ORDER-36 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s \left(C_4 C_6 R_2 R_3 R_4 - C_5 C_6 R_2 R_3 R_4 \right)}$$

10.37 X-INVALID-ORDER-37 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 C_6 R_1 R_2 R_4 R_6 s + C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s \left(C_4 C_6 R_2 R_3 R_4 - C_5 C_6 R_2 R_3 R_4\right)}$$

10.38 X-INVALID-ORDER-38 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

$$C_5R_1R_2R_4R_6s$$

 $\frac{C_{5}R_{1}R_{2}R_{4}R_{6}s}{C_{4}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}R_{6}s^{3}+R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}+s^{2}\left(C_{4}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{4}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}R_{2}R_{$

10.39 X-INVALID-ORDER-39 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_5 R_6 s + R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(C_4 R_2 R_3 R_4 R_5 - C_5 R_2 R_3 R_4 R_5\right)}$$

10.40 X-INVALID-ORDER-40 $Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_5R_1R_2R_4R_5s + R_1R_2R_4}{s^2\left(C_4C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.41 X-INVALID-ORDER-41
$$Z(s) = \left(R_1, R_2, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_5C_6R_1R_2R_4R_5R_6s^2 + R_1R_2R_4 + s\left(C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{s^2\left(C_4C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.42 X-INVALID-ORDER-42 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s \left(C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5\right)}$$

10.43 X-INVALID-ORDER-43 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_4}{-C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s \left(C_3 C_6 R_1 R_4 R_5 + C_3 C_6 R_2 R_4 R_5\right)}$$

10.44 X-INVALID-ORDER-44 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5\right)}$$

10.45 X-INVALID-ORDER-45 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3 C_5 R_1 R_2 R_4 R_6 s^2}{R_2 + R_4 + s \left(C_3 R_1 R_4 + C_3 R_2 R_4 - C_5 R_2 R_4 \right)}$$

10.46 X-INVALID-ORDER-46 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 C_5 R_1 R_2 R_4 s}{C_6 R_2 + C_6 R_4 + s \left(C_3 C_6 R_1 R_4 + C_3 C_6 R_2 R_4 - C_5 C_6 R_2 R_4 \right)}$$

10.47 X-INVALID-ORDER-47 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

10.48 X-INVALID-ORDER-48 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.49 X-INVALID-ORDER-49 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s\left(C_3R_1R_4R_5 + C_3R_2R_4R_5 - C_5R_2R_4R_5\right)}$$

10.50 X-INVALID-ORDER-50 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$$

10.51 X-INVALID-ORDER-51
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$$

10.52 X-INVALID-ORDER-52
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s \left(C_3 R_1 R_5 + C_3 R_2 R_5 + C_4 R_2 R_5\right)}$$

10.53 X-INVALID-ORDER-53
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_1 R_2}{-C_6 R_2 + C_6 R_5 + s \left(C_3 C_6 R_1 R_5 + C_3 C_6 R_2 R_5 + C_4 C_6 R_2 R_5\right)}$$

10.54 X-INVALID-ORDER-54
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_6R_1R_2R_6s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s\left(C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5\right)}$$

10.55 X-INVALID-ORDER-55 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3 C_5 R_1 R_2 R_6 s^2}{s (C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2) + 1}$$

10.56 X-INVALID-ORDER-56 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 C_5 R_1 R_2 s}{C_6 + s \left(C_3 C_6 R_1 + C_3 C_6 R_2 + C_4 C_6 R_2 - C_5 C_6 R_2 \right)}$$

10.57 X-INVALID-ORDER-57 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_6 + s\left(C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2\right)}$$

10.58 X-INVALID-ORDER-58 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_3C_5C_6R_1R_5R_6 + C_3C_5C_6R_2R_5R_6 + C_4C_5C_6R_2R_5R_6\right) + s^2\left(C_3C_5R_1R_5 + C_3C_5R_2R_5 + C_4C_6R_2R_6 + C_4C_5R_2R_5 + C_4C_6R_2R_6 + C_5C_6R_5R_6\right) + s\left(C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_5R_5 + C_6R_6\right) + 1}$$

10.59 X-INVALID-ORDER-59 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s\left(C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5 - C_5R_2R_5\right)}$$

10.60 X-INVALID-ORDER-60 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_5s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s\left(C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5 - C_5C_6R_2R_5\right)}$$

10.61 X-INVALID-ORDER-61 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_5R_6s^2 + C_3R_1R_2 + s\left(C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s\left(C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5 - C_5C_6R_2R_5\right)}$$

10.62 X-INVALID-ORDER-62 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_3C_4C_6R_1R_4R_5R_6 + C_3C_4C_6R_2R_4R_5R_6\right) + s^2\left(C_3C_4R_1R_4R_5 + C_3C_4R_2R_4R_5 + C_3C_6R_1R_5R_6 + C_3C_6R_2R_5R_6 - C_4C_6R_2R_4R_6 + C_4C_6R_2R_5R_6 + C_4C_6R_5R_6 +$

10.63 X-INVALID-ORDER-63 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^2\left(C_3C_4R_1R_4 + C_3C_4R_2R_4 - C_4C_5R_2R_4\right) + s\left(C_3R_1 + C_3R_2 + C_4R_2 + C_4R_4 - C_5R_2\right) + 1}$$

10.64 X-INVALID-ORDER-64 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{C_6 + s^2\left(C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_4 - C_4C_5C_6R_2R_4\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 + C_4C_6R_4 - C_5C_6R_2\right)}$$

10.65 X-INVALID-ORDER-65 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^3\left(C_3C_4C_6R_1R_4R_6 + C_3C_4C_6R_2R_4R_6 - C_4C_5C_6R_2R_4R_6\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_2R_4 + C_3C_6R_1R_6 + C_3C_6R_2R_6 - C_4C_5R_2R_6 + C_4C_6R_4R_6 - C_5C_6R_2R_6\right) + s\left(C_3R_1 + C_3R_2 + C_4R_4 + C_5R_2 + C_6R_6\right) + 1}$$

10.66 X-INVALID-ORDER-66 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^3\left(C_3C_4C_5R_1R_4R_5 + C_3C_4C_5R_2R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_2R_4 + C_3C_5R_1R_5 + C_3C_5R_2R_5 - C_4C_5R_2R_4 + C_4C_5R_2R_5 + C_4C_5R_4R_5\right) + s\left(C_3R_1 + C_3R_2 + C_4R_4 + C_5R_2 + C_5R_5\right) + 1}$$

10.67 X-INVALID-ORDER-67 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.68 X-INVALID-ORDER-68 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{C_6 + s^3\left(C_3C_4C_5C_6R_1R_4R_5 + C_3C_4C_5C_6R_2R_4 + C_3C_5C_6R_2R_5 - C_4C_5C_6R_2R_4 + C_4C_5C_6R_2R_5 + C_4C_5C_6R_4R_5\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 + C_4C_6R_4 + C_5C_6R_2\right)}$$

10.69 X-INVALID-ORDER-69 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^4\left(C_3C_4C_5C_6R_1R_4R_5R_6 + C_3C_4C_5R_2R_4R_5 + C_3C_4C_5R_2R_4R_5 + C_3C_4C_5R_2R_4R_6 + C_3C_5C_6R_2R_4R_6 + C_3C_5C_6R_4R_5R_6 + C_3C_5C_6R_5R_5R_6 + C_3C_5C_6R_5R_5R_6 + C_3C_5C_6R_5R_5R_5 + C_3C_5C_5R_5R_5 + C_3C_5C_5R_5$$

10.70 X-INVALID-ORDER-70 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_6s + s^2\left(C_3C_4R_1R_2R_4R_6 + C_3C_5R_1R_2R_5R_6\right)}{-R_2 + R_5 + s^2\left(C_3C_4R_1R_4R_5 + C_3C_4R_2R_4R_5 - C_4C_5R_2R_4R_5\right) + s\left(C_3R_1R_5 + C_3R_2R_5 - C_4R_2R_4 + C_4R_2R_5 + C_4R_4R_5 - C_5R_2R_5\right)}$$

$$\textbf{10.71} \quad \textbf{X-INVALID-ORDER-71} \ \ Z(s) = \left(R_1, \ R_2, \ \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 s^3 + C_3 R_1 R_2 + s^2 \left(C_3 C_4 C_5 R_1 R_2 R_4 R_5 + C_3 C_4 C_6 R_1 R_2 R_4 R_6 + C_3 C_5 C_6 R_1 R_2 R_5 R_6\right) + s \left(C_3 C_4 R_1 R_2 R_4 + C_3 C_5 R_1 R_2 R_5 + C_3 C_6 R_1 R_2 R_6\right) }{-C_6 R_2 + C_6 R_5 + s^2 \left(C_3 C_4 C_6 R_1 R_4 R_5 + C_3 C_4 C_6 R_2 R_4 R_5\right) + s \left(C_3 C_6 R_1 R_5 + C_3 C_6 R_2 R_5 + C_4 C_6 R_2 R_5 + C_4 C_6 R_4 R_5\right) }$$

10.72 X-INVALID-ORDER-72 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_6s + s^2\left(C_3C_4R_1R_2R_4R_6 + C_3C_5R_1R_2R_5R_6\right)}{-R_2 + R_5 + s^3\left(C_3C_4C_6R_1R_4R_5R_6 + C_3C_6R_2R_4R_5R_6 - C_4C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_3C_4R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_5 + C_$

10.73 X-INVALID-ORDER-73 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s \left(C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 + C_4 R_2 R_4 R_5\right)}$$

10.74 X-INVALID-ORDER-74 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_4}{-C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s \left(C_3 C_6 R_1 R_4 R_5 + C_3 C_6 R_2 R_4 R_5 + C_4 C_6 R_2 R_4 R_5 \right)}$$

10.75 X-INVALID-ORDER-75 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_4C_6R_2R_4R_5\right)}$$

10.76 X-INVALID-ORDER-76 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3 C_5 R_1 R_2 R_4 R_6 s^2}{R_2 + R_4 + s \left(C_3 R_1 R_4 + C_3 R_2 R_4 + C_4 R_2 R_4 - C_5 R_2 R_4\right)}$$

10.77 X-INVALID-ORDER-77 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

10.78 X-INVALID-ORDER-78 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 - C_5C_6R_2R_4\right)}$$

10.79 X-INVALID-ORDER-79 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_3C_5C_6R_1R_4R_5R_6 + C_3C_5C_6R_2R_4R_5R_6 + C_4C_5C_6R_2R_4R_5 + C_3C_5R_1R_4R_5 + C_3C_6R_2R_4R_6 + C_4C_5R_2R_4R_6 + C_4C_5R_2R_4R_6 + C_4C_5R_2R_4R_6 + C_5C_6R_2R_4R_6 + C_5C_6R_4R_6 + C_5C_6R_4R_6$$

10.80 X-INVALID-ORDER-80 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s\left(C_3R_1R_4R_5 + C_3R_2R_4R_5 + C_4R_2R_4R_5 - C_5R_2R_4R_5\right)}$$

10.81 X-INVALID-ORDER-81
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_4C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$$

10.82 X-INVALID-ORDER-82
$$Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_4C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$$

10.83 X-INVALID-ORDER-83 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s \left(C_3 R_1 R_4 R_5 - C_3 R_2 R_3 R_4 + C_3 R_2 R_3 R_5 + C_3 R_2 R_4 R_5 + C_3 R_3 R_4 R_5\right)}$$

10.84 X-INVALID-ORDER-84 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_4}{-C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s \left(C_3 C_6 R_1 R_4 R_5 - C_3 C_6 R_2 R_3 R_4 + C_3 C_6 R_2 R_3 R_5 + C_3 C_6 R_2 R_4 R_5 + C_3 C_6 R_3 R_4 R_5\right)}$$

10.85 X-INVALID-ORDER-85 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_3R_4R_5\right)}$$

10.86 X-INVALID-ORDER-86 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{-C_3C_5C_6R_2R_3R_4R_6s^3 + R_2 + R_4 + s^2\left(-C_3C_5R_2R_3R_4 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_4R_6 + C_3C_6R_2R_4R_6\right) + s\left(C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_3R_3R_4 - C_5R_2R_4 + C_6R_2R_6 + C_6R_4R_6\right)}$$

10.87 X-INVALID-ORDER-87 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_3C_5C_6R_1R_4R_5R_6 - C_3C_5C_6R_2R_3R_4R_6 + C_3C_5C_6R_2R_3R_4R_5R_6 + C_3C_5C_6R_2R_4R_5R_6 + C_3C_5C_6R_2R_4R_5R_6 + C_3C_5C_6R_2R_4R_5R_6 + C_3C_5C_6R_2R_4R_5 + C_3C_5R_2R_4R_5 + C_3C_5R_4R_5R_5 + C_3C_5R_4R_5 + C_3C_5R_4R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3$$

10.88 X-INVALID-ORDER-88 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$S_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s$$

 $\frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-C_3C_5C_6R_2R_3R_4R_5R_6s^3 - R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(-C_3C_5R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_6 + C_3C_6R_2R_3R_5R_6 + C_3C_6R_2R_4R_5R_6\right) + s\left(C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 +$

10.89 X-INVALID-ORDER-89 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_6 s}{C_3 C_4 C_6 R_2 R_3 R_5 R_6 s^3 - R_2 + R_5 + s^2 \left(C_3 C_4 R_2 R_3 R_5 + C_3 C_6 R_1 R_5 R_6 - C_3 C_6 R_2 R_3 R_6 + C_3 C_6 R_2 R_5 R_6 + C_4 C_6 R_2 R_5 R_6\right) + s \left(C_3 R_1 R_5 - C_3 R_2 R_3 + C_3 R_2 R_5 + C_3 R_3 R_5 + C_4 R_2 R_5 - C_6 R_2 R_6 + C_6 R_5 R_6\right)}$$

10.90 X-INVALID-ORDER-90 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_3C_4C_6R_2R_3R_6 - C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_3C_4R_2R_3 - C_3C_5R_2R_3 + C_3C_6R_1R_6 + C_3C_6R_2R_6 + C_4C_6R_2R_6 - C_5C_6R_2R_6\right) + s\left(C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 - C_5R_2 + C_6R_6\right) + 1}$$

10.91 X-INVALID-ORDER-91 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{C_3C_4C_5R_2R_3R_5s^3 + s^2\left(C_3C_4R_2R_3 + C_3C_5R_1R_5 - C_3C_5R_2R_3 + C_3C_5R_2R_5 + C_3C_5R_3R_5 + C_4C_5R_2R_5\right) + s\left(C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 - C_5R_2 + C_5R_5\right) + 1}$$

10.92 X-INVALID-ORDER-92 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2s}{C_3C_4C_5C_6R_2R_3R_5s^3 + C_6 + s^2\left(C_3C_4C_6R_2R_3 + C_3C_5C_6R_1R_5 - C_3C_5C_6R_2R_3 + C_3C_5C_6R_2R_5 + C_4C_5C_6R_2R_5\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2 + C_5C_6R_2\right)}$

10.93 X-INVALID-ORDER-93 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_3C_4C_5C_6R_2R_3R_5s^3 + C_6 + s^2\left(C_3C_4C_6R_2R_3 + C_3C_5C_6R_1R_5 - C_3C_5C_6R_2R_3 + C_3C_5C_6R_2R_5 + C_4C_5C_6R_2R_5\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2 + C_5C_6R_2\right)}$

10.94 X-INVALID-ORDER-94 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{C_3C_4C_5C_6R_2R_3R_5R_6s^4 + s^3\left(C_3C_4C_5R_2R_3R_5 + C_3C_5C_6R_2R_3R_6 + C_3C_5C_6R_2R_3R_6 + C_3C_5C_6R_2R_5R_6\right) + s^2\left(C_3C_4R_2R_3 + C_3C_5R_2R_3 + C_3C_5R_2R_3 + C_3C_5R_2R_5 + C_3C_5R_3R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5 +$

10.95 X-INVALID-ORDER-95 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_3C_4C_6R_2R_3R_5R_6 - C_3C_5C_6R_2R_3R_5R_6\right) + s^2\left(C_3C_4R_2R_3R_5 - C_3C_5R_2R_3R_5 + C_3C_6R_1R_5R_6 - C_3C_6R_2R_3R_6 + C_3C_6R_2R_5R_6 + C_3C_6R_2R_5R_6\right) + s\left(C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_3R_2R_3 + C_3R_2R_3$

10.96 X-INVALID-ORDER-96 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_3C_4C_6R_1R_4R_5R_6 - C_3C_4C_6R_2R_3R_4R_6 + C_3C_4C_6R_2R_3R_5R_6 + C_3C_4C_6R_2R_3R_4R_5 + C_3C_4R_2R_3R_4 + C_3C_4R_2R_3R_5 + C_3C_4R_3R_4R_5 + C_3C_4R_3R_5 + C_3C_4R_5R_5 + C_3C_4R_5R_5 + C_3C_4R_5R_5 + C_3C_4R_5R_5 + C_3C_4R_5R_5 + C_3C_4R_5R_5 + C_3C_4R_5R_5$

10.97 X-INVALID-ORDER-97 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{-C_3C_4C_5R_2R_3R_4s^3 + s^2\left(C_3C_4R_1R_4 + C_3C_4R_2R_3 + C_3C_4R_2R_4 + C_3C_4R_3R_4 - C_3C_5R_2R_3 - C_4C_5R_2R_4\right) + s\left(C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 + C_4R_4 - C_5R_2\right) + 1}{s\left(C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 + C_4R_4 - C_5R_2\right) + 1}$

10.98 X-INVALID-ORDER-98 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{-C_3C_4C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_3 + C_3C_4C_6R_3R_4 - C_3C_5C_6R_2R_3 - C_4C_5C_6R_2R_4\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_4 - C_5C_6R_2\right)}$

10.99 X-INVALID-ORDER-99 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{-C_3C_4C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_4 + C_3C_4C_6R_3R_4 - C_3C_5C_6R_2R_3 - C_4C_5C_6R_2R_4\right) + s\left(C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_4 - C_5C_6R_2\right)}$

10.100 X-INVALID-ORDER-100 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{-C_3C_4C_5C_6R_2R_3R_4R_6s^4 + s^3\left(-C_3C_4C_5R_2R_3R_4 + C_3C_4C_6R_2R_3R_6 + C_3C_4C_6R_2R_4R_6 + C_3C_4C_6R_4R_4R_6 + C_3C_4C_6R_4R_4R_6$

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H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^3\left(C_3C_4C_5R_1R_4R_5 - C_3C_4C_5R_2R_3R_4 + C_3C_4C_5R_2R_3R_5 + C_3C_4C_5R_2R_4R_5 + C_3C_4C_5R_3R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_2R_3 + C_3C_4R_3R_4 + C_3C_5R_1R_5 - C_3C_5R_2R_5 + C_3C_5R_3R_5 - C_4C_5R_2R_4 + C_4C_5R_2R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_2R_4 + C_3C_4R_3R_4 + C_3C_5R_1R_5 - C_3C_5R_2R_5 + C_3C_5R_3R_5 - C_4C_5R_2R_4 + C_4C_5R_2R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_4R_3R_4 + C_3C_5R_3R_5 - C_4C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_4R_3R_4 + C_3C_5R_3R_5 - C_4C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_4R_3R_4 + C_3C_5R_3R_5 - C_4C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_3R_5 - C_4C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_4R_3R_5 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_4 + C_3C_4R_5R_5 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_3R_5 + C_3C_5R_5R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_5R_5 + C_3C_5R_5R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_5R_5 + C_3C_5R_5R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_5R_5 + C_3C_5R_5R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_5R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_5R_5\right) + s^2\left(C_3C_4R_1R_4 + C_3C_4R_5R_5\right) + s^2\left(C_3C_4R_5R_5 + C_3C_5R_5R_5\right) + s
10.102 X-INVALID-ORDER-102 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{C_6 + s^3\left(C_3C_4C_5C_6R_1R_4R_5 - C_3C_4C_5C_6R_2R_3R_4 + C_3C_4C_5C_6R_2R_3R_5 + C_3C_4C_5C_6R_2R_4R_5 + C_3C_4C_5C_6R_3R_4R_5\right) + s^2\left(C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_4 + C_3C_4C_6R_3R_4 + C_3C_5C_6R_2R_3 + C_3C_5C_6R_3R_3 + C_3C
10.103 X-INVALID-ORDER-103 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{C_6 + s^3\left(C_3C_4C_5C_6R_1R_4R_5 - C_3C_4C_5C_6R_2R_3R_4 + C_3C_4C_5C_6R_2R_3R_5 + C_3C_4C_5C_6R_2R_4R_5 + C_3C_4C_5C_6R_2R_4R_5 + C_3C_4C_5R_3R_4 + C_3C_4C_6R_2R_4 + C_3C_4C_6R_4R_4 + C_3C_4C_6R
10.104 X-INVALID-ORDER-104 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{s^4 \left( C_3 C_4 C_5 C_6 R_1 R_4 R_5 R_6 - C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_6 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_3 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_3 C_4 C_5 C_6 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_3 C_4 C_5 R_1 R_4 R_5 - C_3 C_4 C_5 R_2 R_3 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_1 R_4 R_5 - C_3 C_4 C_5 R_2 R_3 R_4 + C_3 C_4 C_5 R_2 R_4 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_1 R_4 R_5 - C_3 C_4 C_5 R_2 R_3 R_4 + C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_1 R_4 R_5 - C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_1 R_4 R_5 - C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_1 R_4 R_5 - C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_1 R_4 R_5 - C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_4 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_4 R_5 R_5 - C_3 C_4 C_5 R_4 R_5 + C_3 C_4 C_5 R_4 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_4 R_5 R_5 - C_3 C_4 C_5 R_4 R_5 R_5 + C_3 C_4 C_5 R_4 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_4 R_5 R_5 - C_3 C_4 C_5 R_4 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_4 R_5 R_5 - C_3 C_4 C_5 R_4 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_4 R_5 R_5 - C_3 C_4 C_5 R_4 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 C_5 R_4 R_5 R_5 - C_3 C_4 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 R_5 R_5 R_5 - C_3 C_4 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 R_5 R_5 R_5 - C_3 C_4 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 R_5 R_5 R_5 R_5 - C_3 C_4 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 R_5 R_5 R_5 R_5 - C_3 C_4 R_5 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 R_5 R_5 R_5 R_5 R_5 - C_3 C_4 R_5 R_5 R_5 \right) \\ + s^3 \left( C_3 C_4 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5 \right) \\ + s^3 \left( C_3 C_5 R_5 R_5 R_5 R_5 R_5 R
10.105 X-INVALID-ORDER-105 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
          H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_6s + s^2\left(C_3C_4R_1R_2R_4R_6 + C_3C_5R_1R_2R_5R_6\right)}{-C_3C_4C_5R_2R_3R_4R_5s^3 - R_2 + R_5 + s^2\left(C_3C_4R_1R_4R_5 - C_3C_4R_2R_3R_4 + C_3C_4R_2R_3R_5 + C_3C_4R_2R_3R_5 + C_3C_5R_2R_3R_5 - C_4C_5R_2R_4R_5\right) + s\left(C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 - C_4R_2R_4 + C_4R_2R_5 + C_4R_4R_5 - C_5R_2R_5\right)}
10.106 X-INVALID-ORDER-106 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5\right)}{-C_3C_4C_5C_6R_2R_3R_4R_5s^3 - C_6R_2 + C_6R_5 + s^2\left(C_3C_4C_6R_1R_4R_5 - C_3C_4C_6R_2R_3R_4 + C_3C_4C_6R_2R_4R_5 + C_3C_4C_6R_2R_4R_5 + C_3C_4C_6R_2R_4R_5\right) + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5\right) + s\left(C_3C_4R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_4R_2R_3R_4 + C_3C_4R_2R_3R_5 + C_3C_4R_2R_3R_5\right) + s\left(C_3C_4R_1R_2R_4 + C_3C_4R_2R_3R_4 + C_3C_4R_2R_3R_5 + C_3C_4R_2R_3R_5 + C_3C_4R_2R_3R_5\right) + s\left(C_3C_4R_1R_2R_3R_4 + C_3C_4R_2R_3R_4 + C_3C_4R_2R_3R_5 + C_3C_4R_2R_3R_5\right) + s\left(C_3C_4R_1R_4R_5 - C_3C_4R_2R_3R_4 + C_3C_4R_2R_3R_5 + C_3C_4R_2R_3R_5\right) + s\left(C_3C_4R_1R_4R_5 - C_3C_4R_2R_3R_5 + C_3C_4R_2R_3R_5\right) + s\left(C_3C_4R_1R_4R_5 - C_3C_4R_2R_3R_5 + C_3C_4R_2R_3R_5\right) + s\left(C_3C_4R_1R_3R_5 - C_3C_4R_3R_5\right) + s\left(C_3C_4R_1R_3R_5 - C_3C_4R_3R_5\right) + s\left(C_3C_4R_1R_3R_5 - C_3C_4R_3R_5\right) + s\left(C_3C_4R_1R_5 - C_3C_4R_3R_5\right) + s\left(C_3C_4R_3R_5 - C_3C_4R_3R_5\right) + s\left(C_3C_4R_3R_5 - C_3C_5R_3R_5\right) + s\left(C_3C_4R_3R_5 - C_3C_5R_5R_5\right) + s\left(C_3C_4R_5R_5R_5 - C_3C_5R_5R_5\right) + s\left(C_3C_4R_5R_5R_5R_5 - C_3C_5R_5R_5\right) + s\left(C_3C_4R_5R_5R_5 - C_3C_5R_5R_5\right) + s\left(C_3C_4R_5R_5R_5 - C_3C_5R_5
10.107 X-INVALID-ORDER-107 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_2 + s^2\left(C_3C_4C_5R_1R_2R_4R_5 + C_3C_4C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_2R_5R_6\right) + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_3C_4C_5C_6R_2R_3R_4R_5s^3 - C_6R_2 + C_6R_5 + s^2\left(C_3C_4C_6R_1R_4R_5 - C_3C_4C_6R_2R_3R_4 + C_3C_4C_6R_2R_4R_5 + C_3C_4C_6R_4R_4R_5 + C_3C_4C_4R_4R_5 + C_3C_4C_4R_4R_5 + C_3C_4C_4R_4R_5 + C_3C_4C_4R_4R_5 + C_3C_4C_4R_4R_5 + C_3C_4C_
10.108 X-INVALID-ORDER-108 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_4}{-C_3C_4C_5C_6R_2R_3R_4R_5R_6s^4 - R_2 + R_5 + s^3\left(-C_3C_4C_5R_2R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_6 + C_3C_4C_6R_2R_3R_5R_6 + C_3C_4C_6R_2R_3R_4R_5R_6 - C_3C_5C_6R_2R_3R_5R_6 - C_4C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_3C_4R_1R_4R_5R_6 - C_3C_4C_6R_2R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_5R_6 + C_3C_4C_6R_2R_3R_4R_5R_6 - C_3C_5C_6R_2R_3R_5R_6 - C_4C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_3C_4R_1R_4R_5R_6 - C_3C_4C_6R_2R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_5R_6 - C_3C_4C_6R_2R_3R_4R_5 + C_3C_4C_6R_2R_4R_5R_5 + C_3C_4C_6R_4R_5R_5 + C_3C_4C_6R_4R_5R_5 + C_3C_4C_6R_4R_5R_5 + C_3C_4C_6R_4R_5R_5 + C_3C_4C_6R_5R_5 + C_3C_4C_6R_5 + C_3C_4C_5R_5 + C_3C_5C_5R_5 + C_3C_5C_5R_5 + C_3C_5C_5R_5 + C_3C_5C_5R_5 + C_3C_5C_5R_5 + C_3C_5C_5R_5 +
10.109 X-INVALID-ORDER-109 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3R_1R_2R_4R_6s}{C_3C_4C_6R_2R_3R_4R_5R_6s^3 - R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_3C_4R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_6 + C_3C_6R_2R_3R_4R_5 + C_3C_6R_2R_4R_5R_6\right) + s\left(C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2
10.110 X-INVALID-ORDER-110 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                               \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2+R_4+s^3\left(C_3C_4C_6R_2R_3R_4R_6-C_3C_5C_6R_2R_3R_4R_6\right)+s^2\left(C_3C_4R_2R_3R_4-C_3C_5R_2R_3R_4+C_3C_6R_1R_4R_6+C_3C_6R_2R_3R_6+C_3C_6R_2R_4R_6\right)+s\left(C_3R_1R_4+C_3R_2R_3+C_3R_2R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+C_3R_3R_4+
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10.101 X-INVALID-ORDER-101 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

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10.111 X-INVALID-ORDER-111 Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
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 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{C_3C_4C_5R_2R_3R_4R_5s^3 + R_2 + R_4 + s^2\left(C_3C_4R_2R_3R_4 + C_3C_5R_2R_3R_4 + C_3C_5R_2R_3R_5 + C_3C_5R_2R_4R_5 + C_4C_5R_2R_4R_5\right) + s\left(C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_5R_2R_4 + C_5R_4R_4 + C$

10.112 X-INVALID-ORDER-112 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_3C_4C_5C_6R_2R_3R_4R_5s^3 + C_6R_2 + C_6R_4 + s^2\left(C_3C_4C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_5 + C_3C_5C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_4R_4 +$

10.113 X-INVALID-ORDER-113 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_3C_4C_5C_6R_2R_3R_4R_5s^3 + C_6R_2 + C_6R_4 + s^2\left(C_3C_4C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_4R_5 + C_3C_5C_6R_2R_5R_5 + C_3C_5C_6R_5R_5R_5 + C_3C_5C_6R_5R_5R_5 + C_3C_5C_5C_6R_5R_5R_5 + C_3C_5C_5C_6R_5R_5R_5 + C_3C_5C_5C_5R_5R_5 + C_3C_5C_5C_5R_5R_5 + C_3C_5C_5C_5R_5R_5 +$

10.114 X-INVALID-ORDER-114 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.115 X-INVALID-ORDER-115 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_3C_4C_6R_2R_3R_4R_5R_6 - C_3C_5C_6R_2R_3R_4R_5 - C_3C_5R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_6 + C_3C_6R_2R_3R_4R_5R_6 + C_3C_6R_2R_4R_5R_6 + C_3C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 + C_3C$

10.116 X-INVALID-ORDER-116 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_3 R_4 R_6 s + R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(C_3 R_1 R_3 R_4 R_5 + C_3 R_2 R_3 R_4 R_5\right)}$$

10.117 X-INVALID-ORDER-117 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3R_1R_2R_3R_4s + R_1R_2R_4}{s^2\left(C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.118 X-INVALID-ORDER-118 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_3R_4R_6s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_6R_1R_2R_4R_6\right)}{s^2\left(C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.119 X-INVALID-ORDER-119 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s\left(C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4\right)}$$

10.120 X-INVALID-ORDER-120 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

10.121 X-INVALID-ORDER-121
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

10.122 X-INVALID-ORDER-122
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^3\left(C_3C_5C_6R_1R_3R_4R_5R_6 + C_3C_5R_2R_3R_4R_5 + C_3C_5R_2R_3R_4R_6 + C_3C_6R_2R_3R_4R_6 + C_5C_6R_2R_3R_4R_6 + C_5C_6R_2R_4R_6 + C_5C_6R_2R_4R_5R_6 + C_5C_6R_4R_5R_5 + C_5C_6R_5R_5R_5 + C_5C_6R_5R_5R_5 + C_5C_6R_5R_5R_5 + C_5C_$$

10.123 X-INVALID-ORDER-123 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s\left(C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 - C_5R_2R_3R_4R_5\right)}$$

10.124 X-INVALID-ORDER-124 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5\right)}{s^2\left(C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.125 X-INVALID-ORDER-125 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_4 + s^2\left(C_3C_5R_1R_2R_3R_4R_5 + C_3C_6R_1R_2R_3R_4R_6 + C_5C_6R_1R_2R_4R_5R_6\right) + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{s^2\left(C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.126 X-INVALID-ORDER-126 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_1 R_2 R_3 R_6 s + R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s \left(C_3 R_1 R_3 R_5 + C_3 R_2 R_3 R_5 + C_4 R_2 R_3 R_5 \right)}$$

10.127 X-INVALID-ORDER-127 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3R_1R_2R_3s + R_1R_2}{s^2\left(C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$$

10.128 X-INVALID-ORDER-128 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_2R_3R_6s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_6R_1R_2R_6\right)}{s^2\left(C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$$

10.129 X-INVALID-ORDER-129 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s\left(C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 - C_5R_2R_3\right)}$$

10.130 X-INVALID-ORDER-130 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s\left(C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_4C_6R_2R_3 - C_5C_6R_2R_3\right)}$$

10.131 X-INVALID-ORDER-131 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_6s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_5C_6R_1R_2R_6\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s\left(C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_4C_6R_2R_3 - C_5C_6R_2R_3\right)}$$

10.132 X-INVALID-ORDER-132 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^3\left(C_3C_5C_6R_1R_3R_5R_6 + C_3C_5C_6R_2R_3R_5R_6 + C_4C_5C_6R_2R_3R_5 + C_3C_5R_2R_3R_5 + C_3C_6R_1R_3R_6 + C_4C_5R_2R_3R_6 + C_5C_6R_2R_3R_6 + C_5C_6R_3R_5R_6 + C_5C_6R_3R_5R_6 + C_5C_6R_3R_5R_6 + C_5C_6R_3R_5R_6 + C_5C_6R_3R_5R_6 + C_5C_6R_3R_5R_$

10.133 X-INVALID-ORDER-133 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_5R_6s^2 + R_1R_2R_6 + s\left(C_3R_1R_2R_3R_6 + C_5R_1R_2R_5R_6\right)}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s\left(C_3R_1R_3R_5 + C_3R_2R_3R_5 + C_4R_2R_3R_5 - C_5R_2R_3R_5\right)}$$

10.134 X-INVALID-ORDER-134 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_5s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_5R_1R_2R_5\right)}{s^2\left(C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5 - C_5C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$$

10.135 X-INVALID-ORDER-135 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_5R_6s^3 + R_1R_2 + s^2\left(C_3C_5R_1R_2R_3R_5 + C_3C_6R_1R_2R_3R_6 + C_5C_6R_1R_2R_5R_6\right) + s\left(C_3R_1R_2R_3 + C_5R_1R_2R_5 + C_6R_1R_2R_6\right)}{s^2\left(C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5 - C_5C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$$

10.136 X-INVALID-ORDER-136 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4R_1R_2R_3R_4s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_4R_1R_2R_4\right)}{s^3\left(C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_5R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R$$

10.137 X-INVALID-ORDER-137 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_6R_1R_2R_3R_4R_6s^3 + R_1R_2 + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_6R_1R_2R_3R_6 + C_4C_6R_1R_2R_4R_6\right) + s\left(C_3R_1R_2R_3 + C_4R_1R_2R_4 + C_6R_1R_2R_6\right)}{s^3\left(C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_3C_6R_1R_3R_5 + C_4C_6R_2R_3R_5 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_3R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_$$

10.138 X-INVALID-ORDER-138 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_4R_1R_2R_3R_4R_6s^2 + R_1R_2R_6 + s\left(C_3R_1R_2R_3R_6 + C_4R_1R_2R_4R_6\right)}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(C_3C_4C_6R_1R_3R_4R_5R_6 + C_3C_4R_2R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 + C_3C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_4R_6 + C_4C_6R_2R_3R_4R_6 + C_4C_6R_2R_3R_4R_5 + C_4C_6R_2R_4R_5R_5 + C_4C_6R_2R_4R_5 + C_4C_6R_4R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R$$

10.139 X-INVALID-ORDER-139 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_2R_6s + s^2\left(C_3C_5R_1R_2R_3R_6 + C_4C_5R_1R_2R_4R_6\right)}{R_1 + R_2 + R_3 + s^2\left(C_3C_4R_1R_3R_4 + C_3C_4R_2R_3R_4 - C_4C_5R_2R_3R_4\right) + s\left(C_3R_1R_3 + C_3R_2R_3 + C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3\right)}$$

10.140 X-INVALID-ORDER-140 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_2 + s^2\left(C_3C_4C_5R_1R_2R_3R_4 + C_3C_5C_6R_1R_2R_3R_6 + C_4C_5C_6R_1R_2R_4R_6\right) + s\left(C_3C_5R_1R_2R_3 + C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_6\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_3C_4C_6R_1R_3R_4 + C_3C_4C_6R_2R_3R_4 - C_4C_5C_6R_2R_3R_4\right) + s\left(C_3C_6R_1R_3 + C_3C_6R_1R_3 + C_4C_6R_1R_4 + C_4C_6R_2R_3 + C_4C_6R_2R_4 + C_4C_6R_2R_4 + C_4C_6R_2R_3 + C_4C_6R_2R_3$$

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10.141 X-INVALID-ORDER-141 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_2R_3R_6 + S^2\left(C_3C_5R_1R_2R_3R_6 + C_4C_5R_1R_2R_4R_6\right)}{R_1 + R_2 + R_3 + s^3\left(C_3C_4C_6R_1R_3R_4R_6 + C_3C_4C_6R_2R_3R_4R_6 - C_4C_5C_6R_2R_3R_4 + C_3C_4R_1R_3R_4 + C_3C_4R_1R_3R_4 + C_4C_6R_1R_4R_6 + C_4C_6R_2R_3R_6 + C_4C_6R_3R_4R_6 + C_4C_6R_4R_4R_6 + C_4C_6R_4R_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_3C_4C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_2R_6s + s^2(C_3C_5R_1R_2R_3R_6 + C_4C_5R_1R_2R_4R_6)
10.142 X-INVALID-ORDER-142 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_2R_3R_6 + C_4C_5R_1R_2R_3R_6 + C_4C_5R_1R_2R_4R_6)}{R_1 + R_2 + R_3 + s^3\left(C_3C_4C_5R_1R_3R_4R_5 + C_3C_4C_5R_2R_3R_4 + C_3C_5R_1R_3R_5 + C_4C_5R_2R_3R_5 + C_4C_5R_3R_5 + C_4C_5R_5R_5 + C_4C_5R_5 + C_4C_5R_5 + C_4C_5R_5 + C_4C_5R_5 + C_4C_5R_5 + C_4C_5R_5 + C_4C_5R_
10.143 X-INVALID-ORDER-143 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_4C_5R_1R_2R_3 + C_4C_5R_1R_2R_4\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_3C_4C_5C_6R_1R_3R_4 + C_3C_4C_5C_6R_2R_3R_4 + C_3C_5C_6R_1R_3R_5 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_3R_4 + C_4C_5C
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10.144 X-INVALID-ORDER-144 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_2 + s^2\left(C_3C_4C_5R_1R_2R_3R_4 + C_3C_5C_6R_1R_2R_3R_6 + C_4C_5C_6R_1R_2R_4R_6\right) + s\left(C_3C_5R_1R_2R_3 + C_4C_5R_1R_2R_3R_4 + C_3C_5C_6R_1R_3R_4 +$

10.145 X-INVALID-ORDER-145 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_1 + R_2 + R_3 + s^4 \left(C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_4 C_5 C_6 R_2 R_3 R_5 + C_4 C_5 C_6 R_2 R_5 R_5 + C_5 C_6 R_2 R_5 + C_5 C_6 R_2 R_5 R_5 + C_5 C_6 R_5 R_5 + C_5 C_6 R_5 R_5 + C_5$

10.146 X-INVALID-ORDER-146 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_6 + s^2\left(C_3C_4R_1R_2R_3R_4R_6 + C_3C_5R_1R_2R_3R_5R_6 + C_4C_5R_1R_2R_4R_5R_6\right) + s\left(C_3R_1R_2R_3R_6 + C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_3C_4R_1R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 - C_4C_5R_2R_3R_4R_5\right) + s\left(C_3R_1R_3R_5 + C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_3R_3R_5 + C_4R$

10.147 X-INVALID-ORDER-147 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_5s^3 + R_1R_2 + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_3 + C_4R_1R_2R_4 + C_5R_1R_2R_3 + C_4R_1R_2R_4 + C_5R_1R_2R_5\right)}{s^3\left(C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 +$

10.148 X-INVALID-ORDER-148 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_2 + s^3\left(C_3C_4C_5R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_2R_3R_4R_6 + C_3C_5C_6R_1R_2R_3R_5R_6 + C_4C_5C_6R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_3C_6R_1R_2R_3R_6 + C_4C_5R_1R_2R_3R_6 + C_4C_5R_1R_2R_3R_6 + C_4C_6R_1R_2R_3R_6 + C_4C_5R_1R_2R_3R_6 + C_4C_5R_1R_$

10.149 X-INVALID-ORDER-149 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_6 + s^2\left(C_3C_4R_1R_2R_3R_4R_6 + C_3C_5R_1R_2R_3R_5R_6 + C_4C_5R_2R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 + C_3C_4R_2R_3R_4R_5 + C_4C_5R_2R_3R_4R_5 + C_4C_5R_3R_4R_5 + C_4C_5R_5R_5R_5R_5 +$

10.150 X-INVALID-ORDER-150 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5, R_6\right)$

$$H(s) = \frac{C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s\left(C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 + C_4R_2R_3R_4R_5\right)}$$

10.151 X-INVALID-ORDER-151
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3R_1R_2R_3R_4s + R_1R_2R_4}{s^2\left(C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.152 X-INVALID-ORDER-152
$$Z(s) = \left(R_1, \ R_2, \ \frac{R_3}{C_3R_3s+1}, \ \frac{R_4}{C_4R_4s+1}, \ R_5, \ R_6 + \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_3C_6R_1R_2R_3R_4R_6s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_6R_1R_2R_4R_6\right)}{s^2\left(C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.153 X-INVALID-ORDER-153
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s\left(C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4\right)}$$

10.154 X-INVALID-ORDER-154
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

10.155 X-INVALID-ORDER-155
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

10.156 X-INVALID-ORDER-156
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5C_5R_1R_2R_3R_4R_6s^2 + C_5R_2R_3R_4R_5R_6 + C_3C_5C_6R_2R_3R_4R_5R_6 + C_4C_5C_6R_2R_3R_4R_5R_6 + S_4C_5C_6R_2R_3R_4R_5 + S_4C_5C_6R_3R_4R_5 + S_4C_5C_6R_5R_5R_5 + S_4C_5C_6R_5R_5R_5 + S_4C_5C_5C_6R_5R_5R_5 + S_4C_5C_5C_6R_5R_5R$$

10.157 X-INVALID-ORDER-157
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s\left(C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 + C_4R_2R_3R_4R_5 - C_5R_2R_3R_4R_5\right)}$$

10.158 X-INVALID-ORDER-158 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5\right)}{s^2\left(C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.159 X-INVALID-ORDER-159
$$Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_4 + s^2\left(C_3C_5R_1R_2R_3R_4R_5 + C_3C_6R_1R_2R_3R_4R_6 + C_5C_6R_1R_2R_4R_5R_6\right) + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{s^2\left(C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_4 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.160 X-INVALID-ORDER-160 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s \left(C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5\right)}$$

10.161 X-INVALID-ORDER-161
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{R_1 R_4}{s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 \right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5 \right)}$$

10.162 X-INVALID-ORDER-162
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_6 R_1 R_4 R_6 s + R_1 R_4}{s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 \right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5 \right)}$$

10.163 X-INVALID-ORDER-163
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s \left(C_2 R_1 R_4 + C_2 R_3 R_4 - C_5 R_3 R_4\right)}$$

10.164 X-INVALID-ORDER-164
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4 + s \left(C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 - C_5 C_6 R_3 R_4\right)}$$

10.165 X-INVALID-ORDER-165
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_1 R_4 R_6 s + C_5 R_1 R_4}{C_6 R_3 + C_6 R_4 + s \left(C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 - C_5 C_6 R_3 R_4\right)}$$

10.166 X-INVALID-ORDER-166
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s^3 \left(C_2 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_5 C_6 R_3 R_4 R_5 + C_2 C_5 R_3 R_4 R_5 + C_2 C_5 R_3 R_4 R_5 + C_2 C_6 R_3 R_4 R_6 + C_5 C_6 R_3 R_6 + C_5 C_6 R_3 R_6 + C_5 C_6 R_5 R_6 + C_5 C$$

10.167 X-INVALID-ORDER-167 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_5 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s \left(C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 - C_5 R_3 R_4 R_5\right)}$$

10.168 X-INVALID-ORDER-168 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_5 s + R_1 R_4}{s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 - C_5 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}$$

10.169 X-INVALID-ORDER-169 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_1R_4R_5R_6s^2 + R_1R_4 + s\left(C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{s^2\left(C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$$

10.170 X-INVALID-ORDER-170 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_6}{-R_3 + R_5 + s \left(C_2 R_1 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5\right)}$$

10.171 X-INVALID-ORDER-171
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{R_1}{s^2 \left(C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_4 C_6 R_3 R_5 \right) + s \left(-C_6 R_3 + C_6 R_5 \right)}$$

10.172 X-INVALID-ORDER-172
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_6 R_1 R_6 s + R_1}{s^2 \left(C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_4 C_6 R_3 R_5 \right) + s \left(-C_6 R_3 + C_6 R_5 \right)}$$

10.173 X-INVALID-ORDER-173
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_6 s}{s (C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3) + 1}$$

10.174 X-INVALID-ORDER-174
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1}{C_6 + s \left(C_2 C_6 R_1 + C_2 C_6 R_3 + C_4 C_6 R_3 - C_5 C_6 R_3\right)}$$

10.175 X-INVALID-ORDER-175
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_1 R_6 s + C_5 R_1}{C_6 + s \left(C_2 C_6 R_1 + C_2 C_6 R_3 + C_4 C_6 R_3 - C_5 C_6 R_3\right)}$$

10.176 X-INVALID-ORDER-176
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_5 R_1 R_6 s}{s^3 \left(C_2 C_5 C_6 R_1 R_5 R_6 + C_2 C_5 C_6 R_3 R_5 R_6 + C_4 C_5 C_6 R_3 R_5 R_6\right) + s^2 \left(C_2 C_5 R_1 R_5 + C_2 C_5 R_3 R_5 + C_2 C_6 R_1 R_6 + C_4 C_5 R_3 R_6 + C_4 C_5 R_3 R_6 + C_5 C_6 R_5 R_6 + C_$$

10.177 X-INVALID-ORDER-177
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_5 R_6 s + R_1 R_6}{-R_3 + R_5 + s \left(C_2 R_1 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_5 R_3 R_5\right)}$$

10.178 X-INVALID-ORDER-178
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_5 s + R_1}{s^2 \left(C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_4 C_6 R_3 R_5 - C_5 C_6 R_3 R_5 \right) + s \left(-C_6 R_3 + C_6 R_5 \right)}$$

10.179 X-INVALID-ORDER-179
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_1 R_5 R_6 s^2 + R_1 + s \left(C_5 R_1 R_5 + C_6 R_1 R_6 \right)}{s^2 \left(C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_4 C_6 R_3 R_5 - C_5 C_6 R_3 R_5 \right) + s \left(-C_6 R_3 + C_6 R_5 \right)}$$

10.180 X-INVALID-ORDER-180
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_4 R_1 R_4 s + R_1}{s^3 \left(C_2 C_4 C_6 R_1 R_4 R_5 + C_2 C_4 C_6 R_3 R_4 R_5\right) + s^2 \left(C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 - C_4 C_6 R_3 R_4 + C_4 C_6 R_3 R_5 + C_4 C_6 R_4 R_5\right) + s \left(-C_6 R_3 + C_6 R_5\right)}$$

10.181 X-INVALID-ORDER-181 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_4C_6R_1R_4R_6s^2 + R_1 + s\left(C_4R_1R_4 + C_6R_1R_6\right)}{s^3\left(C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 - C_4C_6R_3R_4 + C_4C_6R_3R_5 + C_4C_6R_4R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$ 10.182 X-INVALID-ORDER-182 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_4 R_1 R_4 R_6 s + R_1 R_6}{-R_3 + R_5 + s^3 \left(C_2 C_4 C_6 R_1 R_4 R_5 R_6 + C_2 C_4 C_6 R_3 R_4 R_5 R_6\right) + s^2 \left(C_2 C_4 R_1 R_4 R_5 + C_2 C_6 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R$ **10.183** X-INVALID-ORDER-183 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_4C_5R_1R_4R_6s^2 + C_5R_1R_6s}{s^3\left(C_2C_4C_6R_1R_4R_6 + C_2C_4C_6R_3R_4R_6 - C_4C_5C_6R_3R_4R_6\right) + s^2\left(C_2C_4R_1R_4 + C_2C_4R_3R_4 + C_2C_6R_1R_6 + C_2C_6R_3R_6 - C_4C_5R_3R_6 + C_4C_6R_3R_6 + C_4C_6R_3R_6\right) + s\left(C_2R_1 + C_2R_3 + C_4R_3 + C_4R_4 - C_5R_3 + C_6R_6\right) + 1}$ **10.184** X-INVALID-ORDER-184 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_4C_5R_1R_4R_6s^2 + C_5R_1R_6s}{s^3\left(C_2C_4C_5R_1R_4R_5 + C_2C_4C_5R_3R_4R_5\right) + s^2\left(C_2C_4R_1R_4 + C_2C_4R_3R_4 + C_2C_5R_1R_5 + C_2C_5R_3R_5 - C_4C_5R_3R_5 + C_4C_5R_3R_5 + C_4C_5R_4R_5\right) + s\left(C_2R_1 + C_2R_3 + C_4R_3 + C_4R_4 - C_5R_3 + C_5R_5\right) + 1}$ **10.185** X-INVALID-ORDER-185 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_4C_5R_1R_4s + C_5R_1}{C_6 + s^3\left(C_2C_4C_5C_6R_1R_4R_5 + C_2C_4C_5C_6R_3R_4R_5\right) + s^2\left(C_2C_4C_6R_1R_4 + C_2C_4C_6R_3R_4 + C_2C_5C_6R_3R_5 - C_4C_5C_6R_3R_5 + C_4C_5C_6R_3R_5 + C_4C_5C_6R_3R_5 + C_4C_5C_6R_3R_5 + C_4C_5C_6R_3 + C_4C$

10.186 X-INVALID-ORDER-186 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_1R_4R_6s^2 + C_5R_1 + s\left(C_4C_5R_1R_4 + C_5C_6R_1R_6\right)}{C_6 + s^3\left(C_2C_4C_5C_6R_1R_4R_5 + C_2C_4C_5C_6R_3R_4 + C_2C_5C_6R_1R_5 + C_2C_5C_6R_3R_5 - C_4C_5C_6R_3R_5 + C_4C_5C_6R_5 + C_4C_5C$

10.187 X-INVALID-ORDER-187 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_4C_5R_1R_4R_6s^2 + C_5R_1R_6s$

10.188 X-INVALID-ORDER-188 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_1R_4R_5s^2 + R_1 + s\left(C_4R_1R_4 + C_5R_1R_5\right)}{s^3\left(C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_3R_4R_5 - C_4C_5C_6R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 - C_4C_6R_3R_4 + C_4C_6R_3R_5 + C_4C_6R_4R_5 - C_5C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

10.189 X-INVALID-ORDER-189 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_1R_4R_5R_6s^3 + R_1 + s^2\left(C_4C_5R_1R_4R_5 + C_4C_6R_1R_4R_6 + C_5C_6R_1R_5R_6\right) + s\left(C_4R_1R_4 + C_5R_1R_5 + C_6R_1R_6\right)}{s^3\left(C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_3R_4R_5 - C_4C_5C_6R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 - C_4C_6R_3R_4 + C_4C_6R_3R_5 + C_4C_6R_4R_5 - C_5C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

10.190 X-INVALID-ORDER-190 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_4C_5R_1R_4R_5R_6s^2 + R_1R_6 + s\left(C_4R_1R_4R_6 + C_5R_1R_5R_6\right)$ $-R_3 + R_5 + s^3 \left(C_2 C_4 C_6 R_1 R_4 R_5 R_6 + C_2 C_4 C_6 R_3 R_4 R_5 R_6 - C_4 C_5 C_6 R_3 R_4 R_5 R_6 \right) + s^2 \left(C_2 C_4 R_1 R_4 R_5 + C_2 C_6 R_1 R_5 R_6 + C_2 C_6 R_3 R_5 R_6 - C_4 C_5 R_3 R_4 R_5 - C_4 C_6 R_3 R_4 R_5 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 \right) + s \left(C_2 R_1 R_5 R_6 + C_4 C_$

10.191 X-INVALID-ORDER-191
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s \left(C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 + C_4 R_3 R_4 R_5\right)}$$

10.192 X-INVALID-ORDER-192
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{R_1 R_4}{s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 + C_4 C_6 R_3 R_4 R_5 \right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5 \right)}$$

10.193 X-INVALID-ORDER-193
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_6 R_1 R_4 R_6 s + R_1 R_4}{s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 + C_4 C_6 R_3 R_4 R_5 \right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5 \right)}$$

10.194 X-INVALID-ORDER-194
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s \left(C_2 R_1 R_4 + C_2 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4\right)}$$

10.195 X-INVALID-ORDER-195
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4 + s \left(C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 + C_4 C_6 R_3 R_4 - C_5 C_6 R_3 R_4\right)}$$

10.196 X-INVALID-ORDER-196
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_1 R_4 R_6 s + C_5 R_1 R_4}{C_6 R_3 + C_6 R_4 + s \left(C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 + C_4 C_6 R_3 R_4 - C_5 C_6 R_3 R_4\right)}$$

10.197 X-INVALID-ORDER-197
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

10.198 X-INVALID-ORDER-198 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_5 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s \left(C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 + C_4 R_3 R_4 R_5 - C_5 R_3 R_4 R_5\right)}$$

10.199 X-INVALID-ORDER-199 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_4 R_5 s + R_1 R_4}{s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 + C_4 C_6 R_3 R_4 R_5 - C_5 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}$$

10.200 X-INVALID-ORDER-200
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_1R_4R_5R_6s^2 + R_1R_4 + s\left(C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{s^2\left(C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_4C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$$

10.201 X-INVALID-ORDER-201
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3 R_1 R_4 R_6 s}{C_2 C_3 C_6 R_1 R_4 R_5 R_6 s^3 - R_4 + R_5 + s^2 \left(C_2 C_3 R_1 R_4 R_5 + C_2 C_6 R_4 R_5 R_6 + C_3 C_6 R_4 R_5 R_6\right) + s \left(C_2 R_4 R_5 + C_3 R_4 R_5 - C_6 R_4 R_6 + C_6 R_5 R_6\right)}$$

10.202 X-INVALID-ORDER-202 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_6s^2}{C_2C_3C_6R_1R_4R_6s^3 + s^2\left(C_2C_3R_1R_4 + C_2C_6R_4R_6 + C_3C_6R_4R_6 - C_5C_6R_4R_6\right) + s\left(C_2R_4 + C_3R_4 - C_5R_4 + C_6R_6\right) + 1}$$

10.203 X-INVALID-ORDER-203 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_6s^2}{C_2C_3C_5R_1R_4R_5s^3 + s^2\left(C_2C_3R_1R_4 + C_2C_5R_4R_5 + C_3C_5R_4R_5\right) + s\left(C_2R_4 + C_3R_4 - C_5R_4 + C_5R_5\right) + 1}$$

10.204 X-INVALID-ORDER-204 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_4s}{C_2C_3C_5C_6R_1R_4R_5s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_5C_6R_4R_5 + C_3C_5C_6R_4R_5\right) + s\left(C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4 + C_5C_6R_5\right)}$$

10.205 X-INVALID-ORDER-205 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_2C_3C_5C_6R_1R_4R_5s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_5C_6R_4R_5 + C_3C_5C_6R_4R_5\right) + s\left(C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4 + C_5C_6R_5\right)}$$

10.206 X-INVALID-ORDER-206 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_6s^2}{C_2C_3C_5C_6R_1R_4R_5R_6s^4 + s^3\left(C_2C_3C_5R_1R_4R_5 + C_2C_3C_6R_1R_4R_6 + C_3C_5C_6R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_4 + C_2C_5R_4R_5 + C_3C_6R_4R_6 + C_3C_5R_4R_5 + C_3C_6R_4R_6 + C_5C_6R_5R_6\right) + s\left(C_2R_4 + C_3R_4 - C_5R_4 + C_5R_5 + C_6R_6\right) + s\left(C_2R_4 + C_3R_4 - C_5R_4 + C_5R_5 + C_6R_6\right) + s\left(C_2R_4 + C_3R_4 - C_5R_4R_5 + C_3C_5R_4R_5 + C_3C_5R_5R_5 + C_3C_$$

10.207 X-INVALID-ORDER-207 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{C_2C_3C_6R_1R_4R_5R_6s^3 - R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 + C_2C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 - C_5C_6R_4R_5R_6\right) + s\left(C_2R_4R_5 + C_3R_4R_5 - C_5R_4R_5 - C_6R_4R_6 + C_6R_5R_6\right)}$$

10.208 X-INVALID-ORDER-208 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3 R_1 R_6 s}{C_2 C_3 C_6 R_1 R_5 R_6 s^3 + s^2 \left(C_2 C_3 R_1 R_5 + C_2 C_6 R_5 R_6 + C_3 C_6 R_5 R_6 + C_4 C_6 R_5 R_6\right) + s \left(C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_6\right) - 1}$$

10.209 X-INVALID-ORDER-209 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3 C_5 R_1 R_6 s}{C_2 C_3 R_1 s + C_2 + C_3 + C_4 - C_5}$$

10.210 X-INVALID-ORDER-210 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 C_5 R_1}{C_2 C_3 C_6 R_1 s + C_2 C_6 + C_3 C_6 + C_4 C_6 - C_5 C_6}$$

10.211 X-INVALID-ORDER-211 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 C_5 C_6 R_1 R_6 s + C_3 C_5 R_1}{C_2 C_3 C_6 R_1 s + C_2 C_6 + C_3 C_6 + C_4 C_6 - C_5 C_6}$$

10.212 X-INVALID-ORDER-212 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_6s}{C_2C_3C_5C_6R_1R_5R_6s^3 + C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_5R_1R_5 + C_2C_3C_6R_1R_6 + C_3C_5C_6R_5R_6 + C_4C_5C_6R_5R_6\right) + s\left(C_2C_3R_1 + C_2C_5R_5 + C_2C_6R_6 + C_3C_5R_5 + C_3C_6R_6 + C_4C_5R_5 + C_4C_6R_6 - C_5C_6R_6\right)}$

10.213 X-INVALID-ORDER-213 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_5R_6s^2 + C_3R_1R_6s}{C_2C_3C_6R_1R_5R_6s^3 + s^2\left(C_2C_3R_1R_5 + C_2C_6R_5R_6 + C_3C_6R_5R_6 + C_4C_6R_5R_6 - C_5C_6R_5R_6\right) + s\left(C_2R_5 + C_3R_5 + C_4R_5 - C_5R_5 - C_6R_6\right) - 1}$$

10.214 X-INVALID-ORDER-214 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3C_4R_1R_4R_6s^2 + C_3R_1R_6s}{C_2C_3C_4R_1R_4R_5s^3 + s^2\left(C_2C_3R_1R_5 + C_2C_4R_4R_5 + C_3C_4R_4R_5\right) + s\left(C_2R_5 + C_3R_5 - C_4R_4 + C_4R_5\right) - 1}$$

10.215 X-INVALID-ORDER-215 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4R_1R_4s + C_3R_1}{C_2C_3C_4C_6R_1R_4R_5s^3 - C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_4C_6R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_2C_6R_5 + C_3C_6R_5 - C_4C_6R_4 + C_4C_6R_5\right)}$$

10.216 X-INVALID-ORDER-216 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_6R_1R_4R_6s^2 + C_3R_1 + s\left(C_3C_4R_1R_4 + C_3C_6R_1R_6\right)}{C_2C_3C_4C_6R_1R_4R_5s^3 - C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_4C_6R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_2C_6R_5 + C_3C_6R_5 - C_4C_6R_4 + C_4C_6R_5\right)}$$

10.217 X-INVALID-ORDER-217 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_4R_1R_4R_6s^2 + C_3R_1R_6s}{C_2C_3C_4C_6R_1R_4R_5R_6s^4 + s^3\left(C_2C_3C_4R_1R_4R_5 + C_2C_3C_6R_1R_5R_6 + C_2C_4C_6R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_5 + C_2C_4R_4R_5 + C_2C_6R_5R_6 + C_3C_4R_4R_5 + C_3C_6R_5R_6 - C_4C_6R_4R_6 + C_4C_6R_5R_6\right) + s\left(C_2R_5 + C_3R_5 - C_4R_4 + C_4R_5 - C_6R_6\right) - 1}{c_3C_4R_4R_5R_6s^4 + s^3\left(C_2C_3C_4R_1R_4R_5 + C_2C_3C_6R_1R_5R_6 + C_3C_4C_6R_4R_5 + C_3C_4R_4R_5 + C_3C_6R_5R_6 + C_3C_4R_4R_5 + C_3C_6R_5R_6 + C_3C_4R_4R_5 + C_3C_6R_5R_6\right) + s\left(C_2R_5 + C_3R_5 - C_4R_4 + C_4R_5 - C_6R_6\right) - 1}{c_3C_3C_4C_6R_4R_5R_6s^4 + s^3\left(C_2C_3C_4R_1R_4R_5 + C_2C_3C_6R_1R_5R_6 + C_3C_4C_6R_4R_5R_6\right) + s\left(C_2C_3R_1R_5 + C_2C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 + C_3C_4R_4R_5 + C_3C_4R_5 + C_3C_4R_5 + C_3C_4R_5 + C_3C_4R_5 + C_3C_4R_5 + C_3C_4R_5 + C_3C_4R_$$

10.218 X-INVALID-ORDER-218 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_2C_3C_4C_6R_1R_4R_6s^3 + C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_4R_1R_4 + C_2C_3C_6R_1R_6 + C_3C_4C_6R_4R_6 - C_4C_5C_6R_4R_6\right) + s\left(C_2C_3R_1 + C_2C_4R_4 + C_2C_6R_6 + C_3C_4R_4 + C_3C_6R_6 - C_4C_5R_4 + C_4C_6R_6 - C_5C_6R_6\right)}$$

10.219 X-INVALID-ORDER-219 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2C_3C_4C_5R_1R_4R_5s^3 + C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_4R_1R_4 + C_2C_3C_5R_1R_5 + C_2C_4C_5R_4R_5\right) + s\left(C_2C_3R_1 + C_2C_4R_4 + C_2C_5R_5 + C_3C_4R_4 + C_3C_5R_5 - C_4C_5R_4 + C_4C_5R_5\right)}{c_3C_4C_5R_1R_4R_5s^3 + C_2 + C_3 + C_4C_5R_4 + C_4C_5R_5 + C_3C_4C_5R_4R_5 + C_3C_4R_4 + C_3C_5R_5 + C_3C_4R_5 + C_3C_5R_5 + C_$$

10.220 X-INVALID-ORDER-220 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_4s + C_3C_5R_1}{C_2C_3C_4C_5C_6R_1R_4R_5s^3 + C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_1R_4 + C_2C_3C_5C_6R_1R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_6R_1 + C_2C_4C_6R_4 + C_2C_5C_6R_5 + C_3C_4C_6R_4 + C_3C_5C_6R_5 + C_3C_4C_5C_6R_4 + C_4C_5C_6R_4 + C_4C_5C_6R_5\right)}$$

10.221 X-INVALID-ORDER-221 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4C_5C_6R_1R_4R_6s^2 + C_3C_5R_1 + s\left(C_3C_4C_5R_1R_4 + C_3C_5C_6R_1R_6\right)}{C_2C_3C_4C_5C_6R_1R_4R_5s^3 + C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_1R_4 + C_2C_3C_5C_6R_1R_5 + C_3C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_6R_4 + C_2C_5C_6R_5 + C_3C_4C_6R_4 + C_3C_5C_6R_5 + C_3C_4C_5C_6R_4 + C_4C_5C_6R_5\right)}$ 10.222 X-INVALID-ORDER-222 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2C_3C_4C_5R_1R_4R_5R_6s^4 + C_2 + C_3 + C_4 - C_5 + s^3\left(C_2C_3C_4C_5R_1R_4R_5 + C_2C_3C_5C_6R_1R_5R_6 + C_2C_4C_5R_4R_5R_6\right) + s^2\left(C_2C_3C_4R_1R_4 + C_2C_3C_5R_1R_5 + C_2C_4C_5R_4R_5 + C_2C_4C_5R_5R_5 + C_2C_4C_5R_5R_5 + C_2C_4C_5R_5R_5 + C_2C_4C_5R_5R_5 + C_2C$ **10.223** X-INVALID-ORDER-223 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$ $H(s) = \frac{C_3C_4C_5R_1R_4R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_3C_4R_1R_4R_6 + C_3C_5R_1R_5R_6\right)}{C_2C_3C_4R_1R_4R_5s^3 + s^2\left(C_2C_3R_1R_5 + C_2C_4R_4R_5 + C_3C_4R_4R_5 - C_4C_5R_4R_5\right) + s\left(C_2R_5 + C_3R_5 - C_4R_4 + C_4R_5 - C_5R_5\right) - 1}$ 10.224 X-INVALID-ORDER-224 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4C_5R_1R_4R_5s^2 + C_3R_1 + s\left(C_3C_4R_1R_4 + C_3C_5R_1R_5\right)}{C_2C_3C_4C_6R_1R_4R_5s^3 - C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 - C_4C_5C_6R_4R_5\right) + s\left(C_2C_6R_5 + C_3C_6R_5 - C_4C_6R_4 + C_4C_6R_5 - C_5C_6R_5\right)}$ 10.225 X-INVALID-ORDER-225 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4C_5C_6R_1R_4R_5R_6s^3 + C_3R_1 + s^2\left(C_3C_4C_5R_1R_4R_5 + C_3C_4C_6R_1R_4R_6 + C_3C_5C_6R_1R_5R_6\right) + s\left(C_3C_4R_1R_4 + C_3C_5R_1R_5 + C_3C_6R_1R_6\right)}{C_2C_3C_4C_6R_1R_4R_5s^3 - C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 - C_4C_5C_6R_4R_5\right) + s\left(C_2C_6R_5 + C_3C_6R_5 - C_4C_6R_4 + C_4C_6R_5 - C_5C_6R_5\right)}$ 10.226 X-INVALID-ORDER-226 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_3C_4C_5R_1R_4R_5R_6s^3 + C_3R_1R_4R_5 + s^2\left(C_3C_4R_1R_4R_6 + C_3C_5R_1R_5R_6\right)}{C_2C_3C_4C_6R_1R_4R_5R_6s^4 + s^3\left(C_2C_3C_4R_1R_4R_5 + C_2C_3C_6R_1R_5R_6 + C_3C_4C_6R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_5 + C_2C_4R_4R_5 + C_3C_6R_5R_6 + C_3C_4R_4R_5 + C_3C_6R_5R_6 - C_4C_5R_4R_5 + C_3C_6R_5R_6\right) + s^2\left(C_3C_4R_4R_5 + C_3C_6R_5R_6 + C_3C_6R_5$

10.227 X-INVALID-ORDER-227 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_1 R_4 R_6 s}{C_2 C_3 C_6 R_1 R_4 R_5 R_6 s^3 - R_4 + R_5 + s^2 \left(C_2 C_3 R_1 R_4 R_5 + C_2 C_6 R_4 R_5 R_6 + C_3 C_6 R_4 R_5 R_6 + C_4 C_6 R_4 R_5 R_6\right) + s \left(C_2 R_4 R_5 + C_3 R_4 R_5 + C_4 R_4 R_5 - C_6 R_4 R_6 + C_6 R_5 R_6\right)}{C_3 R_1 R_4 R_5 R_6 s^3 - R_4 + R_5 + s^2 \left(C_2 C_3 R_1 R_4 R_5 + C_2 C_6 R_4 R_5 R_6 + C_4 C_6 R_4 R_5 R_6\right) + s \left(C_2 R_4 R_5 + C_3 R_4 R_5 + C_4 R_4 R_5 - C_6 R_4 R_6 + C_6 R_5 R_6\right)}$

10.228 X-INVALID-ORDER-228 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{C_2C_3C_6R_1R_4R_6s^3 + s^2\left(C_2C_3R_1R_4 + C_2C_6R_4R_6 + C_3C_6R_4R_6 + C_4C_6R_4R_6 - C_5C_6R_4R_6\right) + s\left(C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4 + C_6R_6\right) + 1}$

10.229 X-INVALID-ORDER-229 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_4R_6s^2}{C_2C_3C_5R_1R_4R_5s^3 + s^2\left(C_2C_3R_1R_4 + C_2C_5R_4R_5 + C_3C_5R_4R_5 + C_4C_5R_4R_5\right) + s\left(C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4 + C_5R_5\right) + 1}$$

10.230 X-INVALID-ORDER-230 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_4s}{C_2C_3C_5C_6R_1R_4R_5s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_5C_6R_4R_5 + C_3C_5C_6R_4R_5 + C_4C_5C_6R_4R_5\right) + s\left(C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4 + C_5C_6R_5\right)}$$

10.231 X-INVALID-ORDER-231 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_2C_3C_5C_6R_1R_4R_5s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_5C_6R_4R_5 + C_3C_5C_6R_4R_5 + C_4C_5C_6R_4R_5\right) + s\left(C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4 + C_5C_6R_5\right)}$ 10.232 X-INVALID-ORDER-232 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{C_2C_3C_5C_6R_1R_4R_5R_6s^4 + s^3\left(C_2C_3C_5R_1R_4R_5 + C_2C_3C_6R_4R_5R_6 + C_3C_5C_6R_4R_5R_6 + C_4C_5C_6R_4R_5 + C_4C_5R_4R_5 + C_4C_5R_5R_5 + C_4C_5R_5R_5 + C_4C_5R_5R_5 + C_4C_5R_5$ 10.233 X-INVALID-ORDER-233 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{C_2C_3C_6R_1R_4R_5R_6s^3 - R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 + C_2C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 + C_4C_6R_4R_5R_6\right) + s\left(C_2R_4R_5 + C_3R_4R_5 + C_4R_4R_5 - C_5R_4R_5 - C_6R_4R_6 + C_6R_5R_6\right)}$ 10.234 X-INVALID-ORDER-234 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_3 R_1 R_4 R_6 s}{-R_4 + R_5 + s^3 \left(C_2 C_3 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_6 R_3 R_4 R_5 R_6\right) + s^2 \left(C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 + C_2 C_6 R_4 R_5 R_6 - C_3 C_6 R_3 R_4 R_6 + C_3 C_6 R_3 R_5 R_6 + C_3 C_6 R_4 R_5 R_6\right) + s \left(C_2 R_4 R_5 - C_3 R_3 R_4 + C_3 R_3 R_5 + C_3 R_4 R_5 - C_6 R_4 R_6 + C_6 R_5 R_6\right)}$ 10.235 X-INVALID-ORDER-235 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_6R_1R_4R_6 + C_2C_3C_6R_3R_4R_6 - C_3C_5C_6R_3R_4R_6\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_3R_4 + C_2C_6R_4R_6 - C_3C_5R_3R_4 + C_3C_6R_4R_6 - C_5C_6R_4R_6\right) + s\left(C_2R_4 + C_3R_3 + C_3R_4 + C_6R_6\right) + 1}$ **10.236** X-INVALID-ORDER-236 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_3R_4R_5\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_3R_4 + C_2C_5R_4R_5 - C_3C_5R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_4R_5\right) + s\left(C_2R_4 + C_3R_3 + C_3R_4 + C_5R_4 + C_5R_5\right) + 1}$ 10.237 X-INVALID-ORDER-237 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5R_1R_4s}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_3R_4 + C_2C_5C_6R_4R_5 - C_3C_5C_6R_3R_4 + C_3C_5C_6R_3R_5 + C_3C_5C_6R_4R_5\right) + s\left(C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 + C_5C_6R_4 + C_5C_6R_4 + C_5C_6R_5\right)}$ **10.238** X-INVALID-ORDER-238 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_3R_4 + C_2C_3C_6R_3R_4 + C_2C_5C_6R_3R_4 + C_3C_5C_6R_3R_5 + C_3C_5C_6R_4R_5\right) + s\left(C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 + C_5C_6R_4 + C_5C_6R_5\right)}$

10.239 X-INVALID-ORDER-239 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_3C_5R_1R_4R_6s^2$

10.240 X-INVALID-ORDER-240 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_3R_4R_5R_6 - C_3C_5C_6R_3R_4R_5 + C_2C_3R_3R_4R_5 + C_2C_3R_3R_4R_5 + C_2C_6R_4R_5R_6 - C_3C_6R_3R_4R_5 + C_3C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 - C_3C_6R_4R_5R_6 + C$

10.241 X-INVALID-ORDER-241 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_1 R_6 s}{s^3 \left(C_2 C_3 C_6 R_1 R_5 R_6 + C_2 C_3 C_6 R_3 R_5 R_6 + C_3 C_4 C_6 R_3 R_5 R_6\right) + s^2 \left(C_2 C_3 R_1 R_5 + C_2 C_3 R_3 R_5 + C_2 C_6 R_5 R_6 + C_3 C_4 R_3 R_5 - C_3 C_6 R_3 R_6 + C_3 C_6 R_5 R_6\right) + s \left(C_2 R_5 - C_3 R_3 + C_3 R_5 + C_4 R_5 - C_6 R_6\right) - 1}$

10.242 X-INVALID-ORDER-242 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s\left(C_2C_3R_1 + C_2C_3R_3 + C_3C_4R_3 - C_3C_5R_3\right)}$

10.243 X-INVALID-ORDER-243 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_3 + C_3C_4C_6R_3 - C_3C_5C_6R_3\right)}$

10.244 X-INVALID-ORDER-244 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_6s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_3 + C_3C_4C_6R_3 - C_3C_5C_6R_3\right)}$

10.245 X-INVALID-ORDER-245 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_2C_3C_5C_6R_1R_5R_6 + C_2C_3C_5C_6R_3R_5R_6 + C_3C_4C_5R_3R_5 + C_2C_3C_6R_1R_6 + C_2C_3C_6R_3R_6 + C_2C_3C_6R_3R_6 + C_3C_4C_5R_3R_5 + C_3C_4C_6R_3R_6 + C_3C_5C_6R_3R_6 + C_3C_5C_6R_5R_6 + C_3C_5C_6R_5R_5 +$

10.246 X-INVALID-ORDER-246 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_5R_6s^2 + C_3R_1R_6s}{s^3\left(C_2C_3C_6R_1R_5R_6 + C_2C_3C_6R_3R_5R_6 + C_3C_4C_6R_3R_5R_6 - C_3C_5C_6R_3R_5R_6 + C_2C_3R_3R_5 + C_2C_6R_5R_6 + C_3C_4R_3R_5 - C_3C_6R_3R_6 + C_3C_6R_5R_6 + C_4C_6R_5R_6 - C_5C_6R_5R_6 \right) + s\left(C_2R_5 - C_3R_3 + C_3R_5 + C_4R_5 - C_5R_5 - C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_$

10.247 X-INVALID-ORDER-247 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3C_4R_1R_4R_6s^2 + C_3R_1R_6s}{s^3\left(C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_3R_4R_5\right) + s^2\left(C_2C_3R_1R_5 + C_2C_3R_3R_5 + C_2C_4R_4R_5 - C_3C_4R_3R_4 + C_3C_4R_3R_5 + C_3C_4R_4R_5\right) + s\left(C_2R_5 - C_3R_3 + C_3R_5 - C_4R_4 + C_4R_5\right) - 1}$

10.248 X-INVALID-ORDER-248 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4R_1R_4s + C_3R_1}{-C_6 + s^3\left(C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_2C_4C_6R_4R_5 - C_3C_4C_6R_3R_4 + C_3C_4C_6R_3R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 - C_4C_6R_4 + C_4C_6R_5\right)}$

10.249 X-INVALID-ORDER-249 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_6R_1R_4R_6s^2 + C_3R_1 + s\left(C_3C_4R_1R_4 + C_3C_6R_1R_6\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_2C_4C_6R_4R_5 - C_3C_4C_6R_3R_4 + C_3C_4C_6R_3R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 - C_4C_6R_4 + C_4C_6R_5\right)}$

10.250 X-INVALID-ORDER-250 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4R_1R_4R_6s^2 + C_3R_1R_6s}{s^4\left(C_2C_3C_4C_6R_1R_4R_5R_6 + C_2C_3C_4C_6R_3R_4R_5R_6 + C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5 + C_2C_3C_6R_1R_5R_6 + C_2C_4C_6R_4R_5R_6 + C_3C_4C_6R_3R_4R_6 + C_3C_4C_6R_4R_5R_6 + C_3C_4C_6R_$

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10.251 X-INVALID-ORDER-251 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_2C_3C_4C_6R_1R_4R_6 + C_2C_3C_4C_6R_3R_4R_6 - C_3C_4C_5R_3R_4 + C_2C_3C_6R_3R_6 + C_2C_4C_6R_3R_6 + C_3C_4C_6R_3R_6 + C_3C_4C_6R_
10.252 X-INVALID-ORDER-252 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_2 + C_3 + C_4 + C_5 + s^3\left(C_2C_3C_4C_5R_1R_4R_5 + C_2C_3C_4C_5R_3R_4 + C_2C_3C_5R_1R_5 + C_2C_3C_5R_3R_5 + C_2C_4C_5R_3R_5 + C_3C_4C_5R_3R_5 + C_3C_4C_5R_5R_5 + C_3C_5C_5R_5 + C_3C_5C_5C_5R_5 + C_3C_5C_5C_5C_5R_5 + C_3C_5C_5C_
10.253 X-INVALID-ORDER-253 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_1R_4s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3\left(C_2C_3C_4C_5C_6R_1R_4R_5 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_5C_6R_3R_5 + C_2C_4C_5C_6R_3R_4 + C_3C_4C_5C_6R_3R_4 + C_3C_4C_5C_6R_4R_5 + C_3C_
10.254 X-INVALID-ORDER-254 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
10.255 X-INVALID-ORDER-255 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_2 + C_3 + C_4 - C_5 + s^4 (C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_5 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_3 R_4 R_6 + C_2 C_3 C_4 C_5 R_3 R_4 R_6 + C_2 C_3 C_4 C_5 C_6 R_3 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_3 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_3 R_4 R_6 + C_2 C_3 C_4 C_5 C_6 R_3 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_3 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_3 R_5 R_6 + C_2 C_3 C_5 C_6 R_3 R_5 R_6 + C_2 C_3 C_5 C_6 R_3 R_5 R_6 + C_2 C_3 C_5 C_6 R_5 R_5 R_5 + C_2 C_5 C_6 R_5 R_5 R_5 + C_2 C_5 C_6 R_5 R_5 R_5 + C_2 C_5 C_5 R_5 R_5 R_5 +
10.256 X-INVALID-ORDER-256 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                           H(s) = \frac{C_3C_4C_5R_1R_4R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_3C_4R_1R_4R_6 + C_3C_5R_1R_5R_6\right)}{s^3\left(C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_3R_4R_5 - C_3C_4R_3R_4R_5 + C_2C_3R_3R_5 + C_2C_4R_4R_5 - C_3C_4R_3R_4 + C_3C_4R_3R_5 + C_3C_4R_4R_5 + C_3C_5R_3R_5 - C_4C_5R_4R_5\right) + s\left(C_2R_5 - C_3R_3 + C_3R_5 - C_4R_4 + C_4R_5 - C_5R_5\right) - 1}
10.257 X-INVALID-ORDER-257 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_1R_4R_5s^2 + C_3R_1 + s\left(C_3C_4R_1R_4 + C_3C_5R_1R_5\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_2C_4C_6R_4R_5 - C_3C_4C_6R_3R_5 + C_3C_4C_6R_5 + C_3C_4C_5C_6R_5 + C_3C_4C_5C_6R_5 + C_3C_4C_5C_6R_5 + C_3C_4C_5C_6R_5 + C_3C_4C_5C_6R_5 + C_3C_4C_5C_6R_
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10.258 X-INVALID-ORDER-258 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_4R_5R_6s^3 + C_3R_1 + s^2\left(C_3C_4C_5R_1R_4R_5 + C_3C_4C_6R_1R_4R_6 + C_3C_5C_6R_1R_5R_6\right) + s\left(C_3C_4R_1R_4 + C_3C_5R_1R_5 + C_3C_4R_1R_6\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_2C_4C_6R_4R_5 - C_3C_4C_6R_3R_5 + C_3C_4C_6R_5 + C_3C_4C_6R_5 + C_3C_4C_6R_5 + C_3C_4C_6R_5 + C_3C_4C_6R_5 + C_3C_4C_6R_5 + C_3C_4C_5C_6R_5 + C_3C_4C_5C_6R_5 + C_3C_5C_6R_5 + C_3C_5C_6R_5 + C_3C_5C_6R_5 + C_3C_5C_6R_5 + C_3C$

10.259 X-INVALID-ORDER-259 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_4R_5R_6}{s^4\left(C_2C_3C_4C_6R_1R_4R_5R_6 + C_2C_3C_4C_6R_3R_4R_5R_6 + C_3C_4C_5R_3R_4R_5 + C_2C_3C_4R_3R_4R_5 + C_2C_3C_6R_3R_5R_6 + C_2C_3C_6R_3R_5R_6 + C_2C_3C_6R_3R_5R_6 + C_3C_4C_5R_3R_4R_5 - C_3C_4C_5R_3R_4R_5 + C_3C_4C_5R_4R_5R_5 + C_3C_4C_5R_4R_5R_5 + C_3C_4C_5R_4R_5R_5 + C_3C_4C_5R_4R_5R_5 + C_3C_4C_5R_4R_5R_5 + C_3C_4C_5R_5R_5R_5 + C_3C_4C_5R_5R_5R_5R_5 + C_3C_4C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5$

10.260 X-INVALID-ORDER-260 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

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10.261 X-INVALID-ORDER-261 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_6R_1R_4R_6 + C_2C_3C_6R_3R_4R_6 + C_3C_4C_6R_3R_4R_6 - C_3C_5C_6R_3R_4R_6\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_3R_4 + C_2C_6R_4R_6 + C_3C_6R_3R_6 + C_3C_6R_4R_6 + C_4C_6R_4R_6 - C_5C_6R_4R_6\right) + s\left(C_2R_4 + C_3R_3 + C_4R_4 + C_4R_4 - C_5R_4 + C_6R_6R_4R_6\right) + s\left(C_2R_4 + C_3R_3 + C_4R_4 + C_4R_4 - C_5R_4 + C_4R_4 + C_4R_4 - C_5R_4 + C_4R_4 + C_4R_4 + C_4R_4 - C_4R_4 + C_4R_4 + C_4R_4 - C_4R_4 + C_4R_4 
10.262 X-INVALID-ORDER-262 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                               H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_3R_4R_5 + C_3C_4C_5R_3R_4R_5\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_3R_4 + C_2C_5R_4R_5 + C_3C_5R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_4R_5 + C_4C_5R_4R_5\right) + s\left(C_2R_4 + C_3R_3 + C_3R_4 + C_4R_4 - C_5R_4 + C_5R_5\right) + 1}
10.263 X-INVALID-ORDER-263 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
10.264 X-INVALID-ORDER-264 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
10.265 X-INVALID-ORDER-265 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{s^4 \left( C_2 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_3 R_4 R_5 R_6 + C_3 C_4 C_5 C_6 R_3 R_4 R_5 R_6 + C_3 C_5 C_6 R_3 R_4 R_5 + C_2 C_3 C_5 R_5 R_5 + C_2 C_3 C_5 R_5 R_5 + C_2 C_3 C_5 R_5 R_5 + C_2 C_5 C_5 R_5
10.266 X-INVALID-ORDER-266 Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_3R_4R_5R_6 - C_3C_5C_6R_3R_4R_5R_6 + C_2C_3R_3R_4R_5 + C_2C_3R_3R_4R_5 + C_2C_3R_3R_4R_5 + C_2C_3R_3R_4R_5 - C_3C_5R_3R_4R_5 - C_3C_6R_3R_4R_5 + C_3C_6R_3R_4R_5R_6 + C_3C_6R_5R_5R_5R_6 + C_3C_6R_5R_5R_5R_6 + C_3C_6R_5R_5R_5R_6 + C_3C_6R_5R_5R_5R_6 + C_3C_6R_5R_5R_5R_6 + C_3C_6R_5R_5R
10.267 X-INVALID-ORDER-267 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                      H(s) = \frac{C_3 R_1 R_3 R_4 s + R_1 R_4}{C_2 C_3 C_6 R_1 R_3 R_4 R_5 s^3 + s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 + C_3 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}
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$$H(s) = \frac{C_3 R_1 R_3 R_4 s + R_1 R_4}{C_2 C_3 C_6 R_1 R_3 R_4 R_5 s^3 + s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 + C_3 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}$$

10.268 X-INVALID-ORDER-268 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_1R_3R_4R_6s^2 + R_1R_4 + s\left(C_3R_1R_3R_4 + C_6R_1R_4R_6\right)}{C_2C_3C_6R_1R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$$

10.269 X-INVALID-ORDER-269 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3 R_1 R_3 R_4 R_6 s + R_1 R_4 R_6}{C_2 C_3 C_6 R_1 R_3 R_4 R_5 R_6 s^3 - R_3 R_4 + R_3 R_5 + R_4 R_5 + s^2 \left(C_2 C_3 R_1 R_3 R_4 R_5 + C_2 C_6 R_1 R_4 R_5 R_6 + C_2 C_6 R_3 R_4 R_5 R_6\right) + s \left(C_2 R_1 R_4 R_5 + C_2 R_3 R_4 R_5 + C_3 R_3 R_4 R_5 - C_6 R_3 R_4 R_6 + C_6 R_3 R_5 R_6 + C_6 R_4 R_5 R_6\right)}$$

10.270 X-INVALID-ORDER-270 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{C_2C_3C_6R_1R_3R_4R_6s^3 + R_3 + R_4 + s^2\left(C_2C_3R_1R_3R_4 + C_2C_6R_1R_4R_6 + C_2C_6R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_1R_4 + C_2R_3R_4 + C_3R_3R_4 - C_5R_3R_4 + C_6R_3R_6 + C_6R_4R_6\right)}$$

10.271 X-INVALID-ORDER-271 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{C_2C_3C_5R_1R_3R_4R_5s^3 + R_3 + R_4 + s^2\left(C_2C_3R_1R_3R_4 + C_2C_5R_1R_4R_5 + C_2C_5R_3R_4R_5 + C_3C_5R_3R_4R_5\right) + s\left(C_2R_1R_4 + C_2R_3R_4 + C_3R_3R_4 + C_5R_3R_5 + C_5R_4R_5\right)}$

10.272 X-INVALID-ORDER-272 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_4s + C_5R_1R_4}{C_2C_3C_5C_6R_1R_3R_4R_5s^3 + C_6R_3 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_3R_4 + C_2C_5C_6R_1R_4R_5 + C_2C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3$

10.273 X-INVALID-ORDER-273 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s\left(C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_2C_3C_5C_6R_1R_3R_4R_5s^3 + C_6R_3 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_3R_4 + C_2C_5C_6R_1R_4R_5 + C_2C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_5C_6R_3R_4 + C_5C_$

10.274 X-INVALID-ORDER-274 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{C_2C_3C_5C_6R_1R_3R_4R_5R_6s^4 + R_3 + R_4 + s^3\left(C_2C_3C_5R_1R_3R_4R_6 + C_2C_5C_6R_1R_4R_5R_6 + C_2C_5C_6R_3R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_3R_4 + C_2C_5R_3R_4R_5 + C_2C_5R_3R_4R_5 + C_2C_6R_3R_4R_5 + C_2C_6R_3R_4R$

10.275 X-INVALID-ORDER-275 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_4R_5s^2 + R_1R_4 + s\left(C_3R_1R_3R_4 + C_5R_1R_4R_5\right)}{C_2C_3C_6R_1R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$

10.276 X-INVALID-ORDER-276 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_3R_4R_5R_6s^3 + R_1R_4 + s^2\left(C_3C_5R_1R_3R_4R_5 + C_3C_6R_1R_3R_4R_6 + C_5C_6R_1R_4R_5R_6\right) + s\left(C_3R_1R_3R_4 + C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{C_2C_3C_6R_1R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$

10.277 X-INVALID-ORDER-277 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_6 + C_5R_1R_4R_5R_6\right)}{C_2C_3C_6R_1R_3R_4R_5R_6s^3 - R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_3R_4R_5 + C_2C_6R_1R_4R_5R_6 + C_3C_6R_3R_4R_5R_6 + C_5C_6R_3R_4R_5 + C_2R_3R_4R_5 + C_2R_3R_4R_5 + C_2R_3R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 + C_3R_3R_4R_5$

10.278 X-INVALID-ORDER-278 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1 R_3 s + R_1}{C_2 C_3 C_6 R_1 R_3 R_5 s^3 + s^2 \left(C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_3 C_6 R_3 R_5 + C_4 C_6 R_3 R_5\right) + s \left(-C_6 R_3 + C_6 R_5\right)}$

10.279 X-INVALID-ORDER-279 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_3R_6s^2 + R_1 + s\left(C_3R_1R_3 + C_6R_1R_6\right)}{C_2C_3C_6R_1R_3R_5s^3 + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

10.280 X-INVALID-ORDER-280 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3R_1R_3R_6s + R_1R_6}{C_2C_3C_6R_1R_3R_5R_6s^3 - R_3 + R_5 + s^2\left(C_2C_3R_1R_3R_5 + C_2C_6R_1R_5R_6 + C_2C_6R_3R_5R_6 + C_3C_6R_3R_5R_6\right) + s\left(C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5 - C_6R_3R_6 + C_6R_5R_6\right)}$

10.281 X-INVALID-ORDER-281 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_6s^2 + C_5R_1R_6s}{C_2C_3C_6R_1R_3R_6s^3 + s^2\left(C_2C_3R_1R_3 + C_2C_6R_1R_6 + C_2C_6R_3R_6 + C_3C_6R_3R_6 + C_4C_6R_3R_6 - C_5C_6R_3R_6\right) + s\left(C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3 + C_6R_6\right) + 1}$$

10.282 X-INVALID-ORDER-282 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_6s^2 + C_5R_1R_6s}{C_2C_3C_5R_1R_3R_5s^3 + s^2\left(C_2C_3R_1R_3 + C_2C_5R_1R_5 + C_2C_5R_3R_5 + C_3C_5R_3R_5 + C_4C_5R_3R_5\right) + s\left(C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3 + C_5R_5\right) + 1}$$

10.283 X-INVALID-ORDER-283 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_3s + C_5R_1}{C_2C_3C_5C_6R_1R_3R_5s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_3 + C_2C_5C_6R_1R_5 + C_2C_5C_6R_3R_5 + C_4C_5C_6R_3R_5\right) + s\left(C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3 + C_5C_6R_3\right)}$$

10.284 X-INVALID-ORDER-284 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_3R_6s^2 + C_5R_1 + s\left(C_3C_5R_1R_3 + C_5C_6R_1R_6\right)}{C_2C_3C_5C_6R_1R_3R_5s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_3 + C_2C_5C_6R_1R_5 + C_2C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3 + C_5C_6R_5\right)}$$

10.285 X-INVALID-ORDER-285 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_6s^2 + C_5R_1R_6s}{C_2C_3C_5C_6R_1R_3R_5R_6s^4 + s^3\left(C_2C_3C_5R_1R_3R_5 + C_2C_5C_6R_1R_3R_6 + C_2C_5C_6R_3R_5R_6 + C_4C_5C_6R_3R_5R_6\right) + s^2\left(C_2C_3R_1R_3 + C_2C_5R_1R_5 + C_2C_6R_3R_6 + C_3C_5R_3R_5 + C_3C_6R_3R_6 + C_4C_5R_3R_5 + C_4C_5R_5R_5 + C$$

10.286 X-INVALID-ORDER-286 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_5s^2 + R_1 + s\left(C_3R_1R_3 + C_5R_1R_5\right)}{C_2C_3C_6R_1R_3R_5s^3 + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5 - C_5C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$$

10.287 X-INVALID-ORDER-287 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_3R_5R_6s^3 + R_1 + s^2\left(C_3C_5R_1R_3R_5 + C_3C_6R_1R_3R_6 + C_5C_6R_1R_5R_6\right) + s\left(C_3R_1R_3 + C_5R_1R_5 + C_6R_1R_6\right)}{C_2C_3C_6R_1R_3R_5s^3 + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5 - C_5C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$$

10.288 X-INVALID-ORDER-288 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_5R_6s^2 + R_1R_6 + s\left(C_3R_1R_3R_6 + C_5R_1R_5R_6\right)}{C_2C_3C_6R_1R_3R_5R_6s^3 - R_3 + R_5 + s^2\left(C_2C_3R_1R_3R_5 + C_2C_6R_1R_5R_6 + C_3C_6R_3R_5R_6 + C_4C_6R_3R_5R_6 - C_5C_6R_3R_5R_6\right) + s\left(C_2R_1R_5 + C_2R_3R_5 + C_4R_3R_5 - C_5R_3R_5 - C_6R_3R_6 + C_6R_5R_6\right)}$$

10.289 X-INVALID-ORDER-289 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3C_4R_1R_3R_4R_6s^2 + R_1R_6 + s\left(C_3R_1R_3R_6 + C_4R_1R_4R_6\right)}{C_2C_3C_4R_1R_3R_4R_5s^3 - R_3 + R_5 + s^2\left(C_2C_3R_1R_3R_5 + C_2C_4R_1R_4R_5 + C_2C_4R_3R_4R_5 + C_3C_4R_3R_4R_5\right) + s\left(C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 - C_4R_3R_4 + C_4R_3R_5 + C_4R_4R_5\right)}$$

10.290 X-INVALID-ORDER-290 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4R_1R_3R_4s^2 + R_1 + s\left(C_3R_1R_3 + C_4R_1R_4\right)}{C_2C_3C_4C_6R_1R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_3R_5 + C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_4 + C_4C_6R_3R_5 +$$

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10.291 X-INVALID-ORDER-291 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                              H(s) = \frac{C_3C_4C_6R_1R_3R_4R_6s^3 + R_1 + s^2\left(C_3C_4R_1R_3R_4 + C_3C_6R_1R_3R_6 + C_4C_6R_1R_4R_6\right) + s\left(C_3R_1R_3 + C_4R_1R_4 + C_6R_1R_6\right)}{C_2C_3C_4C_6R_1R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_3R_5 + C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_4 + C_4C_6R_3R_5 + C_4C_6R_5 + C_
10.292 X-INVALID-ORDER-292 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_4R_1R_3R_4R_6s^2 + R_1R_6 + s\left(C_3R_1R_3R_6 + C_4R_1R_4R_6\right)}{C_2C_3C_4C_6R_1R_3R_4R_5R_6s^4 - R_3 + R_5 + s^3\left(C_2C_3C_4R_1R_3R_4R_5 + C_2C_4C_6R_1R_4R_5R_6 + C_2C_4C_6R_3R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_3R_5 + C_2C_4R_3R_4R_5 + C_2
10.293 X-INVALID-ORDER-293 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                         H(s) = \frac{C_3C_4C_5R_1R_3R_4R_6s^3 + C_5R_1R_6s + s^2\left(C_3C_5R_1R_3R_6 + C_4C_5R_1R_4R_6\right)}{C_2C_3C_4R_1R_3R_4s^3 + s^2\left(C_2C_3R_1R_3 + C_2C_4R_1R_4 + C_2C_4R_3R_4 + C_3C_4R_3R_4 - C_4C_5R_3R_4\right) + s\left(C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3 + C_4R_4 - C_5R_3\right) + 1}
10.294 X-INVALID-ORDER-294 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                  H(s) = \frac{C_3C_4C_5R_1R_3R_4s^2 + C_5R_1 + s\left(C_3C_5R_1R_3 + C_4C_5R_1R_4\right)}{C_2C_3C_4C_6R_1R_3R_4s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_3 + C_2C_4C_6R_1R_4 + C_2C_4C_6R_3R_4 + C_3C_4C_6R_3R_4 - C_4C_5C_6R_3R_4\right) + s\left(C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 + C_4C_6R_4 - C_5C_6R_3\right)}
10.295 X-INVALID-ORDER-295 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                H(s) = \frac{C_3C_4C_5C_6R_1R_3R_4R_6s^3 + C_5R_1 + s^2\left(C_3C_4C_5R_1R_3R_4 + C_3C_5C_6R_1R_3R_6 + C_4C_5C_6R_1R_4R_6\right) + s\left(C_3C_5R_1R_3 + C_4C_5R_1R_4 + C_5C_6R_1R_6\right)}{C_2C_3C_4C_6R_1R_3R_4s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_3 + C_2C_4C_6R_1R_4 + C_3C_4C_6R_3R_4 + C_3C_4C_6R_3R_4 - C_4C_5C_6R_3R_4\right) + s\left(C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 + C_4C_6R_4 - C_5C_6R_3\right)}
10.296 X-INVALID-ORDER-296 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_4C_5R_1R_3R_4R_6s^3 + C_5R_1R_6s + s^2\left(C_3C_5R_1R_3R_6 + C_4C_5R_1R_4R_6\right)}{C_2C_3C_4C_6R_1R_3R_4R_6s^4 + s^3\left(C_2C_3C_4R_1R_3R_4 + C_2C_4C_6R_1R_3R_6 + C_2C_4C_6R_3R_4R_6 + C_3C_4C_6R_3R_4R_6\right) + s^2\left(C_2C_3R_1R_3 + C_2C_4R_1R_4 + C_2C_4R_3R_4 + C_2C_6R_3R_6 + C_3C_4R_3R_4 + C_3C_6R_3R_6 + C_3C_4R_3R_4 + C_3C_6R_3R_6 + C_3C_4R_3R_4 + C_3C_6R_3R_4 + C_3C_6R_3R_4
10.297 X-INVALID-ORDER-297 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_1R_3R_4R_6s^3 + C_5R_1R_3R_4 + s^2\left(C_3C_5R_1R_3R_6 + C_4C_5R_1R_4R_6\right)}{C_2C_3C_4C_5R_1R_3R_4R_5s^4 + s^3\left(C_2C_3C_4R_1R_3R_4 + C_2C_3C_5R_1R_3R_5 + C_2C_4C_5R_1R_4R_5 + C_2C_4C_5R_3R_4R_5\right) + s^2\left(C_2C_3R_1R_3 + C_2C_4R_1R_4 + C_2C_5R_1R_5 + C_2C_5R_3R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 - C_4C_5R_3R_4 + C_4C_5R_3R_5 + C_4C_5R_5R_5 + C_4C_5R_5R_5 + C_4C_5R_5R_5 + C_4C_5R_5R_5 + C_4C_5R_5R
10.298 X-INVALID-ORDER-298 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3C_4C_5R_1R_3R_4s^2 + C_5R_1 + s\left(C_3C_5R_1R_3 + C_4C_5R_1R_4\right)}{C_2C_3C_4C_5C_6R_1R_3R_4F_5s^4 + C_6 + s^3\left(C_2C_3C_4C_6R_1R_3R_4 + C_2C_4C_5C_6R_1R_3R_4 + C_2C_4C_5C_6R_1R_4 + C$

10.299 X-INVALID-ORDER-299 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_3R_4R_6s^3 + C_5R_1 + s^2\left(C_3C_4C_5R_1R_3R_4 + C_3C_5C_6R_1R_3R_6 + C_4C_5C_6R_1R_4R_6\right) + s\left(C_3C_5R_1R_3 + C_4C_5R_1R_4 + C_5C_5C_6R_1R_3R_4 + C_5C_5C_6R_1R_4R_5 + C_5C_5C_6R_1R_5 + C_5C_5C_6R_1R_5$

10.300 X-INVALID-ORDER-300 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

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10.301 X-INVALID-ORDER-301 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                           H(s) = \frac{C_3C_4C_5R_1R_3R_4R_5R_6s^3 + R_1R_6 + s^2\left(C_3C_4R_1R_3R_4R_6 + C_3C_5R_1R_3R_5R_6 + C_4C_5R_1R_4R_5R_6\right) + s\left(C_3R_1R_3R_6 + C_4R_1R_4R_6 + C_5R_1R_5R_6\right)}{C_2C_3C_4R_1R_3R_4R_5s^3 - R_3 + R_5 + s^2\left(C_2C_3R_1R_3R_5 + C_2C_4R_1R_4R_5 + C_3C_4R_3R_4R_5 + C_3C_4R_3R_4R_5\right) + s\left(C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 - C_4R_3R_4 + C_4R_3R_5 + C_4R_4R_5 - C_5R_3R_5\right)}
10.302 X-INVALID-ORDER-302 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{1}{C_6 s}\right)
       H(s) = \frac{C_3C_4C_5R_1R_3R_4R_5s^3 + R_1 + s^2\left(C_3C_4R_1R_3R_4 + C_3C_5R_1R_3R_5 + C_4C_5R_1R_4R_5\right) + s\left(C_3R_1R_3 + C_4R_1R_4 + C_5R_1R_5\right)}{C_2C_3C_4C_6R_1R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_3R_5 + C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_3R_4R_5 + C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s\left(C_3R_1R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_3R_5 + C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s\left(C_3R_1R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_3R_5 + C_2C_4C_6R_3R_4R_5 + C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_1R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_1R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_1R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_1R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_1R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_1R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(C_3C_6R_3R_5\right) + s^2\left(C_3C
10.303 X-INVALID-ORDER-303 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_4 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5C_6R_1R_3R_4R_5R_6s^4 + R_1 + s^3\left(C_3C_4C_5R_1R_3R_4R_5 + C_3C_4C_6R_1R_3R_4R_6 + C_3C_5C_6R_1R_3R_5R_6 + C_4C_5C_6R_1R_3R_5 + C_3C_6R_1R_3R_6 + C_4C_5R_1R_4R_5 + C_4C_6R_1R_4R_6 + C_5C_6R_1R_5R_6\right) + s\left(C_3R_1R_3 + C_4R_1R_4 + C_5C_6R_1R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4
10.304 X-INVALID-ORDER-304 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \frac{C_3C_4C_5R_1R_3R_4R_5R_6s^3 + R_1R_6 + s^2\left(C_3C_4R_1R_3R_4R_6 + C_3C_5R_1R_3R_5R_6 + C_4C_5R_1R_4R_5R_6s^3 + R_1R_6 + s^2\left(C_3C_4R_1R_3R_4R_6 + C_3C_5R_1R_3R_5R_6 + C_4C_5R_1R_4R_5R_6\right)}{C_2C_3C_4C_6R_1R_3R_4R_5R_6s^4 - R_3 + R_5 + s^3\left(C_2C_3C_4R_1R_3R_4R_5 + C_2C_4R_1R_4R_5R_6 + C_2C_4R_1R_4R_5R_6 + C_2C_4R_1R_4R_5 + C_2C_4R_1R_4R_5R_6 
10.305 X-INVALID-ORDER-305 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                               H(s) = \frac{C_3 R_1 R_3 R_4 s + R_1 R_4}{C_2 C_3 C_6 R_1 R_3 R_4 R_5 s^3 + s^2 \left(C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 + C_3 C_6 R_3 R_4 R_5 + C_4 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}
10.306 X-INVALID-ORDER-306 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                             H(s) = \frac{C_3C_6R_1R_3R_4R_6s^2 + R_1R_4 + s\left(C_3R_1R_3R_4 + C_6R_1R_4R_6\right)}{C_2C_3C_6R_1R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_4C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.307 X-INVALID-ORDER-307 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3R_1R_3R_4R_6s + R_1R_4R_6}{C_2C_3C_6R_1R_3R_4R_5R_6s^3 - R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_3R_4R_5 + C_2C_6R_1R_4R_5R_6 + C_3C_6R_3R_4R_5R_6\right) + s\left(C_2R_1R_4R_5 + C_2R_3R_4R_5 + C_4R_3R_4R_5 + C_4R_3R_4R_5 + C_6R_3R_4R_5 + C_6R_3R_5R_5 + C_6R_5R_5R_5 + 
10.308 X-INVALID-ORDER-308 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_2 R_2 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)
                                                              H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{C_2C_3C_6R_1R_3R_4R_6s^3 + R_3 + R_4 + s^2\left(C_2C_3R_1R_3R_4 + C_2C_6R_1R_4R_6 + C_3C_6R_3R_4R_6 + C_4C_6R_3R_4R_6\right) + s\left(C_2R_1R_4 + C_2R_3R_4 + C_3R_3R_4 + C_4R_3R_4 - C_5R_3R_4 + C_6R_3R_6 + C_6R_4R_6\right)}
10.309 X-INVALID-ORDER-309 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                            H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{C_2C_3C_5R_1R_3R_4R_5s^3 + R_3 + R_4 + s^2\left(C_2C_3R_1R_3R_4 + C_2C_5R_1R_4R_5 + C_2C_5R_3R_4R_5 + C_3C_5R_3R_4R_5 + C_4C_5R_3R_4 + C_2R_3R_4 + C_3R_3R_4 + C_4R_3R_4 + C_5R_3R_5 + C_5R_4R_5\right)}
10.310 X-INVALID-ORDER-310 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
```

 $=\frac{C_{3}C_{5}R_{1}R_{3}R_{4}s+C_{5}R_{1}R_{4}}{C_{2}C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}+S_{5}s^{3}+C_{6}R_{3}+C_{6}R_{4}+s^{2}\left(C_{2}C_{3}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{5}C_{6}R_{1}R_{4}R_{5}+C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{3}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{4}C_{5}C_{6}R_{3}R_{4}+C_{5}C_{6}R_{3}R_{5}+C_{5}C_$

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10.311 X-INVALID-ORDER-311 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
             H(s) = \frac{C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s\left(C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_2C_3C_5C_6R_1R_3R_4R_5s^3 + C_6R_3 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_3R_4 + C_2C_5C_6R_1R_4R_5 + C_2C_5C_6R_3R_4R_5 + C_4C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_1R_4 + C_4C_6R_3R_4 + C_4C_6R_3R_4 + C_5C_6R_3R_4 +
10.312 X-INVALID-ORDER-312 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.313 X-INVALID-ORDER-313 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                                        H(s) = \frac{C_3C_5R_1R_3R_4R_5s^2 + R_1R_4 + s\left(C_3R_1R_3R_4 + C_5R_1R_4R_5\right)}{C_2C_3C_6R_1R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_4C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.314 X-INVALID-ORDER-314 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                        H(s) = \frac{C_3C_5C_6R_1R_3R_4R_5R_6s^3 + R_1R_4 + s^2\left(C_3C_5R_1R_3R_4R_5 + C_3C_6R_1R_3R_4R_6 + C_5C_6R_1R_4R_5R_6\right) + s\left(C_3R_1R_3R_4 + C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{C_2C_3C_6R_1R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_4C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.315 X-INVALID-ORDER-315 Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_5R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_6 + C_5R_1R_4R_5R_6\right)}{C_2C_3C_6R_1R_3R_4R_5R_6s^3 - R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_3R_4R_5 + C_2C_6R_1R_4R_5R_6 + C_3C_6R_3R_4R_5R_6 + C_4C_6R_3R_4R_5R_6\right) + s\left(C_2R_1R_4R_5 + C_2R_3R_4R_5 + C_4R_3R_4R_5 + C_5R_3R_4R_5 + C_5R_5R_5R_5 + C_5R_5R_5R_5 + C_5R_5R_5R_5 + C_5R_5R_5R_5 + C_5R_5R_5R_5 + C_5R_
10.316 X-INVALID-ORDER-316 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, R_6\right)
                                                                                                                                                                                                                                  H(s) = \frac{C_2 R_1 R_2 R_4 R_6 s + R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s \left(C_2 R_1 R_4 R_5 - C_2 R_2 R_3 R_4 + C_2 R_2 R_3 R_5 + C_2 R_2 R_4 R_5 + C_2 R_3 R_4 R_5\right)}
10.317 X-INVALID-ORDER-317 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                            H(s) = \frac{C_2 R_1 R_2 R_4 s + R_1 R_4}{s^2 \left(C_2 C_6 R_1 R_4 R_5 - C_2 C_6 R_2 R_3 R_4 + C_2 C_6 R_2 R_3 R_5 + C_2 C_6 R_2 R_4 R_5 + C_2 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}
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10.318 X-INVALID-ORDER-318 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_6R_1R_2R_4R_6s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_6R_1R_4R_6\right)}{s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$$

10.319 X-INVALID-ORDER-319 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{-C_2C_5C_6R_2R_3R_4R_6s^3 + R_3 + R_4 + s^2\left(-C_2C_5R_2R_3R_4 + C_2C_6R_2R_3R_6 + C_2C_6R_2R_4R_6 + C_2C_6R_3R_4R_6\right) + s\left(C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 + C_5R_3R_4 + C_6R_3R_6 + C_6R_4R_6\right)}$$

10.320 X-INVALID-ORDER-320 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{R_3 + R_4 + s^3\left(C_2C_5C_6R_1R_4R_5R_6 - C_2C_5C_6R_2R_3R_4R_6 + C_2C_5C_6R_2R_4R_5R_6 + C_2C_5C_6R_2R_4R_5R_6 + C_2C_5C_6R_2R_4R_5R_6 + C_2C_5R_2R_4R_5 + C_2C_5R_4R_5 + C_2C_5R_5R_5 + C_2C_5R_$$

10.321 X-INVALID-ORDER-321 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5R_1R_2R_4R_5s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5\right)}{-C_2C_5C_6R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$

10.322 X-INVALID-ORDER-322 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5C_6R_1R_2R_4R_5R_6s^3 + R_1R_4 + s^2\left(C_2C_5R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_6 + C_5C_6R_1R_4R_5R_6\right) + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{-C_2C_5C_6R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$

10.323 X-INVALID-ORDER-323 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_5R_1R_2R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_5R_1R_4R_5R_6\right)}{-C_2C_5C_6R_2R_3R_4R_5R_6s^3 - R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(-C_2C_5R_2R_3R_4R_5 + C_2C_6R_2R_3R_4R_6 + C_2C_6R_2R_3R_4R_5R_6 + C_2C_6R_3R_4R_5R_6 + C_2C_6R_3R_4R_5 + C_2C_6R_5R_5R_5 + C_2C_6R_5R_5R_5 + C_2C_6R_5R_5R_5 + C_2C_6R_5R_5R_5 + C_2C_6R_5R_5R_5 + C_2C_6R_5R_5R_5 + C_2C_5R_5R_5 + C_2C_5R_5R_5 + C_2C_5R_$

10.324 X-INVALID-ORDER-324 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2R_1R_2s + R_1}{C_2C_4C_6R_2R_3R_5s^3 + s^2\left(C_2C_6R_1R_5 - C_2C_6R_2R_3 + C_2C_6R_2R_5 + C_2C_6R_3R_5 + C_4C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

10.325 X-INVALID-ORDER-325 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_6R_1R_2R_6s^2 + R_1 + s\left(C_2R_1R_2 + C_6R_1R_6\right)}{C_2C_4C_6R_2R_3R_5s^3 + s^2\left(C_2C_6R_1R_5 - C_2C_6R_2R_3 + C_2C_6R_2R_5 + C_2C_6R_3R_5 + C_4C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

10.326 X-INVALID-ORDER-326 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2 R_1 R_2 R_6 s + R_1 R_6}{C_2 C_4 C_6 R_2 R_3 R_5 R_6 s^3 - R_3 + R_5 + s^2 \left(C_2 C_4 R_2 R_3 R_5 + C_2 C_6 R_1 R_5 R_6 - C_2 C_6 R_2 R_3 R_6 + C_2 C_6 R_2 R_5 R_6 + C_2 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 \right) + s \left(C_2 R_1 R_5 - C_2 R_2 R_3 + C_2 R_2 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_6 R_3 R_6 + C_6 R_5 R_6 \right)}$

10.327 X-INVALID-ORDER-327 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_5R_1R_2R_6s^2 + C_5R_1R_6s}{s^3\left(C_2C_4C_6R_2R_3R_6 - C_2C_5C_6R_2R_3R_6\right) + s^2\left(C_2C_4R_2R_3 - C_2C_5R_2R_3 + C_2C_6R_1R_6 + C_2C_6R_2R_6 + C_2C_6R_3R_6 - C_5C_6R_3R_6\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_4R_3 - C_5R_3 + C_6R_6\right) + 1}$

10.328 X-INVALID-ORDER-328 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_5R_1R_2R_6s^2 + C_5R_1R_6s}{C_2C_4C_5R_2R_3R_5s^3 + s^2\left(C_2C_4R_2R_3 + C_2C_5R_1R_5 - C_2C_5R_2R_3 + C_2C_5R_2R_5 + C_2C_5R_3R_5 + C_4C_5R_3R_5\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_4R_3 - C_5R_3 + C_5R_5\right) + 1}$

10.329 X-INVALID-ORDER-329 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5R_1R_2s + C_5R_1}{C_2C_4C_5C_6R_2R_3R_5s^3 + C_6 + s^2\left(C_2C_4C_6R_2R_3 + C_2C_5C_6R_1R_5 - C_2C_5C_6R_2R_3 + C_2C_5C_6R_2R_5 + C_2C_5C_6R_3R_5\right) + s\left(C_2C_6R_1 + C_2C_6R_2 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3 + C_4C_6R_3\right)}$

10.330 X-INVALID-ORDER-330 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5C_6R_1R_2R_6s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_5C_6R_1R_6\right)}{C_2C_4C_5C_6R_2R_3R_5s^3 + C_6 + s^2\left(C_2C_4C_6R_2R_3 + C_2C_5C_6R_1R_5 - C_2C_5C_6R_2R_3 + C_2C_5C_6R_2R_5 + C_2C_5C_6R_3R_5 + C_4C_5C_6R_3R_5\right) + s\left(C_2C_6R_1 + C_2C_6R_2 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3 + C_5C_6R_3\right)}$

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10.331 X-INVALID-ORDER-331 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_2C_5R_1R_2R_6s^2 + C_5R_1R_6s
H(s) = \frac{C_2C_5R_1R_2R_6s^2 + C_5R_1R_6s}{C_2C_4C_5C_6R_2R_3R_5R_6s^4 + s^3\left(C_2C_4C_5R_2R_3R_5 + C_2C_5C_6R_1R_5R_6 - C_2C_5C_6R_2R_3R_6 + C_2C_5C_6R_2R_3R_5 + C_2C_5R_3R_5 + C_2C_5R_2R_3 + C_2C_5R_3R_3 + C_2C_5R_
10.332 X-INVALID-ORDER-332 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                               H(s) = \frac{C_2C_5R_1R_2R_5s^2 + R_1 + s\left(C_2R_1R_2 + C_5R_1R_5\right)}{s^3\left(C_2C_4C_6R_2R_3R_5 - C_2C_5C_6R_2R_3R_5\right) + s^2\left(C_2C_6R_1R_5 - C_2C_6R_2R_3 + C_2C_6R_2R_5 + C_2C_6R_3R_5 + C_4C_6R_3R_5 - C_5C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}
10.333 X-INVALID-ORDER-333 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                               H(s) = \frac{C_2C_5C_6R_1R_2R_5R_6s^3 + R_1 + s^2\left(C_2C_5R_1R_2R_5 + C_2C_6R_1R_2R_6 + C_5C_6R_1R_5R_6\right) + s\left(C_2R_1R_2 + C_5R_1R_5 + C_6R_1R_6\right)}{s^3\left(C_2C_4C_6R_2R_3R_5 - C_2C_5C_6R_2R_3R_5\right) + s^2\left(C_2C_6R_1R_5 - C_2C_6R_2R_3 + C_2C_6R_2R_5 + C_2C_6R_3R_5 + C_4C_6R_3R_5 - C_5C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}
10.334 X-INVALID-ORDER-334 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_5R_1R_2R_5R_6s^2 + R_1R_6 + s\left(C_2R_1R_2R_6 + C_5R_1R_5R_6\right)}{-R_3 + R_5 + s^3\left(C_2C_4C_6R_2R_3R_5R_6 - C_2C_5C_6R_2R_3R_5R_6\right) + s^2\left(C_2C_4R_2R_3R_5 - C_2C_5R_2R_3R_5 + C_2C_6R_1R_5R_6 - C_2C_6R_2R_3R_5R_6 + C_2C_6R_3R_5R_6 + C_2C_6R_3R_5R_6\right) + s\left(C_2R_1R_5 - C_2R_2R_3 + C_2R_2R_5 + C_2R_3R_5 + C_2
10.335 X-INVALID-ORDER-335 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                            H(s) = \frac{C_2C_4R_1R_2R_4s^2 + R_1 + s\left(C_2R_1R_2 + C_4R_1R_4\right)}{s^3\left(C_2C_4C_6R_1R_4R_5 - C_2C_4C_6R_2R_3R_4 + C_2C_4C_6R_2R_3R_5 + C_2C_4C_6R_2R_4R_5 + C_2C_4C_6R_3R_4 + C_2C_4C_6R_3R_4 + C_4C_6R_3R_5 + C_4C_6R_3R_4 + C_4C_6R_3R_5 + C_4C_6R_5R_5 + C_4C_6R_5R
10.336 X-INVALID-ORDER-336 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                            H(s) = \frac{C_2C_4C_6R_1R_2R_4R_6s^3 + R_1 + s^2\left(C_2C_4R_1R_2R_4 + C_2C_6R_1R_2R_6 + C_4C_6R_1R_4R_6\right) + s\left(C_2R_1R_2 + C_4R_1R_4 + C_6R_1R_6\right)}{s^3\left(C_2C_4C_6R_1R_4R_5 - C_2C_4C_6R_2R_3R_4 + C_2C_4C_6R_2R_3R_5 + C_2C_4C_6R_2R_3R_5 + C_2C_6R_2R_3 + C_2C_6R_2R_3 + C_2C_6R_2R_3 + C_2C_6R_3R_5 + C_4C_6R_3R_4 + C_4C_6R_3R_5 + C_4C_6R_5R_5 + C_4C_6R_5R_5
10.337 X-INVALID-ORDER-337 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_4R_1R_2R_4R_6s^2 + R_1R_6 + s\left(C_2R_1R_2R_6 + C_4R_1R_4R_6\right)}{-R_3 + R_5 + s^3\left(C_2C_4C_6R_1R_4R_5R_6 - C_2C_4C_6R_2R_3R_4R_6 + C_2C_4C_6R_2R_3R_4R_6 + C_2C_4C_6R_2R_3R_4R_5 + C_2C_4R_2R_3R_4 + C_2C_4R_2R_3R_5 + C_2C_4R_2R_3R_5 + C_2C_4R_3R_4R_5 + C_2C_4R_3R_5 + C_2C_4R_5R_5 + C_2C_4R_5R_5 + C_2C_4R_5R_5 + C_2C_4R_5R_5 + C_2C_4R_5R_5 + 
10.338 X-INVALID-ORDER-338 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                              H(s) = \frac{C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_1R_6s + s^2\left(C_2C_5R_1R_2R_6 + C_4C_5R_1R_4R_6\right)}{-C_2C_4C_5R_2R_3R_4s^3 + s^2\left(C_2C_4R_1R_4 + C_2C_4R_2R_3 + C_2C_4R_2R_4 + C_2C_4R_3R_4 - C_2C_5R_2R_3 - C_4C_5R_3R_4\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_4R_3 + C_4R_4 - C_5R_3\right) + 1}
10.339 X-INVALID-ORDER-339 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                     H(s) = \frac{C_2C_4C_5R_1R_2R_4s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_4C_5R_1R_4\right)}{-C_2C_4C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_2C_4C_6R_1R_4 + C_2C_4C_6R_2R_3 + C_2C_4C_6R_3R_4 - C_2C_5C_6R_2R_3 - C_4C_5C_6R_3R_4\right) + s\left(C_2C_6R_1 + C_2C_6R_3 + C_4C_6R_3 + C_4C_6R_3 + C_4C_6R_4 - C_5C_6R_3\right)}
10.340 X-INVALID-ORDER-340 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                     H(s) = \frac{C_2C_4C_5C_6R_1R_2R_4R_6s^3 + C_5R_1 + s^2\left(C_2C_4C_5R_1R_2R_4 + C_2C_5C_6R_1R_2R_6 + C_4C_5C_6R_1R_4R_6\right) + s\left(C_2C_5R_1R_2 + C_4C_5R_1R_4 + C_5C_6R_1R_6\right)}{-C_2C_4C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_2C_4C_6R_1R_4 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_3R_4 - C_2C_5C_6R_2R_3 - C_4C_5C_6R_3R_4\right) + s\left(C_2C_6R_1 + C_2C_6R_2 + C_2C_6R_3 + C_4C_6R_3 + C_4C_6R_4 - C_5C_6R_3\right)}
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10.341 X-INVALID-ORDER-341 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_1R_6s + s^2\left(C_2C_5R_1R_2R_6 + C_4C_5R_1R_4R_6\right)}{-C_2C_4C_5C_6R_2R_3R_4R_6s^4 + s^3\left(-C_2C_4C_5R_2R_3R_4 + C_2C_4C_6R_2R_3R_6 + C_2C_4C_6R_2R_4R_6 + C_2C_4C_6R_2R_3R_6 + C_2C_4C_6R_2R_4R_6 + C_2C_4C_6R_2R_4R_6 + C_2C_4C_6R_2R_4R_6 + C_2C_4C_6R_2R_4R_6 + C_2C_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_1R_6s + s^2(C_2C_5R_1R_2R_6 + C_4C_5R_1R_4R_6)
10.342 X-INVALID-ORDER-342 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_1R_6s + s^2\left(C_2C_5R_1R_2R_6 + C_4C_5R_1R_4R_6\right)}{s^3\left(C_2C_4C_5R_1R_4R_5 - C_2C_4C_5R_2R_3R_4 + C_2C_4C_5R_2R_3R_5 + C_2C_4C_5R_2R_4R_5\right) + s^2\left(C_2C_4R_1R_4 + C_2C_4R_2R_4 + C_2C_4R_3R_4 + C_2C_5R_1R_5 - C_2C_5R_2R_5 + C_2C_5R_3R_5 - C_4C_5R_3R_4 + C_4C_5R_3R_5 + C_4C_5R_5R_5 + C_4C_5R_5R_5
10.343 X-INVALID-ORDER-343 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_4C_5R_1R_2R_4s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_4C_5R_1R_4\right)}{C_6 + s^3\left(C_2C_4C_5C_6R_2R_3R_4 + C_2C_4C_5C_6R_2R_3R_5 + C_2C_4C_5C_6R_2R_4R_5 + C_2C_4C_5C_6R_2R_4R_5 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_4R_4 + C_2C_4C
10.344 X-INVALID-ORDER-344 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_4C_5C_6R_1R_2R_4R_6s^3 + C_5R_1 + s^2\left(C_2C_4C_5R_1R_2R_4 + C_2C_5C_6R_1R_2R_6 + C_4C_5C_6R_1R_4R_6\right) + s\left(C_2C_5R_1R_2 + C_4C_5R_1R_4 + C_5C_6R_1R_4\right) + s\left(C_2C_5R_1R_4 + C_5C_6R_1R_4 + C_5C_6R_1R_4\right) + s\left(C_2C_5R_1R_4 + C_2C_4C_5C_6R_2R_4\right) + s\left(C_2C_4C_5R_1R_4 + C_2C_4C_5R_4R_4\right) + s\left(C_2C_4C_5R_1R_4 + C_2C_4C_5R_4R_4\right) + s\left(C_2C_4R_4R_5 + C_2C_4C_5R_4R_4\right) + s\left(C_2C_4R_4R_5 + C_2C_4C_5R_4R_4\right) + s\left(C_2C_4R_4R_4 + C_2C_4C_5R_4R_4\right
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10.345 X-INVALID-ORDER-345 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{s^4 \left(C_2 C_4 C_5 C_6 R_1 R_4 R_5 R_6 - C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_6 + C_2 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_2 C_4 C_5 R_2 R_4 R_5 + C_2 C_4 C_5 R_5 R_5 + C$

10.346 X-INVALID-ORDER-346 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_4C_5R_1R_2R_4R_5R_6s^3 + R_1R_6 + s^2\left(C_2C_4R_1R_2R_4R_6 + C_2C_5R_1R_2R_5R_6 + C_4C_5R_1R_4R_5R_6\right) + s\left(C_2R_1R_2R_6 + C_4R_1R_4R_6 + C_5R_1R_5R_6\right)}{-C_2C_4C_5R_2R_3R_4R_5s^3 - R_3 + R_5 + s^2\left(C_2C_4R_1R_4R_5 - C_2C_4R_2R_3R_4 + C_2C_4R_2R_4R_5 + C_2C_4R_3R_4R_5 - C_2C_5R_2R_3R_5 - C_4C_5R_3R_4R_5\right) + s\left(C_2R_1R_5R_6 + C_4R_1R_4R_6 + C_5R_1R_5R_6\right)}$

10.347 X-INVALID-ORDER-347 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_4C_5R_1R_2R_4R_5s^3 + R_1 + s^2\left(C_2C_4R_1R_2R_4 + C_2C_5R_1R_2R_5 + C_4C_5R_1R_4R_5\right) + s\left(C_2R_1R_2 + C_4R_1R_4 + C_5R_1R_5\right)}{-C_2C_4C_5C_6R_2R_3R_4R_5s^4 + s^3\left(C_2C_4C_6R_1R_4R_5 - C_2C_4C_6R_2R_3R_4 + C_2C_4C_6R_3R_4 + C_2C_4C_6R_3R_$

10.348 X-INVALID-ORDER-348 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_4C_5C_6R_1R_2R_4R_5R_6s^4 + R_1 + s^3\left(C_2C_4C_5R_1R_2R_4R_5 + C_2C_4C_6R_1R_2R_4R_6 + C_2C_5C_6R_1R_2R_5R_6 + C_4C_5C_6R_1R_4R_5R_6\right) + s^2\left(C_2C_4R_1R_2R_4 + C_2C_5R_1R_2R_5 + C_2C_6R_1R_2R_6 + C_4C_5R_1R_4R_5 + C_4C_6R_1R_4R_6 + C_5C_6R_1R_5R_6\right) + s\left(C_2R_1R_2R_5 + C_2C_6R_1R_2R_5 + C_2C_6R_1R_2R_$

10.349 X-INVALID-ORDER-349 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_4C_5R_1R_2R_4R_5R_6s^3 + R_1R_6s^3}{-C_2C_4C_5C_6R_2R_3R_4R_5R_6s^4 - R_3 + R_5 + s^3\left(-C_2C_4C_5R_2R_3R_4R_5 + C_2C_4C_6R_2R_3R_4R_6 + C_2C_4C_6R_2R_3R_4R_5R_6 + C_2C_4C_6R_2R_4R_5R_6 + C_2C_4C_6R_4R_4R_5R_6 + C_2C_4C_6R_4R_4R_5R_6 + C_2C_4C_6R_4R_4R_5R_6 + C_2C_4C_6R_4R_4R_5R_6 + C_2C_4C_6R_4R_4R_5R_6 + C_2C_4C_6R_4R_4R_5R_6$

10.350 X-INVALID-ORDER-350 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $\frac{C_2R_1R_2R_4s + R_1R_4}{C_2C_4C_6R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5 + C_4C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$

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10.351 X-INVALID-ORDER-351 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                        H(s) = \frac{C_2C_6R_1R_2R_4R_6s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_6R_1R_4R_6\right)}{C_2C_4C_6R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5 + C_4C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.352 X-INVALID-ORDER-352 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
10.353 X-INVALID-ORDER-353 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{R_3 + R_4 + s^3\left(C_2C_4C_6R_2R_3R_4R_6 - C_2C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_2C_4R_2R_3R_4 - C_2C_5R_2R_3R_4 + C_2C_6R_1R_4R_6 + C_2C_6R_2R_3R_4 + C_2C_6R_3R_4R_6 + C_2C_6R_3R_4R_6\right) + s\left(C_2R_1R_4 + C_2R_2R_3 + C_2R_3R_4 +
10.354 X-INVALID-ORDER-354 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                           \frac{C_{2}C_{5}R_{1}R_{2}R_{4}R_{6}s^{2}+C_{5}R_{1}R_{4}R_{6}s}{C_{2}C_{4}C_{5}R_{2}R_{3}R_{4}R_{5}s^{3}+R_{3}+R_{4}+s^{2}\left(C_{2}C_{4}R_{2}R_{3}R_{4}+C_{2}C_{5}R_{2}R_{3}R_{4}+C_{2}C_{5}R_{2}R_{3}R_{5}+C_{2}C_{5}R_{2}R_{3}R_{5}+C_{2}C_{5}R_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C_{2}R_{3}R_{4}+C
10.355 X-INVALID-ORDER-355 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_5R_1R_2R_4s + C_5R_1R_4}{C_2C_4C_5C_6R_2R_3R_4R_5s^3 + C_6R_3 + C_6R_4 + s^2\left(C_2C_4C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_5 + C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R_4 +
10.356 X-INVALID-ORDER-356 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_5C_6R_1R_4R_6\right)}{C_2C_4C_5C_6R_2R_3R_4R_5s^3 + C_6R_3 + C_6R_4 + s^2\left(C_2C_4C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R_4R_5 + C_2C_5C_6R_2R_4 
10.357 X-INVALID-ORDER-357 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_2C_4C_5C_6R_2R_3R_4R_5R_6s^4 + R_3 + R_4 + s^3\left(C_2C_4C_5R_2R_3R_4R_5 + C_2C_4C_6R_2R_3R_4R_6 + C_2C_5C_6R_2R_3R_4R_6 + C_2C_5C_6R_2R_3R_4R_5R_6 + C_2C_5C_6R_2R_3R_4R_5R_6 + C_2C_5C_6R_3R_4R_5R_6 + C_2C_5C_6R_3R_4R_5R_5 + C_2C_5C_6R_3R_4R_5R_5 + C_2C_5C_6R_5R_5R_5R_5 + C_2C_5C_6R_5R_5R_5R_5 + C_2C_5C_6R_5R_5R_5R_5 + C_2C_5C_6R_5R_5R_5R_5 + C_2C_5C_6R_5R_5R_5 + C_2C_
10.358 X-INVALID-ORDER-358 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                          H(s) = \frac{C_2C_5R_1R_2R_4R_5s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5\right)}{s^3\left(C_2C_4C_6R_2R_3R_4R_5 - C_2C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5 + C_4C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.359 X-INVALID-ORDER-359 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                         H(s) = \frac{C_2C_5C_6R_1R_2R_4R_5R_6s^3 + R_1R_4 + s^2\left(C_2C_5R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_6 + C_5C_6R_1R_4R_5R_6\right) + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{s^3\left(C_2C_4C_6R_2R_3R_4R_5 - C_2C_5C_6R_2R_3R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5 + C_4C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}
10.360 X-INVALID-ORDER-360 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $C_2C_5R_1R_2R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_5R_1R_4R_5R_6\right)$

10.361 X-INVALID-ORDER-361 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 - C_2C_6R_2R_4R_6 + C_2C_6R_2R_5R_6 + C_2C_6R_4R_5R_6\right) + s\left(-C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5 + C_3R_4R_5 - C_6R_4R_6 + C_6R_5R_6\right)}$ **10.362** X-INVALID-ORDER-362 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_4 - C_2C_5R_2R_4\right) + s\left(C_2R_2 + C_2R_4 + C_3R_4 - C_5R_4\right) + 1}$ **10.363** X-INVALID-ORDER-363 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 - C_2C_5C_6R_2R_4\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4\right)}$ **10.364** X-INVALID-ORDER-364 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_6R_1R_4R_6 + C_2C_3C_6R_2R_4R_6 - C_2C_5C_6R_2R_4R_6\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_4 - C_2C_5R_2R_4 + C_2C_6R_2R_6 + C_2C_6R_4R_6 + C_3C_6R_4R_6\right) + s\left(C_2R_2 + C_2R_4 + C_3R_4 - C_5R_4 + C_6R_6\right) + 1}$ **10.365** X-INVALID-ORDER-365 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_4 - C_2C_5R_2R_4 + C_2C_5R_2R_5 + C_2C_5R_4R_5 + C_3C_5R_4R_5\right) + s\left(C_2R_2 + C_2R_4 + C_3R_4 - C_5R_4 + C_5R_5\right) + 1}$ **10.366** X-INVALID-ORDER-366 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_4s}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_2R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + C_2C_5C_6R_2R_4 + C_2C_5C_6R_2R_5 + C_2C_5C_6R_4R_5\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 + C_5C_6R_4 + C_5C_6R_5\right)}$ 10.367 X-INVALID-ORDER-367 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_2R_4 + C_2C_5C_6R_2R_4 + C_2C_5C_6R_2R_4 + C_2C_5C_6R_4R_5 + C_2C_5C_6R_4R_5\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 + C_5C_6R_4\right)}$

10.368 X-INVALID-ORDER-368 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^4\left(C_2C_3C_5C_6R_1R_4R_5R_6 + C_2C_3C_5C_6R_2R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_2R_4R_5 + C_2C_3C_6R_2R_4R_6 + C_2C_5C_6R_2R_4R_6 + C_2C_5C_6R_2R_4R_6 + C_2C_5C_6R_4R_5R_6 + C_2C_5C_6R_4R_5R_5 + C_2C_5C_6R_4R_5R_5 + C_2C_5C_6R_5R_5R_5 + C_2C_5C_6R_5R_5R_5 + C_2C_5C_5R_5R_5R_5 + C_2C_5C_5R_5R_5R_5 + C_2C_5C_5R_5R_5R_5 + C_2C_5C_5R_5R_5R_5 + C_2C_5C_5R_5R_5R_5 + C_2C_5C_5R_5R_5R_5 +$

10.369 X-INVALID-ORDER-369 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_4R_6s + s^2\left(C_2C_3R_1R_2R_4R_6 + C_3C_5R_1R_4R_5R_6\right)}{-R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 - C_2C_5R_2R_4R_5\right) + s\left(-C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5 + C_3R_4R_5 - C_5R_4R_5\right)}$$

 $\textbf{10.370} \quad \textbf{X-INVALID-ORDER-370} \ Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ R_4, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6 + \frac{1}{C_6 s} \right)$ $H(s) = \frac{C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 s^3 + C_3 R_1 R_4 + s^2 \left(C_2 C_3 C_5 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_3 C_5 C_6 R_1 R_4 R_5 R_6 \right) + s \left(C_2 C_3 R_1 R_2 R_4 + C_3 C_5 R_1 R_4 R_5 + C_3 C_6 R_1 R_4 R_6 \right) }{-C_6 R_4 + C_6 R_5 + s^2 \left(C_2 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_2 R_4 R_5 - C_2 C_5 C_6 R_2 R_4 R_5 \right) + s \left(-C_2 C_6 R_2 R_4 + C_2 C_6 R_2 R_5 + C_2 C_6 R_4 R_5 + C_3 C_6 R_4 R_5 \right) }$

10.371 X-INVALID-ORDER-371 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_4R_6s + s^2\left(C_2C_3R_1R_2R_4R_6 + C_3C_5R_1R_4R_5R_6\right)}{-R_4 + R_5 + s^3\left(C_2C_3C_6R_1R_4R_5R_6 + C_2C_5C_6R_2R_4R_5R_6 + C_2C_5R_2R_4R_5 - C_2C_5R_2R_4R_5 - C_2C_5R_2R_4R_5 - C_2C_6R_2R_4R_5R_6 + C_2C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 +$

10.372 X-INVALID-ORDER-372 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_6s^2 + C_3R_1R_6s}{s^3\left(C_2C_3C_6R_1R_5R_6 + C_2C_3C_6R_2R_5R_6 + C_2C_4C_6R_2R_5R_6\right) + s^2\left(C_2C_3R_1R_5 + C_2C_3R_2R_5 + C_2C_4R_2R_5 - C_2C_6R_2R_6 + C_2C_6R_5R_6 + C_4C_6R_5R_6\right) + s\left(-C_2R_2 + C_2R_5 + C_3R_5 + C_4R_5 - C_6R_6\right) - 1}$

10.373 X-INVALID-ORDER-373 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_2 - C_2C_5R_2\right)}$$

10.374 X-INVALID-ORDER-374 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_4C_6R_2 - C_2C_5C_6R_2\right)}$$

10.375 X-INVALID-ORDER-375 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_5C_6R_1R_6\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_4C_6R_2 - C_2C_5C_6R_2\right)}$$

10.376 X-INVALID-ORDER-376 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s$$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 + C_5 + s^3\left(C_2C_3C_5C_6R_1R_5R_6 + C_2C_3C_5C_6R_2R_5R_6 + C_2C_3C_5R_2R_5 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_4 + C_2C_3C_6R_$

10.377 X-INVALID-ORDER-377 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_5R_1R_5R_6\right)}{s^2\left(C_2C_3R_1R_5 + C_2C_3R_2R_5 + C_2C_4R_2R_5 - C_2C_5R_2R_5\right) + s\left(-C_2R_2 + C_2R_5 + C_3R_5 + C_4R_5 - C_5R_5\right) - 1}$$

10.378 X-INVALID-ORDER-378 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5C_6R_1R_2R_5R_6s^3 + C_3R_1 + s^2\left(C_2C_3C_5R_1R_2R_5 + C_2C_3C_6R_1R_2R_6 + C_3C_5C_6R_1R_5R_6\right) + s\left(C_2C_3R_1R_2 + C_3C_5R_1R_5 + C_3C_6R_1R_6\right)}{-C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_4C_6R_2R_5 - C_2C_5C_6R_2R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}$$

10.379 X-INVALID-ORDER-379 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_5R_1R_5R_6\right)$$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_5R_1R_5R_6\right)}{s^3\left(C_2C_3C_6R_1R_5R_6 + C_2C_3C_6R_2R_5R_6 + C_2C_4C_6R_2R_5R_6 - C_2C_5C_6R_2R_5R_6\right) + s^2\left(C_2C_3R_1R_5 + C_2C_4R_2R_5 - C_2C_5R_2R_5 - C_2C_6R_2R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6\right) + s\left(-C_2R_2 + C_2R_5 + C_3R_5 + C_3R_5 + C_3R_5 + C_3R_5R_6\right) + s\left(-C_2R_3 + C_3R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6\right) + s\left(-C_2R_3 + C_3R_5R_6\right) + s\left(-C_3R_5R_6\right) + s\left(-C_3$

10.380 X-INVALID-ORDER-380 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_4R_1R_4R_6\right)}{s^3\left(C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_2R_4R_5\right) + s^2\left(C_2C_3R_1R_5 + C_2C_3R_2R_5 - C_2C_4R_2R_4 + C_2C_4R_2R_5 + C_2C_4R_4R_5\right) + s\left(-C_2R_2 + C_2R_5 + C_3R_5 - C_4R_4 + C_4R_5\right) - 1}$$

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10.381 X-INVALID-ORDER-381 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                              H(s) = \frac{C_2C_3C_4R_1R_2R_4s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_4R_1R_4\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_2R_5 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_2R_5 + C_2C_4C_6R_4R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 + C_3C_6R_5 - C_4C_6R_4 + C_4C_6R_5\right)}
10.382 X-INVALID-ORDER-382 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                              H(s) = \frac{C_2C_3C_4C_6R_1R_2R_4R_6s^3 + C_3R_1 + s^2\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_6R_1R_2R_6 + C_3C_4C_6R_1R_4R_6\right) + s\left(C_2C_3R_1R_2 + C_3C_4R_1R_4 + C_3C_6R_1R_6\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_2R_5 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_2R_5 + C_2C_4C_6R_4R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 + C_3C_6R_5 - C_4C_6R_4 + C_4C_6R_5\right)}
10.383 X-INVALID-ORDER-383 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_4R_1R_4R_6\right)
H(s) = \frac{C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_4R_1R_4R_6\right)}{s^4\left(C_2C_3C_4C_6R_1R_4R_5R_6 + C_2C_3C_4C_6R_2R_4R_5 + C_2C_3C_4R_1R_4R_5 + C_2C_3C
10.384 X-INVALID-ORDER-384 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                             H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_6s + s^2\left(C_2C_3C_5R_1R_2R_6 + C_3C_4C_5R_1R_4R_6\right)}{C_2 + C_3 + C_4 - C_5 + s^2\left(C_2C_3C_4R_1R_4 + C_2C_3C_4R_2R_4 - C_2C_4C_5R_2R_4\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_4 + C_2C_5R_2 + C_3C_4R_4 - C_4C_5R_4\right)}
10.385 X-INVALID-ORDER-385 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                         H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1 + s^2\left(C_2C_3C_4C_5R_1R_2R_4 + C_2C_3C_5C_6R_1R_2R_6 + C_3C_4C_5R_1R_4R_6\right) + s\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_4 + C_3C_5C_6R_1R_6\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_2R_4 - C_2C_4C_5R_2R_4\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_4C_6R_2 + C_2C_4C_6R_4 - C_2C_5C_6R_4 + C_3C_4C_5R_4\right)}
10.386 X-INVALID-ORDER-386 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s + s^2\left(C_2C_3C_5R_1R_2R_6 + C_3C_4C_5R_1R_4R_6\right)}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_2C_3C_4C_6R_1R_4R_6 + C_2C_3C_6R_2R_4R_6\right) + s^2\left(C_2C_3C_4R_1R_4 + C_2C_3C_6R_1R_6 + C_2C_4C_5R_2R_6 + C_2C_4C_6R_2R_6 + C_2C_4C_6R_4R_6\right) + s^2\left(C_2C_3C_4R_1R_4 + C_2C_3C_6R_1R_6 + C_2C_4C_6R_2R_6 + C_2C_4C_6R_4R_6 - C_2C_5C_6R_2R_6 + C_3C_4C_6R_4R_6 - C_2C_5C_6R_2R_6 + C_3C_4C_6R_4R_6 - C_2C_5C_6R_2R_6 + C_3C_4C_6R_4R_6 - C_2C_5C_6R_2R_6 + C_3C_4C_6R_4R_6 - C_2C_5C_6R_2R_6 + C_3C_4C_5R_4R_6 - C_2C_5C_6R_4R_6 - C_2C_5C_6R_5R_5 - C_2C_5C_5C_6R_
10.387 X-INVALID-ORDER-387 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_6s + s^2\left(C_2C_3C_5R_1R_2R_6 + C_3C_4C_5R_1R_4R_6\right)}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_2C_3C_4C_5R_1R_4R_5 + C_2C_3C_4C_5R_2R_4 + C_2C_3C_5R_1R_5 + C_2C_3C_5R_2R_5 - C_2C_4C_5R_2R_4 + C_2C_4C_5R_2R_4 + C_2C_4C_5R_4R_5\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_4 + C_2C_3C_5R_1R_5 + C_2C_4C_5R_2R_4 + C_2C_4C_5R_4R_5 + C_2C_4C_5R_4R_5\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_4 + C_2C_3C_5R_1R_5 + C_2C_4C_5R_2R_4 + C_2C_4C_5R_4R_5\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_4 + C_2C_3C_5R_1R_5 + C_2C_4C_5R_4R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_4C_5R_4R_5\right) + s\left(C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_4C_5R_4R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_2C_3C_4R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_2C_3C_4R_4R_5 + C_2C_3C_4R_5R_5\right) + s\left(C_2C_3C_4R_4R_5 + C_2C_3C_4R_5R_5\right) + s\left(C_2C_3C_4R_5R_5 + C_2C_4C_5R_4R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_4R_5R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_4R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_4R_5R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_4R_5R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_4R_5R_5\right) + s\left(C_2C_3R_4R_5 + C_2C_4R_5R_5\right) + s\left(C_2C_3R_5R_5 + C_2C_4C_5R_5R_5\right) + s\left(C_2C_3R_5R_5 + C_2C_4C_5R_5\right) + s\left(C_2C_3R_5R_5 
10.388 X-INVALID-ORDER-388 Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_4\right)}{C_2C_6 + C_3C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3\left(C_2C_3C_4C_5C_6R_2R_4 + C_2C_3C_4C_5C_6R_2R_4 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5R_1R_4 + C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5R_1R_4 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5R_4R_5 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_5C_6R_4R_5\right) +$

10.389 X-INVALID-ORDER-389 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1 + s^2\left(C_2C_3C_4C_5R_1R_2R_4 + C_2C_3C_5C_6R_1R_2R_6 + C_3C_4C_5C_6R_1R_4R_6\right) + s\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_4 + C_3C_4C_5R_1R_4 + C_3C_4C_5C_6R_1R_4R_6\right) + s\left(C_2C_3C_4C_5R_1R_4R_5 + C_2C_3C_5C_6R_1R_4 + C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_3C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5R_1R_4 + C_2C_3C_5C_6R_1R_4 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_3C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5R_1R_4 + C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_1R_4 + C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_3C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_2R_4 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5 + C_2C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5\right) + s\left(C_2C_3C_4C_5C_6R_4R_5$

10.390 X-INVALID-ORDER-390 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_2 + C_3 + C_4 - C_5 + s^4 \left(C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_4 C_5 R_2 R_4 R_5 + C_2 C_3 C_4 C_5 R_2 R_4 R_5 + C_2 C_3 C_4 C_6 R_2 R_4 R_5 + C_2 C_3 C_4 C_6 R_2 R_4 R_6 + C_2 C_3 C_5 C_6 R_2 R_4 R_6 + C_2 C_5 C_6 R_2 R_4 R_6 + C_2$

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10.391 X-INVALID-ORDER-391 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                      H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_5R_6s^4 + C_3R_1R_6s + s^3\left(C_2C_3C_4R_1R_2R_4R_6 + C_2C_3C_5R_1R_2R_5R_6 + C_3C_4C_5R_1R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_2R_6 + C_3C_4R_1R_4R_6 + C_3C_5R_1R_5R_6\right)}{s^3\left(C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_2R_4R_5 - C_2C_4R_2R_4 + C_2C_4R_2R_5 + C_2C_4R_4R_5 - C_2C_5R_2R_5 + C_3C_4R_4R_5\right) + s\left(-C_2R_2 + C_2R_5 + C_3R_5 - C_4R_4 + C_4R_5 - C_5R_5\right) - 1}
10.392 X-INVALID-ORDER-392 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_5s^3 + C_3R_1 + s^2\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_5R_1R_2R_5 + C_3C_4C_5R_1R_4R_5\right) + s\left(C_2C_3R_1R_2 + C_3C_4R_1R_4 + C_3C_5R_1R_5\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_2R_4R_5 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_2R_5 + C_2C_
10.393 X-INVALID-ORDER-393 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_1 + s^3\left(C_2C_3C_4C_5R_1R_2R_4R_5 + C_2C_3C_4C_6R_1R_2R_4R_6 + C_2C_3C_5C_6R_1R_2R_5R_6 + C_3C_4C_5R_1R_4R_5R_6\right) + s^2\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_5R_1R_2R_5 + C_2C_3C_6R_1R_2R_6 + C_3C_4C_5R_1R_4R_5 + C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_4R_5 + C_3C_4C_6R_4R
10.394 X-INVALID-ORDER-394 Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_5R_6s^4 + C_3R_1R_6s + s^3\left(C_2C_3C_4R_1R_2R_4R_5R_6s^4 + C_3R_1R_6s + s^3\left(C_2C_3C_4R_1R_2R_4R_5R_6s^4 + C_3R_4R_5R_6s^4 
10.395 X-INVALID-ORDER-395 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6 + C_2C_4C_6R_2R_4R_5R_6 + C_2C_4R_2R_4R_5 + C_2C_4R_2R_4R_5 + C_2C_4R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_4R_5R_6 
10.396 X-INVALID-ORDER-396 Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{1}{C_5 s}, \ R_6\right)
                                                                                                                                                                                                                                                                                                                         H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_4 + C_2C_4R_2R_4 - C_2C_5R_2R_4\right) + s\left(C_2R_2 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4\right) + 1}
10.397 X-INVALID-ORDER-397 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                 H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + C_2C_4C_6R_2R_4 - C_2C_5C_6R_2R_4\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4\right)}
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10.398 X-INVALID-ORDER-398 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_6R_2R_4R_6 + C_2C_3C_6R_2R_4R_6 - C_2C_5C_6R_2R_4R_6\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_4 + C_2C_4R_2R_4 - C_2C_5R_2R_4 + C_2C_6R_4R_6 + C_3C_6R_4R_6 + C_4C_6R_4R_6 - C_5C_6R_4R_6\right) + s\left(C_2R_2 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4 - C_5R_4 + C_4R_4 - C_5R_4 - C_5R$

10.399 X-INVALID-ORDER-399 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_2R_4R_5 + c_2C_4C_5R_2R_4R_5\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_4 + C_2C_5R_2R_4 + C_2C_5R_2R_5 + C_2C_5R_4R_5 + C_4C_5R_4R_5\right) + s\left(C_2R_2 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4 + C_5R_5\right) + 1}$

10.400 X-INVALID-ORDER-400 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_4s}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_2R_4R_5 + C_2C_4C_5C_6R_2R_4 + C_2C_3C_6R_2R_4 + C_2C_5C_6R_2R_4 + C_2C_5C_6R_2R_5 + C_2C_5C_6R_4R_5 + C_3C_5C_6R_4R_5 + C_4C_5C_6R_4R_5 + s(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 + C_4C_6R_4 - C_4C_6R_4 + C_4C_6$

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10.401 X-INVALID-ORDER-401 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_2R_4 + C_2C_4C_5C_6R_2R_4 + C_2C_3C_6R_2R_4 + C_2C_5C_6R_2R_4 + C_2C_5C_6R_2R_5 + C_2C_5C_6R_4R_5 + C_3C_5C_6R_4R_5 + C_3C_5C_6R
10.402 X-INVALID-ORDER-402 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_{1}}{s^{4} \left(C_{2} C_{3} C_{5} C_{6} R_{1} R_{4} R_{5} R_{6} + C_{2} C_{3} C_{5} C_{6} R_{2} R_{4} R_{5} R_{6} + C_{2} C_{3} C_{5} R_{1} R_{4} R_{5} + C_{2} C_{3} C_{5} R_{2} R_{4} R_{5} + C_{2} C_{3} C_{5} R_
10.403 X-INVALID-ORDER-403 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                                                     H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_4R_6s + s^2\left(C_2C_3R_1R_2R_4R_6 + C_3C_5R_1R_4R_5R_6\right)}{-R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 + C_2C_4R_2R_4R_5 - C_2C_5R_2R_4R_5\right) + s\left(-C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5 + C_3R_4R_5 + C_4R_4R_5 - C_5R_4R_5\right)}
10.404 X-INVALID-ORDER-404 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                        H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_4R_5R_6\right) + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_5C_6R_2R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.405 X-INVALID-ORDER-405 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_4R_6s + s^2\left(C_2C_3R_1R_2R_4R_6 + C_3C_5R_1R_4R_5R_6\right)}{-R_4 + R_5 + s^3\left(C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6 - C_2C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_4R_5 + C_2C_4R_2R_4R_5 - C_2C_5R_2R_4R_5 - C_2C_5R_2R_4R_5 - C_2C_6R_2R_4R_5R_6 + C_2C_6R_2R_4R_5R_6 + C_3C_6R_4R_5R_6 + C_
10.406 X-INVALID-ORDER-406 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_2C_3C_6R_1R_4R_5R_6 - C_2C_3C_6R_2R_3R_4R_6 + C_2C_3C_6R_2R_3R_5R_6 + C_2C_3C_6R_2R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6 + C_2C_3R_2R_3R_4 + C_2C_3R_2R_3R_5 + C_2C_3R_2R_3R_5 + C_2C_3R_2R_3R_4 + C_2C_3R_2R_3R_5 + C_2C_3R_2R_3R_4 + C_2C_3R_2R_3R_5 + C_2C_3R_3R_3R_5 + C_2C_3R_3R_5 + C_2C_3R
10.407 X-INVALID-ORDER-407 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                               H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{-C_2C_3C_5R_2R_3R_4s^3 + s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_3 + C_2C_3R_2R_4 + C_2C_3R_3R_4 - C_2C_5R_2R_4 - C_3C_5R_3R_4\right) + s\left(C_2R_2 + C_2R_4 + C_3R_3 + C_3R_4 - C_5R_4\right) + 1}
10.408 X-INVALID-ORDER-408 Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ R_4, \ \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)
                                                                                                                 H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_4s}{-C_2C_3C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_3 + C_2C_3C_6R_2R_4 + C_2C_3C_6R_3R_4 - C_2C_5C_6R_2R_4 - C_3C_5C_6R_3R_4\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 - C_5C_6R_4\right)}
10.409 X-INVALID-ORDER-409 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                 H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{-C_2C_3C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + C_2C_3C_6R_3R_4 - C_2C_5C_6R_2R_4 - C_3C_5C_6R_3R_4\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 - C_5C_6R_4\right)}
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10.410 X-INVALID-ORDER-410 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{-C_2C_3C_5R_2R_3R_4R_6s^4 + s^3\left(-C_2C_3C_5R_2R_3R_4 + C_2C_3C_6R_2R_3R_6 + C_2C_3C_6R_2R_4R_6 - C_2C_5C_6R_2R_4R_6 - C_3C_5C_6R_3R_4R_6\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_4 + C_2C_3R_3R_4 - C_2C_5R_2R_4 + C_2C_3R_3R_4 + C_2$

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10.411 X-INVALID-ORDER-411 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_5R_1R_4R_5 - C_2C_3C_5R_2R_3R_4 + C_2C_3C_5R_2R_3R_5 + C_2C_3C_5R_2R_4R_5 + C_2C_3C_5R_3R_4 + C_2C_3R_2R_4 + C_2C_3R_2R_4 + C_2C_3R_2R_4 + C_2C_5R_2R_5 + C_2C_5R_4R_5 - C_3C_5R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_4R_5 \right) + s\left(C_2R_2 + C_2R_4R_5 - C_3C_5R_2R_4 + C_2C_3R_3R_4 + C_2C_5R_2R_5 + C_2C_5R_4R_5 - C_3C_5R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_4R_5 \right) + s\left(C_2R_3 + C_3C_5R_3R_4 + C_2C_3R_3R_4 + C_2C_5R_2R_5 + C_2C_5R_4R_5 - C_3C_5R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_4R_5 \right) + s\left(C_2R_3 + C_3C_5R_3R_4 + C_2C_3R_3R_4 + C_2C_5R_2R_5 + C_2C_5R_4R_5 - C_3C_5R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_3R_4 + C_3C_5R_3R_5 + C_3C_5R_5R_5 + C_3C_5R_5
10.412 X-INVALID-ORDER-412 Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ R_4, \ R_5 + \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_4s}{C_6 + s^3\left(C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_5C_6R_2R_3R_5 + C_2C_3C_5C_6R_2R_4R_5 + C_2C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + C_2C_3C_6R_2R_4 + C_2C_5C_6R_2R_4 + C_2C_5C_6R_4R_4 + C_2C_5C_6R
10.413 X-INVALID-ORDER-413 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_4R_5 - C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_5C_6R_2R_4R_5 + C_2C_3C_5C_6R_2R_4R_5 + C_2C_3C_5C_6R_2R_4 + C_2C_3C_6R_2R_4 + C_2C_3C_6R_4 + C_2C_3C_6R_4 + C_2C_3C_6R_4 + C_2C_3C_6R_4 + C_2C_3C_6R_4 + C_2C_3C_6R_4 + C_2C_3C_5C_6R_4 + C_2C_3C_5C_6R_4 + C_2C_3C
10.414 X-INVALID-ORDER-414 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.415 X-INVALID-ORDER-415 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                             H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_4R_6s + s^2\left(C_2C_3R_1R_2R_4R_6 + C_3C_5R_1R_4R_5R_6\right)}{-C_2C_3C_5R_2R_3R_4R_5s^3 - R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 - C_2C_3R_2R_3R_4 + C_2C_3R_2R_3R_4 + C_2C_3R_2R_4R_5 + C_2C_3R_2R_4R_5 - C_2C_5R_2R_4R_5 - C_3C_5R_2R_4R_5\right) + s\left(-C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5 - C_3R_3R_4 + C_3R_3R_5 + C_3R_4R_5 - C_5R_4R_5\right)}
10.416 X-INVALID-ORDER-416 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5\right)}{-C_2C_3C_5C_6R_2R_3R_4R_5s^3 - C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 - C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5 - C_2C_5C_6R_2R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6
10.417 X-INVALID-ORDER-417 Z(s) = \left(R_1, R_2 + \frac{1}{C_{2s}}, R_3 + \frac{1}{C_{3s}}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_6R_1R_4R_6 + C_3C_5C_6R_1R_4R_5R_6\right) + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_2C_3C_5C_6R_2R_3R_4R_5s^3 - C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 - C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_4R_5 - C_2C_5C_6R_2R_4R_5 - C_2C_5C_6R_2R_4 + C_2C_6R_2R_4 + C_2C_6R_4R_4 + C_
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10.418 X-INVALID-ORDER-418 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5}{-C_2C_3C_5C_6R_2R_3R_4R_5R_6s^4 - R_4 + R_5 + s^3\left(-C_2C_3C_5R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_6 + C_2C_3C_6R_2R_3R_4R_5R_6 - C_2C_3C_6R_2R_4R_5R_6 - C_2C_3C_6R_4R_4R_5R_6 - C_2C_3C_6R_4R$

10.419 X-INVALID-ORDER-419 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_1R_2R_6s^2 + C_3R_1R_6s}{C_2C_3C_4R_2R_3R_5s^3 + s^2\left(C_2C_3R_1R_5 - C_2C_3R_2R_3 + C_2C_3R_2R_5 + C_2C_3R_3R_5 + C_2C_4R_2R_5 + C_3C_4R_3R_5\right) + s\left(-C_2R_2 + C_2R_5 - C_3R_3 + C_3R_5 + C_4R_5\right) - 1}$$

10.420 X-INVALID-ORDER-420 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3R_1R_2s + C_3R_1}{C_2C_3C_4C_6R_2R_3R_5s^3 - C_6 + s^2\left(C_2C_3C_6R_1R_5 - C_2C_3C_6R_2R_3 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_3R_5 + C_2C_4C_6R_2R_5 + C_3C_4C_6R_3R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 + C_4C_6R_5\right)}$$

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10.421 X-INVALID-ORDER-421 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                      H(s) = \frac{C_2C_3C_6R_1R_2R_6s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_6R_1R_6\right)}{C_2C_3C_4C_6R_2R_3R_5s^3 - C_6 + s^2\left(C_2C_3C_6R_1R_5 - C_2C_3C_6R_2R_3 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_3R_5 + C_2C_4C_6R_2R_5 + C_3C_4C_6R_3R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 + C_4C_6R_5\right)}
10.422 X-INVALID-ORDER-422 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3R_1R_2R_6s^2 + C_3R_1R_6s}{C_2C_3C_4C_6R_2R_3R_5R_6s^4 + s^3\left(C_2C_3C_4R_2R_3R_5 + C_2C_3C_6R_2R_3R_6 + C_2C_3C_6R_2R_5R_6 + C_2C_4C_6R_2R_5R_6 + C_2C_4C_6R_2R_5R_6 + C_2C_3R_2R_3 + C_2C_3R_2R_3 + C_2C_3R_2R_5 + C_2C_3R_3R_5 + C_2C_4R_2R_5 + C_
10.423 X-INVALID-ORDER-423 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 + C_5 + s^3\left(C_2C_3C_4C_6R_2R_3R_6 - C_2C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_2C_3C_4R_2R_3 - C_2C_3C_5R_2R_3 + C_2C_3C_6R_1R_6 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_3C_4C_6R_3R_6 - C_3C_5C_6R_3R_6\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_3C_5C_6R_3R_6\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_3C_5C_6R_3R_6\right) + s\left(C_2C_3R_1 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_3R_6\right) + s\left(C_2C_3R_1 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6\right) + s\left(C_2C_3R_1 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6\right) + s\left(C_2C_3R_1 + C_2C_3C_6R_2R_6 + C_2C_3C_6R_2R_6\right) + s\left(C_2C_3R_1 + C_2C_3C_6R_2R_6\right) + s\left(C_2C_3R_3R_6\right) + s\left(C_2C_3R_3R
10.424 X-INVALID-ORDER-424 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2C_3C_4C_5R_2R_3R_5s^3 + C_2 + C_3 + C_4 + C_5 + s^2\left(C_2C_3C_4R_2R_3 + C_2C_3C_5R_2R_3 + C_2C_3C_5R_2R_5 + C_2C_3C_5R_3R_5 + C_2C_4C_5R_2R_5 + C_2C_3R_3 + C_2C_3R_3 + C_2C_4R_2 - C_2C_5R_2 + C_2C_5R_5 + C_3C_4R_3 - C_3C_5R_3 + C_2C_3C_5R_3R_5 + C_2C_3C_5R_3 +
10.425 X-INVALID-ORDER-425 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_1R_2s + C_3C_5R_1}{C_2C_3C_4C_5C_6R_2R_3R_5s^3 + C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_2R_3 + C_2C_3C_5C_6R_2R_3 + C_2C_3C_5C_6R_2R_5 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_3C_6R_3 + C_2C_4C_6R_2 + C_2C_3C_6R_3 + C_2C_4C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_3C_6R_3 + C_2C_4C_6R_3 + C_2C_3C_6R_3 
10.426 X-INVALID-ORDER-426 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
10.427 X-INVALID-ORDER-427 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_2C_3C_4C_5C_6R_2R_3R_5R_6s^4 + C_2 + C_3 + C_4 - C_5 + s^3\left(C_2C_3C_4C_5R_2R_3R_5 + C_2C_3C_5C_6R_1R_5R_6 - C_2C_3C_5C_6R_2R_3R_6 + C_2C_3C_5C_6R_2R_5R_6 + C_2C_3C_5C_6R_2R_5R_5R_6 + C_2C_3C_5C_6R_2R_5R_5R_5 + C_2C_3C_5C_6R_2R_5R_5 + C_2C_3C_5C_6R_2R_5R_5 + C_2C_3C_5C_5C_6R_2R_5R_5 + C_2C_3C_5C_5C_5R_5R_5R_5 + C_2C_3C_5C_5C_5R_5R_5R_5 + C_2C_5C_5C_5R_5R_5R_5 + C_2C_5C_5C_5R_5R_5R_5 + C_2C_5C_5C_5R_5R_5R_5 + C_2C_5C_5C_5R_5R_5R_5 + C_2C_5C_5C_5R_5R_5R_5 + C_2C_5C_
10.428 X-INVALID-ORDER-428 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                        H(s) = \frac{C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_5R_1R_5R_6\right)}{s^3\left(C_2C_3C_4R_2R_3R_5 - C_2C_3C_5R_2R_3R_5\right) + s^2\left(C_2C_3R_1R_5 - C_2C_3R_2R_3 + C_2C_3R_2R_5 + C_2C_3R_3R_5 + C_2C_4R_2R_5 - C_2C_5R_2R_5 + C_3C_5R_3R_5\right) + s\left(-C_2R_2 + C_2R_5 - C_3R_3 + C_3R_5 + C_4R_5 - C_5R_5\right) - 1}
10.429 X-INVALID-ORDER-429 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_5s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_5R_1R_5\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_2R_3R_5 - C_2C_3C_5C_6R_2R_3R_5\right) + s^2\left(C_2C_3C_6R_1R_5 - C_2C_3C_6R_2R_3 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_3R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}
10.430 X-INVALID-ORDER-430 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
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10.431 X-INVALID-ORDER-431 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2}{s^4\left(C_2C_3C_4C_6R_2R_3R_5R_6 - C_2C_3C_5C_6R_2R_3R_5R_6 - C_2C_3C_5R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_5R_3R_5 +$

10.432 X-INVALID-ORDER-432 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_4R_1R_4R_6\right)}{s^3\left(C_2C_3C_4R_1R_4R_5 - C_2C_3C_4R_2R_3R_4 + C_2C_3C_4R_2R_3R_5 + C_2C_3R_4R_3R_4 + C_2C_3R_2R_5 + C_2C_3R_2R_5 + C_2C_3R_2R_5 + C_2C_4R_2R_4 + C_2C_4R_2R_5 + C_2C_4R_2R_4 + C_3C_4R_3R_4 + C_3C_4R_3R_5 + C_3C_4R_3R_5 + C_3C_4R_3R_4 + C_3C_4R_3R_5 + C_3C_4R$

10.433 X-INVALID-ORDER-433 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $C_2C_3C_4R_1R_2R_4s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_4R_1R_4\right)$ $H(s) = \frac{C_2C_3C_4R_1R_2R_4s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_4R_1R_4\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_1R_4R_5 - C_2C_3C_4C_6R_2R_3R_4 + C_2C_3C_4C_6R_2R_3R_5 + C_2C_3C_4C_6R_2R_4R_5 + C_2C_3C_6R_2R_3 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_4R_4 + C_2C_4$

10.434 X-INVALID-ORDER-434 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_6R_1R_2R_4R_6s^3 + C_3R_1 + s^2\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_6R_1R_2R_6 + C_3C_4C_6R_1R_4R_6\right) + s\left(C_2C_3R_1R_2 + C_3C_4R_1R_4 + C_3C_6R_1R_6\right)}{-C_6 + s^3\left(C_2C_3C_4C_6R_1R_4R_5 - C_2C_3C_4C_6R_2R_3 + C_2C_3C_4C_6R_2R_3 + C_2C_3C_4C_6R_2R_3 + C_2C_3C_4C_6R_2R_3 + C_2C_3C_4C_6R_2R_3 + C_2C_3C_4C_6R_2R_4 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_4R_4 + C_2C_$

10.435 X-INVALID-ORDER-435 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.436 X-INVALID-ORDER-436 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6 + s^2\left(C_2C_3C_5R_1R_2R_6 + C_3C_4C_5R_1R_4R_6\right)}{-C_2C_3C_4C_5R_2R_3R_4s^3 + C_2 + C_3 + C_4 + C_5 + s^2\left(C_2C_3C_4R_1R_4 + C_2C_3C_4R_2R_4 + C_2C_3C_4R_3R_4 - C_2C_3C_5R_2R_3 - C_2C_4C_5R_2R_4 + C_3C_4C_5R_3R_4\right) + s\left(C_2C_3R_1 + C_2C_3R_2 + C_2C_4R_4 + C_2C_5R_2 + C_3C_4R_3 + C_2C_4R_4 - C_3C_4C_5R_3R_4\right) + s\left(C_2C_3R_1 + C_2C_3R_3 + C_2C_4R_4 + C_2C_5R_2 + C_3C_4R_3 + C_2C_4R_4 + C_2C_5R_4 + C_3C_4R_3 + C_2C_4R_4 + C_3C_4R_3 + C_2C_4R_4 + C_3C_4R_3 + C_2C_4R_4 + C_3C_4R_3 + C_3C_4$

10.437 X-INVALID-ORDER-437 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.438 X-INVALID-ORDER-438 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_4 + C_2C_3C_5C_6R_1R_2R_4 + C_2C_3C_5C_6R_1R_4R_6) + s\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_4 + C_3C_5C_6R_1R_6\right)}{-C_2C_3C_4C_5C_6R_2R_3R_4s^3 + C_2C_6C_6R_2R_3 + C_2C_3C_4C_6R_2R_4 + C_2C_3C_4C_6R_2R_4 + C_2C_3C_4C_6R_2R_4 - C_2C_3C_4C_5C_6R_2R_4 - C_3C_4C_5C_6R_3R_4\right) + s\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_1R_4 + C_2C_3C_4C_6R_2R_4 + C_2C_3C_4C_6R_2R_4 - C_2C_3C_4C_5C_6R_2R_4 - C_3C_4C_5C_6R_3R_4\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_3C_6R_3 + C_2C_4C_5C_6R_3R_4\right) + s\left(C_2C_3C_4C_5R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_5R_3R_4\right) + s\left(C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4\right) + s\left(C_2C_3C_4C_5R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4\right) + s\left(C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4\right) + s\left(C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4\right) + s\left(C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4\right) + s\left(C_2C_3C_4R_3R_4 + C_2C_3C_4C_6R_3R_4\right) + s\left(C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4\right) + s\left(C_2C_3C_4C_6R_3R_4\right) + s\left(C_2C_3C_4C_$

10.439 X-INVALID-ORDER-439 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-C_2C_3C_4C_5C_6R_2R_3R_4R_6s^4 + C_2 + C_3 + C_4 - C_5 + s^3\left(-C_2C_3C_4C_5R_2R_3R_4 + C_2C_3C_4C_6R_2R_3R_6 + C_2C_3C_4C_6R_2R_4R_6 + C_2C_3C_4C_6R_2R_3R_6 + C_2C_3C_4C_6R_2R_3R_4R_6 - C_2C_3C_4C_5C_6R_2R_3R_6 - C_2C_4C_5C_6R_2R_4R_6 - C_3C_4C_5C_6R_3R_4R_6 + C_2C_3C_4C_6R_2R_4R_6 + C_2C_3C_4C_6R_4R_4R_6 + C_2C_3C_4C_6R_4R_4R_6$

10.440 X-INVALID-ORDER-440 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_6s + s$

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10.441 X-INVALID-ORDER-441 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
10.442 X-INVALID-ORDER-442 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_2C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_2C_3C_4C_5C_6R_1R_4R_5 - C_2C_3C_4C_5C_6R_2R_3R_4 + C_2C_3C_4C_5C_6R_2R_3R_5 + C_2C_3C_4C_5C_6R_2R_4R_5 + C_2C_3C_4C_5C_6R_3R_4R_5) + s^2\left(C_2C_3C_4C_6R_2R_3 + C_2C_3C_4C_6R_2R_4 + C_2C_3C_4C_6R_4R_4 + C_2C_3C_4C_5C_6R_4R_4 
10.443 X-INVALID-ORDER-443 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.444 X-INVALID-ORDER-444 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
10.445 X-INVALID-ORDER-445 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_5s^3 + C_3R_1 + s^2\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_5R_1R_2R_4 + C_2C_3C_5R_1R_2R_4 + C_2C_3C_4C_6R_2R_3R_4 + C_2C_3C_
10.446 X-INVALID-ORDER-446 Z(s) = \left(R_1, R_2 + \frac{1}{C_{2s}}, R_3 + \frac{1}{C_{3s}}, R_4 + \frac{1}{C_{4s}}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_{6s}}\right)
H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_1 + s^3\left(C_2C_3C_4C_5R_1R_2R_4R_5 + C_2C_3C_4C_6R_1R_2R_4R_6 + C_2C_3C_5C_6R_1R_2R_5R_6 + C_3C_4C_5C_6R_1R_4R_5R_6\right) + s^2\left(C_2C_3C_4R_1R_2R_4R_5 + C_2C_3C_4C_6R_2R_3R_4R_5 - C_2C_3C_4C_6R_2R_3R_4R_5 - C_2C_3C_4C_6R_2R_4R_5 - C_2C_3C_4C_6R_4R_4R_5 - C_2C_3C_4C_6R_4R_4R_5 - C_2C_3C_4C_6R_4R_4R_5 - C_2C_3C_4C_6R_4R
10.447 X-INVALID-ORDER-447 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
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10.448 X-INVALID-ORDER-448 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{C_2C_3C_4R_2R_3R_4R_5s^3 - R_4 + R_5 + s^2\left(C_2C_3R_1R_4R_5 - C_2C_3R_2R_3R_4 + C_2C_3R_2R_3R_5 + C_2C_3R_2R_4R_5 + C_2C_3R_2R_4R_5 + C_2C_4R_2R_4R_5 + C_2C_4R_4R_5 + C_$

10.449 X-INVALID-ORDER-449 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_4s + C_3R_1R_4}{C_2C_3C_4C_6R_2R_3R_4R_5s^3 - C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 - C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_4C_6R_2R_4R_5 + C_2C_4C_6R_2R_4R_5 + C_2C_6R_2R_4 + C_2C_6R_4R_5 + C_2C_6R_4R_$

10.450 X-INVALID-ORDER-450 $Z(s) = \left(R_1, R_2 + \frac{1}{C_{2s}}, R_3 + \frac{1}{C_{3s}}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_2C_3C_6R_1R_2R_4R_6s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_6R_1R_4R_6\right)}{C_2C_3C_4C_6R_2R_3R_4R_5s^3 - C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 - C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4 + C_2C_6R_2R_4 +$

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10.451 X-INVALID-ORDER-451 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
10.452 X-INVALID-ORDER-452 Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{1}{C_5 s}, \ R_6\right)
                                                                    H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^3\left(C_2C_3C_4R_2R_3R_4 - C_2C_3C_5R_2R_3R_4\right) + s^2\left(C_2C_3R_1R_4 + C_2C_3R_2R_3 + C_2C_3R_2R_4 + C_2C_4R_2R_4 - C_2C_5R_2R_4 + C_3C_4R_3R_4 - C_3C_5R_3R_4\right) + s\left(C_2R_2 + C_2R_4 + C_3R_3 + C_3R_4 + C_4R_4 - C_5R_4\right) + 1}
10.453 X-INVALID-ORDER-453 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_4s}{C_6 + s^3\left(C_2C_3C_4C_6R_2R_3R_4 - C_2C_3C_5C_6R_2R_3R_4\right) + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_3 + C_2C_3C_6R_2R_4 + C_2C_3C_6R_2R_4 + C_3C_4C_6R_3R_4 - C_3C_5C_6R_3R_4\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 + C_4C_6R_4 - C_5C_6R_4\right)}
10.454 X-INVALID-ORDER-454 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{C_6 + s^3\left(C_2C_3C_4C_6R_2R_3R_4 - C_2C_3C_5C_6R_2R_3R_4\right) + s^2\left(C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + C_2C_3C_6R_2R_4 + C_2C_3C_6R_2R_4 + C_3C_5C_6R_3R_4\right) + s\left(C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 + C_3C_6R_4 + C_3C_6R_4\right)}
10.455 X-INVALID-ORDER-455 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_2C_3C_5C_6R_2R_3R_4R_6 - C_2C_3C_5C_6R_2R_3R_4R_6 - C_2C_3C_5R_2R_3R_4 - C_2C_3C_5R_2R_3R_4 + C_2C_3C_6R_2R_3R_6 + C_2C_3C_6R_2R_4R_6 + C_2C_3C_6R_2R_4R_6 - C_2C_5C_6R_2R_4R_6 + C_2C_3C_6R_2R_4R_6 + C_2C_3C_6R_4R_4R_6 + C_2C_3C_6R_4R_4R_6 + C_2C_3C_5R_4R_4R_6 + C_2C_3C_5R_4R_4R_6 + C_2C_3C_5R_4R_4R_6 + C_2C_3C_5R_4R_4R_6 + C_2C_3C_5R_4R_4R_6 + C
10.456 X-INVALID-ORDER-456 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                           \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{C_2C_3C_4C_5R_2R_3R_4R_5s^4 + s^3\left(C_2C_3C_4R_2R_3R_4 + C_2C_3C_5R_1R_4R_5 - C_2C_3C_5R_2R_3R_4 + C_2C_3C_5R_2R_3R_4 + C_2C_3C_5R_2R_4R_5 + C_2C_3C_5R_2R_4R_5 + C_2C_3C_5R_3R_4R_5 + C_2C_3C_5R_3R_4 + C_2C_3C_5R_3R
10.457 X-INVALID-ORDER-457 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_2C_3C_5C_6R_2R_3R_4R_5s^4 + C_6 + s^3\left(C_2C_3C_4C_6R_2R_3R_4 + C_2C_3C_5C_6R_2R_3R_4 + C_
10.458 X-INVALID-ORDER-458 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2}{C_2C_3C_4C_5C_6R_2R_3R_4R_5s^4 + C_6 + s^3\left(C_2C_3C_4C_6R_2R_3R_4 + C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_5C_6R_2R_4R_5 + C_2C_3C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5 + C_2C_3C_5C_6R_5R_5 + C_2C_3C_5C_6R_5R_5 + C_2C_5C_5C_6R_5R_5 + C_2C_5C_5C_5C_6R_5 + C_2C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_
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10.459 X-INVALID-ORDER-459 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6s^5 + s^4\left(C_2C_3C_4C_5R_2R_3R_4R_5 + C_2C_3C_4C_6R_2R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4R_5R_6 + C_2C_3C_5C_6R_2R_4R_5R_5R_5 + C_2C_3C_5C_6R_2R_4R_5R_5R_5 + C_2C_3C_5C_6R_2R_4R_5R_5R_5 + C_2C_3C_5C_6R_2R_4R_5R_5R_5 + C_2C_3C_5C_6R_2R_4R_5R_5R_5 + C_2C_3C_5C_6R_3R_4R_5R_5 + C_2C_3C_5C_6R_3R_4R_5R_5 + C_2C_3C_5C_6R_3R_4R_5 + C_2C_3C_5C_6R_3R_4R_5 + C_2C_3C_5C_6R_3R_4R_5 + C_2C_3C_5C_5C_6R_3R_4R_5 + C_2C_3C_5C_5R_5R_5R_5 + C_2C_3C_5C_5C_5R_5R_5R_5 + C_2C_5C_5C_5R_5R_5R_5 + C_$

10.460 X-INVALID-ORDER-460 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_4R_6s + s^2\left(C_2C_3R_1R_2R_4R_6 + C_3C_5R_1R_4R_5R_6\right)}{-R_4 + R_5 + s^3\left(C_2C_3C_4R_2R_3R_4R_5 - C_2C_3C_5R_2R_3R_4R_5 + C_2C_3R_2R_3R_4 + C_2C_3R_2R_3R_4 + C_2C_3R_2R_4R_5 + C_2$

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H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5\right)}{-C_6R_4 + C_6R_5 + s^3\left(C_2C_3C_4C_6R_2R_3R_4R_5 - C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_4R_5 + C_2C_3C_6R_4R_5 + C_2C_3C_6R_4R_5 + C_2C_3C_6R_4R_5 + C_2C_3C_6R_4R_5 + C_2C_3C_6R_4R_5 + C_2C_3C_6
10.462 X-INVALID-ORDER-462 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_6R_1R_4R_5R_6\right) + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_4R_4R_5 + C_3C_6
10.463 X-INVALID-ORDER-463 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-R_4 + R_5 + s^4 \left(C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 - C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_4 R_
10.464 X-INVALID-ORDER-464 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                   H(s) = \frac{C_2C_3R_1R_2R_3R_4s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4\right)}{s^3\left(C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.465 X-INVALID-ORDER-465 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                   H(s) = \frac{C_2C_3C_6R_1R_2R_3R_4R_6s^3 + R_1R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_6R_1R_2R_4R_6 + C_3C_6R_1R_3R_4R_6\right) + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4 + C_6R_1R_4R_6\right)}{s^3\left(C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.466 X-INVALID-ORDER-466 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_2C_3R_1R_2R_3R_4R_6s^2 + R_1R_4R_6 + s(C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6)
                                       \frac{C_2C_3R_1R_2R_3R_4R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_2C_3C_6R_1R_3R_4R_5R_6 + C_2C_3C_6R_2R_3R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_2C_6R_3R_4R_5 
10.467 X-INVALID-ORDER-467 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                    H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_4R_6s + s^2\left(C_2C_5R_1R_2R_4R_6 + C_3C_5R_1R_3R_4R_6\right)}{R_3 + R_4 + s^2\left(C_2C_3R_1R_3R_4 + C_2C_3R_2R_3R_4 - C_2C_5R_2R_3R_4\right) + s\left(C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 + C_3R_3R_4 - C_5R_3R_4\right)}
10.468 X-INVALID-ORDER-468 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_3R_4 + C_2C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_3R_4R_6\right) + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_3R_4 + C_2C_3C_6R_2R_3R_4 - C_2C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 - C_5C_6R_3R_4\right)}
10.469 X-INVALID-ORDER-469 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_4R_6s + s^2\left(C_2C_5R_1R_2R_4R_6 + C_3C_5R_1R_3R_4R_6\right)}{R_3 + R_4 + s^3\left(C_2C_3C_6R_1R_3R_4R_6 + C_2C_5C_6R_2R_3R_4R_6 - C_2C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_2C_3R_1R_3R_4 + C_2C_5R_2R_3R_4 + C_2C_6R_1R_4R_6 + C_2C_6R_2R_4R_6 + C_2C_6R_3R_4R_6 + C_3C_6R_3R_4R_6 - C_5C_6R_3R_4R_6\right) + s\left(C_2R_1R_4 + C_2R_2R_3R_4R_6 + C_2C_6R_2R_4R_6 + C_2C_6R_3R_4R_6 + C_2C_6R_3R_4R_6 + C_3C_6R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_1R_4 + C_2R_3R_3R_4 + C_2C_6R_3R_4R_6 + C_2C_6R_3R_4R_6 + C_3C_6R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_1R_4 + C_2R_3R_3R_4 + C_2C_6R_3R_4R_6 + C_2C_6R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_3R_4R_6 + C_3C_6R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_3R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_3R_4R_6\right) + s\left(C_2R_3R_4R_
10.470 X-INVALID-ORDER-470 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
                                       \frac{C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_4R_6s + s^2\left(C_2C_5R_1R_2R_4R_6 + C_3C_5R_1R_3R_4R_6\right)}{R_3 + R_4 + s^3\left(C_2C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_2R_3R_4 + C_2C_5R_2R_3R_4 + C_2C_5R_2R_4 + C_2R_3R_4 + C_2C_5R_2R_4 + C_2R_3R_4 + C_2C_5R_2R_4 + C_2R_3R_4 + C_2C_5R_2R_4 + C_2R_3R_4 + C_2C_5R_3R_4 + C_2C_
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10.461 X-INVALID-ORDER-461 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

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10.471 X-INVALID-ORDER-471 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4\right)}{C_6R_3 + C_6R_4 + s^3\left(C_2C_3C_5C_6R_1R_3R_4R_5 + C_2C_3C_5C_6R_2R_3R_4 + C_2C_5C_6R_1R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R
10.472 X-INVALID-ORDER-472 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_3R_4 + C_2C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_3R_4R_6\right) + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^3\left(C_2C_3C_5C_6R_1R_3R_4R_5 + C_2C_3C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R_3
10.473 X-INVALID-ORDER-473 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{R_3 + R_4 + s^4 \left( C_2 C_3 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) + s^3 \left( C_2 C_3 C_5 R_1 R_3 R_4 R_5 + C_2 C_3 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_6 R_1 R_3 R_4 R_6 + C_2 C_5 C_6 R_2 R_3 R_4 R_6 + C_2 C_5
10.474 X-INVALID-ORDER-474 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                               H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_4R_6 + s^2\left(C_2C_3R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_4R_5R_6 + C_3C_5R_1R_3R_4R_5R_6\right) + s\left(C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6 + C_5R_1R_4R_5R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_3R_4R_5 + C_2C_3R_2R_3R_4R_5 - C_2C_5R_2R_3R_4R_5\right) + s\left(C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_5 + C_2R_2R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 - C_5R_3R_4R_5\right)}
10.475 X-INVALID-ORDER-475 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                              H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_5s^3 + R_1R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_5R_1R_2R_4R_5 + C_3C_5R_1R_3R_4R_5\right) + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4 + C_5R_1R_4R_5\right)}{s^3\left(C_2C_3C_6R_1R_3R_4R_5 + C_2C_5C_6R_2R_3R_4R_5 + C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_4 + C_2C_6R_3R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5 + 
10.476 X-INVALID-ORDER-476 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_4 + s^3\left(C_2C_3C_5R_1R_2R_3R_4R_5 + C_2C_3C_6R_1R_2R_3R_4R_6 + C_2C_5C_6R_1R_2R_4R_5R_6 + C_3C_5C_6R_1R_2R_4R_5R_6 + C_3C_5C_6R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_4R_4R_5 + C_2C_6R_4R_4R_5 + C_2C_6R_4R_4R_5 +
10.477 X-INVALID-ORDER-477 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_4R_6 + s^2\left(C_2C_3R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_4R_5R_6 + C_3C_5R_1R_3R_4R_5R_6\right) + s\left(C_2R_3R_4R_5R_6 + C_2C_3R_3R_4R_5 + 
10.478 X-INVALID-ORDER-478 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                 H(s) = \frac{C_2C_3R_1R_2R_3s^2 + R_1 + s\left(C_2R_1R_2 + C_3R_1R_3\right)}{s^3\left(C_2C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_4C_6R_2R_3R_5\right) + s^2\left(C_2C_6R_1R_5 - C_2C_6R_2R_3 + C_2C_6R_2R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}
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10.479 X-INVALID-ORDER-479 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_6R_1R_2R_3R_6s^3 + R_1 + s^2\left(C_2C_3R_1R_2R_3 + C_2C_6R_1R_2R_6 + C_3C_6R_1R_3R_6\right) + s\left(C_2R_1R_2 + C_3R_1R_3 + C_6R_1R_6\right)}{s^3\left(C_2C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_4C_6R_2R_3R_5\right) + s^2\left(C_2C_6R_1R_5 - C_2C_6R_2R_3 + C_2C_6R_2R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

10.480 X-INVALID-ORDER-480 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 10.481 X-INVALID-ORDER-481 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_6s^3 + C_5R_1R_6s + s^2\left(C_2C_5R_1R_2R_6 + C_3C_5R_1R_3R_6\right)}{s^2\left(C_2C_3R_1R_3 + C_2C_3R_2R_3 + C_2C_4R_2R_3 - C_2C_5R_2R_3\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3\right) + 1}$ 10.482 X-INVALID-ORDER-482 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_6s^3 + C_5R_1 + s^2\left(C_2C_3C_5R_1R_2R_3 + C_2C_5C_6R_1R_2R_6 + C_3C_5C_6R_1R_3R_6\right) + s\left(C_2C_5R_1R_2 + C_3C_5R_1R_3 + C_5C_6R_1R_6\right)}{C_6 + s^2\left(C_2C_3C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_4C_6R_2R_3 - C_2C_5C_6R_2R_3\right) + s\left(C_2C_6R_1 + C_2C_6R_2 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$ **10.483** X-INVALID-ORDER-483 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_6s^3 + C_5R_1R_6s + s^2\left(C_2C_5R_1R_2R_6 + C_3C_5R_1R_3R_6\right)}{s^3\left(C_2C_3C_6R_1R_3R_6 + C_2C_3C_6R_2R_3R_6 + C_2C_4C_6R_2R_3R_6 - C_2C_5C_6R_2R_3R_6\right) + s^2\left(C_2C_3R_1R_3 + C_2C_3R_2R_3 + C_2C_4R_2R_3 - C_2C_5R_2R_3 + C_2C_6R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6 + C_4C_6R_3R_6 - C_5C_6R_3R_6\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_3R_3 + C_3C_4R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_3C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_2R_1 + C_2R_3 + C_3C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_3R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_3R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_3R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_3R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_3R_3R_6 + C_3C_6R_3R_6 + C_3C_6R_3R_$ **10.484** X-INVALID-ORDER-484 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_6s^3 + C_5R_1R_6s + s^2\left(C_2C_5R_1R_2R_6 + C_3C_5R_1R_3R_6\right)}{s^3\left(C_2C_3C_5R_1R_3R_5 + C_2C_3C_5R_2R_3R_5 + C_2C_4C_5R_2R_3R_5\right) + s^2\left(C_2C_3R_1R_3 + C_2C_3R_2R_3 + C_2C_5R_1R_5 - C_2C_5R_2R_5 + C_2C_5R_3R_5 + C_3C_5R_3R_5 + C_4C_5R_3R_5\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3 + C_5R_5\right) + 1}$ 10.485 X-INVALID-ORDER-485 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_3s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_3C_5R_1R_3\right)}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_3R_5 + C_2C_3C_5C_6R_2R_3R_5 + C_2C_4C_5C_6R_2R_3R_5\right) + s^2\left(C_2C_3C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_5C_6R_1R_5 - C_2C_5C_6R_2R_5 + C_2C_5C_6R_3R_5 + C_3C_5C_6R_3R_5 + C_4C_5C_6R_3R_5\right) + s\left(C_2C_6R_1R_3 + C_2C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5 + C_3C_5C_6R_3R_5 + C_3C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_2C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5 + C_3C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5 + C_3C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5 + C_2C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5 + C_2C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5\right) + s\left(C_2C_3C_6R_1R_3 + C_2C_5C_6R_3R_5\right) + s\left(C_2C$ **10.486** X-INVALID-ORDER-486 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_6s^3 + C_5R_1 + s^2\left(C_2C_3C_5R_1R_2R_3 + C_2C_5C_6R_1R_2R_6 + C_3C_5C_6R_1R_3R_6\right) + s\left(C_2C_5R_1R_2 + C_3C_5R_1R_3 + C_5C_6R_1R_6\right)}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_2C_5C_6R_3R_5 + C_3C_5C_6R_3R_5 + C_3$ 10.487 X-INVALID-ORDER-487 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{1}{s^4 \left(C_2 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_2 C_3 C_5 R_1 R_3 R_5 + C_2 C_3 C_5 R_2 R_3 R_5 + C_2 C_3 C_6 R_1 R_3 R_6 + C_2 C_4 C_5 R_2 R_3 R_6 + C_2 C_5 C_6 R_2 R_5 R_6 +$ **10.488** X-INVALID-ORDER-488 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_5R_6s^3 + R_1R_6 + s^2\left(C_2C_3R_1R_2R_3R_6 + C_2C_5R_1R_2R_5R_6 + C_3C_5R_1R_3R_5R_6\right) + s\left(C_2R_1R_2R_6 + C_3R_1R_3R_6 + C_5R_1R_5R_6\right)}{-R_2 + R_5 + s^2\left(C_2C_3R_1R_2R_5 + C_2C_3R_2R_3R_5 + C_2C_4R_2R_3R_5 - C_2C_5R_2R_3R_5\right) + s\left(C_2R_1R_5 - C_2R_2R_3 + C_2R_2R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5 - C_5R_3R_5\right)}$ 10.489 X-INVALID-ORDER-489 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_5s^3 + R_1 + s^2\left(C_2C_3R_1R_2R_3 + C_2C_5R_1R_2R_5 + C_3C_5R_1R_3R_5\right) + s\left(C_2R_1R_2 + C_3R_1R_3 + C_5R_1R_5\right)}{s^3\left(C_2C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_4C_6R_2R_3R_5 + C_2C_6R_2R_3R_5\right) + s^2\left(C_2C_6R_1R_5 - C_2C_6R_2R_3 + C_2C_6R_2R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5 - C_5C_6R_3R_5\right) + s\left(C_2R_1R_3R_5 + C_2C_6R_3R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5\right) + s\left(C_3R_3R_5 + C_3C_6R_3R_5 + C$

 $\textbf{10.490 X-INVALID-ORDER-490} \ Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s+1}, \ \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s+1}, \ R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6 s^4 + R_1 + s^3 \left(C_2 C_3 C_5 R_1 R_2 R_3 R_5 + C_2 C_3 C_6 R_1 R_2 R_3 R_6 + C_2 C_5 C_6 R_1 R_2 R_5 R_6 + C_3 C_5 C_6 R_1 R_3 R_5 R_6\right) + s^2 \left(C_2 C_3 R_1 R_2 R_3 + C_2 C_5 R_1 R_2 R_5 + C_2 C_6 R_1 R_3 R_5 + C_3 C_6 R_1 R_3 R_6 + C_5 C_6 R_1 R_3 R_5 + C_5 C_6 R_2 R_3 R_5 + C_5 C_6 R_5 R_5 + C_5 C_6 R_5$

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10.491 X-INVALID-ORDER-491 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_3R_5R_6s^3 + R_1R_6 + s^2\left(C_2C_3R_1R_2R_3R_6 + C_2C_5R_1R_2R_5R_6 + C_3C_5R_1R_3R_5R_6\right) + s\left(C_2R_1R_2R_6 + C_3R_1R_3R_6 + C_5R_1R_3R_5R_6\right) + s\left(C_2R_1R_2R_6 + C_3R_1R_3R_5R_6 + C_2C_5R_1R_3R_5R_6\right) + s\left(C_2R_1R_2R_6 + C_3R_1R_3R_5 + C_2C_3R_1R_3R_5 + C_2C_3R_2R_3R_5 + C_2C_4R_2R_3R_5 + C_2C_6R_2R_3R_5 + C_2C_6R_3R_5 + C_2C_6R_
10.492 X-INVALID-ORDER-492 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_2C_3C_4R_1R_2R_3R_4R_6s^3 + R_1R_6 + s^2\left(C_2C_3R_1R_2R_3R_6 + C_2C_4R_1R_2R_4R_6 + C_3C_4R_1R_3R_4R_6\right) + s\left(C_2R_1R_2R_6 + C_3R_1R_3R_6 + C_4R_1R_4R_6\right)}{-R_3 + R_5 + s^3\left(C_2C_3C_4R_1R_3R_4R_5 + C_2C_3R_2R_3R_4 + C_2C_4R_2R_3R_4 + C_2C_4R_2R_4R_4 + C_2C_4R_4R_4R_4 + C_2C_4R_4R_4R_4 + C_2C_4R_4R_4 + C_2C_4R_4R_4R_4 + C_2C_4R_4R_4 + C_2C_4R_4R_4 + C_2C_4R_
10.493 X-INVALID-ORDER-493 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4R_1R_2R_3R_4s^3 + R_1 + s^2\left(C_2C_3R_1R_2R_3 + C_2C_4R_1R_2R_4 + C_3C_4R_1R_3R_4\right) + s\left(C_2R_1R_2 + C_3R_1R_3 + C_4R_1R_4\right)}{s^4\left(C_2C_3C_4C_6R_1R_3R_4R_5 + C_2C_3C_4C_6R_2R_3R_5 + C_2C_4C_6R_2R_3R_4 + C_2C_4C_6R_2R_4R_5 + C_2C_4C_6R_4R_4R_5 + C_2C_4C_6R_4R_4R_5 + C_2C_4C_6R_4R_4R_5 + C_2C_4C_6R_4R_4R_5 + C_2C_4C_6R_4R_4R_5 + C_2C_4C_6R_4R_4R_5
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10.494 X-INVALID-ORDER-494 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_2C_3C_4C_6R_1R_2R_3R_4R_6s^4 + R_1 + s^3\left(C_2C_3C_4R_1R_2R_3R_4 + C_2C_3C_6R_1R_2R_3R_6 + C_2C_4C_6R_1R_2R_4R_6 + C_3C_4C_6R_1R_3R_4R_6\right) + s^2\left(C_2C_3R_1R_2R_3 + C_2C_4R_1R_2R_4 + C_2C_6R_1R_2R_6 + C_3C_4R_1R_3R_4 + C_3C_6R_1R_3R_6 + C_4C_6R_1R_3R_4R_6\right) + s^2\left(C_2C_3R_1R_2R_3 + C_2C_4R_1R_2R_4 + C_2C_6R_1R_2R_6 + C_3C_4R_1R_3R_4 + C_3C_6R_1R_3R_6 + C_4C_6R_1R_3R_4R_6\right) + s^2\left(C_2C_3R_1R_2R_3 + C_2C_4R_1R_2R_4 + C_2C_6R_1R_2R_4 + C_2C_6R_1R_3R_4 + C_3C_6R_1R_3R_4 + C_3$

10.495 X-INVALID-ORDER-495 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{-R_3 + R_5 + s^4 \left(C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 R_2 R_3 R_4 R_5 + C_2 C_3 C_6 R_1 R_3 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_3 R_4 R_6 + C_2 C_4 C_6 R_2 R_3 R_4 R_5 + C_2 C_4 C_6 R_2 R_3 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_3 R_4 R_6 + C_2 C_4 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_3 R_4 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 + C_2 C_4 C_6 R_2 R_3 R_4 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 + C_2 C_4 C_6 R_2$

10.496 X-INVALID-ORDER-496 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $\frac{C_2C_3C_4C_5R_1R_2R_3R_4R_6s^4 + C_5R_1R_6s + s^3\left(C_2C_3C_5R_1R_2R_3R_6 + C_2C_4C_5R_1R_2R_4R_6 + C_3C_4C_5R_1R_3R_4R_6\right) + s^2\left(C_2C_5R_1R_2R_6 + C_3C_5R_1R_3R_6 + C_4C_5R_1R_4R_6\right)}{s^3\left(C_2C_3C_4R_1R_3R_4 + C_2C_4C_5R_2R_3R_4\right) + s^2\left(C_2C_3R_1R_3 + C_2C_4R_2R_3 + C_2C_4R_2R_4 + C_2C_4R_2R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_3R_3 + C_4R_3 + C_4R_4 - C_5R_3\right) + 1}{s^3\left(C_2C_3C_4R_1R_3R_4 + C_2C_4C_5R_2R_3R_4\right) + s^2\left(C_2C_3R_1R_3 + C_2C_4R_2R_4 + C_2C_4R_2R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_3R_3 + C_4R_3 + C_4R_4 - C_5R_3\right) + 1}{s^3\left(C_2C_3C_4R_1R_3R_4 + C_2C_4R_2R_4 + C_2C_4R_2R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4\right) + s\left(C_2R_1 + C_2R_2 + C_2R_3 + C_3R_3 + C_4R_3 + C_4R_4 + C_4R_3R_4\right) + s\left(C_2R_1 + C_2R_3 + C_4R_3R_4 + C_4R_4 + C$

10.497 X-INVALID-ORDER-497 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_3R_4s^3 + C_5R_1 + s^2\left(C_2C_3C_5R_1R_2R_3 + C_2C_4C_5R_1R_2R_4 + C_3C_4C_5R_1R_3R_4\right) + s\left(C_2C_5R_1R_2 + C_3C_5R_1R_3 + C_4C_5R_1R_4\right)}{C_6 + s^3\left(C_2C_3C_4C_6R_1R_3R_4 + C_2C_4C_6R_2R_3 + C_2C_4C_6R_2R_3 + C_2C_4C_6R_2R_3 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_2R_4 + C_2C_4C_6R_3R_4 - C_4C_5C_6R_3R_4\right) + s\left(C_2C_5R_1R_2 + C_3C_5R_1R_3 + C_4C_5R_1R_4\right)}$

10.498 X-INVALID-ORDER-498 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_1 + s^3\left(C_2C_3C_4C_5R_1R_2R_3R_4 + C_2C_3C_5C_6R_1R_2R_3R_4 + C_2C_4C_5C_6R_1R_2R_4R_6 + C_3C_4C_5C_6R_1R_3R_4R_6\right) + s^2\left(C_2C_3C_5R_1R_2R_3 + C_2C_4C_5R_1R_2R_4 + C_2C_5C_6R_1R_2R_6 + C_3C_4C_5R_1R_3R_4 + C_3C_5C_6R_1R_3R_4 + C$

10.499 X-INVALID-ORDER-499 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_2C_3C_4C_5R_1R_2R_3R_4R_6s^4 + C_5R_1R_5$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2}{s^4\left(C_2C_3C_4C_6R_1R_3R_4R_6 + C_2C_3C_4C_5R_2R_3R_4R_6 + C_2C_4C_5R_2R_3R_4R_6 + C_2C_4C_5R_2R_3R_4R_6 + C_2C_4C_5R_2R_3R_4 + C_2C_3C_4R_2R_3R_4 + C_2C_3C_4R_2R_3R_4 + C_2C_3C_4R_2R_3R_4 + C_2C_4C_5R_2R_3R_4 + C_2C_4C_5R_3R_4R_5 + C_2C_4C_5R_5R_5R_5 + C_2C_4C_5R_5R_5 + C_2C_4C_5R_5R_5 + C_2C_4C_5R_5R_5 + C_2C_4C_5R_5R_5 + C_2C_4$

10.500 X-INVALID-ORDER-500 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $\frac{c_2c_3c_4c_5n_1n_2n_3n_4n_6s + c_5n_1n_4n_6s + c_5n_1n_4n_$

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10.501 X-INVALID-ORDER-501 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_2C_3C_4C_5R_1R_3}{C_6 + s^4\left(C_2C_3C_4C_5C_6R_1R_3R_4R_5 + C_2C_3C_4C_5C_6R_2R_3R_4 + C_2C_3C_4C_5R_1R_3R_4 + C_2C_3C_4C_5C_6R_2R_3R_4 + C_2C_4C_5C_6R_2R_3R_4 +$

10.502 X-INVALID-ORDER-502 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_1 + s^3\left(C_2C_3C_4C_5R_1R_2R_3R_4 + C_2C_3C_5C_6R_1R_2R_3R_6 + C_2C_4C_5C_6R_1R_2R_3R_4 + C_2C_3C_5C_6R_1R_3R_4 + C_2C_3C_5C_6R_1R_3R_4 + C_2C_3C_5C_6R_1R_3R_4 + C_2C_3C_5C_6R_1R_3R_4 + C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_$

10.503 X-INVALID-ORDER-503 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{s^5 \left(C_2 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) + s^4 \left(C_2 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_2 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_5 C_6 R_1 R_4 R_5 R_6 - C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_5 R_4 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_5 R_5 + C_2 C_3 C_5 C_6 R_2 R_5 R_5 + C_2 C_5 C_6 R_5 R_5 R_5 +$

10.504 X-INVALID-ORDER-504 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_3R_4R_5R_6s^4 + R_1R_6 + s^3\left(C_2C_3C_4R_1R_2R_3R_4R_6 + C_2C_4C_5R_1R_2R_3R_5R_6 + C_2C_4C_5R_1R_2R_3R_6 + C_2C_4C_5R_1R_2R_3R_6 + C_2C_4R_1R_2R_4R_6 + C_2C_4R_1R_2R_4R_6 + C_2C_5R_1R_2R_5R_6 + C_3C_4R_1R_3R_4R_6 + C_3C_5R_1R_3R_5R_6}{-R_3 + R_5 + s^3\left(C_2C_3C_4R_1R_3R_4R_5 + C_2C_4R_2R_3R_4R_5 + C_2C_4R_2R_3R_4 + C_2C_4R_3R_4R_5 + C_2C_4$

10.505 X-INVALID-ORDER-505 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_3R_4R_5s^4 + R_1 + s^3\left(C_2C_3C_4R_1R_2R_3R_4 + C_2C_3C_5R_1R_2R_3R_5 + C_2C_4C_5R_1R_2R_4R_5 + C_3C_4C_5R_1R_3R_4R_5\right) + s^2\left(C_2C_3R_1R_2R_3 + C_2C_4R_1R_2R_4 + C_2C_5R_1R_2R_5 + C_3C_4C_5R_1R_2R_4R_5 + C_3C_4C_5R_1R_3R_4R_5 + C_3C_4C_5R_3R_4R_5 + C_3C_4C_5R_3R$

10.506 X-INVALID-ORDER-506 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^5 + R_1 + s^4\left(C_2C_3C_4C_5R_1R_2R_3R_4R_5 + C_2C_3C_4C_6R_1R_2R_3R_4R_6 + C_2C_4C_5C_6R_1R_2R_3R_4R_5 + C_2C_3C_4C_6R_1R_2R_3R_4R_5 + C_2C_3C_4C_6R_1R_3R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_3R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 +$

10.507 X-INVALID-ORDER-507 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-}{-R_3 + R_5 + s^4 \left(C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 - C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) + s^3 \left(C_2 C_3 C_4 R_1 R_3 R_4 R_5 + C_2 C_3 C_4 R_2 R_3 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 - C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 R_2 R_3 R_4 R_5 \right) + s^3 \left(C_2 C_3 C_4 R_1 R_3 R_4 R_5 + C_2 C_3 C_4 R_2 R_3 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 \right) + s^3 \left(C_2 C_3 C_4 R_1 R_3 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 \right) + s^3 \left(C_2 C_3 C_4 R_1 R_3 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_4 R_5 + C_2$

10.508 X-INVALID-ORDER-508 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_3R_4s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4\right)}{s^3\left(C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 + C_2C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_4C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$

10.509 X-INVALID-ORDER-509 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_6R_1R_2R_3R_4R_6s^3 + R_1R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_6R_1R_2R_4R_6 + C_3C_6R_1R_3R_4R_6\right) + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4 + C_6R_1R_4R_6\right)}{s^3\left(C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 + C_2C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_4R_5 - C_2C_6R_2R_3R_4 + C_2C_6R_2R_3R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_4C_6R_3R_4R_5\right) + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4 + C_6R_1R_4R_6\right)}$

10.510 X-INVALID-ORDER-510 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_2C_3R_1R_2R_3R_4R_6s^2 + R_1R_4R_6 + s(C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6)$

 $\frac{C_2C_3R_1R_2R_3R_4R_6 + C_2C_3C_6R_1R_3R_4R_6 + C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6 + C_3R_1R_3R_4R_6 + C_3R_1R_3R_4R_6 + C_3R_1R_3R_4R_6 + C_3R_1R_3R_4R_6 + C_3R_3R_4R_6 + C_3R_3R_4R_$

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H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_4R_6s + s^2\left(C_2C_5R_1R_2R_4R_6 + C_3C_5R_1R_3R_4R_6\right)}{R_3 + R_4 + s^2\left(C_2C_3R_1R_3R_4 + C_2C_3R_2R_3R_4 + C_2C_4R_2R_3R_4 - C_2C_5R_2R_3R_4\right) + s\left(C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 + C_3R_3R_4 + C_4R_3R_4 - C_5R_3R_4\right)}
 10.512 X-INVALID-ORDER-512 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_3R_4 + C_2C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_3R_4R_6\right) + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 + C_3C_6R
 10.513 X-INVALID-ORDER-513 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
 H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_4R_6s + s^2\left(C_2C_5R_1R_2R_4R_6 + C_3C_5R_1R_3R_4R_6\right)}{R_3 + R_4 + s^3\left(C_2C_3C_6R_1R_3R_4R_6 + C_2C_6R_2R_3R_4R_6 + C_2C_6R_2R
 10.514 X-INVALID-ORDER-514 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
 H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_4R_6s + s^2\left(C_2C_5R_1R_2R_4R_6 + C_3C_5R_1R_3R_4R_6\right)}{R_3 + R_4 + s^3\left(C_2C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_2R_3R_4R_5 + C_2C_4R_2R_3R_4 + C_2C_3R_2R_3R_4 + C_2C_5R_2R_3R_4 + C_2C
10.515 X-INVALID-ORDER-515 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
 H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4\right)}{C_6R_3 + C_6R_4 + s^3\left(C_2C_3C_5C_6R_1R_3R_4R_5 + C_2C_3C_5C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R
 10.516 X-INVALID-ORDER-516 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
 H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_3R_4 + C_2C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_3R_4R_6\right) + s\left(C_2C_5R_1R_2R_4R_6 + C_3C_5C_6R_1R_3R_4R_6\right) + s\left(C_2C_5R_1R_3R_4 + C_2C_5C_6R_1R_3R_4 + C_2C_5C_6R_1R_3R_4 + C_2C_5C_6R_1R_3R_4 + C_2C_5C_6R_1R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_
 10.517 X-INVALID-ORDER-517 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
 H(s) = \frac{1}{R_3 + R_4 + s^4 \left( C_2 C_3 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_4 C_5 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_5 R_1 R_3 R_4 R_5 + C_2 C_3 C_5 R_1 R_3 R_4 R_5 + C_2 C_3 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_5 R
 10.518 X-INVALID-ORDER-518 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                        H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_4R_6 + s^2\left(C_2C_3R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_4R_5R_6 + C_3C_5R_1R_3R_4R_5R_6\right) + s\left(C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6 + C_5R_1R_4R_5R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_3R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_2C_5R_2R_3R_4R_5\right) + s\left(C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_5 + C_2R_2R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 + C_3R_3R_4R_5
 10.519 X-INVALID-ORDER-519 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
 H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_5s^3 + R_1R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_5R_1R_2R_4R_5 + C_3C_5R_1R_3R_4R_5\right) + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4 + C_5R_1R_4R_5\right)}{s^3\left(C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 + C_2C_5C_6R_2R_3R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_2C_6R_3R_4R_5 + C_2C_6R_3
 10.520 X-INVALID-ORDER-520 Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
 H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_4 + s^3\left(C_2C_3C_5R_1R_2R_3R_4R_5 + C_2C_3C_6R_1R_2R_3R_4R_6 + C_2C_5C_6R_1R_2R_4R_5R_6 + C_3C_5C_6R_1R_3R_4R_5 + C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_2C_6R_2R_4R_5 +
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10.511 X-INVALID-ORDER-511 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

10.521 X-INVALID-ORDER-521
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_4R_6 + s^2\left(C_2C_3R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_3R_4R_5 + C_2C_3R_1R_3R_4R_5 + C_2C_3R_3R_4R_5 + C_2C_3R_$

10.522 X-INVALID-ORDER-522 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(C_2 R_1 R_2 R_4 R_5 + C_2 R_2 R_3 R_4 R_5\right)}$$

10.523 X-INVALID-ORDER-523 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{R_1 R_2 R_4}{s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$$

10.524 X-INVALID-ORDER-524 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, R_5, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_6 R_1 R_2 R_4 R_6 s + R_1 R_2 R_4}{s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$$

10.525 X-INVALID-ORDER-525 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s \left(C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 - C_5 R_2 R_3 R_4\right)}$$

10.526 X-INVALID-ORDER-526 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s \left(C_2 C_6 R_1 R_2 R_4 + C_2 C_6 R_2 R_3 R_4 - C_5 C_6 R_2 R_3 R_4 \right)}$$

10.527 X-INVALID-ORDER-527 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_2C_6R_1R_2R_4 + C_2C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

10.528 X-INVALID-ORDER-528 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^3 \left(C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_2 C_5 R_2 R_3 R_4 R_5 + C_2 C_5 R_2 R_3 R_4 R_5 + C_2 C_6 R_1 R_2 R_4 R_6 + C_5 C_6 R_2 R_3 R_4 R_6 + C_5$$

10.529 X-INVALID-ORDER-529 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_5 R_6 s + R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(C_2 R_1 R_2 R_4 R_5 + C_2 R_2 R_3 R_4 R_5 - C_5 R_2 R_3 R_4 R_5\right)}$$

10.530 X-INVALID-ORDER-530 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_5 s + R_1 R_2 R_4}{s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5 - C_5 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$$

$$\textbf{10.531} \quad \textbf{X-INVALID-ORDER-531} \ Z(s) = \left(R_1, \ \frac{R_2}{C_2R_2s+1}, \ R_3, \ R_4, \ \frac{R_5}{C_5R_5s+1}, \ R_6 + \frac{1}{C_6s}\right) \\ H(s) = \frac{C_5C_6R_1R_2R_4R_5R_6s^2 + R_1R_2R_4 + s\left(C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$$

10.532 X-INVALID-ORDER-532
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, R_5, R_6\right)$$

$$H(s) = \frac{R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s \left(C_2 R_1 R_2 R_5 + C_2 R_2 R_3 R_5 + C_4 R_2 R_3 R_5\right)}$$

10.533 X-INVALID-ORDER-533
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{R_1 R_2}{s^2 \left(C_2 C_6 R_1 R_2 R_5 + C_2 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_3 R_5 \right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5 \right)}$$

10.534 X-INVALID-ORDER-534
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_6R_1R_2R_6s + R_1R_2}{s^2\left(C_2C_6R_1R_2R_5 + C_2C_6R_2R_3R_5 + C_4C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$$

10.535 X-INVALID-ORDER-535
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s \left(C_2 R_1 R_2 + C_2 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3\right)}$$

10.536 X-INVALID-ORDER-536
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s \left(C_2 C_6 R_1 R_2 + C_2 C_6 R_2 R_3 + C_4 C_6 R_2 R_3 - C_5 C_6 R_2 R_3\right)}$$

10.537 X-INVALID-ORDER-537
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_1 R_2 R_6 s + C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s \left(C_2 C_6 R_1 R_2 + C_2 C_6 R_2 R_3 + C_4 C_6 R_2 R_3 - C_5 C_6 R_2 R_3\right)}$$

10.538 X-INVALID-ORDER-538
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s^3 \left(C_2 C_5 C_6 R_1 R_2 R_5 R_6 + C_2 C_5 C_6 R_2 R_3 R_5 R_6 + C_4 C_5 C_6 R_2 R_3 R_5 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_6 R_1 R_2 R_6 + C_2 C_6 R_2 R_3 R_6 + C_5 C_6 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_5 + C_4 C_6 R_2 R_3 R_6 + C_5 C_6 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_6 R_2 R_3 R_6 + C_5 C_6 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 + C_5 C_6 R_2 R_3 R_6 + C_5 C_6 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 + C_5 C_6 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_6 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_3 R_5 \right) + s^2 \left(C_2 C$$

10.539 X-INVALID-ORDER-539
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_5 R_6 s + R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s \left(C_2 R_1 R_2 R_5 + C_2 R_2 R_3 R_5 + C_4 R_2 R_3 R_5 - C_5 R_2 R_3 R_5 \right)}$$

10.540 X-INVALID-ORDER-540
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$$

$$H(s) = \frac{C_5 R_1 R_2 R_5 s + R_1 R_2}{s^2 \left(C_2 C_6 R_1 R_2 R_5 + C_2 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_3 R_5 - C_5 C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5\right)}$$

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H(s) = \frac{C_5C_6R_1R_2R_5R_6s^2 + R_1R_2 + s\left(C_5R_1R_2R_5 + C_6R_1R_2R_6\right)}{s^2\left(C_2C_6R_1R_2R_5 + C_2C_6R_2R_3R_5 + C_4C_6R_2R_3R_5 - C_5C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}
10.542 X-INVALID-ORDER-542 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)
                                                                       H(s) = \frac{C_4 R_1 R_2 R_4 s + R_1 R_2}{s^3 \left(C_2 C_4 C_6 R_1 R_2 R_4 R_5 + C_2 C_4 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(C_2 C_6 R_1 R_2 R_5 + C_2 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_3 R_4 + C_4 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_4 R_5 + C_4 C_6 R_2 R_4 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5\right)}
10.543 X-INVALID-ORDER-543 Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                       H(s) = \frac{C_4C_6R_1R_2R_4R_6s^2 + R_1R_2 + s\left(C_4R_1R_2R_4 + C_6R_1R_2R_6\right)}{s^3\left(C_2C_4C_6R_1R_2R_4R_5 + C_2C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_2R_5 + C_2C_6R_2R_3R_5 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_2R_4R_5 + C_4C_6R_2R_4R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}
10.544 X-INVALID-ORDER-544 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_4R_1R_2R_4R_6s + R_1R_2R_6
                              \frac{C_4R_1R_2R_4R_6s + R_1R_2R_6}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(C_2C_4C_6R_1R_2R_4R_5R_6 + C_2C_4C_6R_2R_3R_4R_5R_6 + C_2C_4R_2R_3R_4R_5 + C_2C_4R_2R_3R_4R_5 + C_2C_6R_1R_2R_5R_6 + C_4C_6R_2R_3R_4R_6 + C_4C_6R_2R_3R_4R_6 + C_4C_6R_2R_3R_4R_5 + C_4C_6R_2R_4R_5 + C_4C_6R_4R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_4R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6R_5 + C_4C_6
10.545 X-INVALID-ORDER-545 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^3\left(C_2C_4C_6R_1R_2R_4R_6 + C_2C_4C_6R_2R_3R_4R_6 - C_4C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_2C_4R_1R_2R_4 + C_2C_4R_2R_3R_4 + C_2C_6R_1R_2R_6 + C_4C_5R_2R_3R_4 + C_4C_6R_1R_4R_6 + C_4C_6R_2R_3R_6 + C_4C_6R_3R_3R_6 + C_4C
10.546 X-INVALID-ORDER-546 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)
H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^3\left(C_2C_4C_5R_1R_2R_4R_5 + C_2C_4C_5R_2R_3R_4R_5\right) + s^2\left(C_2C_4R_1R_2R_4 + C_2C_4R_2R_3R_4 + C_2C_5R_1R_2R_5 + C_2C_5R_2R_3R_5 + C_4C_5R_2R_3R_4 + C_4C_5R_3R_4R_5 + C_4C_5R_3R_5 + C_4C_5R_3R_5 + C_4C_5R_3R_5 + C_4C_5R_5R_5 + C_4C
10.547 X-INVALID-ORDER-547 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
H(s) = \frac{C_4C_5R_1R_2R_4s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_2C_4C_5C_6R_1R_2R_4R_5 + C_2C_4C_5C_6R_2R_3R_4 + C_2C_4C_6R_2R_3R_4 + C_2C_5C_6R_1R_2R_5 + C_2C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_3R_4 + C_4C_5C_6R_
10.548 X-INVALID-ORDER-548 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_6\right)
H(s) = \frac{C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_4 + C_5C_6R_2R_3R_4 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_3R_4 + C_4C_5C_6R
10.549 X-INVALID-ORDER-549 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
10.550 X-INVALID-ORDER-550 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
```

10.541 X-INVALID-ORDER-541 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $\frac{C_4C_5R_1R_2R_4R_5s^2 + R_1R_2 + s\left(C_4R_1R_2R_4 + C_5R_1R_2R_5\right)}{s^3\left(C_2C_4C_6R_1R_2R_4R_5 + C_2C_4C_6R_2R_3R_4R_5 - C_4C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_2R_5 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_5R_5 + C_4C$

```
10.551 X-INVALID-ORDER-551 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
```

 $H(s) = \frac{C_4C_5C_6R_1R_2R_4R_5R_6s^3 + R_1R_2 + s^2\left(C_4C_5R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_6 + C_5C_6R_1R_2R_4 + C_5R_1R_2R_4 + C_5R_1R_2R_5 + C_6R_1R_2R_6\right) + s\left(C_4R_1R_2R_4 + C_5R_1R_2R_4 + C_5R_1R_2R_5 + C_6R_1R_2R_6\right)}{s^3\left(C_2C_4C_6R_1R_2R_4R_5 + C_4C_6R_2R_3R_4R_5 - C_4C_5C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_5R_5 + C_4C_6R_5R_5 + C_4C_6R_5R_5 + C_4C_6R_5R_5 + C_4C_6R_5R_5 +$

10.552 X-INVALID-ORDER-552 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $\frac{C_4C_5R_1R_2R_4R_5R_6s^2 + R_1R_2R_6 + s\left(C_4R_1R_2R_4R_5R_6s^2 + R_1R_2R_4R_5R_6s^2 + R_$

10.553 X-INVALID-ORDER-553 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)$

$$H(s) = \frac{R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(C_2 R_1 R_2 R_4 R_5 + C_2 R_2 R_3 R_4 R_5 + C_4 R_2 R_3 R_4 R_5\right)}$$

10.554 X-INVALID-ORDER-554 $Z(s) = \left(R_1, \ \frac{R_2}{C_2R_2s+1}, \ R_3, \ \frac{R_4}{C_4R_4s+1}, \ R_5, \ \frac{1}{C_6s}\right)$

$$H(s) = \frac{R_1 R_2 R_4}{s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5 + C_4 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$$

10.555 X-INVALID-ORDER-555 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_6 R_1 R_2 R_4 R_6 s + R_1 R_2 R_4}{s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5 + C_4 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$$

10.556 X-INVALID-ORDER-556 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s \left(C_2 R_1 R_2 R_4 + C_2 R_2 R_3 R_4 + C_4 R_2 R_3 R_4 - C_5 R_2 R_3 R_4\right)}$$

10.557 X-INVALID-ORDER-557 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s \left(C_2 C_6 R_1 R_2 R_4 + C_2 C_6 R_2 R_3 R_4 + C_4 C_6 R_2 R_3 R_4 - C_5 C_6 R_2 R_3 R_4 \right)}$$

10.558 X-INVALID-ORDER-558 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_2C_6R_1R_2R_4 + C_2C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

10.559 X-INVALID-ORDER-559 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4 + R_5 R_6 + C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_4 C_5 R_2 R_3 R_4 R_5 + C_4 C_5 R_4 R_5 R_5 + C_4 C_5 R_5 R_5 R_5 + C$

10.560 X-INVALID-ORDER-560 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_5 R_1 R_2 R_4 R_5 R_6 s + R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(C_2 R_1 R_2 R_4 R_5 + C_2 R_2 R_3 R_4 R_5 + C_4 R_2 R_3 R_4 R_5 - C_5 R_2 R_3 R_4 R_5\right)}$$

10.561 X-INVALID-ORDER-561 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$ $H(s) = \frac{C_5 R_1 R_2 R_4 R_5 s + R_1 R_2 R_4}{s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5 + C_4 C_6 R_2 R_3 R_4 R_5 - C_5 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$ 10.562 X-INVALID-ORDER-562 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$ $H(s) = \frac{C_5C_6R_1R_2R_4R_5R_6s^2 + R_1R_2R_4 + s\left(C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$ **10.563** X-INVALID-ORDER-563 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)$ $H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{C_2 C_3 C_6 R_1 R_2 R_4 R_5 R_6 s^3 - R_2 R_4 + R_2 R_5 + R_4 R_5 + s^2 \left(C_2 C_3 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_4 R_5 R_6 + C_3 C_6 R_1 R_4 R_5 R_6 + C_3 C_6 R_2 R_4 R_5 + C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 - C_6 R_2 R_4 R_6 + C_6 R_2 R_5 R_6 + C_6 R_4 R_5 R_6\right)}$ 10.564 X-INVALID-ORDER-564 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$ $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{C_2C_3C_6R_1R_2R_4R_6s^3 + R_2 + R_4 + s^2\left(C_2C_3R_1R_2R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_1R_4R_6 + C_3C_6R_2R_4R_6\right) + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4 + C_6R_2R_6 + C_6R_4R_6\right)}$ 10.565 X-INVALID-ORDER-565 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, R_6\right)$ $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{C_2C_3C_5R_1R_2R_4R_5s^3 + R_2 + R_4 + s^2\left(C_2C_3R_1R_2R_4 + C_2C_5R_2R_4R_5 + C_3C_5R_1R_4R_5 + C_3C_5R_2R_4R_5\right) + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4 + C_5R_2R_5 + C_5R_4R_5\right)}$ 10.566 X-INVALID-ORDER-566 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_2C_3C_5C_6R_1R_2R_4R_5s^3 + C_6R_2 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_2R_4 + C_2C_5C_6R_2R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_4 + C_5C_6R_2R_4 + C_5C_6R_$ 10.567 X-INVALID-ORDER-567 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$ $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_2C_3C_5C_6R_1R_2R_4R_5s^3 + C_6R_2 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_2R_4 + C_2C_5C_6R_2R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_4 + C_5C_6R_2R_4 + C_5C_6R_2R_$ 10.568 X-INVALID-ORDER-568 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$ **10.569** X-INVALID-ORDER-569 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$ $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{C_2C_3C_6R_1R_2R_4R_5R_6s^3 - R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_2R_4R_5 + C_3C_6R_2R_4R_5R_6 + C_3C_6R_2R_4R_5R_6\right) + s\left(C_2R_2R_4R_5 + C_3R_1R_4R_5 + C_3R_2R_4R_5 - C_5R_2R_4R_5 - C_6R_2R_4R_6 + C_6R_2R_5R_6 + C_6R_4R_5R_6\right)}$ 10.570 X-INVALID-ORDER-570 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $\frac{C_{3}R_{1}R_{2}R_{6}s}{C_{2}C_{3}C_{6}R_{1}R_{2}R_{5}R_{6}s^{3}-R_{2}+R_{5}+s^{2}\left(C_{2}C_{3}R_{1}R_{2}R_{5}+C_{2}C_{6}R_{2}R_{5}R_{6}+C_{3}C_{6}R_{1}R_{5}R_{6}+C_{4}C_{6}R_{2}R_{5}R_{6}\right)+s\left(C_{2}R_{2}R_{5}+C_{3}R_{1}R_{5}+C_{3}R_{2}R_{5}+C_{4}R_{2}R_{5}-C_{6}R_{2}R_{6}+C_{6}R_{5}R_{6}\right)}{C_{2}C_{3}C_{6}R_{1}R_{2}R_{5}+C_{4}C_{6}R_{2}R_{5}R_{6}+C_{4}C_{6}R_{2}R_{5}R_{6}+C_{4}C_{6}R_{2}R_{5}R_{6}+C_{4}C_{6}R_{2}R_{5}R_{6}+C_{4}C_{6}R_{2}R_{5}+C_{4}R_{2}R$

10.571 X-INVALID-ORDER-571 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{C_2C_3C_6R_1R_2R_6s^3 + s^2\left(C_2C_3R_1R_2 + C_2C_6R_2R_6 + C_3C_6R_1R_6 + C_3C_6R_2R_6 + C_4C_6R_2R_6 - C_5C_6R_2R_6\right) + s\left(C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_6R_6\right) + 1}$$

10.572 X-INVALID-ORDER-572 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{C_2C_3C_5R_1R_2R_5s^3 + s^2\left(C_2C_3R_1R_2 + C_2C_5R_2R_5 + C_3C_5R_1R_5 + C_3C_5R_2R_5 + C_4C_5R_2R_5\right) + s\left(C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_5R_5\right) + 1}$$

10.573 X-INVALID-ORDER-573 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5R_1R_2s}{C_2C_3C_5C_6R_1R_2R_5s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_2 + C_2C_5C_6R_2R_5 + C_3C_5C_6R_1R_5 + C_3C_5C_6R_2R_5\right) + s\left(C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2 + C_5C_6R_2\right)}$$

10.574 X-INVALID-ORDER-574 $Z(s) = \left(R_1, \ \frac{R_2}{C_2R_2s+1}, \ \frac{1}{C_3s}, \ \frac{1}{C_4s}, \ R_5 + \frac{1}{C_5s}, \ R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_2C_3C_5C_6R_1R_2R_5s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_2 + C_2C_5C_6R_2R_5 + C_3C_5C_6R_1R_5 + C_3C_5C_6R_2R_5 + C_4C_5C_6R_2R_5\right) + s\left(C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2 + C_5C_6R_2\right)}$$

10.575 X-INVALID-ORDER-575 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_6s^2}{C_2C_3C_5C_6R_1R_2R_5R_6s^4 + s^3\left(C_2C_3C_5R_1R_2R_5 + C_2C_3C_6R_1R_2R_6 + C_3C_5C_6R_2R_5R_6 + C_3C_5C_6R_2R_5R_6 + C_4C_5C_6R_2R_5R_6 + C_4C_5C_6R_4R_5R_5 + C_4C_5C_6R_4R_5R_5 + C_4C_5C_6R_4R_5R_5 + C_4C_5C_6R_4R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_5R_5R_5 + C_4C_5C_5C_5R_5R_5 + C_4C_5C_5C_5R_5R_5 + C_4C_5C_5C_5$$

10.576 X-INVALID-ORDER-576 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{C_2C_3C_6R_1R_2R_5R_6s^3 - R_2 + R_5 + s^2\left(C_2C_3R_1R_2R_5 + C_2C_6R_2R_5R_6 + C_3C_6R_1R_5R_6 + C_3C_6R_2R_5R_6 + C_4C_6R_2R_5R_6\right) + s\left(C_2R_2R_5 + C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5 - C_5R_2R_5 - C_6R_2R_6 + C_6R_5R_6\right)}$$

10.577 X-INVALID-ORDER-577 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, R_6\right)$

$$H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{C_2C_3C_4R_1R_2R_4R_5s^3 - R_2 + R_5 + s^2\left(C_2C_3R_1R_2R_5 + C_2C_4R_2R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_2R_4R_5\right) + s\left(C_2R_2R_5 + C_3R_1R_5 + C_3R_2R_5 - C_4R_2R_4 + C_4R_2R_5 + C_4R_4R_5\right)}$$

10.578 X-INVALID-ORDER-578 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_4R_1R_2R_4s + C_3R_1R_2}{C_2C_3C_4C_6R_1R_2R_4R_5s^3 - C_6R_2 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_4C_6R_2R_4R_5 + C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_2R_4 + C_4C_6R_2R_4 + C_4C_6R_4R_4 + C_4C_6R_4R_$$

10.579 X-INVALID-ORDER-579 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6\right)}{C_2C_3C_4C_6R_1R_2R_4R_5s^3 - C_6R_2 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_4C_6R_2R_4R_5 + C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_2R_4 + C_3C_6R_2R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R$$

10.580 X-INVALID-ORDER-580 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

$$H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{C_2C_3C_4C_6R_1R_2R_4R_5R_6s^4 - R_2 + R_5 + s^3\left(C_2C_3C_4R_1R_2R_4R_5 + C_2C_4C_6R_2R_4R_5R_6 + C_3C_4C_6R_1R_4R_5R_6 + C_3C_4C_6R_2R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_2R_5 + C_2C_4R_2R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_2R_4R_5 + C_3C_4R_4R_5R_5 + C_3C_4R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R$$

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10.581 X-INVALID-ORDER-581 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)
                                                                                                                                                                                               H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{C_2C_3C_4R_1R_2R_4s^3 + s^2\left(C_2C_3R_1R_2 + C_2C_4R_2R_4 + C_3C_4R_1R_4 + C_3C_4R_2R_4 - C_4C_5R_2R_4\right) + s\left(C_2R_2 + C_3R_1 + C_3R_2 + C_4R_2 + C_4R_4 - C_5R_2\right) + 1}
10.582 X-INVALID-ORDER-582 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)
                                                                                                                               H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{C_2C_3C_4C_6R_1R_2R_4s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_2 + C_2C_4C_6R_2R_4 + C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_4 - C_4C_5C_6R_2R_4\right) + s\left(C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 + C_4C_6R_4 - C_5C_6R_2\right)}
10.583 X-INVALID-ORDER-583 Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{C_2C_3C_4C_6R_1R_2R_4s^3 + C_6 + s^2\left(C_2C_3C_6R_1R_2 + C_2C_4C_6R_2R_4 + C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_4 - C_4C_5C_6R_2R_4\right) + s\left(C_2C_6R_2 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 + C_4C_6R_4 - C_5C_6R_2\right)}
10.584 X-INVALID-ORDER-584 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_4s^2}{C_2C_3C_4C_6R_1R_2R_4R_6s^4 + s^3\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_6R_1R_2R_6 + C_2C_4C_6R_2R_4R_6 + C_3C_4C_6R_2R_4R_6 + C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_2C_3R_1R_2 + C_2C_4R_2R_4 + C_3C_4R_2R_4 + C_3C_4R_2R_4 + C_3C_6R_2R_4 + C_3C_4R_2R_4 + C_3C_4R_4R_4 + C_3C_4R_4R_
10.585 X-INVALID-ORDER-585 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{C_2C_3C_4C_5R_1R_2R_4R_5s^4 + s^3\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_5R_1R_2R_5 + C_2C_4C_5R_2R_4R_5 + C_3C_4C_5R_2R_4R_5\right) + s^2\left(C_2C_3R_1R_2 + C_2C_4R_2R_4 + C_3C_5R_2R_4 + C_3C_5R_1R_5 + C_3C_5R_2R_5 - C_4C_5R_2R_4 + C_4C_5R_4R_4 + C_
10.586 X-INVALID-ORDER-586 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{C_2C_3C_4C_5C_6R_1R_2R_4 + C_2C_3C_5C_6R_1R_2R_5 + C_2C_4C_5C_6R_2R_4R_5 + C_3C_4C_5C_6R_2R_4R_5 + S^2\left(C_2C_3C_6R_1R_2 + C_2C_4C_6R_2R_4 + C_3C_5C_6R_2R_4 + C_
10.587 X-INVALID-ORDER-587 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{C_2C_3C_4C_5C_6R_1R_2R_4C_5C_6R_1R_2R_4 + C_3C_5C_6R_1R_2R_5 + C_3C_4C_5C_6R_1R_4R_5 + C_3C_4C_5C_6R_2R_4R_5) + s^2\left(C_2C_3C_4C_6R_2R_4 + C_2C_5C_6R_2R_5 + C_3C_4C_6R_1R_4 + C_3C_5C_6R_1R_4R_5 + C_3C_4C_5C_6R_1R_4R_5 + C_3C_4C_5C_6R_2R_4R_5\right) + s^2\left(C_2C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_4 + C_3C_5C_6R_1R_4R_5 + C_3C_4C_5C_6R_2R_4R_5\right) + s^2\left(C_2C_3C_4C_6R_1R_2R_4 + C_3C_5C_6R_1R_4R_5 + C_3C_4C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_5 + C_3C_5C_6R_1R_5 + C_3C_5C_6R_1R_5 + C_3C_5C_6R_1R_5 + C
10.588 X-INVALID-ORDER-588 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
10.589 X-INVALID-ORDER-589 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)
                                                                                             H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_6s + s^2\left(C_3C_4R_1R_2R_4R_6 + C_3C_5R_1R_2R_5R_6\right)}{C_2C_3C_4R_1R_2R_4R_5s^3 - R_2 + R_5 + s^2\left(C_2C_3R_1R_2R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_2R_4R_5 - C_4C_5R_2R_4R_5\right) + s\left(C_2R_2R_5 + C_3R_1R_5 + C_3R_2R_5 - C_4R_2R_4 + C_4R_2R_5 + C_4R_4R_5 - C_5R_2R_5\right)}
10.590 X-INVALID-ORDER-590 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
                  H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5\right)}{C_2C_3C_4C_6R_1R_2R_4R_5s^3 - C_6R_2 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_4C_6R_2R_4R_5 + C_3C_4C_6R_2R_4R_5 - C_4C_5C_6R_2R_4R_5\right) + s\left(C_2C_6R_2R_5 + C_3C_6R_2R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 +
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10.591 X-INVALID-ORDER-591 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                    H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_2 + s^2\left(C_3C_4C_5R_1R_2R_4R_5 + C_3C_4C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_2R_5R_6\right) + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{C_2C_3C_4C_6R_1R_2R_4R_5s^3 - C_6R_2 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_4C_6R_2R_4R_5 + C_3C_4C_6R_2R_4R_5 - C_4C_5C_6R_2R_4R_5\right) + s\left(C_2C_6R_2R_5 + C_3C_6R_1R_2R_5 + C_3C_6R_1R_2R_5 + C_3C_6R_2R_5 + C_3C_6R_2R
10.592 X-INVALID-ORDER-592 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_6s + s^2\left(C_3C_4R_1R_2R_4R_5R_6s^3 + C_3C_4C_6R_1R_4R_5R_6 + C_3C_4C_6R_2R_4R_5R_6 + C_3C_4C_6R_4R
10.593 X-INVALID-ORDER-593 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{C_2 C_3 C_6 R_1 R_2 R_4 R_5 R_6 s^3 - R_2 R_4 + R_2 R_5 + R_4 R_5 + s^2 \left(C_2 C_3 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_4 R_5 R_6 + C_3 C_6 R_1 R_4 R_5 R_6 + C_4 C_6 R_2 R_4 R_5 R_6 \right) + s \left(C_2 R_2 R_4 R_5 + C_3 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 + C_4 R_2 R_4 R_5 + C_6 R_2 R_4 R_6 + C_6 R_2 R_5 R_6 + C_6 R_4 R_5 R_6 \right)}
10.594 X-INVALID-ORDER-594 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
                                                                        H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{C_2C_3C_6R_1R_2R_4R_6s^3 + R_2 + R_4 + s^2\left(C_2C_3R_1R_2R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_1R_4R_6 + C_3C_6R_2R_4R_6 + C_4C_6R_2R_4R_6\right) + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4 + C_6R_2R_4R_6\right)}{c_3C_5R_1R_2R_4R_6s^3 + R_2 + R_4 + s^2\left(C_2C_3R_1R_2R_4 + C_3C_6R_2R_4R_6 + C_3C_6R_2R_4R_6 + C_4C_6R_2R_4R_6\right) + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4 + C_6R_2R_4R_6\right)}
10.595 X-INVALID-ORDER-595 Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                                          H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{C_2C_3C_5R_1R_2R_4R_5s^3 + R_2 + R_4 + s^2\left(C_2C_3R_1R_2R_4 + C_2C_5R_2R_4R_5 + C_3C_5R_1R_4R_5 + C_4C_5R_2R_4R_5\right) + s\left(C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_2R_4 + C_5R_2R_5 + C_5R_4R_5\right)}
10.596 X-INVALID-ORDER-596 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
                                                      \frac{C_3C_5R_1R_2R_4s}{C_2C_3C_5C_6R_1R_2R_4R_5s^3 + C_6R_2 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_2R_4 + C_2C_5C_6R_2R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4R_5\right) + s\left(C_2C_6R_2R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_4 + C_4C_6R_2R_4 + C_5C_6R_2R_4 + C_5C_6R
10.597 X-INVALID-ORDER-597 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
                    H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_2C_3C_6R_1R_2R_4R_5s^3 + C_6R_2 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_2R_4 + C_2C_5C_6R_2R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_4C_5C_6R_2R_4R_5\right) + s\left(C_2C_6R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_5C_6R_2R_4 + C_5C_6
10.598 X-INVALID-ORDER-598 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^4 + R_2 + R_4 + s^3\left(C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + C_3C_5C_6R_2R_4R_5R_6 + C_3C_5C_6R_2R_4R_5R_5 + C_3C_5C_6R_2R_4R_5R_5 + C_3C_5C_6R_5R_5R_5R_5 + C_3C_5C_6R_5R_5R_5R_5 + C_3C_5C_6R_5R_5R_5R_5 + C_3C_5C_5R_5R_5R_5 + C_
```

10.599 X-INVALID-ORDER-599 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{C_2C_3C_6R_1R_2R_4R_5R_6s^3 - R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_2R_4R_5 + C_3C_6R_2R_4R_5R_6 + C_3C_6R_2R_4R_5R_6 + C_4C_6R_2R_4R_5R_6 + C_4C_6R_2R_4R_5R_6 + C_4C_6R_2R_4R_5 + C_3R_4R_5 + C_4R_2R_4R_5 + C_4R_4R_5 + C_4R_5R_5 + C_$

10.600 X-INVALID-ORDER-600 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $C_3R_1R_2R_4R_6s$ $-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_2C_3C_6R_1R_2R_4R_5R_6 + C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_2R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_2C_6R_2R_4R_5R_6 + C_3C_6R_2R_3R_4R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_3R_4R_5 +$

```
10.601 X-INVALID-ORDER-601 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_2C_3C_6R_1R_2R_4R_6 + C_2C_3C_6R_2R_3R_4R_6 - C_3C_5C_6R_2R_3R_4R_6 + C_2C_3R_2R_3R_4 + C_2C_3R_2R_3R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_4R_6 + C_3C_6R_4R_4R_6 + C_3C_6R_4R_4R_6 + C_3C_6R_4R_4R_6 + C_3C_6R_4R_4R_6 + C_3C_6R_4R_6 + 
10.602 X-INVALID-ORDER-602 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, R_6\right)
H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_5R_2R_3R_4R_5\right) + s^2\left(C_2C_3R_1R_2R_4 + C_2C_3R_2R_3R_4 + C_2C_5R_2R_4R_5 + C_3C_5R_2R_3R_4 + C_3C_5R_2R_3R_4 + C_3C_5R_2R_3R_4 + C_3C_5R_2R_4R_5 + C_3C_5R_4R_5 + C_3C_5R_5R_4R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5R_5 + C_3C_5R_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5 +
10.603 X-INVALID-ORDER-603 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_2C_3C_5C_6R_1R_2R_4R_5 + C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_4 + C_3C_5C_6R_3R_3R_4 + C_3C_5C_6R_3R_4 + C_3C_5C_6R_3R_
10.604 X-INVALID-ORDER-604 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_2C_3C_5C_6R_1R_2R_4R_5 + C_2C_3C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_5C_6R_2R_4R_5 + C_3C_5C_6R_2R_3R_4 + C_3C_5C_6R_3R_3R_4 + C_3C_5C_6R_3R_4 + C_3C_5C_5C_6R_3R_4 + C_3C_5C_5C_6R_3R_4 + C_3C_5C_5C_6R_3R_4 + C_3C_5C_5C_6R_3R_4 + C_3C_5C_5C_
10.605 X-INVALID-ORDER-605 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{1}{R_2 + R_4 + s^4 \left( C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_5 + C_2 C_3 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_4 R_6 + C_2 C_3 C_6 R_4 R_5 R_6 + C_2 C_3 C_6 R_4 R_5 R_6 + C_2 C_5 C_6 R_4 R_5 R_6 + C_2 C_5 C_6 R_5 R_5 R_6 + C_2 C_5
10.606 X-INVALID-ORDER-606 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_2C_3C_6R_1R_2R_4R_5R_6 + C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_2R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_3C_6
10.607 X-INVALID-ORDER-607 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s^3 \left(C_2 C_3 C_6 R_1 R_2 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_3 C_4 R_2 R_3 R_5 + C_2 C_3 R_2 R_3 R_5 + C_2 C_6 R_2 R_3 R_5 + C_3 C_6 R_2 R_3 R_6 + C_3 C_6 R_2 R_3 R_6 + C_3 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_5 R_6 + C_3 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_5 R_6 + C_3 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_5 R_6 + C_4 C_6 R_5 R_5 R_6 + C
```

10.608 X-INVALID-ORDER-608 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_2C_3C_6R_1R_2R_6 + C_2C_3C_6R_2R_3R_6 + C_3C_4C_6R_2R_3R_6 - C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_2C_6R_2R_6 + C_3C_4R_2R_3 + C_3C_6R_2R_6 +$

10.609 X-INVALID-ORDER-609 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_2C_3C_5R_1R_2R_5 + C_2C_3C_5R_2R_3R_5 + C_3C_4C_5R_2R_3R_5\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_2C_5R_2R_5 + C_3C_5R_2R_3 + C_3C_5R_2R_5 + C_3C_5R_5R_5 + C_3C_$

10.610 X-INVALID-ORDER-610 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

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10.611 X-INVALID-ORDER-611 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_6 + s^3\left(C_2C_3C_5C_6R_1R_2R_5 + C_2C_3C_5C_6R_2R_3R_5 + C_3C_4C_5C_6R_2R_3 + C_2C_5C_6R_2R_3 + C_3C_5C_6R_2R_3 + C_3C_5C_6R_3R_3 + C_3C_5C_6R_3R_3 + C_3C_5C_6R_3R_3 + C_3C_5C_6R_3R_3 + C_3C_5C_6R_3R_3 + C_3C_5C_6R_3R_3 + C_3C_5C_5C_6R_3R_3 + C_3C_5C_5C_5R_3R_3 + C_3C_5C_5C_5R_3R_3 + C_3C_5C_5C_5R_3R_3 + C_3C_5C_5C_5R_
10.612 X-INVALID-ORDER-612 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{1}{s^4 \left( C_2 C_3 C_5 C_6 R_1 R_2 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_2 C_3 C_5 R_1 R_2 R_5 + C_2 C_3 C_6 R_2 R_3 R_6 + C_2 C_3 C_6 R_2 R_3 R_6 + C_3 C_4 C_5 R_2 R_3 R_5 + C_3 C_4 C_5 R_2 R_3 R_6 + C_3 C_5 C_6 R_2 R_3 R_5 + C_3 C_5 C_6 R_2 R_3 R_5 + C_3 C_5 C_6 R_2 R_5 R_5 + C_5 C_6 R_2 R_5 R_5 + C_5 C_6 R_5 R_5 R_5 + C_5 C_6 R_5 R_5 R_5 + C_5 C_6
10.613 X-INVALID-ORDER-613 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_2C_3C_6R_1R_2R_5R_6 + C_2C_3C_6R_2R_3R_5R_6 + C_3C_5C_6R_2R_3R_5R_6 + C_3C_6R_2R_3R_5R_6 + C_3C_6R_2R_3R_5R_6 + C_3C_6R_2R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C
10.614 X-INVALID-ORDER-614 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, R_6\right)
H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_2C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_2R_3R_4R_5\right) + s^2\left(C_2C_3R_1R_2R_5 + C_2C_3R_2R_3R_5 + C_2C_4R_2R_4R_5 + C_3C_4R_2R_3R_4 + C_3C_4R_2R_4R_5 + C_3C_4R_4R_4R_5 + C_3C_4R_4R_5 + C_3C_4R_5 + 
10.615 X-INVALID-ORDER-615 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_4R_1R_2R_4s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^3\left(C_2C_3C_4C_6R_1R_2R_4R_5 + C_2C_3C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_4C_6R_2R_4R_5 + C_3C_4C_6R_2R_3R_4 + C_3C_4C_6R_2R_3R_5 + C_3C_4C_6R_3R_5 + C_3C_4C_6R_5R_5 + C_3C_4C_6
10.616 X-INVALID-ORDER-616 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^3\left(C_2C_3C_4C_6R_1R_2R_4R_5 + C_2C_3C_4C_6R_2R_3R_5 + C_2C_3C_6R_1R_2R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_4C_6R_2R_4R_5 + C_3C_4C_6R_2R_3R_4 + C_3C_4C_6R_2R_3R_5 + C_3C_4C_6R_3R_3R_5 + C_3C_4C_6R_3R_5 + 
10.617 X-INVALID-ORDER-617 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)
10.618 X-INVALID-ORDER-618 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)
                                      \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^3\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_4R_2R_3R_4 - C_3C_4C_5R_2R_3R_4\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_2C_4R_2R_4 + C_3C_4R_2R_4 + C_3C_4R_2R_4 + C_3C_4R_3R_4 - C_3C_5R_2R_3 - C_4C_5R_2R_4\right) + s\left(C_2R_2 + C_3R_1 + C_3R_2 + C_4R_4 - C_5R_2\right) + 1}{s^3\left(C_2C_3C_4R_1R_2R_4 + C_3C_4R_2R_4 + C_3C_4R_4R_4 + C_3C_4R_4 + C_3C_4R_4
10.619 X-INVALID-ORDER-619 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)
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 $H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{C_6 + s^3\left(C_2C_3C_4C_6R_1R_2R_4 + C_2C_3C_4C_6R_2R_3R_4 - C_3C_4C_5R_2R_3R_4 + S^2\left(C_2C_3C_6R_1R_2 + C_2C_3C_6R_2R_3 + C_2C_4C_6R_2R_4 + C_3C_4C_6R_2R_4 + C_3C_4C_6R_4 +$ 10.620 X-INVALID-ORDER-620 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s$

 $C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6)$ $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{C_6 + s^3\left(C_2C_3C_4C_6R_1R_2R_4 + C_2C_3C_4C_6R_2R_3R_4 - C_3C_4C_5R_2R_3R_4\right) + s^2\left(C_2C_3C_6R_1R_2 + C_2C_3C_6R_2R_3 + C_2C_4C_6R_2R_4 + C_3C_4C_6R_2R_4 + C_3C_4C_6R_4R_4 +$

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10.621 X-INVALID-ORDER-621 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
```

 $H(s) = \frac{1}{s^4 \left(C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_6 + C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_6 - C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_6 + C_2 C_3 C_4 R_1 R_2 R_4 + C_2 C_3 C_4 R_1 R_2 R_4 + C_2 C_3 C_6 R_1 R_2 R_6 + C_2 C_3 C_6 R_2 R_3 R_6 + C_3 C_4 C_6 R_2 R_3 R_4 + C_3 C_4 C_6 R_3 R_4 + C_3$

10.622 X-INVALID-ORDER-622
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$$

 $\overline{s^4 \left(C_2 C_3 C_4 C_5 R_1 R_2 R_4 R_5 + C_2 C_3 C_4 C_5 R_2 R_3 R_4 R_5 \right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 + C_2 C_3 C_5 R_1 R_2 R_5 + C_2 C_3 C_5 R_2 R_3 R_5 + C_2 C_4 C_5 R_2 R_4 R_5 + C_3 C_4 C_5 R_2 R_3 R_4 + C_3 C_4 C_5 R_3 R_4 + C_3 C_4 C_5 R_3 R_4 + C_3 C_4 C_5 R_4 R_5 + C_3 C_4 C_5 R_5 R_5 + C_3 C_5 R_5 R_5 + C_3 C_5 R_5 R_5 + C_5 C_5 R$

10.623 X-INVALID-ORDER-623
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_2 C_3 C_4 C_5 R_2 R_3 R_4 + C_2 C_3 C_4 C_5 R_2 R_3 R_4 + C_2 C_3 C_5 C_6 R_2 R_3 R_4 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 + C_2 C_4 C_5 C_6 R_2 R_3 R_5 + C_2 C_4 C_5 C_6 R_2 R_3 R_4 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_3 C_4 C_5 C_6 R_2 R_5 R_5 + C_3 C_4 C_5 C_6 R_2 R_5 R_5 + C_3 C_4 C_5 C_6 R_5 R_5 + C_3 C_5 C_6 R_5 R_5 + C_5 C_5 R$

10.624 X-INVALID-ORDER-624
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_2 C_3 C_4 C_6 R_2 R_3 R_4 + C_2 C_3 C_5 C_6 R_1 R_2 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_5 + C_2 C_4 C_5 C_6 R_2 R_3 R_5 + C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_3 C_4 C_5 C_6 R_2 R_5 R_5 + C_3 C_5 C_6 R_5 R_5 R_5 + C_5 C_5 R_5 R_5 + C_5 C_5 R_5 R_5 + C_5 C_5 R_5 R_5 + C_5 C_5$

10.625 X-INVALID-ORDER-625
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$$

10.626 X-INVALID-ORDER-626
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_6s + s^2\left(C_3C_4R_1R_2R_4R_6 + C_3C_5R_1R_2R_5R_6\right)}{-R_2 + R_5 + s^3\left(C_2C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_2R_3R_4R_5 - C_3C_4R_2R_3R_4R_5 + C_2C_4R_2R_4R_5 + C_3C_4R_2R_3R_4 + C_3C_4R_2R_3R_4 + C_3C_4R_2R_4R_5 + C_3C_4R_4R_4R_5 + C_3C_4R_4R_5 + C_3$

10.627 X-INVALID-ORDER-627
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5\right)}{-C_6R_2 + C_6R_5 + s^3\left(C_2C_3C_4C_6R_1R_2R_4 + C_3C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_4C_6R_2R_3R_5 + C_2C_4C_6R_2R_3R_4 + C_3C_4C_6R_2R_3R_5 + C_3C_4C_6R_2R_3R_4 + C_3C_4C_$

10.628 X-INVALID-ORDER-628
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_2 + s^2\left(C_3C_4C_5R_1R_2R_4R_5 + C_3C_4C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_2R_5R_6\right) + s\left(C_3C_4R_1R_2R_4R_5 + C_3C_4C_6R_2R_3R_4R_5 + C_3C_4C_6R_2R_3R_4 + C_3C_4C_6R_2R_4R_5 + C_3C_4C_6R_2R_4$

10.629 X-INVALID-ORDER-629
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{-R_2 + R_5 + s^4 \left(C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 - C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_1 R_2 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 - C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_3 C_4 C_6 R_2 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_1 R_2 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 - C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_3 C_4 C_6 R_2 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_1 R_2 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 - C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_3 C_4 C_6 R_2 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 - C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_3 C_4 C_6 R_2 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 - C_3 C_4 C_5 R_2 R_3 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 - C_3 C_4 C_5 R_2 R_3 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6 - C_3 C_4 C_5 R_2 R_3 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_4 R_5 R_6 + C_2 C_3 C_6 R_2 R_3 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_4 R_5 R_6 + C_2 C_3 C_6 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_4 R_5 R_6 + C_2 C_3 C_6 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_4 R_5 R_6 + C_2 C_3 C_6 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_4 R_5 R_6 + C_2 C_3 C_6 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_4 R_5 R_6 + C_2 C_3 C_6 R_4 R_5 R_6\right) + s^3 \left(C_2 C_3 C_4 R_5 R_5 R_6 + C_2 C_3 C_6 R_5 R_5 R_5\right) + s^3 \left(C_2 C_3 C_4 R_5 R_5 R_5 + C_2 C_5 C_6 R_5 R_5 R_5\right) + s^3 \left(C_2 C_3 C_4 R_5 R_5 R_5 + C_2 C_5 C_6 R_5 R_5 R_5\right) + s^3 \left(C_2 C_3 C_4 R_5 R_5 R_5 + C_2 C_5 C_5 R_5 R_5\right) + s^3 \left(C_2 C_5 R_5 R_5 R_5 R_5 + C_2 C_5 R_5 R_5\right) + s^3 \left(C_2 C_5 R_5 R_5 R_5 R_$

10.630 X-INVALID-ORDER-630
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)$$

 $-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_2C_3C_6R_1R_2R_4R_5R_6 + C_2C_3C_6R_2R_3R_4R_5R_6 + C_3C_4C_6R_2R_3R_4R_5R_6 + C_3C_4R_2R_3R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_2C_3R_3R_4R_5 + C_2C_3R_3R_4R_5$

10.631 X-INVALID-ORDER-631 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$ $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_2C_3C_6R_1R_2R_4R_6 + C_2C_3C_6R_2R_3R_4R_6 + C_3C_4C_6R_2R_3R_4R_6 + C_3C_5C_6R_2R_3R_4R_6 + C_3C_6R_2R_3R_4 + C_2C_3R_2R_3R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_2R_3R_4 + C_3C_6R_3R_4R_4 + C_3C_6R_2R_3R_4 + C_3C_6R_3R_4R_4 + C_3C_6R_3$

10.632 X-INVALID-ORDER-632 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_5R_2R_3R_4R_5 + C_3C_4R_2R_3R_4 + C_2C_5R_2R_4R_5 + C_3C_5R_2R_3R_4 + C_3C_5R_3R_4R_5 + C_3$

10.633 X-INVALID-ORDER-633 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_2C_3C_5C_6R_1R_2R_4R_5 + C_2C_3C_5C_6R_2R_3R_4R_5 + C_3C_4C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_5 + C_3C_$

10.634 X-INVALID-ORDER-634 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_2C_3C_5C_6R_1R_2R_4R_5 + C_2C_3C_5C_6R_2R_3R_4R_5 + C_3C_4C_5R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_4 + C_$

10.635 X-INVALID-ORDER-635 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_2 + R_4 + s^4 \left(C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_3 C_4 C_5 R_2 R_3 R_4 R_5 R_6 + C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_2 C_3 C_5 R_5 R_5 + C_2 C_5 R_5 R_5 R_5 +$

10.636 X-INVALID-ORDER-636 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5I}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_2C_3C_6R_1R_2R_4R_5R_6 + C_2C_3C_6R_2R_3R_4R_5R_6 + C_3C_4C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_2C_3R_1R_2R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_2C_6R_2R_4R_5R_6 + C_3C_4R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_3C_6R_5R_5R_5 + C_3$

10.637 X-INVALID-ORDER-637 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_3 R_4 s + R_1 R_2 R_4}{C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 s^3 + s^2 \left(C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5 + C_3 C_6 R_1 R_3 R_4 R_5 \right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5 \right)}$

10.638 X-INVALID-ORDER-638 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_6R_1R_2R_3R_4R_6s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_6R_1R_2R_4R_6\right)}{C_2C_3C_6R_1R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$

10.639 X-INVALID-ORDER-639 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)$

10.640 X-INVALID-ORDER-640 $Z(s) = \left(R_1, \ \frac{R_2}{C_2R_2s+1}, \ \frac{R_3}{C_3R_3s+1}, \ R_4, \ \frac{1}{C_5s}, \ \frac{R_6}{C_6R_6s+1}\right)$

 $C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s$

 $\frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{C_2C_3C_6R_1R_2R_3R_4R_6s^3 + R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_6R_1R_2R_4R_6 + C_3C_6R_2R_3R_4R_6\right) + s\left(C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_3R_3R_4 + C_3R_3R_4$

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10.642 X-INVALID-ORDER-642 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4}{C_2C_3C_5C_6R_1R_2R_3R_4S^3 + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + S^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_2C_5C_6R_1R_2R_4R_5 + C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_1R_2R_4R_5 + C_3C_5C_6R_1R_2R_4 + C_3C_6R_1R_2R_4 + C_3C_
10.643 X-INVALID-ORDER-643 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_2C_3C_5C_6R_1R_2R_3R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_2C_5C_6R_1R_2R_4R_5 + C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_1R_2R_4R_5 + C_3C_5C_6R_1R_3R_4 + C_3C_5C_6R
10.644 X-INVALID-ORDER-644 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
                                  \overline{C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^3\left(C_2C_3C_5R_1R_2R_3R_4R_5 + C_2C_5C_6R_1R_2R_4R_5R_6 + C_2C_5C_6R_1R_3R_4R_5R_6 + C_3C_5C_6R_2R_3R_4R_5R_6 + C_3C_5C_6R_3R_3R_4R_5R_5 + C_3C_5C_6R_3R_3R_4R_5R_5 + C_3C_5C_6R_3R_3R_4R_5R_5 + C_3C_5C_6R_3R_3R_4R_5R_5 + C_3C_5C_6R_3R_3R_4R_5 + C_3C_5C_6R_3R_3R_4R_5 + C_3C_5C_6R_3R_3R_4R_5 + C_3C_5C_6R_3R_3R_4R_5 + C_3C_5C_6R_3R_3R_4R_5 + C_3C_5C_6R_3R_3R_4R_5 + C_3C_5C_6R_3R_3R_5C_5C_5R_5R_5R_5 + C_3C_5C_5R_5R_5R_5C_5C_5R_5R_5R_5R_5 + C_3C_5C_5R_5R_5R_5C_5C_5R_5R_5R_5C_5C_5R_5R_5R_5C_5C_5R_5R_5R_5C_5C_5R_5
10.645 X-INVALID-ORDER-645 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
                                                                                                             H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5\right)}{C_2C_3C_6R_1R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_3C_6R_1R_3R_4R_5 + C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}
10.646 X-INVALID-ORDER-646 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                                                                                                             H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_4 + s^2\left(C_3C_5R_1R_2R_3R_4R_5 + C_3C_6R_1R_2R_3R_4R_6 + C_5C_6R_1R_2R_4R_5R_6\right) + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{C_2C_3C_6R_1R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}
10.647 X-INVALID-ORDER-647 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)}{C_2C_3C_6R_1R_2R_3R_4R_5 + R_2R_4R_5 + R_2R_4R_5
10.648 X-INVALID-ORDER-648 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)
                                                                                                                                                                                                      H(s) = \frac{C_3 R_1 R_2 R_3 s + R_1 R_2}{C_2 C_3 C_6 R_1 R_2 R_3 R_5 s^3 + s^2 \left(C_2 C_6 R_1 R_2 R_5 + C_2 C_6 R_2 R_3 R_5 + C_3 C_6 R_1 R_3 R_5 + C_3 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5\right)}
10.649 X-INVALID-ORDER-649 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                      H(s) = \frac{C_3C_6R_1R_2R_3R_6s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_6R_1R_2R_6\right)}{C_2C_3C_6R_1R_2R_3R_5s^3 + s^2\left(C_2C_6R_1R_2R_5 + C_2C_6R_2R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}
10.650 X-INVALID-ORDER-650 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_3R_1R_2R_3R_6s + R_1R_2R_6
                                  \frac{C_{3}R_{1}R_{2}R_{3}R_{6}s + R_{1}R_{2}R_{6}}{C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{5}R_{6}s^{3} + R_{1}R_{5} - R_{2}R_{3} + R_{2}R_{5} + R_{3}R_{5} + s^{2}\left(C_{2}C_{3}R_{1}R_{2}R_{3}R_{5} + C_{2}C_{6}R_{1}R_{2}R_{3}R_{5}R_{6} + C_{3}C_{6}R_{2}R_{3}R_{5}R_{6} + C_{4}C_{6}R_{2}R_{3}R_{5}R_{6} + C_{4}C_{6}R_{2}R_{3}R_{5} + C_{4}R_{2}R_{3}R_{5} +
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 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{C_2C_3C_5R_1R_2R_3R_4R_5s^3 + R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_5R_1R_2R_4R_5 + C_2C_5R_2R_3R_4R_5 + C_3C_5R_1R_3R_4R_5 + C_3C_5R_1R_3R_4 + C_3R_1R_3R_4 + C_3R_1R_3R_4 + C_5R_1R_4R_5 - C_5R_2R_3R_4 + C_5R_1R_3R_4 + C_$

10.641 X-INVALID-ORDER-641 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, R_6\right)$

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10.651 X-INVALID-ORDER-651 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{C_2C_3C_6R_1R_2R_3R_6s^3 + R_1 + R_2 + R_3 + s^2\left(C_2C_3R_1R_2R_3 + C_2C_6R_1R_2R_6 + C_3C_6R_1R_3R_6 + C_3C_6R_2R_3R_6\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 - C_5R_2R_3 + C_6R_1R_6 + C_6R_2R_6 + C_6R_2R_3R_6\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 - C_5R_2R_3 + C_6R_1R_6 + C_6R_2R_6 + C_6R_2R_3R_6\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 - C_5R_2R_3 + C_6R_1R_6 + C_6R_2R_6 + C_6R_2R_3R_6\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_4R_2R_3 + C_6R_1R_3R_6 + C_6R_2R_3R_6\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_3R_6 + C_4R_2R_3 + C_4R_3R_3 
10.652 X-INVALID-ORDER-652 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)
                                       \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{C_2C_3C_5R_1R_2R_3R_5s^3 + R_1 + R_2 + R_3 + s^2\left(C_2C_3R_1R_2R_3 + C_2C_5R_1R_2R_5 + C_2C_5R_2R_3R_5 + C_3C_5R_1R_3R_5 + C_4C_5R_2R_3R_5\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 + C_5R_1R_5 - C_5R_2R_3 + C_5R_2R_5 + C_5R_3R_5\right)}
10.653 X-INVALID-ORDER-653 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5R_1R_2R_3s + C_5R_1R_2}{C_2C_3C_5C_6R_1R_2R_3R_5s^3 + C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_2C_3C_6R_1R_2R_3 + C_2C_5C_6R_2R_3R_5 + C_3C_5C_6R_1R_3R_5 + C_3C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_3 + C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_4C_6R_2R_3 + C_5C_6R_1R_3 + C_5C_
10.654 X-INVALID-ORDER-654 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5C_6R_1R_2R_3R_6s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_5C_6R_1R_2R_3 + C_5C_6R_1R_2R_6\right)}{C_2C_3C_5C_6R_1R_2R_3R_5s^3 + C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_2C_3C_6R_1R_2R_3 + C_2C_5C_6R_1R_2R_5 + C_3C_5C_6R_1R_3R_5 + C_3C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_3 + C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_4C_6R_2R_3 + C_4C_6R_2R_3 + C_5C_6R_1R_3 
10.655 X-INVALID-ORDER-655 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
10.656 X-INVALID-ORDER-656 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
                                                                                                                                            H(s) = \frac{C_3C_5R_1R_2R_3R_5s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_5R_1R_2R_5\right)}{C_2C_3C_6R_1R_2R_3R_5s^3 + s^2\left(C_2C_6R_1R_2R_5 + C_2C_6R_2R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5 - C_5C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}
10.657 X-INVALID-ORDER-657 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                           H(s) = \frac{C_3C_5C_6R_1R_2R_3R_5R_6s^3 + R_1R_2 + s^2\left(C_3C_5R_1R_2R_3R_5 + C_3C_6R_1R_2R_3R_6 + C_5C_6R_1R_2R_5R_6\right) + s\left(C_3R_1R_2R_3 + C_5R_1R_2R_5 + C_6R_1R_2R_6\right)}{C_2C_3C_6R_1R_2R_3R_5s^3 + s^2\left(C_2C_6R_1R_2R_5 + C_2C_6R_2R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5 - C_5C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_3 + C_6R_2R_3 + C_6R_3R_5\right)}
10.658 X-INVALID-ORDER-658 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
                            \frac{C_{3}C_{5}R_{1}R_{2}R_{3}R_{5}R_{6}s^{2}+R_{1}R_{2}R_{6}+s\left(C_{3}R_{1}R_{2}R_{3}R_{6}+C_{5}R_{1}R_{2}R_{5}R_{6}\right)}{C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{5}+S^{2}\left(C_{2}C_{3}R_{1}R_{2}R_{3}R_{5}+C_{2}C_{6}R_{1}R_{2}R_{5}R_{6}+C_{3}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{3}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{4}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{5}+C_{5}C_{6}R_{2}R_{3}R_{5}+C_{5}C_{6}R_{2}R_{3}R_{5}+C_{5}C_{6}R_{2}R_{3}R_{5}+C_{5}C_{6}R_{2}R_{3}R_{5}+C_{5}C_{6}R_{2}R_{
10.659 X-INVALID-ORDER-659 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, R_6\right)
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10.660 X-INVALID-ORDER-660 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_4R_1R_2R_3R_4R_6s^2 + R_1R_2R_6 + s\left(C_3R_1R_2R_3R_6 + C_4R_1R_2R_4R_6\right)}{C_2C_3C_4R_1R_2R_3R_4R_5s^3 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_2C_3R_1R_2R_3R_5 + C_2C_4R_1R_2R_4R_5 + C_2C_4R_1R_3R_4R_5 + C_3C_4R_1R_3R_4R_5 + C_3C_4R_1R_3R_4 + C_3C_4R_1R_3R_4$

 $H(s) = \frac{C_3C_4R_1R_2R_3R_4s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_4R_1R_2R_4\right)}{C_2C_3C_4C_6R_1R_2R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_2R_3R_5 + C_2C_4C_6R_1R_2R_4R_5 + C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_2R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_2R_3R_5 + C_2C_4C_6R_1R_2R_4R_5 + C_3C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_4$

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H(s) = \frac{C_3C_4C_6R_1R_2R_3R_4R_6s^3 + R_1R_2 + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_6R_1R_2R_3R_6 + C_4C_6R_1R_2R_4R_6\right) + s\left(C_3R_1R_2R_3 + C_4R_1R_2R_4 + C_6R_1R_2R_6\right)}{C_2C_3C_4C_6R_1R_2R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_2R_3R_5 + C_2C_4C_6R_1R_2R_4R_5 + C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R_2R_3R_4 + C_3C_6R_1R_2R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_1R_3
10.662 X-INVALID-ORDER-662 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)
10.663 X-INVALID-ORDER-663 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)
          H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_2R_6s + s^2\left(C_3C_5R_1R_2R_3R_6 + C_4C_5R_1R_2R_4R_6\right)}{C_2C_3C_4R_1R_2R_3R_4s^3 + R_1 + R_2 + R_3 + s^2\left(C_2C_3R_1R_2R_3 + C_2C_4R_1R_2R_4 + C_3C_4R_1R_3R_4 + C_3C_4R_1R_3R_4 + C_3C_4R_1R_3R_4 + C_3C_4R_1R_3R_4 + C_3C_4R_1R_3R_4 + C_3C_4R_1R_3R_4 + C_4C_5R_2R_3R_4\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_1R_4 + C_4R_2R_3 + C_4R_1R_4 + C_4R_2R_4 + C_4R_3R_4 + C_5R_2R_3\right)}{C_3C_3C_4R_1R_2R_3R_4s^3 + R_1 + R_2 + R_3 + s^2\left(C_3C_3R_1R_2R_3 + C_3C_4R_1R_3R_4 + C_3C_
10.664 X-INVALID-ORDER-664 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)
                              10.665 X-INVALID-ORDER-665 Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
10.666 X-INVALID-ORDER-666 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
                              \frac{C_{3}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}s^{4} + R_{1} + R_{2} + R_{3} + s^{3}\left(C_{2}C_{3}C_{4}R_{1}R_{2}R_{3}R_{4} + C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{6} + C_{2}C_{4}C_{6}R_{2}R_{3}R_{4}R_{6} + C_{3}C_{4}C_{6}R_{2}R_{3}R_{4}R_{6} + C_{3}C_{4}C_{6}R_{2}R_{3}
10.667 X-INVALID-ORDER-667 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_5s^2}{C_2C_3C_4C_5R_1R_2R_3R_4R_5s^4 + R_1 + R_2 + R_3 + s^3\left(C_2C_3C_4R_1R_2R_3R_4 + C_2C_3C_5R_1R_2R_3R_4 + C_2C_4C_5R_1R_2R_3R_4 + C_2C_4C_5R_1R_2R_3R_4 + C_2C_4C_5R_1R_2R_3R_4 + C_2C_4R_1R_2R_3 + C_2C_4R_1R_2
10.668 X-INVALID-ORDER-668 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
                              10.669 X-INVALID-ORDER-669 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_2C_3C_4C_6R_1R_2R_3R_4 + C_2C_3C_5C_6R_1R_2R_3R_4 + C_2C_4C_5C_6R_1R_2R_3R_4 +
10.670 X-INVALID-ORDER-670 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
                             \overline{C_{2}C_{3}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}s^{5} + R_{1} + R_{2} + R_{3} + s^{4}\left(C_{2}C_{3}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}C_{3}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6} + C_{2}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6} + C_{3}C_{4}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}R_{6} + C_{3}C_{4}C_{5}C_{6}R_{
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10.661 X-INVALID-ORDER-661 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)$

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10.671 X-INVALID-ORDER-671 Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_6 + s^2\left(C_3C_4R_1R_2R_3R_4R_6 + C_3C_5R_1R_2R_3R_5R_6 + C_4C_5R_1R_2R_3R_6 + C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)}{C_2C_3C_4R_1R_2R_3R_4R_5s^3 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_2C_3R_1R_2R_3R_4R_5 + C_2C_4R_1R_2R_4R_5 + C_3C_4R_1R_3R_4R_5 + C_3C_4R_1R_2R_3R_4R_5\right) + s\left(C_3R_1R_2R_3R_6 + C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)}
10.672 X-INVALID-ORDER-672 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_5s^3 + R_1R_2 + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_4R_5\right) + s\left(C_3R_1R_2R_3 + C_4R_1R_2R_4 + C_5R_1R_2R_5\right)}{C_2C_3C_4C_6R_1R_2R_3R_4R_5s^4 + s^3\left(C_2C_3C_6R_1R_2R_3R_5 + C_2C_4C_6R_1R_2R_4R_5 + C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_3C_6R_1R_3R_4 + C_3C_4C_6R_1R_3R_4R_5\right) + s^2\left(C_2C_6R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R_3R_4R_5\right) + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_4R_1R_2R_3R_5 + C_3C_4C_6R_1R_3R_4R_5\right) + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_4R_1R_2R_3R_5 + C_3C_4R_1R_2R_3R_5 + C_3C_4R_1R_2R_3R_5\right) + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_4R_1R_2R_4 + C_3C_4R_1R_2R_4\right) + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_4R_1R_2R_4\right) + s^2\left(C_3C_4R_1R_2R_4R_5 + C_3C_4R_1R_2R_4\right) + s^2\left(C_3C_4R_1R_2R_4R_5 + C_3C_4R_1R_2R_4\right) + s^2\left(C_3C_4R_1R_2R_4R_5 + C_3C_4R_1R_2R_4\right) + s^2\left(C_3C_4R_1R_2R_4 + C_3C_4R_1R_2R_4\right) + s^2\left(C_3C_4R_1R_2R_4R_5 + C_3C_4R_1R_4R_5\right) + s^2\left(C_3C_4R_1R_2R_4 + C_3C_4R_1R_4R_5\right) + s^2\left(C_3C_4R_1R_2R_4 + C_3C_4R_1R_4R_5\right) + s^2\left(C_3C_4R_1R_4R_5 + C_3C_4R_4R_5\right) + s^2\left(C_3C_4R_1R_4R_5 + C_3C_4C_4R_4R_5\right) + s^2\left(C_3C_4R_4R_5\right) + s^2\left(C_3C_4R_4R_4R_5\right) + s^2\left(C_3C_4R_4R_4R_5\right) + s^2\left(C_3C_4R_4R_4R_5\right) + s^2\left(C_3C_4R_4R_4R_5\right) + s^2\left(C_3C_4R_4R_5\right) + s^2\left(C_3C_4R_4R_5\right) + s^2\left(C_3C_4R_4R_5\right) + s^2\left(C_3C_4R_4R
10.673 X-INVALID-ORDER-673 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_5F_6s^4 + R_1R_2 + s^3\left(C_3C_4C_5R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_2R_3R_4F_6 + C_4C_5C_6R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_3C_6R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_3C_6R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_5 +
10.674 X-INVALID-ORDER-674 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
                           \overline{C_2C_3C_4C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(C_2C_3C_4R_1R_2R_3R_4R_5 + C_2C_4C_6R_1R_2R_3R_4R_5R_6 + C_2C_4C_6R_1R_3R_4R_5R_6 + C_3C_4C_6R_1R_3R_4R_5R_6 + C_3C_4C_6R_2R_3R_4R_5R_6 + C_3C_4C_6R_3R_3R_4R_5R_6 + C_3C_4C_6R_3R_3R_5R_6 + C_3C_4C_6R_3R_5R_5 + C_3C_4C_6R_3R_5R_5 + C_3C_5
10.675 X-INVALID-ORDER-675 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)
                                                                                     H(s) = \frac{C_3R_1R_2R_3R_4s + R_1R_2R_4}{C_2C_3C_6R_1R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_3C_6R_1R_3R_4R_5 + C_4C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}
10.676 X-INVALID-ORDER-676 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_6s}\right)
                                                                                     H(s) = \frac{C_3C_6R_1R_2R_3R_4R_6s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_6R_1R_2R_4R_6\right)}{C_2C_3C_6R_1R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_3C_6R_1R_3R_4R_5 + C_4C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}
10.677 X-INVALID-ORDER-677 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6
10.678 X-INVALID-ORDER-678 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
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 $\frac{C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{6}s^{2}+C_{5}R_{1}R_{2}R_{3}R_{4}R_{6}s^{2}+C_{5}R_{1}R_{2}R_{4}R_{6}s}{C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}+C_{3}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{4}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5$

10.679 X-INVALID-ORDER-679 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{C_2C_3C_5R_1R_2R_3R_4R_5s^3 + R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_5R_1R_2R_4R_5 + C_3C_5R_1R_3R_4R_5 + C_4C_5R_2R_3R_4R_5\right) + s\left(C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 + C_4R_3R_4R_4 + C_4R_2R_3R_4 + C_4R_2R_3R_4 + C_4R_3R_4R_4 + C_4R_2R_3R_4 + C_4R_2R_3R_4 + C_4R_2R_3R_4 + C_4R_2R_3R_4 + C_4R_3R_4R_4 + C_4R_2R_3R_4 + C_4R_3R_4 + C_4R_3R_4$

10.680 X-INVALID-ORDER-680 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4$

 $\frac{C_3C_5R_1R_2R_3R_4R_5r^3 + C_6R_1R_4 + C_6R_2R_3 + C_6R_1R_2R_3R_4 + C_2C_5C_6R_1R_2R_3R_4 + C_2C_5C_6R_1R_2R_4R_5 + C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_2R_3R_4R_5 + C_4C_5C_6R_2R_3R_4R_5 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_$

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10.681 X-INVALID-ORDER-681 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
```

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_2C_3C_5C_6R_1R_2R_3R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_2C_5C_6R_1R_2R_4R_5 + C_3C_5C_6R_2R_3R_4R_5 + C_4C_5C_6R_2R_3R_4R_5 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_4R_5R_5 + C_4C_5C_6R_4R_5R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_6R_5R_5R_5 + C_4C_5C_6R_5R_5 + C_5C_5C_6R_5R_5 + C_5C_5C_6R_5R_5 + C_5C_5C_6R_5R_5 + C_5C_5C_6R$

10.682 X-INVALID-ORDER-682 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $\overline{C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}s^{4}+R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}+s^{3}\left(C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}R_{6}+C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}R_{6}+C_{3}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{3}C_{$

10.683 X-INVALID-ORDER-683 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5\right)}{C_2C_3C_6R_1R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_3R_4 + C_6R_3R_4 + C_6R_3R_4 + C_6R_3R_4 + C_6R_3R_4 + C_6R_3R_4 + C_6R_$

10.684 X-INVALID-ORDER-684 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_4 + s^2\left(C_3C_5R_1R_2R_3R_4R_5 + C_3C_6R_1R_2R_3R_4R_6 + C_5C_6R_1R_2R_4R_5R_6\right) + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{C_2C_3C_6R_1R_2R_3R_4R_5s^3 + s^2\left(C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_3R_4 + C_6R_3R$

10.685 X-INVALID-ORDER-685 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6)$

10.686 X-INVALID-ORDER-686 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, R_5, R_6\right)$

$$H(s) = \frac{R_2 R_4 R_6}{R_4 R_5 + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5\right)}$$

10.687 X-INVALID-ORDER-687 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{R_2 R_4}{C_6 R_4 R_5 s + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5\right)}$$

10.688 X-INVALID-ORDER-688 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_6 R_2 R_4 R_6 s + R_2 R_4}{C_6 R_4 R_5 s + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5\right)}$$

10.689 X-INVALID-ORDER-689 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_2 R_4 R_6 s}{-C_1 C_5 C_6 R_2 R_3 R_4 R_6 s^3 + R_4 + s^2 \left(-C_1 C_5 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_4 R_6 + C_1 C_6 R_3 R_4 R_6\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_6 R_4 R_6\right)}$$

10.690 X-INVALID-ORDER-690 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_{5}R_{2}R_{4}R_{6}s}{R_{4}+s^{3}\left(-C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{4}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{2}R_{3}R_{5}+C_{1}C_{5}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{4}R_{6}+C_{1}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{5}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{2}R_{3}R_{6}+C_{1}C_{5}R_{2}R_{3}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{5}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{2}R_{3}R_{6}+C_{1}C_{5}R_{2}R_{3}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{5}R_{2}R_{3}R_{6}+C_{1}C_{5}$

10.691 X-INVALID-ORDER-691
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_2 R_4 R_5 s + R_2 R_4}{-C_1 C_5 C_6 R_2 R_3 R_4 R_5 s^3 + C_6 R_4 R_5 s + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_2 R_4 R_5\right)}$$

10.692 X-INVALID-ORDER-692
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_2R_4R_5R_6s^2 + R_2R_4 + s\left(C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{-C_1C_5C_6R_2R_3R_4R_5s^3 + C_6R_4R_5s + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5\right)}$$

10.693 X-INVALID-ORDER-693
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_5 R_2 R_4 R_5 R_6 s + R_2 R_4 R_6}{-C_1 C_5 C_6 R_2 R_3 R_4 R_5 R_6 s^3 + R_4 R_5 + s^2 \left(-C_1 C_5 R_2 R_3 R_4 R_5 - C_1 C_6 R_2 R_3 R_4 R_6 + C_1 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 R_6 \right) + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 \right)}$$

10.694 X-INVALID-ORDER-694
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{R_2}{C_1 C_4 C_6 R_2 R_3 R_5 s^3 + C_6 R_5 s + s^2 \left(-C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 \right)}$$

10.695 X-INVALID-ORDER-695
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_6R_2R_6s + R_2}{C_1C_4C_6R_2R_3R_5s^3 + C_6R_5s + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5\right)}$$

10.696 X-INVALID-ORDER-696
$$Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3, \ \frac{1}{C_4 s}, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{R_2 R_6}{C_1 C_4 C_6 R_2 R_3 R_5 R_6 s^3 + R_5 + s^2 \left(C_1 C_4 R_2 R_3 R_5 - C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_3 R_5 R_6\right) + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_6 R_5 R_6\right)}$$

10.697 X-INVALID-ORDER-697
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_5 R_2 R_6 s}{s^3 \left(C_1 C_4 C_6 R_2 R_3 R_6 - C_1 C_5 C_6 R_2 R_3 R_6\right) + s^2 \left(C_1 C_4 R_2 R_3 - C_1 C_5 R_2 R_3 + C_1 C_6 R_2 R_6 + C_1 C_6 R_3 R_6\right) + s \left(C_1 R_2 + C_1 R_3 + C_6 R_6\right) + 1}$$

10.698 X-INVALID-ORDER-698 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_2 R_6 s}{C_1 C_4 C_5 R_2 R_3 R_5 s^3 + s^2 \left(C_1 C_4 R_2 R_3 - C_1 C_5 R_2 R_3 + C_1 C_5 R_2 R_5 + C_1 C_5 R_3 R_5\right) + s \left(C_1 R_2 + C_1 R_3 + C_5 R_5\right) + 1}$$

10.699 X-INVALID-ORDER-699
$$Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3, \ \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_2}{C_1 C_4 C_5 C_6 R_2 R_3 R_5 s^3 + C_6 + s^2 \left(C_1 C_4 C_6 R_2 R_3 - C_1 C_5 C_6 R_2 R_3 + C_1 C_5 C_6 R_2 R_5 + C_1 C_5 C_6 R_3 R_5\right) + s \left(C_1 C_6 R_2 + C_1 C_6 R_3 + C_5 C_6 R_5\right)}$$

10.700 X-INVALID-ORDER-700
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_2R_6s + C_5R_2}{C_1C_4C_5C_6R_2R_3R_5s^3 + C_6 + s^2\left(C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_3R_5\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_5C_6R_5\right)}$$

10.701 X-INVALID-ORDER-701 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_2 R_6 s}{C_1 C_4 C_5 C_6 R_2 R_3 R_5 R_6 s^4 + s^3 \left(C_1 C_4 C_5 R_2 R_3 R_5 + C_1 C_4 C_6 R_2 R_3 R_6 + C_1 C_5 C_6 R_2 R_3 R_6 + C_1 C_5 C_6 R_2 R_3 R_6 + C_1 C_5 C_6 R_2 R_3 R_5 + C_1 C_5 R_2 R_3 + C_1 C_5 R_2 R_5 + C_1 C_5 R_5 R_5 + C_1 C_5 R_$

10.702 X-INVALID-ORDER-702 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_2 R_5 s + R_2}{C_6 R_5 s + s^3 \left(C_1 C_4 C_6 R_2 R_3 R_5 - C_1 C_5 C_6 R_2 R_3 R_5 \right) + s^2 \left(-C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 \right)}$

10.703 X-INVALID-ORDER-703 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_2R_5R_6s^2 + R_2 + s\left(C_5R_2R_5 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5\right)}$

10.704 X-INVALID-ORDER-704 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_5 R_2 R_5 R_6 s + R_2 R_6}{R_5 + s^3 \left(C_1 C_4 C_6 R_2 R_3 R_5 R_6 - C_1 C_5 C_6 R_2 R_3 R_5 R_6\right) + s^2 \left(C_1 C_4 R_2 R_3 R_5 - C_1 C_5 R_2 R_3 R_5 - C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_5 R_6\right) + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_6 R_5 R_6\right)}$

10.705 X-INVALID-ORDER-705 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4 R_2 R_4 s + R_2}{C_6 R_5 s + s^3 \left(-C_1 C_4 C_6 R_2 R_3 R_4 + C_1 C_4 C_6 R_2 R_3 R_5 + C_1 C_4 C_6 R_2 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 + C_4 C_6 R_4 R_5\right)}$

10.706 X-INVALID-ORDER-706 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_6R_2R_4R_6s^2 + R_2 + s\left(C_4R_2R_4 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(-C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_4C_6R_4R_5\right)}$

10.707 X-INVALID-ORDER-707 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4 R_2 R_4 R_6 s + R_2 R_6}{R_5 + s^3 \left(-C_1 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_4 R_2 R_3 R_4 + C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_3 R_6 + C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_5 R_6 + C_1 C_6 R_5 R_6 R_5 R_6 + C_1 C_6 R_5 R_6 + C_1 C_6 R_5 R_6$

10.708 X-INVALID-ORDER-708 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_6s^2 + C_5R_2R_6s}{-C_1C_4C_5R_2R_3R_4s^3 + s^2\left(C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3\right) + s\left(C_1R_2 + C_1R_3 + C_4R_4\right) + 1}$

10.709 X-INVALID-ORDER-709 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_2R_4s + C_5R_2}{-C_1C_4C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_4C_6R_4\right)}$

10.710 X-INVALID-ORDER-710 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_2R_4R_6s^2 + C_5R_2 + s\left(C_4C_5R_2R_4 + C_5C_6R_2R_6\right)}{-C_1C_4C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_4C_6R_4\right)}$

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10.711 X-INVALID-ORDER-711 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_4C_5R_2R_4R_6s^2 + C_5R_2R_6s}{-C_1C_4C_5C_6R_2R_3R_4R_6s^4 + s^3\left(-C_1C_4C_5R_2R_3R_4 + C_1C_4C_6R_2R_3R_6 + C_1C_4C_6R_2R_4R_6 + C_1C_4C_6R_2R_3R_6 + C_1C_4C_6R_2R_3R_6 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3 + C_1C_6R_3R_6 + C_4C_6R_3R_6 + C_4C_6R_4R_6\right) + s\left(C_1R_2 + C_1R_3 + C_4R_4R_6 + C_4C_6R_3R_4 + C_4C_6R_4R_4 + C_4C_6R_4R$

10.712 X-INVALID-ORDER-712 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_6s^2 + C_5R_2R_6s}{s^3\left(-C_1C_4C_5R_2R_3R_4 + C_1C_4C_5R_2R_3R_5 + C_1C_4C_5R_2R_4R_5 + C_1C_4C_5R_3R_4R_5\right) + s^2\left(C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_5R_2R_3 + C_1C_5R_2R_5 + C_1C_5R_3R_5 + C_4C_5R_4R_5\right) + s\left(C_1R_2 + C_1R_3 + C_4R_4 + C_5R_5\right) + 1}$

10.713 X-INVALID-ORDER-713 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_2R_4s + C_5R_2}{C_6 + s^3\left(-C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_3R_5 + C_4C_5C_6R_4R_5\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_4C_6R_4 + C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_4C_5C_6R_4R_5\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_4C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_4C_5C_6R_3R_5 + C_4C_5C_6R_5R_5 + C_4C_5C_6R_5 + C_4C_5C_6R_5 + C_4C_5C_6R_5 + C_5C_6R_5 + C_5C_6R_5 + C_5C_6R_5 + C_5C_6R_5 + C_5C_5C_6R_5 + C_5C_5C_6R_5 +$

10.714 X-INVALID-ORDER-714 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_2R_4R_6s^2 + C_5R_2 + s\left(C_4C_5R_2R_4 + C_5C_6R_2R_6\right)}{C_6 + s^3\left(-C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_4C_5R_3R_4R_5\right) + s^2\left(C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5 + C_$

10.715 X-INVALID-ORDER-715 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4C_5R_2R_4}{s^4\left(-C_1C_4C_5C_6R_2R_3R_4R_6 + C_1C_4C_5C_6R_2R_3R_5R_6 + C_1C_4C_5C_6R_2R_4R_5R_6 + C_1C_4C_5R_2R_3R_4 + C_1C_4C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_6 + C_1C_4C_6R_2R_4R_6 + C_1C_4C_6R_4R_4R_6 + C_$

10.716 X-INVALID-ORDER-716 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_5R_6s^2 + R_2R_6 + s\left(C_4R_2R_4R_6 + C_5R_2R_5R_6\right)}{-C_1C_4C_5R_2R_3R_4R_5s^3 + R_5 + s^2\left(-C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_4R_5 + C_1C_4R_3R_4R_5 - C_1C_5R_2R_3R_5\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_4R_4R_5\right)}$

10.717 X-INVALID-ORDER-717 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_5s^2 + R_2 + s\left(C_4R_2R_4 + C_5R_2R_5\right)}{-C_1C_4C_5C_6R_2R_3R_4R_5s^4 + C_6R_5s + s^3\left(-C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5R_5 + C_1C$

10.718 X-INVALID-ORDER-718 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_2R_4R_5R_6s^3 + R_2 + s^2\left(C_4C_5R_2R_4R_5 + C_4C_6R_2R_4R_6 + C_5C_6R_2R_5R_6\right) + s\left(C_4R_2R_4 + C_5R_2R_5 + C_6R_2R_6\right)}{-C_1C_4C_5C_6R_2R_3R_4R_5s^4 + C_6R_5s + s^3\left(-C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_4C_6R_4R_5\right)}$

10.719 X-INVALID-ORDER-719 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_5R_6s^2 + R_2R_6 + s\left(C_4R_2R_4R_6 + C_5R_2R_5R_6\right)}{-C_1C_4C_5C_6R_2R_3R_4R_5R_6s^4 + R_5 + s^3\left(-C_1C_4C_5R_2R_3R_4R_5 - C_1C_4C_6R_2R_3R_5R_6 + C_1C_4C_6R_2R_3R_5R_6 + C_1C_4C_6R_2R_3R_5R_6\right) + s^2\left(-C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_3R_3R_5 + C_1C_4R_3R_5 + C_1C_4R_5 + C_1C_4R_5 + C_1C_4R_5 + C_1$

10.720 X-INVALID-ORDER-720 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_2 R_4}{C_1 C_4 C_6 R_2 R_3 R_4 R_5 s^3 + C_6 R_4 R_5 s + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5\right)}$

10.721 X-INVALID-ORDER-721 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_6R_2R_4R_6s + R_2R_4}{C_1C_4C_6R_2R_3R_4R_5s^3 + C_6R_4R_5s + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5\right)}$$

10.722 X-INVALID-ORDER-722 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{R_2 R_4 R_6}{C_1 C_4 C_6 R_2 R_3 R_4 R_5 R_6 s^3 + R_4 R_5 + s^2 \left(C_1 C_4 R_2 R_3 R_4 R_5 - C_1 C_6 R_2 R_3 R_4 R_6 + C_1 C_6 R_2 R_3 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 R_6\right) + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 + C_1 R_3 R_4 R_5 + C_1 R_3 R_4 R_5 R_6\right)}$

10.723 X-INVALID-ORDER-723 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_2 R_4 R_6 s}{R_4 + s^3 \left(C_1 C_4 C_6 R_2 R_3 R_4 R_6 - C_1 C_5 C_6 R_2 R_3 R_4 R_6\right) + s^2 \left(C_1 C_4 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_4 R_6 + C_1 C_6 R_3 R_4 R_6\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_6 R_4 R_6\right)}$

10.724 X-INVALID-ORDER-724 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_5 R_2 R_4 R_6 s}{C_1 C_4 C_5 R_2 R_3 R_4 R_5 s^3 + R_4 + s^2 \left(C_1 C_4 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4 + C_1 C_5 R_2 R_3 R_5 + C_1 C_5 R_2 R_4 R_5 + C_1 C_5 R_3 R_4 R_5\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_5 R_4 R_5\right)}{c_1 C_4 C_5 R_2 R_3 R_4 R_5 s^3 + R_4 + s^2 \left(C_1 C_4 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4 + C_1 C_5 R_2 R_3 R_5 + C_1 C_5 R_2 R_4 R_5\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_5 R_4 R_5\right)}$

10.725 X-INVALID-ORDER-725 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_2 R_4}{C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 s^3 + C_6 R_4 + s^2 \left(C_1 C_4 C_6 R_2 R_3 R_4 - C_1 C_5 C_6 R_2 R_3 R_4 + C_1 C_5 C_6 R_2 R_3 R_5 + C_1 C_5 C_6 R_2 R_4 R_5 \right) + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4 + C_5 C_6 R_4 R_5 \right)}$

10.726 X-INVALID-ORDER-726 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_2R_4R_6s + C_5R_2R_4}{C_1C_4C_5C_6R_2R_3R_4R_5s^3 + C_6R_4 + s^2\left(C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_5 + C_1C_5C_6R_2R_4R_5\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_5C_6R_4R_5\right)}$

10.727 X-INVALID-ORDER-727 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5 + \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_2 R_4 R_6 s}{C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 s^4 + R_4 + s^3 \left(C_1 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_5 R_2 R_3 R_4 + C_1 C_5 R_3 R_4 + C_1 C_5 R_3 R_4 + C_1 C_5 R_4 R_5 + C_1 C_5 R_4 R_5 + C_1 C_5 R_5 R_5$

10.728 X-INVALID-ORDER-728 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_2 R_4 R_5 s + R_2 R_4}{C_6 R_4 R_5 s + s^3 \left(C_1 C_4 C_6 R_2 R_3 R_4 R_5 - C_1 C_5 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5\right)}$

10.729 X-INVALID-ORDER-729 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_2R_4R_5R_6s^2 + R_2R_4 + s\left(C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5\right)}$

10.730 X-INVALID-ORDER-730 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_2 R_4 R_5 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^3 \left(C_1 C_4 C_6 R_2 R_3 R_4 R_5 R_6 - C_1 C_5 C_6 R_2 R_3 R_4 R_5 - C_1 C_5 R_2 R_3 R_4 R_5 - C_1 C_6 R_2 R_3 R_4 R_5 + C_1 C_6 R_2 R_5 + C_1 C_6 R_2 R_5 + C_1 C_6 R_5 R_5$

10.731 X-INVALID-ORDER-731
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{C_1 C_3 R_2 R_4 R_5 s - C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5}$$

10.732 X-INVALID-ORDER-732
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_2 R_4}{C_1 C_3 C_6 R_2 R_4 R_5 s^2 + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_3 C_6 R_4 R_5\right)}$$

10.733 X-INVALID-ORDER-733
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_6R_2R_4R_6s + C_3R_2R_4}{C_1C_3C_6R_2R_4R_5s^2 + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.734 X-INVALID-ORDER-734
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3 C_5 R_2 R_4 R_6 s}{C_1 R_2 + C_1 R_4 + C_3 R_4 + s \left(C_1 C_3 R_2 R_4 - C_1 C_5 R_2 R_4\right)}$$

10.735 X-INVALID-ORDER-735
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 C_5 R_2 R_4}{C_1 C_6 R_2 + C_1 C_6 R_4 + C_3 C_6 R_4 + s \left(C_1 C_3 C_6 R_2 R_4 - C_1 C_5 C_6 R_2 R_4\right)}$$

10.736 X-INVALID-ORDER-736
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$$

10.737 X-INVALID-ORDER-737
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1C_3C_5C_6R_2R_4R_5R_6s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_5R_2R_4R_6 - C_1C_5C_6R_2R_4R_6 + C_1C_5C_6R_2R_4R_6 + C_1C_5C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_1C_6R_4R_6 + C_1C_5C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_4R_5 + C_1C_6R_4R_6 + C_1C_5C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_1C_5R_4R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_$$

10.738 X-INVALID-ORDER-738 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5\right)}$$

10.739 X-INVALID-ORDER-739 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_5s + C_3R_2R_4}{s^2\left(C_1C_3C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.740 X-INVALID-ORDER-740
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_2R_4R_5R_6s^2 + C_3R_2R_4 + s\left(C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^2\left(C_1C_3C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.741 X-INVALID-ORDER-741
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_2 R_6}{-C_1 R_2 + C_1 R_5 + C_3 R_5 + s \left(C_1 C_3 R_2 R_5 + C_1 C_4 R_2 R_5\right)}$$

10.742 X-INVALID-ORDER-742
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_2}{s^2 \left(C_1 C_3 C_6 R_2 R_5 + C_1 C_4 C_6 R_2 R_5\right) + s \left(-C_1 C_6 R_2 + C_1 C_6 R_5 + C_3 C_6 R_5\right)}$$

10.743 X-INVALID-ORDER-743
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 C_6 R_2 R_6 s + C_3 R_2}{s^2 \left(C_1 C_3 C_6 R_2 R_5 + C_1 C_4 C_6 R_2 R_5\right) + s \left(-C_1 C_6 R_2 + C_1 C_6 R_5 + C_3 C_6 R_5\right)}$$

10.744 X-INVALID-ORDER-744
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3 C_5 R_2 R_6 s}{C_1 + C_3 + s \left(C_1 C_3 R_2 + C_1 C_4 R_2 - C_1 C_5 R_2 \right)}$$

10.745 X-INVALID-ORDER-745
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 C_5 R_2}{C_1 C_6 + C_3 C_6 + s \left(C_1 C_3 C_6 R_2 + C_1 C_4 C_6 R_2 - C_1 C_5 C_6 R_2\right)}$$

10.746 X-INVALID-ORDER-746
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_2R_6s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s\left(C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2\right)}$$

10.747 X-INVALID-ORDER-747
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

10.748 X-INVALID-ORDER-748 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_5R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s\left(C_1C_3R_2R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5\right)}$$

10.749 X-INVALID-ORDER-749 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_5s + C_3R_2}{s^2\left(C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$$

10.750 X-INVALID-ORDER-750
$$Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_2R_5R_6s^2 + C_3R_2 + s\left(C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^2\left(C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$$

 $10.751 \quad \text{X-INVALID-ORDER-751} \ Z(s) = \left(\frac{1}{C_{1s}}, \ R_{2}, \ \frac{1}{C_{3s}}, \ R_{4} + \frac{1}{C_{4s}}, \ R_{5}, \ \frac{1}{C_{6s}}\right)$ $H(s) = \frac{C_{3}C_{4}R_{2}R_{4}s + C_{3}R_{2}}{C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}C_{5}s^{3} + s^{2}\left(C_{1}C_{3}C_{6}R_{2}R_{5} - C_{1}C_{4}C_{6}R_{2}R_{4} + C_{1}C_{4}C_{6}R_{2}R_{5} + C_{1}C_{4}C_{6}R_{4}R_{5} + s\left(-C_{1}C_{6}R_{2} + C_{1}C_{6}R_{5} + C_{3}C_{6}R_{6}\right)$ $10.752 \quad \text{X-INVALID-ORDER-752} \ Z(s) = \left(\frac{1}{C_{1s}}, \ R_{2}, \ \frac{1}{C_{3s}}, \ R_{4} + \frac{1}{C_{4s}}, \ R_{5}, \ R_{6} + \frac{1}{C_{6s}}\right)$ $H(s) = \frac{C_{3}C_{4}C_{6}R_{2}R_{4}R_{6}s^{2} + C_{3}R_{2} + s\left(C_{3}C_{4}R_{2}R_{4} + C_{3}C_{6}R_{2}R_{6}\right)}{C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}s^{3} + s^{2}\left(C_{1}C_{3}C_{6}R_{2}R_{5} - C_{1}C_{4}C_{6}R_{2}R_{4} + C_{1}C_{4}C_{6}R_{2}R_{5} + C_{3}C_{4}C_{6}R_{4}R_{5}\right) + s\left(-C_{1}C_{6}R_{2} + C_{1}C_{6}R_{5} + C_{3}C_{6}R_{5}\right)$

10.753 X-INVALID-ORDER-753 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4R_2R_4R_6s + C_3R_2R_6}{C_1C_3C_4C_6R_2R_4R_5R_6s^3 - C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_2R_4R_5 + C_1C_3C_6R_2R_5R_6 - C_1C_4C_6R_2R_4R_6 + C_1C_4C_6R_2R_5R_6 + C_1C_4C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 - C_1C_6R_2R_6 + C_1C_4C_6R_2R_5R_6 + C_1C_4C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 - C_1C_6R_2R_6 + C_1C_4C_6R_4R_5R_6\right) + s\left(C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_4R_5 - C_1C_6R_2R_6 + C_1C_4C_6R_4R_5R_6\right) + s\left(C_1C_3R_4R_5R_6 - C_1C_4R_4R_5 - C_1C_4$

10.754 X-INVALID-ORDER-754 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_3C_4C_6R_2R_4R_6 - C_1C_4C_5C_6R_2R_4R_6\right) + s^2\left(C_1C_3C_4R_2R_4 + C_1C_3C_6R_2R_6 - C_1C_4C_5R_2R_6 + C_1C_4C_6R_2R_6 + C_1C_4C_6R_4R_6\right) + s\left(C_1C_3R_2 + C_1C_4R_2 + C_1C_4R_4 - C_1C_5R_2 + C_1C_4R_4 + C_1C_5R_6\right)}$

10.755 X-INVALID-ORDER-755 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{C_1C_3C_4C_5R_2R_4R_5s^3 + C_1 + C_3 + s^2\left(C_1C_3C_4R_2R_4 + C_1C_3C_5R_2R_5 - C_1C_4C_5R_2R_4 + C_1C_4C_5R_2R_5 + C_1C_4C_5R_4R_5 + C_3C_4C_5R_4R_5\right) + s\left(C_1C_3R_2 + C_1C_4R_2 + C_1C_4R_4 - C_1C_5R_2 + C_1C_5R_5 + C_3C_4R_4 + C_3C_5R_5\right)}$

10.756 X-INVALID-ORDER-756 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_4s + C_3C_5R_2}{C_1C_3C_4C_5C_6R_2R_4R_5s^3 + C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_4 + C_1C_3C_5C_6R_2R_5 - C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_4R_5\right) + s\left(C_1C_3C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_1C_5C_6R_2 + C_1C_5C_6R_4 + C_3C_5C_6R_5\right)}$

10.757 X-INVALID-ORDER-757 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_2R_4R_6s^2 + C_3C_5R_2 + s\left(C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_6\right)}{C_1C_3C_4C_5C_6R_2R_4 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_4R_5) + s\left(C_1C_3C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_1C_5C_6R_2 + C_1C_5C_6R_4 + C_3C_5C_6R_4\right)}$

10.758 X-INVALID-ORDER-758 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.759 X-INVALID-ORDER-759 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_5s^2 + C_3R_2 + s\left(C_3C_4R_2R_4 + C_3C_5R_2R_5\right)}{s^3\left(C_1C_3C_4C_6R_2R_4R_5 - C_1C_4C_5C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_6R_2R_5 - C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_3C_4C_6R_4R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.760 X-INVALID-ORDER-760 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_2R_4R_5R_6s^3 + C_3R_2 + s^2\left(C_3C_4C_5R_2R_4R_5 + C_3C_4C_6R_2R_4R_6 + C_3C_5C_6R_2R_5R_6\right) + s\left(C_3C_4R_2R_4 + C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_3C_4C_6R_2R_4R_5 - C_1C_4C_5C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_6R_2R_5 - C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 - C_1C_5C_6R_2R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_3C_4R_2R_4 + C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}$

10.761 X-INVALID-ORDER-761
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_5R_6s^2 + C_3R_2R_6 + s\left(C_3C_4R_2R_4R_6 + C_3C_5R_2R_5R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_3C_4R_2R_4R_5R_6 - C_1C_4C_5R_2R_4R_5 + C_1C_4C_6R_2R_4R_6 + C_1C_4C_6R_2R_4R_6 + C_1C_4C_6R_2R_5R_6 + C_1C_4C_6R_4R_5R_6 + C_1C_4C_6$

10.762 X-INVALID-ORDER-762 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{-C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(C_1 C_3 R_2 R_4 R_5 + C_1 C_4 R_2 R_4 R_5\right)}$$

10.763 X-INVALID-ORDER-763 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_2 R_4}{s^2 \left(C_1 C_3 C_6 R_2 R_4 R_5 + C_1 C_4 C_6 R_2 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_3 C_6 R_4 R_5\right)}$$

10.764 X-INVALID-ORDER-764 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_2R_4R_6s + C_3R_2R_4}{s^2\left(C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.765 X-INVALID-ORDER-765 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3 C_5 R_2 R_4 R_6 s}{C_1 R_2 + C_1 R_4 + C_3 R_4 + s \left(C_1 C_3 R_2 R_4 + C_1 C_4 R_2 R_4 - C_1 C_5 R_2 R_4 \right)}$$

10.766 X-INVALID-ORDER-766 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 C_5 R_2 R_4}{C_1 C_6 R_2 + C_1 C_6 R_4 + C_3 C_6 R_4 + s \left(C_1 C_3 C_6 R_2 R_4 + C_1 C_4 C_6 R_2 R_4 - C_1 C_5 C_6 R_2 R_4\right)}$$

10.767 X-INVALID-ORDER-767 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$$

10.768 X-INVALID-ORDER-768 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5 + \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

10.769 X-INVALID-ORDER-769 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_4R_5\right)}$$

10.770 X-INVALID-ORDER-770 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_5s + C_3R_2R_4}{s^2\left(C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

$$\textbf{10.771} \quad \textbf{X-INVALID-ORDER-771} \ \ Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6 + \frac{1}{C_6 s}\right) \\ H(s) = \frac{C_3 C_5 C_6 R_2 R_4 R_5 R_6 s^2 + C_3 R_2 R_4 + s \left(C_3 C_5 R_2 R_4 R_5 + C_3 C_6 R_2 R_4 R_6\right)}{s^2 \left(C_1 C_3 C_6 R_2 R_4 R_5 + C_1 C_4 C_6 R_2 R_4 R_5 - C_1 C_5 C_6 R_2 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_3 C_6 R_4 R_5\right)}$$

10.772 X-INVALID-ORDER-772 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{-C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(-C_1 C_3 R_2 R_3 R_4 + C_1 C_3 R_2 R_3 R_5 + C_1 C_3 R_2 R_4 R_5 + C_1 C_3 R_3 R_4 R_5\right)}$$

10.773 X-INVALID-ORDER-773 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_2 R_4}{s^2 \left(-C_1 C_3 C_6 R_2 R_3 R_4 + C_1 C_3 C_6 R_2 R_3 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 + C_1 C_3 C_6 R_3 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_3 C_6 R_4 R_5\right)}$$

10.774 X-INVALID-ORDER-774 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_2R_4R_6s + C_3R_2R_4}{s^2\left(-C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_3R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.775 X-INVALID-ORDER-775 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{-C_1C_3C_5C_6R_2R_3R_4R_6s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(-C_1C_3C_5R_2R_3R_4 + C_1C_3C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6\right) + s\left(C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 - C_1C_5R_2R_4 + C_1C_6R_4R_6 + C_3C_6R_4R_6\right)}$$

10.776 X-INVALID-ORDER-776 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(-C_1C_3C_5C_6R_2R_3R_4R_6 + C_1C_3C_5C_6R_2R_3R_5R_6 + C_1C_3C_5C_6R_2R_4R_5R_6 + C_1C_3C_5C_6R_2R_4R_5R_6 + C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R$$

10.777 X-INVALID-ORDER-777 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_5s + C_3R_2R_4}{-C_1C_3C_5C_6R_2R_3R_4R_5s^3 + s^2\left(-C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.778 X-INVALID-ORDER-778 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_4R_5R_6s^2 + C_3R_2R_4 + s\left(C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{-C_1C_3C_5C_6R_2R_3R_4R_5s^3 + s^2\left(-C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.779 X-INVALID-ORDER-779 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6$$

$$H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1C_3C_5C_6R_2R_3R_4R_5R_6s^3 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + c_3R_4R_5 + s^2\left(-C_1C_3C_5R_2R_3R_4R_6 + C_1C_3C_6R_2R_3R_4R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_5 + C_1C_3C_6R_2R_4R_5R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5$$

10.780 X-INVALID-ORDER-780 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_2}{C_1 C_3 C_4 C_6 R_2 R_3 R_5 s^3 + s^2 \left(-C_1 C_3 C_6 R_2 R_3 + C_1 C_3 C_6 R_2 R_5 + C_1 C_3 C_6 R_3 R_5 + C_1 C_4 C_6 R_2 R_5\right) + s \left(-C_1 C_6 R_2 + C_1 C_6 R_5 + C_3 C_6 R_5\right)}$$

10.781 X-INVALID-ORDER-781 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_2R_6s + C_3R_2}{C_1C_3C_4C_6R_2R_3R_5s^3 + s^2\left(-C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$$

10.782 X-INVALID-ORDER-782 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_2 R_6}{C_1 C_3 C_4 C_6 R_2 R_3 R_5 R_6 s^3 - C_1 R_2 + C_1 R_5 + C_3 R_5 + s^2 \left(C_1 C_3 C_4 R_2 R_3 R_5 - C_1 C_3 C_6 R_2 R_3 R_6 + C_1 C_3 C_6 R_2 R_5 R_6 + C_1 C_4 C_6 R_2 R_5 R_6 \right) + s \left(-C_1 C_3 R_2 R_3 + C_1 C_3 R_2 R_5 + C_1 C_4 R_2 R_5 - C_1 C_6 R_2 R_6 + C_1 C_6 R_5 R_6 + C_3 C_6 R_5 R_6 \right)}$

10.783 X-INVALID-ORDER-783 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_3C_4C_6R_2R_3R_6 - C_1C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_3C_4R_2R_3 - C_1C_3C_5R_2R_3 + C_1C_3C_6R_2R_6 + C_1C_3C_6R_2R_6 + C_1C_5C_6R_2R_6\right) + s\left(C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_1C_6R_6 + C_3C_6R_6\right)}$

10.784 X-INVALID-ORDER-784 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_6s}{C_1C_3C_4C_5R_2R_3R_5s^3 + C_1 + C_3 + s^2\left(C_1C_3C_4R_2R_3 - C_1C_3C_5R_2R_3 + C_1C_3C_5R_2R_5 + C_1C_3C_5R_2R_5 + C_1C_4C_5R_2R_5\right) + s\left(C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_1C_5R_5 + C_3C_5R_5\right)}$

10.785 X-INVALID-ORDER-785 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2}{C_1C_3C_4C_5C_6R_2R_3R_5s^3 + C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 + C_1C_5C_6R_2 + C_1C_5C_6R_2 + C_1C_5C_6R_5 + C_3C_5C_6R_3R_5 + C_1C_4C_5C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 + C_1C_5C_6R_2 + C_1C_5C_6R_2 + C_1C_5C_6R_3 + C_1C_5$

10.786 X-INVALID-ORDER-786 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_6s + C_3C_5R_2}{C_1C_3C_4C_5C_6R_2R_3R_5s^3 + C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5\right) + s\left(C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_1C_5C_6R_5 + C_3C_5C_6R_5\right)}$

10.787 X-INVALID-ORDER-787 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_6s}{C_1C_3C_4C_5C_6R_2R_3R_5R_6s^4 + C_1 + C_3 + s^3\left(C_1C_3C_4C_5R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_6 + C_1C_3C_5C_6R_2R_5R_6 + C_1C_3C_5C_6R_2R_5R_6 + C_1C_3C_5C_6R_2R_5R_6 + C_1C_3C_5C_6R_2R_5R_6 + C_1C_3C_5R_2R_3 + C_1C_3C_5R_2R_3 + C_1C_3C_5R_2R_5 + C_1C_3C_5R_3R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_$

10.788 X-INVALID-ORDER-788 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_5s + C_3R_2}{s^3\left(C_1C_3C_4C_6R_2R_3R_5 - C_1C_3C_5C_6R_2R_3R_5\right) + s^2\left(-C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.789 X-INVALID-ORDER-789 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_5R_6s^2 + C_3R_2 + s\left(C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_3C_4C_6R_2R_3R_5 - C_1C_3C_5C_6R_2R_3R_5\right) + s^2\left(-C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.790 X-INVALID-ORDER-790 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_5R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_3C_4C_6R_2R_3R_5R_6 - C_1C_3C_5C_6R_2R_3R_5R_6 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_4R_3R_5 + C_1C_3C$

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10.791 X-INVALID-ORDER-791 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4R_2R_4s + C_3R_2}{s^3\left(-C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 \right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right) + s\left(-C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 \right) + s\left(-C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 \right) + s\left(-C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 \right) + s\left(-C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 \right) + s\left(-C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_5 + C_1C_5C_6R_5 + C_1C_5C_6R_5 + C_1C_5C_6R_5 + C_1C_5C_6R_5 + C_1C_5C_6R_5 + C_
10.792 X-INVALID-ORDER-792 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_6R_2R_4R_6s^2 + C_3R_2 + s\left(C_3C_4R_2R_4 + C_3C_6R_2R_6\right)}{s^3\left(-C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_3R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(-C_1C_6R_2 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(-C_1C_3C_4R_3R_4 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5\right) + s\left(-C_1C_3C_4R_3R_4 + C_1C_3C_4R_4R_5 + C_1C_4C_6R_4R_5\right) + s\left(-C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5\right) + s\left(-C_1C_3C_4R_4R_5\right) + s\left(-C_1C_4R_4R_5\right) + s\left(-C_1C_4R_4
10.793 X-INVALID-ORDER-793 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_4R_2R_4R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(-C_1C_3C_4C_6R_2R_3R_4R_6 + C_1C_3C_4C_6R_2R_4R_5R_6 + C_1C_3C_4C_6R_2R_4R_5R_6 + C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_4R_3R_4R_5 + C_1C_3C_4R_5R_5 + C_1C_3C_4R_5R_5 + C_1C_3C_4R_5R_5 + C_1C_3C_4R_5R_5 + C_1C_3C_4R_5
10.794 X-INVALID-ORDER-794 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                            H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{-C_1C_3C_4C_5R_2R_3R_4s^3 + C_1 + C_3 + s^2\left(C_1C_3C_4R_2R_3 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_3R_4 - C_1C_3C_5R_2R_3 - C_1C_4C_5R_2R_4\right) + s\left(C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 + C_1C_4R_4 - C_1C_5R_2 + C_3C_4R_4\right)}
10.795 X-INVALID-ORDER-795 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                               H(s) = \frac{C_3C_4C_5R_2R_4s + C_3C_5R_2}{-C_1C_3C_4C_5C_6R_2R_3R_4s^3 + C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 + C_1C_3C_4C_6R_2R_4 + C_1C_3C_6C_8R_2R_4 - C_1C_3C_5C_6R_2R_4\right) + s\left(C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_3C_4C_6R_4\right)}
10.796 X-INVALID-ORDER-796 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                               H(s) = \frac{C_3C_4C_5C_6R_2R_4R_6s^2 + C_3C_5R_2 + s\left(C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_6\right)}{-C_1C_3C_4C_5C_6R_2R_3R_4s^3 + C_1C_6 + c_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 + C_1C_3C_4C_6R_2R_4 + C_1C_3C_5C_6R_2R_3 - C_1C_4C_5C_6R_2R_4\right) + s\left(C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_3C_4C_6R_4\right)}
10.797 X-INVALID-ORDER-797 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s
H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_3R_4R_6s^2 + C_3C_5R_2R_6s}{-C_1C_3C_4C_5R_2R_3R_4R_6s^4 + C_1 + C_3 + s^3\left(-C_1C_3C_4C_5R_2R_3R_4 + C_1C_3C_4C_6R_2R_4R_6 + C_1C_3C_4C_6R_2R_4R_6 + C_1C_3C_4C_6R_2R_4R_6 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_3R_4 + C_1C_3C_4
10.798 X-INVALID-ORDER-798 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s
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 $H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(-C_1C_3C_4C_5R_2R_3R_4 + C_1C_3C_4C_5R_2R_3R_5 + C_1C_3C_4C_5R_2R_4R_5 + C_1C_3C_4R_2R_3 + C_1C_3C_4R_2R_4 + C_1C_3C_5R_2R_3 + C_1C_3C_5R_2R_5 + C_1C_4C_5R_2R_4 + C_1C_4C_5R_4R_5 + C_1C_4C_5R_4R_5$

10.799 X-INVALID-ORDER-799 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_3C_4C_5R_2R_4s + C_3C_5R_2$ $H(s) = \frac{C_3C_4C_5R_2R_4s + C_3C_5R_2}{C_1C_6 + C_3C_6 + S^3\left(-C_1C_3C_4C_5C_6R_2R_3R_4 + C_1C_3C_4C_5C_6R_2R_4R_5 + C_1C_3C_4C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_3C_4C_6R_2R_3 + C_1C_3C_4C_6R_3R_4 - C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_3R_3 + C_1C_5C_5C_6R_3R_3 + C_1C_5C_5C_6R_3R_3 + C_1C_5C_5C_6R_3R_3 + C_1C_5C_5C_6R_3R_3 + C_1C_5C_5C_6R_3R_3 + C_1C_5C_5C_6R_3R_3 + C_1C_5C_5C_5R_3R_3 + C_1$

10.800 X-INVALID-ORDER-800 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_4C_5C_6R_2R_4R_6s^2 + C_3C_5R_2 + s(C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_6)$ $H(s) = \frac{C_3C_4C_5C_6R_2R_4R_6s + C_3C_5R_2R_4 + C_1C_3C_4C_5R_2R_4 + C_1C_3C_4C_5R_4R_4 + C_1C_3C_4C_5R_4R_5 + C_1C_3C_4C_5R_4R_5 + C_1C_3C_4C_5R_4R_5 +$

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10.801 X-INVALID-ORDER-801 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 + C_3 + s^4 \left( -C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_5 R_5 + C_1 C_5 C_5 R_5 R_5 + C_1 C_5 C_5 R_5 R_5 + C_1 C_5 C_5 R_5 R_5 
10.802 X-INVALID-ORDER-802 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_3C_4C_5R_2R_4R_5R_6s^2 + C_3R_2R_6 + s\left(C_3C_4R_2R_4R_6 + C_3C_5R_2R_5R_6\right)}{-C_1C_3C_4C_5R_2R_3R_4R_5s^3 - C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(-C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_4R_3R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_
10.803 X-INVALID-ORDER-803 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_2R_4R_5s^2 + C_3R_2 + s\left(C_3C_4R_2R_4 + C_3C_5R_2R_5\right)}{-C_1C_3C_4C_5R_2R_3R_4R_5s^4 + s^3\left(-C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_6R_2R_3R_5 - C_1C_4C_5C_6R_2R_3R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_3R_3 + C_1C_3C_6R_3R_
10.804 X-INVALID-ORDER-804 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5C_6R_2R_4R_5R_6s^3 + C_3R_2 + s^2\left(C_3C_4C_5R_2R_4R_5 + C_3C_4C_6R_2R_4R_6 + C_3C_5C_6R_2R_5R_6\right) + s\left(C_3C_4R_2R_4 + C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{-C_1C_3C_4C_5C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_6R_2R_3R_5 - C_1C_4C_5C_6R_2R_3R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_3R_3 + C_1C_3C_6R
10.805 X-INVALID-ORDER-805 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-}{-C_1C_3C_4C_5C_6R_2R_3R_4R_5R_6s^4 - C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(-C_1C_3C_4C_5R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_5R_6 + C_1C_3C_4C_6R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_2R_3R_4R_5R_6 - C_1C_3C_5C_6R_2R_3R_5R_6 - C_1C_4C_5C_6R_2R_4R_5R_6\right) + s^2\left(-C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_2R_3R_4R_5R_6 - C_1C_3C_4C_6R_2R_3R_4R_5R_6 - C_1C_3C_4C_6R_2R_4R_5R_6\right) + s^2\left(-C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_4R_5R_5 - C_1C_3C_4C_6R_2R_4R_5 - C_1C_3C_4C_6R_4R_5R_5 - C_1C_3C_4C_5R_5R_5 - C_1C_3C_5C_5R_5R_5 - C_1C_3C_5C_5R_5R_5 - C_1C_3C_5C_5R_5R_5 - C_1C_
10.806 X-INVALID-ORDER-806 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                          H(s) = \frac{C_3 R_2 R_4}{C_1 C_3 C_4 C_6 R_2 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_3 C_6 R_2 R_3 R_4 + C_1 C_3 C_6 R_2 R_3 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 + C_1 C_4 C_6 R_2 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_3 C_6 R_4 R_5\right)}
10.807 X-INVALID-ORDER-807 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                          H(s) = \frac{C_3C_6R_2R_4R_6s + C_3R_2R_4}{C_1C_3C_4C_6R_2R_3R_4R_5s^3 + s^2\left(-C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.808 X-INVALID-ORDER-808 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3 R_2 R_4 R_6}{C_1 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 s^3 - C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s^2 \left(C_1 C_3 C_4 R_2 R_3 R_4 R_6 + C_1 C_3 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_6 R_4 R_5 R_6 + C_1 C_3 C_6 R_5 R_5 R_6 + C_1 C_3 C_6 R_5 R_5 R_6 
10.809 X-INVALID-ORDER-809 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(C_1C_3C_4C_6R_2R_3R_4R_6 - C_1C_3C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6 - C_1C_5C_6R_2R_4R_6\right) + s\left(C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3C_6R_2R_3R_4 +
10.810 X-INVALID-ORDER-810 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
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 $H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1C_3C_4C_5R_2R_3R_4R_5s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_5R_2R_4 + C_1C_5R_4 + C_1C_5R_4R_4 + C_1C_5R_4R_4 + C_1C_5R_4R_4 + C_1C_5R_4R_4 + C_1C_5R_5$

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10.811 X-INVALID-ORDER-811 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5R_2R_4}{C_1C_3C_4C_5C_6R_2R_3R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_4 + C_1C_3C_6R_4R_4 + C_1C_3C_6R_4 + 
10.812 X-INVALID-ORDER-812 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_3C_4C_5C_6R_2R_3R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_2R_3R_4 - C_1C_3C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_3R_4 + C_1C_3C_6R
10.813 X-INVALID-ORDER-813 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.814 X-INVALID-ORDER-814 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                         H(s) = \frac{C_3C_5R_2R_4R_5s + C_3R_2R_4}{s^3\left(C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.815 X-INVALID-ORDER-815 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                         H(s) = \frac{C_3C_5C_6R_2R_4R_5R_6s^2 + C_3R_2R_4 + s\left(C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^3\left(C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.816 X-INVALID-ORDER-816 Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6
H(s) = \frac{C_3 C_5 K_2 K_4 K_5 K_6 s + C_3 K_2 K_4 K_5 K_6 s + C_4 K_5 K_6 k_5 K_6
10.817 X-INVALID-ORDER-817 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                 H(s) = \frac{C_3 R_2 R_3 R_4 s + R_2 R_4}{C_1 C_3 C_6 R_2 R_3 R_4 R_5 s^3 + C_6 R_4 R_5 s + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 + C_3 C_6 R_3 R_4 R_5\right)}
10.818 X-INVALID-ORDER-818 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                 H(s) = \frac{C_3C_6R_2R_3R_4R_6s^2 + R_2R_4 + s\left(C_3R_2R_3R_4 + C_6R_2R_4R_6\right)}{C_1C_3C_6R_2R_3R_4R_5s^3 + C_6R_4R_5s + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right)}
10.819 X-INVALID-ORDER-819 Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{R_3}{C_3 R_3 s + 1}, \ R_4, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1}\right)
             H(s) = \frac{C_3 R_2 R_3 R_4 R_6 s + R_2 R_4 R_6}{C_1 C_3 C_6 R_2 R_3 R_4 R_5 R_6 s^3 + R_4 R_5 + s^2 \left(C_1 C_3 R_2 R_3 R_4 R_5 - C_1 C_6 R_2 R_3 R_4 R_6 + C_1 C_6 R_2 R_3 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 R_6 + C_1 C_6 R_3 R_4 R_5 R_6 \right) + s \left(-C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 R_6 \right)}
10.820 X-INVALID-ORDER-820 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                    =\frac{C_3C_5R_2R_3R_4R_6s^2+C_5R_2R_4R_6s}{R_4+s^3\left(C_1C_3C_6R_2R_3R_4R_6-C_1C_5C_6R_2R_3R_4R_6\right)+s^2\left(C_1C_3R_2R_3R_4-C_1C_5R_2R_3R_4+C_1C_6R_2R_3R_6+C_1C_6R_2R_4R_6+C_1C_6R_3R_4R_6\right)+s\left(C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_3R_3R_4+C_6R_4R_6\right)}
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10.821 X-INVALID-ORDER-821 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{R_3}{C_3 R_3 s + 1}, \ R_4, \ R_5 + \frac{1}{C_5 s}, \ R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4R_6s^2 + C_5R_2R_4R_6s}{C_1C_3C_5R_2R_3R_4R_5s^3 + R_4 + s^2\left(C_1C_3R_2R_3R_4 - C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_5 + C_1C_5R_2R_4R_5 + C_1C_5R_3R_4R_5 + C_3C_5R_3R_4R_5\right) + s\left(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_3R_3R_4 + C_5R_4R_5\right)}$

10.822 X-INVALID-ORDER-822 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4s + C_5R_2R_4}{C_1C_3C_5C_6R_2R_3R_4R_5s^3 + C_6R_4 + s^2\left(C_1C_3C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_5 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_3R_4R_5\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4 + C_5C_6R_4R_5\right)}$

10.823 X-INVALID-ORDER-823 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_4R_6s^2 + C_5R_2R_4 + s\left(C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_1C_3C_5C_6R_2R_3R_4R_5s^3 + C_6R_4 + s^2\left(C_1C_3C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_5 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_3R_4R_5\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4 + C_5C_6R_4R_5\right)}$

10.824 X-INVALID-ORDER-824 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.825 X-INVALID-ORDER-825 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{R_5}{C_5 R_5 s+1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4R_5s^2 + R_2R_4 + s\left(C_3R_2R_3R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right)}$

10.826 X-INVALID-ORDER-826 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_4R_5R_6s^3 + R_2R_4 + s^2\left(C_3C_5R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_6 + C_5C_6R_2R_4R_5R_6\right) + s\left(C_3R_2R_3R_4 + C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right)}$

10.827 X-INVALID-ORDER-827 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.828 X-INVALID-ORDER-828 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{R_3}{C_3 R_3 s + 1}, \ \frac{1}{C_4 s}, \ R_5, \ \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_2 R_3 s + R_2}{C_6 R_5 s + s^3 \left(C_1 C_3 C_6 R_2 R_3 R_5 + C_1 C_4 C_6 R_2 R_3 R_5 \right) + s^2 \left(-C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 + C_3 C_6 R_3 R_5 \right)}$

10.829 X-INVALID-ORDER-829 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_2R_3R_6s^2 + R_2 + s\left(C_3R_2R_3 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_3C_6R_3R_5\right)}$

10.830 X-INVALID-ORDER-830 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3R_2R_3R_6s + R_2R_6}{R_5 + s^3\left(C_1C_3C_6R_2R_3R_5R_6 + C_1C_4C_6R_2R_3R_5R_6\right) + s^2\left(C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5 - C_1C_6R_2R_3R_6 + C_1C_6R_2R_5R_6 + C_1C_6R_3R_5R_6\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_3R_3R_5 + C_6R_5R_6\right)}$

10.831 X-INVALID-ORDER-831 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_6s^2 + C_5R_2R_6s}{s^3\left(C_1C_3C_6R_2R_3R_6 + C_1C_4C_6R_2R_3R_6 - C_1C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3 + C_1C_6R_2R_6 + C_1C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_1R_2 + C_1R_3 + C_3R_3 + C_6R_6\right) + 1}$

10.832 X-INVALID-ORDER-832 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_6s^2 + C_5R_2R_6s}{s^3\left(C_1C_3C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_5\right) + s^2\left(C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3 + C_1C_5R_2R_5 + C_1C_5R_3R_5 + C_3C_5R_3R_5\right) + s\left(C_1R_2 + C_1R_3 + C_3R_3 + C_5R_5\right) + 1}$

10.833 X-INVALID-ORDER-833 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_3s + C_5R_2}{C_6 + s^3\left(C_1C_3C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_3C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3 + C_5C_6R_3\right)}$

10.834 X-INVALID-ORDER-834 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_6s^2 + C_5R_2 + s\left(C_3C_5R_2R_3 + C_5C_6R_2R_6\right)}{C_6 + s^3\left(C_1C_3C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3 + C_5C_6R_3\right)}$

10.835 X-INVALID-ORDER-835 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_6s^2 + C_5R_2R_6s}{s^4\left(C_1C_3C_5C_6R_2R_3R_5R_6 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_4C_5R_2R_3R_6 + C_1C_5C_6R_2R_3R_6 + C_1C_5C_6R_2R_3R_5 + C_1C_5C_5C_5R_5R_5 + C_1C_5C_5C_5R_5R_5 + C_1C_5C_5C_5R_5R_5 + C_1C_5C_5C_5R_5R_5 + C_1C_5C_5C_5R_5R_5 + C_1C_5C_5C_5R_5R_5 + C_1C_5C_5C_5R_$

10.836 X-INVALID-ORDER-836 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_5s^2 + R_2 + s\left(C_3R_2R_3 + C_5R_2R_5\right)}{C_6R_5s + s^3\left(C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_3C_6R_3R_5\right)}$

10.837 X-INVALID-ORDER-837 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_5R_6s^3 + R_2 + s^2\left(C_3C_5R_2R_3R_5 + C_3C_6R_2R_3R_6 + C_5C_6R_2R_5R_6\right) + s\left(C_3R_2R_3 + C_5R_2R_5 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_3C_6R_3R_5\right)}$

10.838 X-INVALID-ORDER-838 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_5R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_3C_6R_2R_3R_5R_6 + C_1C_4C_6R_2R_3R_5R_6 - C_1C_5C_6R_2R_3R_5R_6\right) + s^2\left(C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5 - C_1C_5R_2R_3R_5 + C_1C_6R_2R_3R_5 + C_1C_6R_3R_5R_6 + C_1C_6R_3R_5R_6 + C_1C_6R_3R_5R_6\right) + s\left(-C_1R_2R_3 + C_1R_3R_5 + C_1R_3$

10.839 X-INVALID-ORDER-839 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3C_4R_2R_3R_4R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_6 + C_4R_2R_4R_6\right)}{C_1C_3C_4R_2R_3R_4R_5s^3 + R_5 + s^2\left(C_1C_3R_2R_3R_5 - C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_4R_5 + C_1C_4R_3R_4R_5 + C_3C_4R_3R_4R_5\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_3R_3R_5 + C_4R_4R_5\right)}$

10.840 X-INVALID-ORDER-840 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4R_2R_3R_4s^2 + R_2 + s\left(C_3R_2R_3 + C_4R_2R_4\right)}{C_1C_3C_4C_6R_2R_3R_4s^4 + C_6R_5s + s^3\left(C_1C_3C_6R_2R_3R_5 - C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_4R_5\right)}$

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10.841 X-INVALID-ORDER-841 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                               H(s) = \frac{C_3C_4C_6R_2R_3R_4R_6s^3 + R_2 + s^2\left(C_3C_4R_2R_3R_4 + C_3C_6R_2R_3R_6 + C_4C_6R_2R_4R_6\right) + s\left(C_3R_2R_3 + C_4R_2R_4 + C_6R_2R_6\right)}{C_1C_3C_4C_6R_2R_3R_4R_5s^4 + C_6R_5s + s^3\left(C_1C_3C_6R_2R_3R_5 - C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_3C_4C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_4R_5\right)}
10.842 X-INVALID-ORDER-842 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_3C_4R_2R_3R_4R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_6 + C_4R_2R_4R_6\right)
H(s) = \frac{C_3C_4R_2R_3R_4R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_4R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_6 + C_4R_2R_4R_6\right)\right)}{C_1C_3C_4C_6R_2R_3R_4R_5R_6s^4 + R_5 + s^3\left(C_1C_3C_4R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_5R_6 + C_1C_4C_6R_2R_3R_5R_6 + C_1C_4C_6R_2R_3R_4R_5R_6 + C_1C_4C_6R_2R_4R_5R_6 + C_1C_4C_6R_4R_4R_5R_6 + C_1C_4C_6R_4R_5R_5R_5 + C_1C_4C_6R_5R_5R_5R_5 + C_1C_4C_6R_5R_5R_5R_5 + C_1C_
10.843 X-INVALID-ORDER-843 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                    H(s) = \frac{C_3C_4C_5R_2R_3R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_3C_5R_2R_3R_6 + C_4C_5R_2R_4R_6\right)}{s^3\left(C_1C_3C_4R_2R_3R_4 - C_1C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_3R_2R_3 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3 + C_3C_4R_3R_4\right) + s\left(C_1R_2 + C_1R_3 + C_3R_3 + C_4R_4\right) + 1}
10.844 X-INVALID-ORDER-844 Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{R_3}{C_3 R_3 s + 1}, \ R_4 + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)
                                                                     H(s) = \frac{C_3C_4C_5R_2R_3R_4s^2 + C_5R_2 + s\left(C_3C_5R_2R_3 + C_4C_5R_2R_4\right)}{C_6 + s^3\left(C_1C_3C_4C_6R_2R_3R_4 - C_1C_4C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_3C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_2R_3 + C_3C_4C_6R_3R_4\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3 + C_4C_6R_3\right)}
10.845 X-INVALID-ORDER-845 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                     H(s) = \frac{C_3C_4C_5C_6R_2R_3R_4R_6s^3 + C_5R_2 + s^2\left(C_3C_4C_5R_2R_3R_4 + C_3C_5C_6R_2R_3R_6 + C_4C_5C_6R_2R_4R_6\right) + s\left(C_3C_5R_2R_3 + C_4C_5R_2R_4 + C_5C_6R_2R_6\right)}{C_6 + s^3\left(C_1C_3C_4C_6R_2R_3R_4 - C_1C_4C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_3C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_2R_3 + C_3C_4C_6R_3R_4\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3 + C_4C_6R_3\right)}
10.846 X-INVALID-ORDER-846 Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{R_3}{C_3 R_3 s + 1}, \ R_4 + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_4C_5R_2R_3R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_3C_5R_2R_3R_6 + C_4C_5R_2R_4R_6\right)}{s^4\left(C_1C_3C_4C_6R_2R_3R_4R_6 - C_1C_4C_5R_2R_3R_4 + C_1C_3C_6R_2R_3R_6 + C_1C_4C_6R_2R_3R_6 + C_1C_4C_6R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_{3}C_{4}C_{5}R_{2}R_{3}R_{4}R_{6}s^{3} + C_{5}R_{2}R_{6}s + s^{2}\left(C_{3}C_{5}R_{2}R_{3}R_{6} + C_{4}C_{5}R_{2}R_{4}R_{6}\right)
10.847 X-INVALID-ORDER-847 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_2R_3R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_3C_5R_2R_3R_6 + C_4C_5R_2R_4R_6\right)}{C_1C_3C_4C_5R_2R_3R_4R_5s^4 + s^3\left(C_1C_3C_4R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_5 + C_1C_4C_5R_2R_4R_5 + C_1C_4C_5R_3R_4R_5\right) + s^2\left(C_1C_3R_2R_3 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_5R_2R_3 + C_1C_5R_2R_5 + C_1C_5R_2R_5 + C_1C_5R_2R_5\right)}
10.848 X-INVALID-ORDER-848 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3C_4C_5R_2R_3R_4s^2 + C_5R_2 + s\left(C_3C_5R_2R_3 + C_4C_5R_2R_3\right)}{C_1C_3C_4C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_5C_6R_5R_5 + C_1C_5C_5C_6R_5R_5 + C_1C_5C_5$

10.849 X-INVALID-ORDER-849 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_2R_3R_4R_6s^3 + C_5R_2 + s^2\left(C_3C_4C_5R_2R_3R_4 + C_3C_5C_6R_2R_3R_6 + C_4C_5C_6R_2R_4R_6\right) + s\left(C_3C_5R_2R_3 + C_4C_5R_2R_3R_4 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_2R_4R_5 +$

10.850 X-INVALID-ORDER-850 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

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10.851 X-INVALID-ORDER-851 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)
                                          H(s) = \frac{C_3C_4C_5R_2R_3R_4R_5R_6s^3 + R_2R_6 + s^2\left(C_3C_4R_2R_3R_4R_6 + C_3C_5R_2R_3R_5R_6 + C_4C_5R_2R_4R_5R_6\right) + s\left(C_3R_2R_3R_6 + C_4R_2R_4R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_3C_4R_2R_3R_4R_5 - C_1C_4C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_3R_2R_3R_5 - C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_4R_5 + C_1C_4R_3R_4R_5 - C_1C_5R_2R_3R_4R_5\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_3R_3R_5 + C_3R_4R_5\right)}
10.852 X-INVALID-ORDER-852 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_2R_3R_4R_5s^3 + R_2 + s^2\left(C_3C_4R_2R_3R_4 + C_3C_5R_2R_3R_5 + C_4C_5R_2R_4R_5\right) + s\left(C_3R_2R_3 + C_4R_2R_4 + C_5R_2R_5\right)}{C_6R_5s + s^4\left(C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_4R_4R_5 + C_1C_4C_6R_4R_5 +
10.853 X-INVALID-ORDER-853 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_2 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6 + \frac{1}{C_6 s}\right)
                                   \frac{C_3C_4C_5C_6R_2R_3R_4R_5R_6s^4 + R_2 + s^3\left(C_3C_4C_5R_2R_3R_4R_5 + C_3C_4C_6R_2R_3R_4R_6 + C_3C_5C_6R_2R_3R_5R_6 + C_4C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_3C_4R_2R_3R_4 + C_3C_5R_2R_3R_5 + C_3C_6R_2R_3R_6 + C_4C_5R_2R_4R_5 + C_4C_6R_2R_4R_6 + C_5C_6R_2R_4R_6 + C_5C_6R_2R_3R_4 + C_5C_
10.854 X-INVALID-ORDER-854 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_3C_4C_5R_2R_3R_4R_5R_6s^3 + R_2R_6 + s^2(C_3C_4R_2R_3R_4R_6 + C_3C_4C_5R_2R_3R_4R_6 + C_3C_4C_5R_2R_3R_4R_5R_6s^3 + R_2R_6 + s^2(C_3C_4R_2R_3R_4R_6 + C_3C_4R_2R_3R_4R_6 + C_3C_4R_5R_5 + C_3C_4R_5R_5 + C_3C_4R_5R_5 + C_3C_4R_5R_5 + C_3C_5R_5 + C_5R_5 + C_
                                  10.855 X-INVALID-ORDER-855 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                            H(s) = \frac{C_3 R_2 R_3 R_4 s + R_2 R_4}{C_6 R_4 R_5 s + s^3 \left(C_1 C_3 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 + C_3 C_6 R_3 R_4 R_5\right)}
10.856 X-INVALID-ORDER-856 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                           H(s) = \frac{C_3C_6R_2R_3R_4R_6s^2 + R_2R_4 + s\left(C_3R_2R_3R_4 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right)}
10.857 X-INVALID-ORDER-857 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3 R_2 R_3 R_4 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^3 \left(C_1 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 R_2 R_3 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 R_6 + C_1 C_6 R_5 R_5 R_6 + C_
10.858 X-INVALID-ORDER-858 Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \frac{R_3}{C_3 R_3 s+1}, \ \frac{R_4}{C_4 R_4 s+1}, \ \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s+1}\right)
                                     \frac{C_{3}C_{5}R_{2}R_{3}R_{4}R_{6}s^{2}+C_{5}R_{2}R_{4}R_{6}s}{R_{4}+s^{3}\left(C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{4}C_{6}R_{2}R_{3}R_{4}R_{6}-C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{4}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1
10.859 X-INVALID-ORDER-859 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                              H(s) = \frac{C_3C_5R_2R_3R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^3\left(C_1C_3C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_5R_2R_3R_4 + C_1C_5R_3R_4R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_
10.860 X-INVALID-ORDER-860 Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $\frac{C_{3}C_{5}R_{2}R_{3}R_{4}s+C_{5}R_{2}R_{4}}{C_{6}R_{4}+s^{3}\left(C_{1}C_{3}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_$

10.861 X-INVALID-ORDER-861 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_4R_6s^2 + C_5R_2R_4 + s\left(C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^3\left(C_1C_3C_5C_6R_2R_3R_4R_5 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_5R_4 + C_1C_5C_6R_5R_4 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_5C_6R_5R_5R_5 + C_1C_5C_5C_6R$

10.862 X-INVALID-ORDER-862 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{\cup_{3}\cup_{5}R_{4}}{R_{4}+s^{4}\left(C_{1}C_{3}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{1}C_{4}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{4}C_{5}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{5}C_{6}R_$

10.863 X-INVALID-ORDER-863 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & R_2, & \frac{R_3}{C_3 R_3 s + 1}, & \frac{R_4}{C_4 R_4 s + 1}, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{1}{C_6 s} \end{pmatrix}$

 $H(s) = \frac{C_3C_5R_2R_3R_4R_5s^2 + R_2R_4 + s\left(C_3R_2R_3R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right)}$

10.864 X-INVALID-ORDER-864 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_4R_5R_6s^3 + R_2R_4 + s^2\left(C_3C_5R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_6 + C_5C_6R_2R_4R_5R_6\right) + s\left(C_3R_2R_3R_4 + C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right)}$

10.865 X-INVALID-ORDER-865 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^3\left(C_1C_3C_6R_2R_3R_4R_5R_6 + C_1C_4C_6R_2R_3R_4R_5R_6 + C_1C_5C_6R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_3R_4R_5 + C_1C_6R_5R_5 + C_1C_6R_5R_5$

10.866 X-INVALID-ORDER-866 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5, R_6\right)$

$$H(s) = \frac{R_4 R_6}{C_1 C_2 R_3 R_4 R_5 s^2 + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$$

10.867 X-INVALID-ORDER-867 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{R_4}{C_1 C_2 C_6 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right)}$$

10.868 X-INVALID-ORDER-868 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_6 R_4 R_6 s + R_4}{C_1 C_2 C_6 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right)}$$

10.869 X-INVALID-ORDER-869 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{R_4 R_6}{C_1 C_2 C_6 R_3 R_4 R_5 R_6 s^3 + s^2 \left(C_1 C_2 R_3 R_4 R_5 - C_1 C_6 R_3 R_4 R_6 + C_1 C_6 R_3 R_5 R_6 + C_1 C_6 R_4 R_5 R_6 + C_2 C_6 R_4 R_5 R_6\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$$

10.870 X-INVALID-ORDER-870 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4 + s \left(C_1 C_2 R_3 R_4 - C_1 C_5 R_3 R_4\right)}$$

10.871 X-INVALID-ORDER-871
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_4}{s^2 \left(C_1 C_2 C_6 R_3 R_4 - C_1 C_5 C_6 R_3 R_4 \right) + s \left(C_1 C_6 R_3 + C_1 C_6 R_4 + C_2 C_6 R_4 \right)}$$

10.872 X-INVALID-ORDER-872
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_4 R_6 s + C_5 R_4}{s^2 \left(C_1 C_2 C_6 R_3 R_4 - C_1 C_5 C_6 R_3 R_4\right) + s \left(C_1 C_6 R_3 + C_1 C_6 R_4 + C_2 C_6 R_4\right)}$$

10.873 X-INVALID-ORDER-873
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_4}{C_1 C_2 C_5 C_6 R_3 R_4 R_5 s^3 + s^2 \left(C_1 C_2 C_6 R_3 R_4 - C_1 C_5 C_6 R_3 R_4 + C_1 C_5 C_6 R_3 R_5 + C_1 C_5 C_6 R_4 R_5 + C_2 C_5 C_6 R_4 R_5\right) + s \left(C_1 C_6 R_3 + C_1 C_6 R_4 + C_2 C_6 R_4\right)}$$

10.874 X-INVALID-ORDER-874
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_4R_6s + C_5R_4}{C_1C_2C_5C_6R_3R_4R_5s^3 + s^2\left(C_1C_2C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5 + C_2C_5C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.875 X-INVALID-ORDER-875 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_4 R_6}{C_1 C_2 C_5 C_6 R_3 R_4 R_5 R_6 s^3 + C_1 R_3 + C_1 R_4 + C_2 R_4 + s^2 \left(C_1 C_2 C_5 R_3 R_4 R_5 + C_1 C_5 C_6 R_3 R_4 R_6 + C_1 C_5 C_6 R_3 R_4 R_6 + C_1 C_5 C_6 R_4 R_5 R_6 + C_1 C_5 C_6 R_5$$

10.876 X-INVALID-ORDER-876 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_5 R_4 R_5 R_6 s + R_4 R_6}{s^2 \left(C_1 C_2 R_3 R_4 R_5 - C_1 C_5 R_3 R_4 R_5\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$$

10.877 X-INVALID-ORDER-877 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_4 R_5 s + R_4}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 - C_1 C_5 C_6 R_3 R_4 R_5 \right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5 \right)}$$

10.878 X-INVALID-ORDER-878 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_4R_5R_6s^2 + R_4 + s\left(C_5R_4R_5 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

10.879 X-INVALID-ORDER-879 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_4 R_5 R_6 s + R_4 R_6}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 R_6 - C_1 C_5 C_6 R_3 R_4 R_5 R_6\right) + s^2 \left(C_1 C_2 R_3 R_4 R_5 - C_1 C_5 R_3 R_4 R_5 - C_1 C_6 R_3 R_4 R_6 + C_1 C_6 R_3 R_5 R_6 + C_1 C_6 R_4 R_5 R_6\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$$

10.880 X-INVALID-ORDER-880 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{R_6}{s^2 \left(C_1 C_2 R_3 R_5 + C_1 C_4 R_3 R_5 \right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5 \right)}$$

10.881 X-INVALID-ORDER-881
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{1}{s^3 \left(C_1 C_2 C_6 R_3 R_5 + C_1 C_4 C_6 R_3 R_5 \right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5 \right)}$$

10.882 X-INVALID-ORDER-882
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_6 R_6 s + 1}{s^3 \left(C_1 C_2 C_6 R_3 R_5 + C_1 C_4 C_6 R_3 R_5 \right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5 \right)}$$

10.883 X-INVALID-ORDER-883
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{R_6}{s^3 \left(C_1 C_2 C_6 R_3 R_5 R_6 + C_1 C_4 C_6 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 R_3 R_5 + C_1 C_4 R_3 R_5 - C_1 C_6 R_3 R_6 + C_1 C_6 R_5 R_6 + C_2 C_6 R_5 R_6\right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5\right)}$$

10.884 X-INVALID-ORDER-884
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_5 R_6}{C_1 + C_2 + s \left(C_1 C_2 R_3 + C_1 C_4 R_3 - C_1 C_5 R_3\right)}$$

10.885 X-INVALID-ORDER-885
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5}{s^2 \left(C_1 C_2 C_6 R_3 + C_1 C_4 C_6 R_3 - C_1 C_5 C_6 R_3 \right) + s \left(C_1 C_6 + C_2 C_6 \right)}$$

10.886 X-INVALID-ORDER-886
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_6 s + C_5}{s^2 \left(C_1 C_2 C_6 R_3 + C_1 C_4 C_6 R_3 - C_1 C_5 C_6 R_3 \right) + s \left(C_1 C_6 + C_2 C_6 \right)}$$

10.887 X-INVALID-ORDER-887
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5}{s^3 \left(C_1 C_2 C_5 C_6 R_3 R_5 + C_1 C_4 C_5 C_6 R_3 R_5 \right) + s^2 \left(C_1 C_2 C_6 R_3 + C_1 C_4 C_6 R_3 - C_1 C_5 C_6 R_3 + C_1 C_5 C_6 R_5 + C_2 C_5 C_6 R_5 \right) + s \left(C_1 C_6 + C_2 C_6 \right)}$$

10.888 X-INVALID-ORDER-888
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_6s + C_5}{s^3\left(C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_1C_5C_6R_5 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.889 X-INVALID-ORDER-889
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_5 R_6}{C_1 + C_2 + s^3 \left(C_1 C_2 C_5 C_6 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 C_5 R_3 R_5 + C_1 C_2 C_6 R_3 R_6 + C_1 C_4 C_5 R_3 R_6 + C_1 C_5 C_6 R_5 R_6 + C_1$$

10.890 X-INVALID-ORDER-890
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_5 R_5 R_6 s + R_6}{s^2 \left(C_1 C_2 R_3 R_5 + C_1 C_4 R_3 R_5 - C_1 C_5 R_3 R_5 \right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5 \right)}$$

10.891 X-INVALID-ORDER-891
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 R_5 s + 1}{s^3 \left(C_1 C_2 C_6 R_3 R_5 + C_1 C_4 C_6 R_3 R_5 - C_1 C_5 C_6 R_3 R_5 \right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5 \right)}$$

10.892 X-INVALID-ORDER-892
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5 C_6 R_5 R_6 s^2 + s \left(C_5 R_5 + C_6 R_6\right) + 1}{s^3 \left(C_1 C_2 C_6 R_3 R_5 + C_1 C_4 C_6 R_3 R_5 - C_1 C_5 C_6 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5\right)}$$

10.893 X-INVALID-ORDER-893
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$$

$$H(s) = \frac{C_5 R_5 R_6 s + R_6}{s^3 \left(C_1 C_2 C_6 R_3 R_5 R_6 + C_1 C_4 C_6 R_3 R_5 R_6 - C_1 C_5 C_6 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 R_3 R_5 + C_1 C_4 R_3 R_5 - C_1 C_5 R_3 R_6 + C_1 C_6 R_5 R_6 + C_2 C_6 R_5 R_6\right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5\right)}$$

10.894 X-INVALID-ORDER-894
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_4 R_4 R_6 s + R_6}{C_1 C_2 C_4 R_3 R_4 R_5 s^3 + s^2 \left(C_1 C_2 R_3 R_5 - C_1 C_4 R_3 R_4 + C_1 C_4 R_3 R_5 + C_1 C_4 R_4 R_5 + C_2 C_4 R_4 R_5\right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5\right)}$$

10.895 X-INVALID-ORDER-895
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_4 R_4 s + 1}{C_1 C_2 C_4 C_6 R_3 R_4 R_5 s^4 + s^3 \left(C_1 C_2 C_6 R_3 R_5 - C_1 C_4 C_6 R_3 R_4 + C_1 C_4 C_6 R_3 R_5 + C_1 C_4 C_6 R_4 R_5 + C_2 C_4 C_6 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5\right)}$$

10.896 X-INVALID-ORDER-896
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_4 C_6 R_4 R_6 s^2 + s \left(C_4 R_4 + C_6 R_6\right) + 1}{C_1 C_2 C_4 C_6 R_3 R_4 R_5 s^4 + s^3 \left(C_1 C_2 C_6 R_3 R_5 - C_1 C_4 C_6 R_3 R_4 + C_1 C_4 C_6 R_3 R_5 + C_1 C_4 C_6 R_4 R_5 + C_2 C_4 C_6 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5\right)}$$

10.897 X-INVALID-ORDER-897 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_4 R_4 R_6 s + R_6}{C_1 C_2 C_4 C_6 R_3 R_4 R_5 R_6 s^4 + s^3 \left(C_1 C_2 C_4 R_3 R_4 R_5 + C_1 C_2 C_6 R_3 R_5 R_6 - C_1 C_4 C_6 R_3 R_4 R_6 + C_1 C_4 C_6 R_3 R_5 R_6 + C_1 C_4 C_6 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_3 R_5 - C_1 C_4 R_3 R_4 + C_1 C_4 R_3 R_5 + C_1 C_4 R_4 R_5 - C_1 C_6 R_3 R_6 + C_1 C_6 R_5 R_6 + C_2 C_4 R_4 R_5 + C_2 C_6 R_5 R_6 \right)}$$

10.898 X-INVALID-ORDER-898 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4C_5R_4s + C_5}{s^3\left(C_1C_2C_4C_6R_3R_4 - C_1C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_4 - C_1C_5C_6R_3 + C_2C_4C_6R_4\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.899 X-INVALID-ORDER-899 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4C_5C_6R_4R_6s^2 + C_5 + s\left(C_4C_5R_4 + C_5C_6R_6\right)}{s^3\left(C_1C_2C_4C_6R_3R_4 - C_1C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_4 - C_1C_5C_6R_3 + C_2C_4C_6R_4\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.900 X-INVALID-ORDER-900 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_4C_5R_4R_6s + C_5R_6}{C_1 + C_2 + s^3\left(C_1C_2C_4C_6R_3R_4R_6 - C_1C_4C_5C_6R_3R_4R_6\right) + s^2\left(C_1C_2C_4R_3R_4 + C_1C_2C_6R_3R_6 - C_1C_4C_5R_3R_4 + C_1C_4C_6R_3R_6 + C_2C_4C_6R_4R_6\right) + s\left(C_1C_2R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_1C_4R_4 + C_2C_6R_6\right)}$$

10.901 X-INVALID-ORDER-901 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_4R_6s + C_5R_6}{C_1C_2C_4C_5R_3R_4R_5s^3 + C_1 + C_2 + s^2\left(C_1C_2C_4R_3R_4 + C_1C_2C_5R_3R_5 - C_1C_4C_5R_3R_4 + C_1C_4C_5R_3R_5 + C_1C_4C_5R_4R_5\right) + s\left(C_1C_2R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_1C_5R_5 + C_2C_4R_4 + C_2C_5R_5\right)}$

10.902 X-INVALID-ORDER-902 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_4s + C_5}{C_1C_2C_4C_5C_6R_3R_4R_5s^4 + s^3\left(C_1C_2C_4C_6R_3R_4 + C_1C_2C_5C_6R_3R_5 - C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_3 + C_1C_5C_6R_5 + C_2C_4C_6R_4 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_4C_5C_6R_3R_4 + C_1C_5C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_4 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_4C_5C_6R_3R_4 + C_1C_5C_6R_3 + C_1C_4C_5C_6R_3 + C_1C_4C_6R_4 + C_2C_5C_6R_5\right) + s\left(C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_5\right) + s\left(C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_5\right) + s\left(C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_5\right) + s\left(C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_5\right) + s\left(C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s\left(C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s\left(C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s\left(C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_5\right) + s\left(C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_5\right) + s\left(C_1C_4C_5C_6R_5\right) + s\left(C_1C_4$

10.903 X-INVALID-ORDER-903 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_4R_6s^2 + C_5 + s\left(C_4C_5R_4 + C_5C_6R_6\right)}{C_1C_2C_4C_5C_6R_3R_4 + C_1C_2C_5C_6R_3R_5 - C_1C_4C_5C_6R_3R_4 + C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_4R_5) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_3 + C_1C_5C_6R_5 + C_2C_4C_6R_4 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_6C_6R_4 + C_3C_6C_6R_4 + C_3C_6C_6C_6R_4 + C_3C_6C_6C_6C_6C_6C$

10.904 X-INVALID-ORDER-904 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{CC}{C_1C_2C_4C_5C_6R_3R_4R_5R_6s^4 + C_1 + C_2 + s^3\left(C_1C_2C_4C_5R_3R_4R_5 + C_1C_2C_4C_6R_3R_4R_6 + C_1C_4C_5C_6R_3R_4R_6 + C_1C_4C_5C_6R_3R_5R_6 + C_1C_4C_5C_6R_4R_5R_6 + C_2C_4C_5C_6R_4R_5R_6 + C_2C_4C_5C_6R_4R_5R_6 + C_2C_4C_5C_6R_3R_4R_5 + C_1C_2C_5R_3R_5 + C_1C_2C_5R_5R_5 + C_1C_2C$

10.905 X-INVALID-ORDER-905 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_4C_5R_4R_5R_6s^2 + R_6 + s\left(C_4R_4R_6 + C_5R_5R_6\right)}{s^3\left(C_1C_2C_4R_3R_4R_5 - C_1C_4C_5R_3R_4R_5\right) + s^2\left(C_1C_2R_3R_5 - C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_4R_5 - C_1C_5R_3R_5 + C_2C_4R_4R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$

10.906 X-INVALID-ORDER-906 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_4R_5s^2 + s\left(C_4R_4 + C_5R_5\right) + 1}{s^4\left(C_1C_2C_4C_6R_3R_4R_5 - C_1C_4C_5C_6R_3R_4R_5\right) + s^3\left(C_1C_2C_6R_3R_5 - C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 + C_1C_$

10.907 X-INVALID-ORDER-907 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_4R_5R_6s^3 + s^2\left(C_4C_5R_4R_5 + C_4C_6R_4R_6 + C_5C_6R_5R_6\right) + s\left(C_4R_4 + C_5R_5 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_4C_6R_3R_4R_5 - C_1C_4C_5C_6R_3R_4 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 +$

10.908 X-INVALID-ORDER-908 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4C_5R_4R_5R_6s^2 + R_6 + s\left(C_4R_4R_6 + C_5R_5R_6\right)}{s^4\left(C_1C_2C_4C_6R_3R_4R_5R_6 - C_1C_4C_5R_3R_4R_5 + C_1C_2C_6R_3R_5R_6 - C_1C_4C_5R_3R_4R_5 - C_1C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_5R_6 + C_1C_4C_6R_5R_5R_6 + C_1C_4C_6R_5R_5R_5 + C_1C_4C_6R_5R_5R_5 + C_1C_4C_6R_5R_5R_5 + C_1C_4C_6R_5R_5R_5 + C_1C_4C_6R_5R_5R_5 + C_1C_4C_6R_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5 + C_1C_5C_6R_5R_5 + C_1C_5C$

10.909 X-INVALID-ORDER-909 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{R_4 R_6}{s^2 \left(C_1 C_2 R_3 R_4 R_5 + C_1 C_4 R_3 R_4 R_5 \right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5 \right)}$

10.910 X-INVALID-ORDER-910 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_4}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 R_5 \right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5 \right)}$

10.911 X-INVALID-ORDER-911
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_6 R_4 R_6 s + R_4}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 R_5 \right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5 \right)}$$

10.912 X-INVALID-ORDER-912 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{R_4 R_6}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 R_6 + C_1 C_4 C_6 R_3 R_4 R_5 R_6\right) + s^2 \left(C_1 C_2 R_3 R_4 R_5 + C_1 C_4 R_3 R_4 R_5 - C_1 C_6 R_3 R_4 R_6 + C_1 C_6 R_3 R_5 R_6 + C_1 C_6 R_4 R_5 R_6\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$$

10.913 X-INVALID-ORDER-913 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4 + s \left(C_1 C_2 R_3 R_4 + C_1 C_4 R_3 R_4 - C_1 C_5 R_3 R_4\right)}$$

10.914 X-INVALID-ORDER-914 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_4}{s^2 \left(C_1 C_2 C_6 R_3 R_4 + C_1 C_4 C_6 R_3 R_4 - C_1 C_5 C_6 R_3 R_4 \right) + s \left(C_1 C_6 R_3 + C_1 C_6 R_4 + C_2 C_6 R_4 \right)}$$

10.915 X-INVALID-ORDER-915 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 C_6 R_4 R_6 s + C_5 R_4}{s^2 \left(C_1 C_2 C_6 R_3 R_4 + C_1 C_4 C_6 R_3 R_4 - C_1 C_5 C_6 R_3 R_4\right) + s \left(C_1 C_6 R_3 + C_1 C_6 R_4 + C_2 C_6 R_4\right)}$$

10.916 X-INVALID-ORDER-916 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_4}{s^3 \left(C_1 C_2 C_5 C_6 R_3 R_4 R_5 + C_1 C_4 C_5 C_6 R_3 R_4 R_5\right) + s^2 \left(C_1 C_2 C_6 R_3 R_4 + C_1 C_4 C_6 R_3 R_4 - C_1 C_5 C_6 R_3 R_5 + C_1 C_5 C_6 R_4 R_5 + C_2 C_5 C_6 R_4 R_5\right) + s \left(C_1 C_6 R_3 + C_1 C_6 R_4 + C_2 C_6 R_4\right)}$$

10.917 X-INVALID-ORDER-917 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_4R_6s + C_5R_4}{s^3\left(C_1C_2C_5C_6R_3R_4R_5 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5 + C_2C_5C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.918 X-INVALID-ORDER-918 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4 + s^3 \left(C_1 C_2 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_2 C_5 R_3 R_4 R_5 + C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_4 C_5 R_3 R_4 R_6 + C_1 C_5 C_6 R_4 R_5 R_6 + C_1 C_5 C_6 R_5 R_5$$

10.919 X-INVALID-ORDER-919 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_5 R_4 R_5 R_6 s + R_4 R_6}{s^2 \left(C_1 C_2 R_3 R_4 R_5 + C_1 C_4 R_3 R_4 R_5 - C_1 C_5 R_3 R_4 R_5\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$$

10.920 X-INVALID-ORDER-920 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_4 R_5 s + R_4}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 R_5 - C_1 C_5 C_6 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right)}$$

10.921 X-INVALID-ORDER-921
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_5C_6R_4R_5R_6s^2 + R_4 + s\left(C_5R_4R_5 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

10.922 X-INVALID-ORDER-922 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_4 R_5 R_6 s + R_4 R_6}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 R_6 + C_1 C_4 C_6 R_3 R_4 R_5 R_6 - C_1 C_5 C_6 R_3 R_4 R_5 R_6\right) + s^2 \left(C_1 C_2 R_3 R_4 R_5 + C_1 C_4 R_3 R_4 R_5 - C_1 C_6 R_3 R_4 R_6 + C_1 C_6 R_4 R_5 R_6 + C_2 C_6 R_4 R_5 R_6\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$

10.923 X-INVALID-ORDER-923 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_4 R_6}{-C_1 R_4 + C_1 R_5 + s \left(C_1 C_2 R_4 R_5 + C_1 C_3 R_4 R_5 + C_2 C_3 R_4 R_5\right)}$$

10.924 X-INVALID-ORDER-924 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_4}{s^2 \left(C_1 C_2 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5 + C_2 C_3 C_6 R_4 R_5 \right) + s \left(-C_1 C_6 R_4 + C_1 C_6 R_5 \right)}$$

10.925 X-INVALID-ORDER-925 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_4R_6s + C_3R_4}{s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.926 X-INVALID-ORDER-926 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & R_4, & \frac{1}{C_5 s}, & R_6 \end{pmatrix}$

$$H(s) = \frac{C_3 C_5 R_4 R_6 s}{C_1 + s \left(C_1 C_2 R_4 + C_1 C_3 R_4 - C_1 C_5 R_4 + C_2 C_3 R_4\right)}$$

10.927 X-INVALID-ORDER-927 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 C_5 R_4}{C_1 C_6 + s \left(C_1 C_2 C_6 R_4 + C_1 C_3 C_6 R_4 - C_1 C_5 C_6 R_4 + C_2 C_3 C_6 R_4\right)}$$

10.928 X-INVALID-ORDER-928 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_4R_6s + C_3C_5R_4}{C_1C_6 + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

10.929 X-INVALID-ORDER-929 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_5C_6R_4R_5R_6 + C_1C_3C_5C_6R_4R_5R_6 + C_2C_3C_5C_6R_4R_5R_6 + C_1C_3C_5R_4R_5 + C_1C_3C_6R_4R_6 + C_1C_3C_5R_4R_5 + C_1C_3C_6R_4R_6 + C_1C_3C_6R_$$

10.930 X-INVALID-ORDER-930 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & R_4, & \frac{R_5}{C_5 R_5 s + 1}, & R_6 \end{pmatrix}$

$$H(s) = \frac{C_3C_5R_4R_5R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

10.931 X-INVALID-ORDER-931
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_4R_5s + C_3R_4}{s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.932 X-INVALID-ORDER-932
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_4R_5R_6s^2 + C_3R_4 + s\left(C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.933 X-INVALID-ORDER-933
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_6}{-C_1 + s \left(C_1 C_2 R_5 + C_1 C_3 R_5 + C_1 C_4 R_5 + C_2 C_3 R_5\right)}$$

10.934 X-INVALID-ORDER-934
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3}{-C_1C_6s + s^2(C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5)}$$

10.935 X-INVALID-ORDER-935
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_6R_6s + C_3}{-C_1C_6s + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$$

10.936 X-INVALID-ORDER-936
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3 C_5 R_6}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}$$

10.937 X-INVALID-ORDER-937
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 C_5}{s \left(C_1 C_2 C_6 + C_1 C_3 C_6 + C_1 C_4 C_6 - C_1 C_5 C_6 + C_2 C_3 C_6 \right)}$$

10.938 X-INVALID-ORDER-938
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_6s + C_3C_5}{s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.939 X-INVALID-ORDER-939
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_6R_6 + C_1C_3C_6R_6 + C_1C_4C_6R_6 - C_1C_5C_6R_6 + C_2C_3C_6R_6\right)}$$

10.940 X-INVALID-ORDER-940
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_5R_5 + C_1C_3C_5R_5 + C_1C_4C_5R_5 + C_2C_3C_5R_5\right)}$$

10.941 X-INVALID-ORDER-941
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5}{s^2\left(C_1C_2C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_2C_3C_5C_6R_5\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.942 X-INVALID-ORDER-942
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_6s + C_3C_5}{s^2\left(C_1C_2C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_2C_3C_5C_6R_5\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.943 X-INVALID-ORDER-943
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_5R_6s + C_3R_6}{-C_1 + s\left(C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}$$

10.944 X-INVALID-ORDER-944
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5R_5s + C_3}{-C_1C_6s + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$$

10.945 X-INVALID-ORDER-945
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_5R_6s^2 + C_3 + s\left(C_3C_5R_5 + C_3C_6R_6\right)}{-C_1C_6s + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$$

10.946 X-INVALID-ORDER-946
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_4R_4s + C_3}{-C_1C_6s + s^3\left(C_1C_2C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$$

10.947 X-INVALID-ORDER-947
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_4C_6R_4R_6s^2 + C_3 + s\left(C_3C_4R_4 + C_3C_6R_6\right)}{-C_1C_6s + s^3\left(C_1C_2C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$$

10.948 X-INVALID-ORDER-948 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_4R_4R_6s + C_3R_6}{-C_1 + s^3\left(C_1C_2C_4C_6R_4R_5R_6 + C_1C_3C_4C_6R_4R_5R_6 + C_2C_3C_4C_6R_4R_5R_6 + C_1C_3C_4R_4R_5 + C_1C_3C_6R_5R_6 + C_1C_4C_6R_4R_6 + C_1C_4C_6R_5R_6 + C$$

10.949 X-INVALID-ORDER-949 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_4R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_4R_4 + C_1C_3C_4R_4 - C_1C_4C_5R_4 + C_2C_3C_4R_4\right)}$$

10.950 X-INVALID-ORDER-950
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_4C_5R_4s + C_3C_5}{s^2\left(C_1C_2C_4C_6R_4 + C_1C_3C_4C_6R_4 - C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.951 X-INVALID-ORDER-951
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_4C_5C_6R_4R_6s^2 + C_3C_5 + s\left(C_3C_4C_5R_4 + C_3C_5C_6R_6\right)}{s^2\left(C_1C_2C_4C_6R_4 + C_1C_3C_4C_6R_4 - C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.952 X-INVALID-ORDER-952 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.953 X-INVALID-ORDER-953 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_4R_6s^2 + C_3C_5 + s\left(C_3C_4C_5R_4 + C_3C_5C_6R_6\right)}{s^3\left(C_1C_2C_4C_5C_6R_4R_5 + C_1C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_1C_3C_4C_6R_4 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_4 + C_1C_4C_5C_6R_5 + C_2C_3C_4C_6R_4 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_4C$

10.954 X-INVALID-ORDER-954 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_4R_6s}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(C_1C_2C_4C_5C_6R_4R_5R_6 + C_2C_3C_4C_5C_6R_4R_5R_6 + C_2C_3C_4C_5C_6R_4R_5R_6 + C_1C_2C_4C_5R_4R_5 + C_1C_2C_4C_5R_4R_5 + C_1C_3C_4C_5R_4R_5 + C_1C_3C_4C_5R_4R_$

10.955 X-INVALID-ORDER-955 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_4R_5s^2 + C_3 + s\left(C_3C_4R_4 + C_3C_5R_5\right)}{-C_1C_6s + s^3\left(C_1C_2C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 - C_1C_4C_5R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$

10.956 X-INVALID-ORDER-956 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_4R_5R_6s^3 + C_3 + s^2\left(C_3C_4C_5R_4R_5 + C_3C_4C_6R_4R_6 + C_3C_5C_6R_5R_6\right) + s\left(C_3C_4R_4 + C_3C_5R_5 + C_3C_6R_6\right)}{-C_1C_6s + s^3\left(C_1C_2C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 - C_1C_4C_5C_6R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$

10.957 X-INVALID-ORDER-957 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_4R_5R_6s^2 + C_3R_6 + s\left(C_3C_4R_4R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_4C_6R_4R_5R_6 + C_1C_3C_4R_4R_5R_6 + C_2C_3C_4C_6R_4R_5R_6\right) + s^2\left(C_1C_2C_4R_4R_5 + C_1C_3C_6R_5R_6 + C_1C_3C_4R_4R_5 + C_1C_3C_6R_5R_6 - C_1C_4C_5R_4R_5 - C_1C_4C_6R_4R_6 + C_1C_3C_4R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_3C_4R_5 + C_2C_3C_4R_5 + C_2C_3C_4R_5 + C_2C_3C_4R_5 + C_2C_3C_4R_5 + C_2C_$

10.958 X-INVALID-ORDER-958 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_4 R_6}{-C_1 R_4 + C_1 R_5 + s \left(C_1 C_2 R_4 R_5 + C_1 C_3 R_4 R_5 + C_1 C_4 R_4 R_5 + C_2 C_3 R_4 R_5\right)}$

10.959 X-INVALID-ORDER-959 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & \frac{R_4}{C_4 R_4 s + 1}, & R_5, & \frac{1}{C_6 s} \end{pmatrix}$

 $H(s) = \frac{C_3 R_4}{s^2 \left(C_1 C_2 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5 + C_1 C_4 C_6 R_4 R_5 + C_2 C_3 C_6 R_4 R_5 \right) + s \left(-C_1 C_6 R_4 + C_1 C_6 R_5 \right)}$

10.960 X-INVALID-ORDER-960 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_4R_6s + C_3R_4}{s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

10.961 X-INVALID-ORDER-961
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_3 C_5 R_4 R_6 s}{C_1 + s \left(C_1 C_2 R_4 + C_1 C_3 R_4 + C_1 C_4 R_4 - C_1 C_5 R_4 + C_2 C_3 R_4\right)}$$

10.962 X-INVALID-ORDER-962
$$Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & \frac{R_4}{C_4 R_4 s + 1}, & \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}$$

$$H(s) = \frac{C_3 C_5 R_4}{C_1 C_6 + s \left(C_1 C_2 C_6 R_4 + C_1 C_3 C_6 R_4 + C_1 C_4 C_6 R_4 - C_1 C_5 C_6 R_4 + C_2 C_3 C_6 R_4\right)}$$

10.963 X-INVALID-ORDER-963
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_4R_6s + C_3C_5R_4}{C_1C_6 + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

10.964 X-INVALID-ORDER-964
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_5C_6R_4R_5R_6 + C_1C_3C_5C_6R_4R_5R_6 + C_1C_4C_5C_6R_4R_5R_6 + C_2C_3C_5C_6R_4R_5R_6 + C_1C_2C_5R_4R_5 + C_1C_3C_6R_4R_6 + C_1C_3C_5R_4R_5 + C_1C_4C_6R_4R_6 + C_1C_4C_5R_4R_6 + C_1C_4C_6R_4R_6 + C_1C_5C_6R_4R_6 + C_1C_$

10.965 X-INVALID-ORDER-965 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_4R_5R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

10.966 X-INVALID-ORDER-966 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_4R_5s + C_3R_4}{s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.967 X-INVALID-ORDER-967 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_4R_5R_6s^2 + C_3R_4 + s\left(C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.968 X-INVALID-ORDER-968 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_4}{C_1 C_2 C_3 C_6 R_3 R_4 R_5 s^3 + s^2 \left(C_1 C_2 C_6 R_4 R_5 - C_1 C_3 C_6 R_3 R_4 + C_1 C_3 C_6 R_3 R_5 + C_1 C_3 C_6 R_4 R_5 + C_2 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 + C_1 C_6 R_5\right)}$$

10.969 X-INVALID-ORDER-969 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_4R_6s + C_3R_4}{C_1C_2C_3C_6R_3R_4R_5s^3 + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.970 X-INVALID-ORDER-970 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3 R_4 R_6}{C_1 C_2 C_3 C_6 R_3 R_4 R_5 R_6 s^3 - C_1 R_4 + C_1 R_5 + s^2 \left(C_1 C_2 C_3 R_3 R_4 R_5 + C_1 C_2 C_6 R_4 R_5 R_6 - C_1 C_3 C_6 R_3 R_4 R_6 + C_1 C_3 C_6 R_3 R_5 R_6 + C_1 C_3 C_6 R_4 R_5 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_3 R_3 R_4 + C_1 C_3 R_4 R_5 - C_1 C_6 R_4 R_6 + C_1 C_6 R_5 R_6 + C_2 C_3 R_4 R_5 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_3 R_3 R_4 + C_1 C_3 R_4 R_5 - C_1 C_6 R_4 R_6 + C_1 C_6 R_5 R_6 + C_2 C_3 R_4 R_5 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_3 R_4 R_5 - C_1 C_6 R_4 R_6 + C_1 C_6 R_5 R_6 + C_2 C_3 R_4 R_5 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_3 R_4 R_5 - C_1 C_6 R_4 R_6 + C_1 C_6 R_5 R_6 + C_2 C_3 R_4 R_5 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_3 R_4 R_5 - C_1 C_6 R_4 R_6 + C_1 C_6 R_5 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_6 R_4 R_6 + C_1 C_6 R_5 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_6 R_4 R_6 + C_1 C_6 R_5 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_6 R_4 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_6 R_4 R_6 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_5 R_4 R_5 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_5 R_4 R_5 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_5 R_4 R_5 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_5 R_4 R_5 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_5 R_4 R_5 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_4 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_4 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_4 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_$$

10.971 X-INVALID-ORDER-971 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_6R_3R_4R_6 - C_1C_3C_5C_6R_3R_4R_6\right) + s^2\left(C_1C_2C_3R_3R_4 + C_1C_2C_6R_4R_6 - C_1C_3C_5R_3R_4 + C_1C_3C_6R_4R_6 + C_2C_3C_6R_4R_6\right) + s\left(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4\right)}$

10.972 X-INVALID-ORDER-972 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_4R_6s}{C_1C_2C_3C_5R_3R_4R_5s^3 + C_1 + s^2\left(C_1C_2C_3R_3R_4 + C_1C_2C_5R_4R_5 - C_1C_3C_5R_3R_4 + C_1C_3C_5R_3R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_1C_5R_5 + C_2C_3R_4\right)}$

10.973 X-INVALID-ORDER-973 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.974 X-INVALID-ORDER-974 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_4R_6s + C_3C_5R_4}{C_1C_2C_3C_5C_6R_3R_4R_5s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_3R_4 + C_1C_2C_5C_6R_4R_5 - C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4\right)}$

10.975 X-INVALID-ORDER-975 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.976 X-INVALID-ORDER-976 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_4R_5s + C_3R_4}{s^3\left(C_1C_2C_3C_6R_3R_4R_5 - C_1C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

10.977 X-INVALID-ORDER-977 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_4R_5R_6s^2 + C_3R_4 + s\left(C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_3R_4R_5 - C_1C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

10.978 X-INVALID-ORDER-978 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_4R_5R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_3R_4R_5R_6 - C_1C_3C_5C_6R_3R_4R_5 + C_1C_2C_6R_4R_5R_6 - C_1C_3C_6R_3R_4R_5 - C_1C_3C_6R_3R_4R_5 - C_1C_3C_6R_3R_4R_5 - C_1C_3C_6R_3R_4R_5 - C_1C_3C_6R_4R_5R_6 - C_1C_3C_6R_4R_5R_6$

10.979 X-INVALID-ORDER-979 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_3R_5 + C_1C_3C_4C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$

10.980 X-INVALID-ORDER-980 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_6s + C_3}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_3R_5 + C_1C_3C_4C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$

10.981 X-INVALID-ORDER-981
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_3 R_6}{-C_1 + s^3 \left(C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 C_3 R_3 R_5 + C_1 C_2 C_6 R_5 R_6 + C_1 C_3 C_4 R_3 R_5 - C_1 C_3 C_6 R_5 R_6 + C_1 C_5 C_6 R_5 R_6 + C_1 C_5 C_6 R_5 R_6 + C_1 C_5 C$$

10.982 X-INVALID-ORDER-982 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_3R_3 + C_1C_3C_4R_3 - C_1C_3C_5R_3\right)}$$

10.983 X-INVALID-ORDER-983 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5}{s^2\left(C_1C_2C_3C_6R_3 + C_1C_3C_4C_6R_3 - C_1C_3C_5C_6R_3\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.984 X-INVALID-ORDER-984 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_6s + C_3C_5}{s^2\left(C_1C_2C_3C_6R_3 + C_1C_3C_4C_6R_3 - C_1C_3C_5C_6R_3\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.985 X-INVALID-ORDER-985 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5}{s^3\left(C_1C_2C_3C_5C_6R_3R_5 + C_1C_3C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_3C_6R_3 + C_1C_2C_5C_6R_5 + C_1C_3C_4C_6R_3 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_4C_5C_5C_6R_5 + C_1C_4C_5C_5C_6R_5 + C_1C_4C_5C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_$$

10.986 X-INVALID-ORDER-986 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_6s + C_3C_5}{s^3\left(C_1C_2C_3C_5C_6R_3R_5 + C_1C_3C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_3C_6R_3 + C_1C_2C_5C_6R_5 + C_1C_3C_4C_6R_3 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_5C_6R_5 + C_1C_5C_6C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C$$

10.987 X-INVALID-ORDER-987 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(C_1C_2C_3C_5C_6R_3R_5R_6 + C_1C_3C_4C_5R_3R_5 + C_1C_2C_3C_6R_3R_6 + C_1C_3C_4C_5R_3R_6 + C_1C_3C_4C_6R_3R_6 + C_1C_3C_5C_6R_3R_6 + C_1C_3C_5C_6R_5R_6 + C_1C_3C_5C_6R_5R_6 + C_1C_3C_5C_6R_5R_6 + C_1C_3C_5C_6R_5R_6 + C_1C_5C_5C_6R_5R_6 + C_1C_5C_5C_6R_5R_6 + C_1C_5C_5C_6R_5R_6 + C_1C_5C_5C_6R_5R_6 + C_1C_5C_5C_6R_5R_6 + C_1C_5C_5C_6R_5$$

10.988 X-INVALID-ORDER-988 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_5s + C_3}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_3R_5 + C_1C_3C_4C_6R_3R_5 - C_1C_3C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$$

10.989 X-INVALID-ORDER-989 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_5R_6s^2 + C_3 + s\left(C_3C_5R_5 + C_3C_6R_6\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_3R_5 + C_1C_3C_4C_6R_3R_5 - C_1C_3C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$$

10.990 X-INVALID-ORDER-990 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_3C_5R_5R_6s + C_3R_6}{-C_1 + s^3\left(C_1C_2C_3C_6R_3R_5R_6 + C_1C_3C_4C_6R_3R_5R_6 - C_1C_3C_5C_6R_3R_5R_6 + C_1C_3C_6R_5R_6 + C$$

10.991 X-INVALID-ORDER-991 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$ $H(s) = \frac{C_3C_4R_4R_6s + C_3R_6}{C_1C_2C_3C_4R_3R_4R_5s^3 - C_1 + s^2\left(C_1C_2C_3R_3R_5 + C_1C_2C_4R_4R_5 - C_1C_3C_4R_3R_4 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_4R_5\right) + s\left(C_1C_2R_5 - C_1C_3R_3 + C_1C_3R_5 - C_1C_4R_4 + C_1C_4R_5 + C_2C_3R_5\right)}$ **10.992** X-INVALID-ORDER-992 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4R_4s + C_3}{C_1C_2C_3C_4C_6R_3R_4R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_3R_5 + C_1C_2C_4C_6R_4R_5 - C_1C_3C_4C_6R_3R_4 + C_1C_3C_4C_6R_3R_5 + C_1C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$ 10.993 X-INVALID-ORDER-993 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4C_6R_4R_6s^2 + C_3 + s\left(C_3C_4R_4 + C_3C_6R_6\right)}{C_1C_2C_3C_4C_6R_3R_4R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_3R_5 + C_1C_3C_4C_6R_4R_5 - C_1C_3C_4C_6R_3R_5 + C_1C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$ 10.994 X-INVALID-ORDER-994 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $C_3C_4R_4R_6s + C_3R_6$ $H(s) = \frac{C_3C_4R_4R_6s + C_3R_6}{C_1C_2C_3C_4C_6R_3R_4R_5R_6s^4 - C_1 + s^3\left(C_1C_2C_3C_4R_3R_4R_5 + C_1C_2C_4C_6R_4R_5R_6 - C_1C_3C_4C_6R_3R_4R_6 + C_1C_3C_4C_6R_4R_5R_6 + C_1C_3C_4C_6R_5R_5R_6 + C_1C_3C_4C_6R_5R_5R_6 + C_1C_3C_4C_6R_5R_5R_6 + C_1C_3C_4C_6R_5R_5R_6 +$ **10.995** X-INVALID-ORDER-995 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4C_5R_4s + C_3C_5}{s^3\left(C_1C_2C_3C_4C_6R_3R_4 - C_1C_3C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_3C_6R_3 + C_1C_2C_4C_6R_4 + C_1C_3C_4C_6R_3 + C_1C_3C_5C_6R_3 - C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$ **10.996** X-INVALID-ORDER-996 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4C_5C_6R_4R_6s^2 + C_3C_5 + s\left(C_3C_4C_5R_4 + C_3C_5C_6R_6\right)}{s^3\left(C_1C_2C_3C_4C_5R_3R_4 - C_1C_3C_4C_5R_3R_4\right) + s^2\left(C_1C_2C_3C_6R_3 + C_1C_2C_4C_6R_4 + C_1C_3C_4C_6R_3 + C_1C_3C_5C_6R_3 - C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$ 10.997 X-INVALID-ORDER-997 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_3C_4C_5R_4R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(C_1C_2C_3C_4C_6R_3R_4R_6 - C_1C_3C_4C_5R_3R_4 + C_1C_2C_3C_4R_3R_4 + C_1C_2C_4C_6R_3R_6 + C_1C_3C_4C_6R_3R_6 + C_1C_3C_4C_5C_6R_3R_6 + C_1C_3C_4C_5C_6R_3R_6 + C_1C_3C_4C_5C_6R_3R_6 + C_1C_3C_4C_5C_6R_3R_6 + C_1C_$

10.998 X-INVALID-ORDER-998 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_4R_6s + C_3C_5R_6}{C_1C_2C_3C_4C_5R_3R_4R_5s^3 + C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_3R_4 + C_1C_2C_4C_5R_4R_5 - C_1C_3C_4C_5R_3R_4 + C_1C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_4R_4 + C_1C_2C_5R_5 + C_1C_3C_4C_5R_4R_5 - C_1C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_4R_4 + C_1C_2C_5R_5 + C_1C_3C_4C_5R_4R_5 - C_1C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_4R_4 + C_1C_2C_5R_5 + C_1C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5\right) + s\left(C_1C_2C_3C_4R_4 + C_1C_2C_5R_5 + C_1C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5R_4R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_4R_4 + C_1C_2C_5R_5 + C_2C_3C_4R_5R_5 + C_2C_3C_5R_5R_5 + C_2C_3C_5R_5 + C_2C_3C_5R$ $C_3C_4C_5R_4R_6s + C_3C_5R_6$

10.999 X-INVALID-ORDER-999 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.1000 X-INVALID-ORDER-1000 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_4C_5C_6R_4R_6s^2 + C_3C_5 + s\left(C_3C_4C_5R_4 + C_3C_5C_6R_6\right)$ $H(s) = \frac{C_3 C_4 C_5 C_6 R_4 R_6 s^2 + C_3 C_5 + s \left(C_3 C_4 C_5 R_4 R_6 s^2 + C_3 C_5 + s \left(C_3 C_4 C_5 R_4 R_6 + C_3 C_5 C_6 R_6 R_6\right)\right)}{C_1 C_2 C_3 C_4 C_5 C_6 R_3 R_4 + C_1 C_2 C_3 C_5 C_6 R_3 R_5 + C_1 C_3 C_4 C_5 C_6 R_3 R_5 + C_1 C_3 C_4 C_5 C_6 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_4 R_5\right) + s^2 \left(C_1 C_2 C_3 C_6 R_3 + C_1 C_2 C_4 C_6 R_4 + C_1 C_2 C_5 C_6 R_5 + C_1 C_3 C_4 C_5 R_6 R_5 + C_1 C_3 C_4 C_5 R_4 R_5 + C_1 C_3 C_4 C_5 R_4 R_5\right) + s^2 \left(C_1 C_2 C_3 C_6 R_3 + C_1 C_2 C_4 C_6 R_4 + C_1 C_2 C_5 C_6 R_5 + C_1 C_3 C_4 C_5 R_5 + C_1 C_3 C_5 R_5 + C_1 C_3 C_5 R_5 + C_1 C_5 C_5 R_5 + C_1 C_5$

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10.1001 X-INVALID-ORDER-1001 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1002 X-INVALID-ORDER-1002 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_3C_4C_5R_4R_5R_6s^2 + C_3R_6 + s\left(C_3C_4R_4R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_4R_3R_4R_5 - C_1C_3C_4R_3R_4 + C_1C_2C_4R_4R_5 - C_1C_3C_4R_3R_4 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_5 + 
10.1003 X-INVALID-ORDER-1003 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_4R_5s^2 + C_3 + s\left(C_3C_4R_4 + C_3C_5R_5\right)}{-C_1C_6s + s^4\left(C_1C_2C_3C_4C_6R_3R_4R_5 - C_1C_3C_4C_5R_3R_5 + C_1C_3C_4C_6R_3R_4 + C_1C_3C_4C_6R_3R_5 + C_1C_3C_4C_6R_3R_5 + C_1C_3C_4C_6R_3R_5 - C_1C_3C_5C_6R_3R_5 - C_1C_4C_5C_6R_4R_5 + C_2C_3C_4C_6R_4R_5 + C_2C_
10.1004 X-INVALID-ORDER-1004 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5C_6R_4R_5R_6s^3 + C_3 + s^2\left(C_3C_4C_5R_4R_5 + C_3C_4C_6R_4R_6 + C_3C_5C_6R_5R_6\right) + s\left(C_3C_4R_4 + C_3C_5R_5 + C_3C_6R_6\right)}{-C_1C_6s + s^4\left(C_1C_2C_3C_4C_6R_3R_4R_5 - C_1C_3C_4C_6R_3R_4 + C_1C_3C_4C_6R_3R_5 + C_1C_3C_4C_6R_5 + C_1C_3C_4C_5C_6R_5 + C_1C_3C_4C_5C_6R_5 + C_1C_3C_4C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_3C_5C
10.1005 X-INVALID-ORDER-1005 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-}{-C_1 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_3 R_4 R_5 R_6 - C_1 C_3 C_4 C_5 R_3 R_4 R_5 R_6 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 R_6 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 R_6 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 - C_1 C_3 C_4 C_6 R_3 R_5 R_6 - C_1 C_3 C_5 C_6 R_5 R_5 R_6 - C_1 C_5 C_6 R_5 R_5 R_6 - C
10.1006 X-INVALID-ORDER-1006 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                             H(s) = \frac{C_3 R_4}{s^3 \left(C_1 C_2 C_3 C_6 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_3 R_4 R_5\right) + s^2 \left(C_1 C_2 C_6 R_4 R_5 - C_1 C_3 C_6 R_3 R_4 + C_1 C_3 C_6 R_3 R_5 + C_1 C_3 C_6 R_4 R_5 + C_1 C_4 C_6 R_4 R_5 + C_2 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 + C_1 C_6 R_5\right)}
10.1007 X-INVALID-ORDER-1007 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                             H(s) = \frac{C_3C_6R_4R_6s + C_3R_4}{s^3\left(C_1C_2C_3C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}
10.1008 X-INVALID-ORDER-1008 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3 R_4 R_6}{-C_1 R_4 + C_1 R_5 + s^3 \left(C_1 C_2 C_3 C_6 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_3 R_4 R_5 R_6 + C_1 C_3 C_6 R_5 R_6 + C_1 C_5 C_6 R_5 R_6
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10.1010 X-INVALID-ORDER-1010 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_5R_3R_4R_5 + C_1C_3C_4C_5R_3R_4R_5\right) + s^2\left(C_1C_2C_3R_3R_4 + C_1C_2C_5R_4R_5 + C_1C_3C_5R_3R_4 + C_1C_3C_5R_3R_4 + C_1C_3C_5R_3R_4 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R$

 $H(s) = \frac{C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_6R_3R_4R_6 + C_1C_3C_4C_6R_3R_4R_6 - C_1C_3C_5C_6R_3R_4R_6\right) + s^2\left(C_1C_2C_3R_3R_4 + C_1C_3C_6R_4R_6 + C_1C$

10.1009 X-INVALID-ORDER-1009 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

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10.1011 X-INVALID-ORDER-1011 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3C_5R_4}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_5R_5 + C_1C_5C_5C_6R_5R_5 + C_1C_5$

10.1012 X-INVALID-ORDER-1012 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_4R_6s + C_3C_5R_4}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_$

10.1013 X-INVALID-ORDER-1013 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_3 R_4 R_5 + C_1 C_3 C_5 C_6 R_3 R_5 + C_1 C_3 C_5 C_6 R_5 R_5 + C_1 C_3 C_5 C_6 R_5 R_5 + C_1 C_5 C$

10.1014 X-INVALID-ORDER-1014 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_4R_5s + C_3R_4}{s^3\left(C_1C_2C_3C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 - C_1C_3C_5C_6R_3R_4R_5 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_$

10.1015 X-INVALID-ORDER-1015 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_4R_5R_6s^2 + C_3R_4 + s\left(C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 - C_1C_3C_5C_6R_3R_4R_5 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C$

10.1016 X-INVALID-ORDER-1016 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_3C_5R_4R_5R_6s + C_3R_4R_6$

 $H(s) = \frac{C_3C_5R_4R_5R_6s + C_3R_4R_5}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_3R_4R_5R_6 + C_1C_3C_4C_6R_3R_4R_5R_6 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_4R_5R_5 + C_1C_3C_6R_4R_5R_5 + C_1C_3C_6R_4R_5R_5 + C_1C_3C_6R_4R_5R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_4R_5R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_5C_6R_5 + C_1C_5C_6R$

10.1017 X-INVALID-ORDER-1017 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_3 R_4 R_6 s + R_4 R_6}{s^2 \left(C_1 C_2 R_3 R_4 R_5 + C_1 C_3 R_3 R_4 R_5 + C_2 C_3 R_3 R_4 R_5\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$

10.1018 X-INVALID-ORDER-1018 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{R_3}{C_3 R_3 s + 1}, & R_4, & R_5, & \frac{1}{C_6 s} \end{pmatrix}$

 $H(s) = \frac{C_3 R_3 R_4 s + R_4}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_3 C_6 R_3 R_4 R_5 + C_2 C_3 C_6 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right)}$

10.1019 X-INVALID-ORDER-1019 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_3R_4R_6s^2 + R_4 + s\left(C_3R_3R_4 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1020 X-INVALID-ORDER-1020 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_3 R_4 R_6 s + R_4 R_6}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 R_6 + C_1 C_3 C_6 R_3 R_4 R_5 R_6 + C_2 C_3 C_6 R_3 R_4 R_5 R_6 + C_1 C_3 R_3 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 R_6 + C_1 C_6 R_4 R_5 R_6 + C_2 C_3 R_3 R_4 R_5 + C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5 \right)}$

10.1021 X-INVALID-ORDER-1021 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_3R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s\left(C_1C_2R_3R_4 + C_1C_3R_3R_4 - C_1C_5R_3R_4 + C_2C_3R_3R_4\right)}$$

10.1022 X-INVALID-ORDER-1022 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_3R_4s + C_5R_4}{s^2\left(C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1023 X-INVALID-ORDER-1023 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_3R_4R_6s^2 + C_5R_4 + s\left(C_3C_5R_3R_4 + C_5C_6R_4R_6\right)}{s^2\left(C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1024 X-INVALID-ORDER-1024 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_3R_4s + C_5R_4}{s^3\left(C_1C_2C_5C_6R_3R_4R_5 + C_1C_3C_5C_6R_3R_4R_5 + C_2C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_3R_4 + C_2C_5C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1025 X-INVALID-ORDER-1025 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

10.1026 X-INVALID-ORDER-1026 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.1027 X-INVALID-ORDER-1027 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_3R_4R_5R_6s^2 + R_4R_6 + s\left(C_3R_3R_4R_6 + C_5R_4R_5R_6\right)}{s^2\left(C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 - C_1C_5R_3R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$$

10.1028 X-INVALID-ORDER-1028 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{R_3}{C_3 R_3 s + 1}, & R_4, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{1}{C_6 s} \end{pmatrix}$

$$H(s) = \frac{C_3C_5R_3R_4R_5s^2 + R_4 + s\left(C_3R_3R_4 + C_5R_4R_5\right)}{s^3\left(C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

10.1029 X-INVALID-ORDER-1029 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{R_5}{C_5 R_5 s+1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_3R_4R_5R_6s^3 + R_4 + s^2\left(C_3C_5R_3R_4R_5 + C_3C_6R_3R_4R_6 + C_5C_6R_4R_5R_6\right) + s\left(C_3R_3R_4 + C_5R_4R_5 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

10.1030 X-INVALID-ORDER-1030 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$H(s) = \frac{C_3C_5R_3R_4R_5R_6s^2 + R_4R_6 + s\left(C_3R_3R_4R_5 + C_5R_4R_5R_6\right)}{s^3\left(C_1C_2C_6R_3R_4R_5R_6 + C_1C_3C_6R_3R_4R_5R_6 + C_2C_3C_6R_3R_4R_5R_6 + C_1C_5R_3R_4R_5 - C_1C_5R_3R_4R_5 - C_1C_5R_3R_4R_5 - C_1C_5R_3R_4R_5 + C_1C_6R_3R_5R_6 + C_1C_6R_4R_5R_6 + C_2C_3R_3R_4R_5 + C_1C_6R_3R_4R_5 + C_1C_6R_3R_5R_6 + C_1C_6R_4R_5R_6 + C_2C_3R_3R_4R_5 + C_1C_6R_3R_4R_5 + C_1C_6R_3R_5R_6 + C_1C_6R_4R_5R_6 + C_2C_3R_3R_4R_5 + C_2C_6R_4R_5R_6 + C_2C_3R_3R_4R_5 + C$$

10.1031 X-INVALID-ORDER-1031
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_3 R_3 R_6 s + R_6}{s^2 \left(C_1 C_2 R_3 R_5 + C_1 C_3 R_3 R_5 + C_1 C_4 R_3 R_5 + C_2 C_3 R_3 R_5\right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5\right)}$$

10.1032 X-INVALID-ORDER-1032
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3 R_3 s + 1}{s^3 \left(C_1 C_2 C_6 R_3 R_5 + C_1 C_3 C_6 R_3 R_5 + C_1 C_4 C_6 R_3 R_5 + C_2 C_3 C_6 R_3 R_5 \right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5 \right)}$$

10.1033 X-INVALID-ORDER-1033
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_6R_3R_6s^2 + s\left(C_3R_3 + C_6R_6\right) + 1}{s^3\left(C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_2C_3C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1034 X-INVALID-ORDER-1034
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s+1}\right)$$

$$H(s) = \frac{C_3 R_3 R_6 s + R_6}{s^3 \left(C_1 C_2 C_6 R_3 R_5 R_6 + C_1 C_3 C_6 R_3 R_5 R_6 + C_2 C_3 C_6 R_3 R_5 R_6 + C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_4 R_3 R_5 + C_1 C_4 R_3 R_5 + C_1 C_4 R_3 R_5 + C_1 C_6 R_3 R_6 + C_1 C_6 R_5 R_6 + C_2 C_3 R_3 R_5 + C_2 C_6 R_5 R_6 \right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5 R_6 + C_1 C_4 R_3 R_5 + C_1 C_4 R_5 R_6 + C_1 C_4 R_5 R_6 + C_2 C_3 R_5 R_6 + C_2 C_6 R_5 R_6 \right) + s \left(-C_1 R_3 + C_1 R_5 R_6 + C_1 C_4 R_5 R_6 + C_2 C_5 R_5 R_6 + C_2 C_5 R_5 R_6 + C_2 C_5 R_5 R_6 \right) + s \left(-C_1 R_3 + C_1 R_5 R_6 + C_2 R_5 R_6 \right) + s \left(-C_1 R_3 + C_1 R_5 R_6 + C_2 R_5$$

10.1035 X-INVALID-ORDER-1035 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_3R_6s + C_5R_6}{C_1 + C_2 + s\left(C_1C_2R_3 + C_1C_3R_3 + C_1C_4R_3 - C_1C_5R_3 + C_2C_3R_3\right)}$$

10.1036 X-INVALID-ORDER-1036 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_3s + C_5}{s^2\left(C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_2C_3C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1037 X-INVALID-ORDER-1037 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_3R_6s^2 + C_5 + s\left(C_3C_5R_3 + C_5C_6R_6\right)}{s^2\left(C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_2C_3C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1038 X-INVALID-ORDER-1038 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_3s + C_5}{s^3\left(C_1C_2C_5C_6R_3R_5 + C_1C_3C_5C_6R_3R_5 + C_2C_3C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_2C_3C_6R_3 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1039 X-INVALID-ORDER-1039 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_3R_6s^2 + C_5 + s\left(C_3C_5R_3 + C_5C_6R_6\right)}{s^3\left(C_1C_2C_5C_6R_3R_5 + C_1C_3C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5 + C_2C_3C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_2C_3C_6R_3 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1040 X-INVALID-ORDER-1040 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$H(s) = \frac{C_3C_5R_3R_6s + C_5R_6}{C_1 + C_2 + s^3\left(C_1C_2C_5C_6R_3R_5R_6 + C_1C_3C_5C_6R_3R_5R_6 + C_1C_4C_5C_6R_3R_5R_6 + C_1C_3C_5R_3R_5 + C_1C_2C_6R_3R_6 + C_1C_3C_5R_3R_5 + C_1C_3C_6R_3R_6 + C_1C_3C_6R_3R_6 + C_1C_5C_6R_3R_6 + C_1C_5C_6R_5R_6 + C_1C_5C_6R_5R_$$

10.1041 X-INVALID-ORDER-1041 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$ $H(s) = \frac{C_3C_5R_3R_5R_6s^2 + R_6 + s\left(C_3R_3R_6 + C_5R_5R_6\right)}{s^2\left(C_1C_2R_3R_5 + C_1C_3R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5 + C_2C_3R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$ **10.1042** X-INVALID-ORDER-1042 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5R_3R_5s^2 + s\left(C_3R_3 + C_5R_5\right) + 1}{s^3\left(C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 - C_1C_5C_6R_3R_5 + C_2C_3C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$ **10.1043** X-INVALID-ORDER-1043 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5C_6R_3R_5R_6s^3 + s^2\left(C_3C_5R_3R_5 + C_3C_6R_3R_6 + C_5C_6R_5R_6\right) + s\left(C_3R_3 + C_5R_5 + C_6R_6\right) + 1}{s^3\left(C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 - C_1C_5C_6R_3R_5 + C_2C_3C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$ **10.1044** X-INVALID-ORDER-1044 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$ $H(s) = \frac{C_3C_5R_3R_5R_6s^2 + R_6 + s\left(C_3R_3R_6 + C_5R_5R_6\right)}{s^3\left(C_1C_2C_6R_3R_5R_6 + C_1C_3C_6R_3R_5R_6 + C_1C_5C_6R_3R_5R_6 + C_2C_3C_6R_3R_5R_6\right) + s^2\left(C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5 - C_1C_6R_3R_6 + C_2C_3R_3R_5 + C_2C_6R_5R_6\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$ **10.1045** X-INVALID-ORDER-1045 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$ $H(s) = \frac{C_3C_4R_3R_4R_6s^2 + R_6 + s\left(C_3R_3R_6 + C_4R_4R_6\right)}{s^3\left(C_1C_2C_4R_3R_4R_5 + C_1C_3C_4R_3R_4R_5 + c_2C_3C_4R_3R_4R_5\right) + s^2\left(C_1C_2R_3R_5 + C_1C_3R_3R_5 - C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_2C_3R_3R_5 + C_2C_4R_4R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$ **10.1046** X-INVALID-ORDER-1046 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4R_3R_4s^2 + s\left(C_3R_3 + C_4R_4\right) + 1}{s^4\left(C_1C_2C_4C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_2C_3C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 +$ **10.1047** X-INVALID-ORDER-1047 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4C_6R_3R_4R_6s^3 + s^2\left(C_3C_4R_3R_4 + C_3C_6R_3R_6 + C_4C_6R_4R_6\right) + s\left(C_3R_3 + C_4R_4 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_4C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 +$ **10.1048** X-INVALID-ORDER-1048 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s+1}\right)$ $\frac{C_3C_4R_3R_4R_6s^2 + R_6 + s\left(C_3R_3R_6 + C_4R_4R_6\right)}{s^4\left(C_1C_2C_4C_6R_3R_4R_5R_6 + C_1C_3C_4C_6R_3R_4R_5R_6 + C_1C_3C_4R_3R_4R_5 + C_1C_3C_6R_3R_5R_6 + C_1C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_5R_6 + C_1C_4C_6R_5R_5R_6 + C_1C_4C_6R_5R_5R_5R_6 + C_1C_4C_6R_5R_5R_5R_5R_6 + C_1C_4C_6R_5R_5R_5R_6 + C_1C_4C_6R_5R_5R_5R_6 + C_1C_4C_6R_5R_5R_5R_6 + C_1C_5C_6R_5R_5R_5R_$ **10.1049** X-INVALID-ORDER-1049 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_4C_5R_3R_4s^2 + C_5 + s\left(C_3C_5R_3 + C_4C_5R_4\right)}{s^3\left(C_1C_2C_4C_6R_3R_4 + C_1C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_1C_3C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_4 - C_1C_5C_6R_3 + C_2C_3C_6R_3 + C_2C_4C_6R_4\right) + s\left(C_1C_6 + C_2C_6\right)}$

10.1050 X-INVALID-ORDER-1050
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$C_3 C_4 C_5 C_6 R_3 R_4 R_6 s^3 + C_5 + s^2 \left(C_3 C_4 C_5 R_3 R_4 + C_3 C_5 C_6 R_3 R_6 + C_4 C_5 C_6 R_4 R_6\right) + s \left(C_3 C_5 R_3 + C_4 C_5 R_4 + C_5 C_6 R_6\right)$$

$$H(s) = \frac{C_3C_4C_5C_6R_3R_4R_6s^3 + C_5 + s^2\left(C_3C_4C_5R_3R_4 + C_3C_5C_6R_3R_6 + C_4C_5C_6R_4R_6\right) + s\left(C_3C_5R_3 + C_4C_5R_4 + C_5C_6R_6\right)}{s^3\left(C_1C_2C_4C_6R_3R_4 + C_1C_3C_4C_6R_3R_4 + C_1C_4C_5C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3R_4 + C_2C_3C_4C_6R_3 + C_1C_3C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_4 + C_1C_5C_6R_3 + C_2C_4C_6R_3 + C_2C_4C_6R_4 + s\left(C_1C_6C_6R_3R_4 + C_2C_4C_6R_3R_4 + C_2C_4C_6R_3 + C_2C_4C_6R_4 + C_2$$

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H(s) = \frac{C_3C_4C_5R_3R_4R_6s^2 + C_5R_6 + s\left(C_3C_5R_3R_6 + C_4C_5R_4R_6\right)}{C_1 + C_2 + s^3\left(C_1C_2C_4C_6R_3R_4R_6 + C_1C_3C_4C_6R_3R_4R_6 + C_1C_4C_5R_3R_4 + C_1C_2C_6R_3R_6 + C_1C_4C_5R_3R_4 + C_1C_4C_6R_3R_6 + C_1C_4C_6R_3R
10.1052 X-INVALID-ORDER-1052 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_3R_4R_6s^2 + C_5R_6 + s\left(C_3C_5R_3R_6 + C_4C_5R_4R_6\right)}{C_1 + C_2 + s^3\left(C_1C_2C_4C_5R_3R_4R_5 + C_1C_3C_4C_5R_3R_4R_5 + C_1C_4C_5R_3R_4 + C_1C_4C_5R_3R_4 + C_1C_4C_5R_3R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R
10.1053 X-INVALID-ORDER-1053 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_3R_4s^2 + C_5 + s\left(C_3C_5R_3 + C_4C_5R_4\right)}{s^4\left(C_1C_2C_4C_5C_6R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_5 + C_1C_5C_6R_3R_5 + C_1C_5C_5C_6R_3R_5 + C_1C_5C_5C_6R_3R
10.1054 X-INVALID-ORDER-1054 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_{3}C_{4}C_{5}C_{6}R_{3}R_{4}R_{6}s^{3} + C_{5} + s^{2}\left(C_{3}C_{4}C_{5}R_{3}R_{4} + C_{3}C_{5}C_{6}R_{3}R_{6} + C_{4}C_{5}C_{6}R_{4}R_{6}\right) + s\left(C_{3}C_{5}R_{3} + C_{4}C_{5}R_{4} + C_{5}C_{6}R_{3}R_{6} + C_{4}C_{5}C_{6}R_{4}R_{6}\right) + s\left(C_{3}C_{5}R_{3} + C_{4}C_{5}R_{4} + C_{5}C_{6}R_{3}R_{6}\right) + s\left(C_{3}C_{5}R_{3} + C_{4}C_{5}R_{6}\right) + s\left(C_{3}C_{5}R_{5} + C_{5}C_{5}R_{5}\right) + s\left(C_{5}C_{5}R_{5} + C_{5}C_{5}R_{5}\right) + s\left(C_{5
H(s) = \frac{C_3C_4C_5C_6R_3R_4R_6s^3 + C_5 + s^2\left(C_3C_4C_5R_3R_4 + C_3C_5C_6R_3R_6 + C_4C_5C_6R_4R_6\right) + s\left(C_3C_5R_3 + C_4C_5C_6R_3R_4 + 
10.1055 X-INVALID-ORDER-1055 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 + C_2 + s^4 \left( C_1 C_2 C_4 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_5 R_5 + C_1 C_3 C_5 C_5 R_5 R_5 + C_1 C_5 C_5 R_5 R_5 + C
10.1056 X-INVALID-ORDER-1056 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)
                                                                                  H(s) = \frac{C_3C_4C_5R_3R_4R_5R_6s^3 + R_6 + s^2\left(C_3C_4R_3R_4R_6 + C_3C_5R_3R_5R_6 + C_4C_5R_4R_5R_6\right) + s\left(C_3R_3R_6 + C_4R_4R_6 + C_5R_5R_6\right)}{s^3\left(C_1C_2C_4R_3R_4R_5 + C_1C_3C_4R_3R_4R_5 + C_2C_3C_4R_3R_4R_5\right) + s^2\left(C_1C_2R_3R_5 + C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_4R_5 + C_2C_3R_3R_5 + C_2C_4R_4R_5\right) + s\left(C_1R_3 + C_1R_5 + C_2R_5\right)}
10.1057 X-INVALID-ORDER-1057 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5R_3R_4R_5s^3 + s^2\left(C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s\left(C_3R_3 + C_4R_4 + C_5R_5\right) + 1}{s^4\left(C_1C_2C_4C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 +
10.1058 X-INVALID-ORDER-1058 Z(s) = \left(\frac{1}{C_{18}}, \frac{1}{C_{28}}, \frac{R_3}{C_{3}R_{38}+1}, R_4 + \frac{1}{C_{48}}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_{68}}\right)
H(s) = \frac{C_3C_4C_5C_6R_3R_4R_5R_6s^4 + s^3\left(C_3C_4C_5R_3R_4R_5 + C_3C_4C_6R_3R_4R_5 + C_3C_5C_6R_3R_5R_6 + C_4C_5C_6R_4R_5R_6\right) + s^2\left(C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_6R_4R_5 + C_4C_6R_4R_6 + C_5C_6R_5R_6\right) + s\left(C_3R_3 + C_4R_4 + C_5R_5 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_4C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C
10.1059 X-INVALID-ORDER-1059 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)
H(s) = \frac{C_3C_4C_5R_3R_4R_5R_6s^3 + R_6 + s^2\left(C_3C_4R_3R_4R_5R_6 + C_3C_5R_3R_4R_5R_6 + C_3C_4R_3R_4R_5R_6 + C_3C_4R_5R_5R_6 + C_3C_
10.1060 X-INVALID-ORDER-1060 Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)
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10.1051 X-INVALID-ORDER-1051 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3 R_3 R_4 R_6 s + R_4 R_6}{s^2 \left(C_1 C_2 R_3 R_4 R_5 + C_1 C_3 R_3 R_4 R_5 + C_1 C_4 R_3 R_4 R_5 + C_2 C_3 R_3 R_4 R_5\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$

10.1061 X-INVALID-ORDER-1061 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_3 R_4 s + R_4}{s^3 \left(C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_3 C_6 R_3 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 R_5 + C_2 C_3 C_6 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right)}$$

10.1062 X-INVALID-ORDER-1062 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_3R_4R_6s^2 + R_4 + s\left(C_3R_3R_4 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

10.1063 X-INVALID-ORDER-1063 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5, \frac{R_6}{C_6 R_6 s+1}\right)$

10.1064 X-INVALID-ORDER-1064 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_3R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s\left(C_1C_2R_3R_4 + C_1C_3R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_2C_3R_3R_4\right)}$$

10.1065 X-INVALID-ORDER-1065 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{R_3}{C_3 R_3 s + 1}, & \frac{R_4}{C_4 R_4 s + 1}, & \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}$

$$H(s) = \frac{C_3C_5R_3R_4s + C_5R_4}{s^2\left(C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1066 X-INVALID-ORDER-1066 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_3R_4R_6s^2 + C_5R_4 + s\left(C_3C_5R_3R_4 + C_5C_6R_4R_6\right)}{s^2\left(C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1067 X-INVALID-ORDER-1067 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_3R_4s + C_5R_4}{s^3\left(C_1C_2C_5C_6R_3R_4R_5 + C_1C_3C_5C_6R_3R_4R_5 + C_1C_4C_5C_6R_3R_4R_5 + C_2C_3C_5C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_$$

10.1068 X-INVALID-ORDER-1068 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$C_3C_5C_6R_3R_4R_6s^2 + C_5R_4 + s(C_3C_5R_3R_4 + C_5C_6R_4R_6)$$

 $\frac{C_{3}C_{5}C_{6}R_{3}R_{4}R_{6}s^{2}+C_{5}R_{4}+s\left(C_{3}C_{5}R_{3}R_{4}+C_{5}C_{6}R_{4}R_{6}\right)}{s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{3}R_{4}+C_{2}C_{5}C_{6}R_{3}R_{4}+C$

10.1069 X-INVALID-ORDER-1069 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$H(s) = \frac{C_3C_5R_3R_4R_6s_5}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_5C_6R_3R_4R_5R_6 + C_1C_3C_5C_6R_3R_4R_5R_6 + C_2C_3C_5C_6R_3R_4R_5 + C_1C_2C_5R_3R_4R_5 + C_1C_3C_5R_3R_4R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5$$

10.1070 X-INVALID-ORDER-1070 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_3R_4R_5R_6s^2 + R_4R_6 + s\left(C_3R_3R_4R_6 + C_5R_4R_5R_6\right)}{s^2\left(C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_4R_3R_4R_5 - C_1C_5R_3R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$$

10.1071 X-INVALID-ORDER-1071 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5R_3R_4R_5s^2 + R_4 + s\left(C_3R_3R_4 + C_5R_4R_5\right)}{s^3\left(C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$ 10.1072 X-INVALID-ORDER-1072 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5C_6R_3R_4R_5R_6s^3 + R_4 + s^2\left(C_3C_5R_3R_4R_5 + C_3C_6R_3R_4R_6 + C_5C_6R_4R_5R_6\right) + s\left(C_3R_3R_4 + C_5R_4R_5 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$ **10.1073** X-INVALID-ORDER-1073 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$ $H(s) = \frac{C_3C_5R_3R_4R_5R_6s^2 + R_4R_6 + s\left(C_3R_3R_4R_5R_6 + C_5R_4R_5R_6\right)}{s^3\left(C_1C_2C_6R_3R_4R_5R_6 + C_1C_3C_6R_3R_4R_5R_6 + C_1C_5C_6R_3R_4R_5R_6 + C_2C_3C_6R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_3R_4R_5 + C_1C_4R_3R_4R_5 + C_1C_4R_3R_4R_5 + C_1C_6R_3R_4R_5 + C_1C_6R_5R_5 + C_1C_6$ **10.1074** X-INVALID-ORDER-1074 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, R_6\right)$ $H(s) = \frac{C_2R_2R_4R_6s + R_4R_6}{s^2\left(-C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$ 10.1075 X-INVALID-ORDER-1075 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2 R_2 R_4 s + R_4}{s^3 \left(-C_1 C_2 C_6 R_2 R_3 R_4 + C_1 C_2 C_6 R_2 R_3 R_5 + C_1 C_2 C_6 R_2 R_4 R_5 + C_1 C_2 C_6 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right)}$ **10.1076** X-INVALID-ORDER-1076 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_6R_2R_4R_6s^2 + R_4 + s\left(C_2R_2R_4 + C_6R_4R_6\right)}{s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$ 10.1077 X-INVALID-ORDER-1077 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_2 R_2 R_4 R_6 s + R_4 R_6}{s^3 \left(-C_1 C_2 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 R_2 R_3 R_4 + C_1 C_2 R_2 R_3 R_4 + C_1 C_2 R_2 R_3 R_4 + C_1 C_2 R_2 R_4 R_5 + C_1 C_2 R_3 R_4 R_6 + C_1 C_6 R_4 R_5 R$ 10.1078 X-INVALID-ORDER-1078 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_5R_2R_4s + C_5R_4}{-C_1C_2C_5C_6R_2R_3R_4s^3 + s^2\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$ 10.1079 X-INVALID-ORDER-1079 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_5C_6R_2R_4R_6s^2 + C_5R_4 + s\left(C_2C_5R_2R_4 + C_5C_6R_4R_6\right)}{-C_1C_2C_5C_6R_2R_3R_4s^3 + s^2\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$ **10.1080** X-INVALID-ORDER-1080 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_2C_5R_2R_4R_6s + C_5R_4R_6}{-C_1C_2C_5C_6R_2R_3R_4R_6s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(-C_1C_2C_5R_2R_3R_4 + C_1C_2C_6R_2R_3R_6 + C_1C_2C_6R_2R_4R_6 + C_1C_2C_6R_3R_4R_6\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_5R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_4R_6 + C_2C_6R_4R_6\right)}$

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10.1081 X-INVALID-ORDER-1081 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
       H(s) = \frac{C_2C_5R_2R_4s + C_5R_4}{s^3\left(-C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_3R_4 + C_1C_2C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C
10.1082 X-INVALID-ORDER-1082 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ R_4, \ R_5 + \frac{1}{C_5 s}, \ R_6 + \frac{1}{C_6 s}\right)
       H(s) = \frac{C_2C_5C_6R_2R_4R_6s^2 + C_5R_4 + s\left(C_2C_5R_2R_4 + C_5C_6R_4R_6\right)}{s^3\left(-C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_3R_4 + C_1C_2C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4R_5\right) + s\left(C_1C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C_6
10.1083 X-INVALID-ORDER-1083 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_5R_2R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(-C_1C_2C_5C_6R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_3R_5R_6 + C_1C_2C_5C_6R_2R_4R_5R_6 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_2R_4R_5 + C
10.1084 X-INVALID-ORDER-1084 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                                                         H(s) = \frac{C_2C_5R_2R_4R_5R_6s^2 + R_4R_6 + s\left(C_2R_2R_4R_6 + C_5R_4R_5R_6\right)}{-C_1C_2C_5R_2R_3R_4R_5s^3 + s^2\left(-C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 - C_1C_5R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}
10.1085 X-INVALID-ORDER-1085 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                              H(s) = \frac{C_2C_5R_2R_4R_5s^2 + R_4 + s\left(C_2R_2R_4 + C_5R_4R_5\right)}{-C_1C_2C_5C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}
10.1086 X-INVALID-ORDER-1086 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                              H(s) = \frac{C_2C_5C_6R_2R_4R_5R_6s^3 + R_4 + s^2\left(C_2C_5R_2R_4R_5 + C_2C_6R_2R_4R_6 + C_5C_6R_4R_5R_6\right) + s\left(C_2R_2R_4 + C_5R_4R_5 + C_6R_4R_6\right)}{-C_1C_2C_5C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}
10.1087 X-INVALID-ORDER-1087 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_5R_2R_4R_5R_6s^2 + R_4R_6 + s\left(C_2R_2R_4R_6 + C_5R_4R_5R_6\right)}{-C_1C_2C_5C_6R_2R_3R_4R_5R_6s^4 + s^3\left(-C_1C_2C_5R_2R_3R_4R_5 - C_1C_2C_6R_2R_3R_4R_5 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_4 + C_1C_2R_3R_4R_5 + C_1C_2R_3R_4R_5 - C_1C_5R_3R_4R_5 - C_1C_5R_5R_5R_5 - 
10.1088 X-INVALID-ORDER-1088 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)
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$$H(s) = \frac{C_2 R_2 R_6 s + R_6}{C_1 C_2 C_4 R_2 R_3 R_5 s^3 + s^2 \left(-C_1 C_2 R_2 R_3 + C_1 C_2 R_2 R_5 + C_1 C_2 R_3 R_5 + C_1 C_4 R_3 R_5\right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5\right)}$$

10.1089 X-INVALID-ORDER-1089 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2R_2s + 1}{C_1C_2C_4C_6R_2R_3R_5s^4 + s^3\left(-C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1090 X-INVALID-ORDER-1090 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_6R_2R_6s^2 + s\left(C_2R_2 + C_6R_6\right) + 1}{C_1C_2C_4C_6R_2R_3R_5s^4 + s^3\left(-C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1091 X-INVALID-ORDER-1091 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2 R_2 R_6 s + R_6}{C_1 C_2 C_4 C_6 R_2 R_3 R_5 R_6 s^4 + s^3 \left(C_1 C_2 C_4 R_2 R_3 R_5 - C_1 C_2 C_6 R_2 R_3 R_6 + C_1 C_2 C_6 R_2 R_5 R_6 + C_1 C_2 C_6 R_3 R_5 R_6 + C_1 C_4 C_6 R_3 R_5 R_6 \right) + s^2 \left(-C_1 C_2 R_2 R_3 + C_1 C_2 R_3 R_5 + C_1 C_4 R_3 R_5 - C_1 C_6 R_3 R_6 + C_1 C_6 R_5 R_6 + C_2 C_6 R_5 R_6 \right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5 R_6 + C_1 C_4 R_3 R_5 - C_1 C_4 R_5 R_5 - C_1 C_5 R_5 R_5 - C_1 C_$

10.1092 X-INVALID-ORDER-1092 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5R_2s + C_5}{s^3\left(C_1C_2C_4C_6R_2R_3 - C_1C_2C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}$

10.1093 X-INVALID-ORDER-1093 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5C_6R_2R_6s^2 + C_5 + s\left(C_2C_5R_2 + C_5C_6R_6\right)}{s^3\left(C_1C_2C_4C_6R_2R_3 - C_1C_2C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}$

10.1094 X-INVALID-ORDER-1094 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_5R_2R_6s + C_5R_6}{C_1 + C_2 + s^3\left(C_1C_2C_4C_6R_2R_3R_6 - C_1C_2C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3 + C_1C_2C_6R_2R_6 + C_1C_2C_6R_3R_6 + C_1C_4C_6R_3R_6 - C_1C_5C_6R_3R_6\right) + s\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 - C_1C_5R_3 + C_1C_6R_6 + C_2C_6R_6\right)}$

10.1095 X-INVALID-ORDER-1095 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_5R_2R_6s + C_5R_6}{C_1C_2C_4C_5R_2R_3R_5s^3 + C_1 + C_2 + s^2\left(C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_3R_5 + C_1C_4C_5R_3R_5\right) + s\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 - C_1C_5R_3 + C_1C_5R_5 + C_2C_5R_5\right)}$

10.1096 X-INVALID-ORDER-1096 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5R_2s + C_5}{C_1C_2C_4C_5C_6R_2R_3R_5s^4 + s^3\left(C_1C_2C_4C_6R_2R_3 - C_1C_2C_5C_6R_2R_3 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_6\right)}$

10.1097 X-INVALID-ORDER-1097 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5C_6R_2R_6s^2 + C_5 + s\left(C_2C_5R_2 + C_5C_6R_6\right)}{C_1C_2C_4C_5C_6R_2R_3R_5s^4 + s^3\left(C_1C_2C_4C_6R_2R_3 - C_1C_2C_5C_6R_2R_3 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_1C_5C_6R_5 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_6\right)}$

10.1098 X-INVALID-ORDER-1098 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_5R_2R_3R_5R_6s^4 + C_1 + C_2 + s^3\left(C_1C_2C_4C_5R_2R_3R_5 + C_1C_2C_5C_6R_2R_3R_6 + C_1C_2C_5C_6R_2R_3R_6 + C_1C_2C_5C_6R_2R_3R_5R_6 + C_1C_2C_5C_6R_3R_5R_6 + C_1C_2C_5R_3R_5R_6 + C_1C_2C_5R_3R_5 + C_1C_$

10.1099 X-INVALID-ORDER-1099 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_5R_2R_5R_6s^2 + R_6 + s\left(C_2R_2R_6 + C_5R_5R_6\right)}{s^3\left(C_1C_2C_4R_2R_3R_5 - C_1C_2C_5R_2R_3R_5\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_2R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$

10.1100 X-INVALID-ORDER-1100 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5R_2R_5s^2 + s\left(C_2R_2 + C_5R_5\right) + 1}{s^4\left(C_1C_2C_4C_6R_2R_3R_5 - C_1C_2C_5C_6R_2R_3R_5\right) + s^3\left(-C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5 - C_1C_5C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$

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10.1101 X-INVALID-ORDER-1101 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                   H(s) = \frac{C_2C_5C_6R_2R_5R_6s^3 + s^2\left(C_2C_5R_2R_5 + C_2C_6R_2R_6 + C_5C_6R_5R_6\right) + s\left(C_2R_2 + C_5R_5 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_4C_6R_2R_3R_5 - C_1C_2C_5C_6R_2R_3R_5\right) + s^3\left(-C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5 - C_1C_5C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}
10.1102 X-INVALID-ORDER-1102 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_5R_2R_5R_6s^2 + R_6 + s\left(C_2R_2R_6 + C_5R_5R_6\right)}{s^4\left(C_1C_2C_4C_6R_2R_3R_5R_6 - C_1C_2C_5C_6R_2R_3R_5R_6\right) + s^3\left(C_1C_2C_4R_2R_3R_5 - C_1C_2C_5R_2R_3R_5 - C_1C_2C_6R_2R_3R_6 + C_1C_2C_6R_2R_3R_5R_6 - C_1C_5C_6R_3R_5R_6\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5R_6\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5R_6\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_3R_5 + C_1C_2R_3R_5 - C_1C_5R_3R_5\right) + s^2\left(-C_1C_2R_3R_5 + C_1C_2R_3R_5 - C_1C_2C_5R_3R_5 - C_1C_5R_3R_5\right) + s^2\left(-C_1C_2R_3R_5 - C_1C_2C_5R_3R_5 - C_1C_2C_5R_3R_5\right) + s^2\left(-C_1C_2R_3R_5 - C_1C_2C_5R_3R_5 - C_1C_2C_5R_3R_5\right) + s^2\left(-C_1C_2R_3R_5 - C_1C_2C_5R_3R_5 - C_1C_2C_5R_3R_5\right) + s^2\left(-C_1C_2R_3R_5 - C_1C_2R_3R_5\right) + s^2\left(-C_1C_2R_3R_5\right) + s^2\left(-C_1
10.1103 X-INVALID-ORDER-1103 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
                                                                               H(s) = \frac{C_2C_4R_2R_4R_6s^2 + R_6 + s\left(C_2R_2R_6 + C_4R_4R_6\right)}{s^3\left(-C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_5 + C_1C_2C_4R_2R_4R_5 + C_1C_2C_4R_3R_4R_5\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_2R_5 + C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_4R_5 + C_2C_4R_4R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}
10.1104 X-INVALID-ORDER-1104 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ R_5, \ \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_4R_2R_4s^2 + s\left(C_2R_2 + C_4R_4\right) + 1}{s^4\left(-C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 + C_
10.1105 X-INVALID-ORDER-1105 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_4C_6R_2R_4R_6s^3 + s^2\left(C_2C_4R_2R_4 + C_2C_6R_2R_6 + C_4C_6R_4R_6\right) + s\left(C_2R_2 + C_4R_4 + C_6R_6\right) + 1}{s^4\left(-C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 + C
10.1106 X-INVALID-ORDER-1106 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_4R_2R_4R_6s^2 + R_6 + s\left(C_2R_2R_3R_4R_6 + C_1C_2C_4C_6R_2R_3R_5R_6 + C_1C_2C_4C_6R_2R_4R_5R_6 + s\left(C_2R_2R_3R_4R_5 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_3R_4R_5 + C
10.1107 X-INVALID-ORDER-1107 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                 H(s) = \frac{C_2C_4C_5R_2R_4R_6s^2 + C_5R_6 + s\left(C_2C_5R_2R_6 + C_4C_5R_4R_6\right)}{-C_1C_2C_4C_5R_2R_3R_4s^3 + C_1 + C_2 + s^2\left(C_1C_2C_4R_2R_3 + C_1C_2C_4R_3R_4 - C_1C_2C_5R_2R_3 - C_1C_4C_5R_3R_4\right) + s\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_2C_4R_4\right)}
10.1108 X-INVALID-ORDER-1108 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                        H(s) = \frac{C_2C_4C_5R_2R_4s^2 + C_5 + s\left(C_2C_5R_2 + C_4C_5R_4\right)}{-C_1C_2C_4C_5R_2R_3R_4s^4 + s^3\left(C_1C_2C_4C_6R_2R_3 + C_1C_2C_4C_6R_2R_4 + C_1C_2C_4C_6R_3R_4 - C_1C_2C_5C_6R_2R_3 - C_1C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_
10.1109 X-INVALID-ORDER-1109 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                        H(s) = \frac{C_2C_4C_5C_6R_2R_4R_6s^3 + C_5 + s^2\left(C_2C_4C_5R_2R_4 + C_2C_5C_6R_2R_6 + C_4C_5C_6R_4R_6\right) + s\left(C_2C_5R_2 + C_4C_5R_4 + C_5C_6R_6\right)}{-C_1C_2C_4C_5R_2R_3R_4s^4 + s^3\left(C_1C_2C_4C_6R_2R_3 + C_1C_2C_4C_6R_2R_4 + C_1C_2C_5C_6R_2R_3 - C_1C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_4 - C_1C_5C_6R_3 + C_2C_4C_6R_4\right) + s\left(C_1C_6C_6R_3R_4 + C_1C_4C_6R_3 + C_1C_4C_6R_3\right)}
10.1110 X-INVALID-ORDER-1110 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_2C_4C_5R_2R_3R_4R_6s^4 + C_1 + C_2 + s^3 \left(-C_1C_2C_4C_5R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_6 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_6 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4R_3R_4 + C_1C_2C_4R_3R_4$

 $C_2C_4C_5R_2R_4R_6s^2 + C_5R_6 + s\left(C_2C_5R_2R_6 + C_4C_5R_4R_6\right)$

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10.1111 X-INVALID-ORDER-1111 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_4C_5R_2R_4R_6s^2 + C_5R_6 + s\left(C_2C_5R_2R_6 + C_4C_5R_4R_6\right)}{C_1 + C_2 + s^3\left(-C_1C_2C_4C_5R_2R_3R_4 + C_1C_2C_4C_5R_2R_4R_5 + C_1C_2C_4C_5R_3R_4 + C_1C_2C_4R_2R_3 + C_1C_2C_4R_2R_4 + C_1C_2C_5R_2R_3 + C_1C_2C_5R_2R_5 + C_1C_4C_5R_3R_4 + C_1C_4C_5R_4R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5
10.1112 X-INVALID-ORDER-1112 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_4C_5R_2R_4s^2 + C_5 + s\left(C_2C_5R_2 + C_4C_5R_4\right)}{s^4\left(-C_1C_2C_4C_5C_6R_2R_3R_4 + C_1C_2C_4C_5C_6R_2R_3R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_3R_4 + C_1C_2C_4C_6R_2R_4 + C_1C_2C_4C_6R_2R_3 + C_1C_2C_5C_6R_2R_3 + C_1C_2C_5C_6R_2R_5 + C_1C_4C_5C_6R_3R_4 + 
10.1113 X-INVALID-ORDER-1113 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_4C_5C_6R_2R_4R_6s^3 + C_5 + s^2\left(C_2C_4C_5R_2R_4 + C_2C_5C_6R_2R_6 + C_4C_5C_6R_4R_6\right) + s\left(C_2C_5R_2 + C_4C_5C_6R_2R_4 + C_4C_5C_6R_3R_4 + 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_2C_4C_5C_6R_2R_4R_6s^3 + C_5 + s^2(C_2C_4C_5R_2R_4 + C_2C_5C_6R_2R_6 + C_4C_5C_6R_4R_6) + s(C_2C_5R_2 + C_4C_5C_6R_4R_6) + s(C_2C_5R_2 + C_4C_5C_6R_4R_6) + s(C_2C_5R_4R_6) + s(C_2C_5R_6R_6) + s(C_2C_5R_6) + s(C_2
10.1114 X-INVALID-ORDER-1114 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 + C_2 + s^4 \left(-C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_5 R_5 + C_1 C_5 C_5 R_5 R_5 + C_1 C_5 C_5 R_5 R_5 + C_1 C_5 C_5 R_5 R_5 + C_1 C
10.1115 X-INVALID-ORDER-1115 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_2C_4C_5R_2R_4R_5R_6s^3 + R_6 + s^2\left(C_2C_4R_2R_4R_6 + C_2C_5R_2R_5R_6 + C_4C_5R_4R_5R_6\right) + s\left(C_2R_2R_6 + C_4R_4R_6 + C_5R_5R_6\right)}{-C_1C_2C_4C_5R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_5 + C_1C_2C_4R_3R_4R_5 - C_1C_2C_5R_2R_3R_5 - C_1C_4C_5R_3R_4R_5\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_3R_5 - C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_4R_5 - C_1C_5R_3R_5 + C_2C_4R_3R_4R_5\right)}
10.1116 X-INVALID-ORDER-1116 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_4C_5R_2R_4R_5s^3 + s^2\left(C_2C_4R_2R_4 + C_2C_5R_2R_5 + C_4C_5R_4R_5\right) + s\left(C_2R_2 + C_4R_4 + C_5R_5\right) + 1}{-C_1C_2C_4C_5R_2R_3R_4R_5s^5 + s^4\left(-C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_4R_4 + C_1C_4C_6
10.1117 X-INVALID-ORDER-1117 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_4C_5C_6R_2R_4R_5R_6s^4 + s^3\left(C_2C_4C_5R_2R_4R_5 + C_2C_4C_6R_2R_4R_6 + C_2C_5C_6R_2R_5R_6 + C_4C_5R_4R_5 + C_2C_6R_2R_5 + C_2C_6R_2R_6 + C_4C_5R_4R_5 + C_4C_6R_4R_6 + C_5C_6R_5R_6\right) + s\left(C_2R_2C_4C_5R_2R_3R_4R_5s^5 + s^4\left(-C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_3R_5 + C_1C_2
10.1118 X-INVALID-ORDER-1118 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-C_1C_2C_4C_5C_6R_2R_3R_4R_5R_6s^5 + s^4\left(-C_1C_2C_4C_5R_2R_3R_4R_5 - C_1C_2C_4C_6R_2R_3R_4R_6 + C_1C_2C_4C_6R_2R_3R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 - C_1C_2C_5C_6R_2R_3R_5R_6 - C_1C_4C_5C_6R_3R_4R_5R_6\right) + s^3\left(-C_1C_2C_4R_2R_3R_4R_5 - C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_2C_4C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 - C_1C_4C_5C_6R_3R_4R_5R_6\right) + s^3\left(-C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_2C_4C_6R_2R_3R_4R_5 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6\right) + s^3\left(-C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_2C_4C_6R_2R_3R_4R_5 + C_1C_2
10.1119 X-INVALID-ORDER-1119 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)
                                                                                                                                                                                                                                             H(s) = \frac{C_2R_2R_4R_6s + R_4R_6}{C_1C_2C_4R_2R_3R_4R_5s^3 + s^2\left(-C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_4R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}
10.1120 X-INVALID-ORDER-1120 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_2 R_2 R_4 s + R_4}{C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 s^4 + s^3 \left(-C_1 C_2 C_6 R_2 R_3 R_4 + C_1 C_2 C_6 R_2 R_3 R_5 + C_1 C_2 C_6 R_2 R_4 R_5 + C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right)}$

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10.1121 X-INVALID-ORDER-1121 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                           H(s) = \frac{C_2C_6R_2R_4R_6s^2 + R_4 + s\left(C_2R_2R_4 + C_6R_4R_6\right)}{C_1C_2C_4C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}
10.1122 X-INVALID-ORDER-1122 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2 R_2 R_4 R_6 s + R_4 R_6}{C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 R_6 s^4 + s^3 \left(C_1 C_2 C_4 R_2 R_3 R_4 R_5 - C_1 C_2 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 
10.1123 X-INVALID-ORDER-1123 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                 H(s) = \frac{C_2C_5R_2R_4s + C_5R_4}{s^3\left(C_1C_2C_4C_6R_2R_3R_4 - C_1C_2C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}
10.1124 X-INVALID-ORDER-1124 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                 H(s) = \frac{C_2C_5C_6R_2R_4R_6s^2 + C_5R_4 + s\left(C_2C_5R_2R_4 + C_5C_6R_4R_6\right)}{s^3\left(C_1C_2C_4C_6R_2R_3R_4 - C_1C_2C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}
10.1125 X-INVALID-ORDER-1125 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_5R_2R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_4C_6R_2R_3R_4R_6 - C_1C_2C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2C_4R_2R_3R_4 - C_1C_2C_5R_2R_3R_4 + C_1C_2C_6R_2R_3R_6 + C_1C_2C_6R_2R_3R_4R_6 - C_1C_5C_6R_3R_4R_6\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_
10.1126 X-INVALID-ORDER-1126 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_5R_2R_4R_6s + C_5R_4R_6}{C_1C_2C_4C_5R_2R_3R_4R_5s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_4R_2R_3R_4 - C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_3R_4R_5\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_4C_5R_3R_4R_5\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_4C_5R_3R_4R_5\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_4C_5R_3R_4R_5\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_4C_5R_3R_4R_5\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_4C_5R_3R_4R_5\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_
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10.1127 X-INVALID-ORDER-1127 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5R_2R_4s + C_5R_4}{C_1C_2C_4C_5C_6R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_4C_6R_2R_3R_4 - C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_$

10.1128 X-INVALID-ORDER-1128 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5C_6R_2R_4R_6s^2 + C_5R_4 + s\left(C_2C_5R_2R_4 + C_5C_6R_4R_6\right)}{C_1C_2C_4C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 +$

10.1129 X-INVALID-ORDER-1129 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_4C_5C_6R_2R_3R_4R_5R_6s^4 + C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_4C_5R_2R_3R_4R_5 + C_1C_2C_5C_6R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_5C_6R_3R_4R_5R_6 + C_1C_2C_5C_6R_3R_4R_5R_5 + C_1C_2C_5C_6R_3R_4R_5R_5R_5 + C_1C_2C_5C_6R_3R_4R_5R_5 + C_1C_2C_5C_6R_3R_4R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5R_5 + C_1C_2C_5C_5R_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5R_5 + C_1C_5C_5C_$

10.1130 X-INVALID-ORDER-1130 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_5R_2R_4R_5R_6s^2 + R_4R_6 + s\left(C_2R_2R_4R_6 + C_5R_4R_5R_6\right)}{s^3\left(C_1C_2C_4R_2R_3R_4R_5 - C_1C_2C_5R_2R_3R_4R_5\right) + s^2\left(-C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_4R_3R_4R_5 - C_1C_5R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$

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10.1131 X-INVALID-ORDER-1131 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                             H(s) = \frac{C_2C_5R_2R_4R_5s^2 + R_4 + s\left(C_2R_2R_4 + C_5R_4R_5\right)}{s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_2C_5C_6R_2R_3R_4R_5\right) + s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_1C_6R_4R_5\right)}
10.1132 X-INVALID-ORDER-1132 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                             H(s) = \frac{C_2C_5C_6R_2R_4R_5R_6s^3 + R_4 + s^2\left(C_2C_5R_2R_4R_5 + C_2C_6R_2R_4R_6 + C_5C_6R_4R_5R_6\right) + s\left(C_2R_2R_4 + C_5R_4R_5 + C_6R_4R_6\right)}{s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_2C_5C_6R_2R_3R_4R_5\right) + s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}
10.1133 X-INVALID-ORDER-1133 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_2C_5R_2R_4R_5R_6s^2 + R_4R_6 + s\left(C_2R_2R_4R_6 + C_5R_4R_5R_6\right)
H(s) = \frac{C_2C_5R_2R_4R_5R_6s^2 + R_4R_6 + s\left(C_2R_2R_4R_6 + C_5R_4R_5R_6\right)}{s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5R_6 - C_1C_2C_5C_6R_2R_3R_4R_5 - C_1C_2C_5R_2R_3R_4R_5 - C_1C_2C_6R_2R_3R_4R_5 - C_1C_2C_4R_4R_5 
10.1134 X-INVALID-ORDER-1134 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                        H(s) = \frac{C_2C_3R_2R_4s + C_3R_4}{C_1C_2C_3C_6R_2R_4R_5s^3 + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}
10.1135 X-INVALID-ORDER-1135 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                       H(s) = \frac{C_2C_3C_6R_2R_4R_6s^2 + C_3R_4 + s\left(C_2C_3R_2R_4 + C_3C_6R_4R_6\right)}{C_1C_2C_3C_6R_2R_4R_5s^3 + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}
10.1136 X-INVALID-ORDER-1136 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3R_2R_4R_6s + C_3R_4R_6}{C_1C_2C_3C_6R_2R_4R_5R_6s^3 - C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_2R_4R_5 - C_1C_2C_6R_2R_4R_6 + C_1C_2C_6R_2R_5R_6 + C_1C_3C_6R_4R_5R_6\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_4R_5R_6\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_5R_6\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_4R_5 + C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_4R_5 - C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_4R_5 - C_1C_3R_4R_5 - C_1C_6R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_4R_5 - C_1C_3R_4R_5 - C_1C_6R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_4R_5 - C_1C_3R_4R_5 - C_1C_6R_4R_5\right) + s\left(-C_1C_2R_4R_5 - C_1C_3R_4R_5\right) + s\left(-C_1C_2R_4R_5 - C_1C_3R_4R_5\right) + s\left(-C_1C_3R_4R_5 - C_1C_3R_4R_5\right) + s\left(-C_1C_3R_4R_5\right) + 
10.1137 X-INVALID-ORDER-1137 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                   H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_6R_2R_4R_6 - C_1C_2C_5C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3R_2R_4 - C_1C_2C_5R_2R_4 + C_1C_2C_6R_2R_6 + C_1C_2C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_2C_3C_6R_4R_6\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4\right)}
10.1138 X-INVALID-ORDER-1138 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                           H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3C_5R_2R_4R_5s^3 + C_1 + s^2\left(C_1C_2C_3R_2R_4 - C_1C_2C_5R_2R_4 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_2C_3C_5R_4R_5\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_5R_5 + C_2C_3R_4\right)}
10.1139 X-INVALID-ORDER-1139 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                        H(s) = \frac{C_2C_3C_5R_2R_4s + C_3C_5R_4}{C_1C_2C_3C_5C_6R_2R_4R_5s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_4 - C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_6R_4 + C_1C_3C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_5 +
10.1140 X-INVALID-ORDER-1140 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                        H(s) = \frac{C_2C_3C_5C_6R_2R_4R_6s^2 + C_3C_5R_4 + s\left(C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_2C_3C_5C_6R_2R_4R_5s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_4 - C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4 + C_1C_3C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4 + C_1C_3C_5C_6R
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10.1141 X-INVALID-ORDER-1141
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3C_5C_6R_2R_4R_5R_6s^4 + C_1 + s^3\left(C_1C_2C_3C_5R_2R_4R_6 + C_1C_2C_5C_6R_2R_4R_6 + C_1C_2C_5C_6R_2R_4R_6 + C_1C_2C_5C_6R_4R_5R_6 + C_1C_2C_5C_6R_4R_5R_6 + C_1C_2C_5R_2R_4 + C_1C_2C_5R_4R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_$

10.1142 X-INVALID-ORDER-1142 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_4R_5s^2 + C_3R_4 + s\left(C_2C_3R_2R_4 + C_3C_5R_4R_5\right)}{s^3\left(C_1C_2C_3C_6R_2R_4R_5 - C_1C_2C_5C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.1143 X-INVALID-ORDER-1143 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5C_6R_2R_4R_5R_6s^3 + C_3R_4 + s^2\left(C_2C_3C_5R_2R_4R_5 + C_2C_3C_6R_2R_4R_6 + C_3C_5C_6R_4R_5R_6\right) + s\left(C_2C_3R_2R_4 + C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_4R_5 - C_1C_2C_5C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.1144 X-INVALID-ORDER-1144 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_2C_3R_2R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_2R_4R_5R_6 - C_1C_2C_5C_6R_2R_4R_5 - C_1C_2C_5R_2R_4R_5 - C_1C_2C_6R_2R_4R_6 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_3C_6R_4R_5R_6 - C_1C_5C_6R_4R_5R_6 + C_1C_3C_6R_4R_5R_6 + C_1C_3C_6$$

10.1145 X-INVALID-ORDER-1145 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3R_2s + C_3}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$$

10.1146 X-INVALID-ORDER-1146 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_6R_2R_6s^2 + C_3 + s\left(C_2C_3R_2 + C_3C_6R_6\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$$

10.1147 X-INVALID-ORDER-1147 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_2C_3R_2R_6s + C_3R_6}{-C_1 + s^3\left(C_1C_2C_3C_6R_2R_5R_6 + C_1C_2C_4C_6R_2R_5R_6\right) + s^2\left(C_1C_2C_3R_2R_5 + C_1C_2C_4R_2R_5 - C_1C_2C_6R_2R_6 + C_1C_2C_6R_5R_6 + C_1C_4C_6R_5R_6 + C_1C_4C_6R_5R_6\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 - C_1C_6R_6 + C_2C_3R_5\right)}$$

10.1148 X-INVALID-ORDER-1148 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_3R_2 + C_1C_2C_4R_2 - C_1C_2C_5R_2\right)}$$

10.1149 X-INVALID-ORDER-1149 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5R_2s + C_3C_5}{s^2\left(C_1C_2C_3C_6R_2 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.1150 X-INVALID-ORDER-1150 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5C_6R_2R_6s^2 + C_3C_5 + s\left(C_2C_3C_5R_2 + C_3C_5C_6R_6\right)}{s^2\left(C_1C_2C_3C_6R_2 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.1151 X-INVALID-ORDER-1151 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_3C_5R_2s + C_3C_5}{s^3\left(C_1C_2C_3C_5C_6R_2R_5 + C_1C_2C_4C_5C_6R_2R_5\right) + s^2\left(C_1C_2C_3C_6R_2 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_4C_5C_6R_5\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$ **10.1152** X-INVALID-ORDER-1152 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_2C_3C_5C_6R_2R_6s^2 + C_3C_5 + s\left(C_2C_3C_5R_2 + C_3C_5C_6R_6\right)}{s^3\left(C_1C_2C_3C_5C_6R_2R_5 + C_1C_2C_4C_5C_6R_2 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2 + C_1C_2C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_4C_5C_6R_5 + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$

10.1153 X-INVALID-ORDER-1153 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_2C_3C_5R_2R_6s + C_3C_5R_6$ $H(s) = \frac{C_2 C_3 C_5 R_2 R_6 s + C_3 C_5 R_6}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3 + s^3 \left(C_1 C_2 C_3 C_5 R_2 R_5 + C_1 C_2 C_4 C_5 R_2 R_5 + C_1 C_2 C_3 C_5 R_2 R_5 + C_1 C_2 C_4 C_5 R_2 R_5 + C_1 C_2 C_4 C_5 R_2 R_6 + C_1 C_2 C_5 C_6 R_$

10.1154 X-INVALID-ORDER-1154 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_5s^2 + C_3 + s\left(C_2C_3R_2 + C_3C_5R_5\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5 - C_1C_2C_5C_6R_2R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$

10.1155 X-INVALID-ORDER-1155 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_2R_5R_6s^3 + C_3 + s^2\left(C_2C_3C_5R_2R_5 + C_2C_3C_6R_2R_6 + C_3C_5C_6R_5R_6\right) + s\left(C_2C_3R_2 + C_3C_5R_5 + C_3C_6R_6\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5 - C_1C_2C_5C_6R_2R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$

10.1156 X-INVALID-ORDER-1156 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_5R_6s^2 + C_3R_6 + s\left(C_2C_3R_2R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_6R_2R_5R_6 + C_1C_2C_4C_6R_2R_5R_6 - C_1C_2C_5C_6R_2R_5R_6\right) + s\left(C_1C_2C_3R_2R_5 + C_1C_2C_4R_2R_5 - C_1C_2C_6R_2R_6 + C_1C_2C_6R_5R_6 + C_1C_4C_6R_5R_6 - C_1C_5C_6R_5R_6 + C_1C_4C_6R_5R_6 + C_1C_4C$

10.1157 X-INVALID-ORDER-1157 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3C_4R_2R_4R_6s^2 + C_3R_6 + s\left(C_2C_3R_2R_6 + C_3C_4R_4R_6\right)}{C_1C_2C_3C_4R_2R_4R_5s^3 - C_1 + s^2\left(C_1C_2C_3R_2R_5 - C_1C_2C_4R_2R_4 + C_1C_2C_4R_2R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 + C_1C_3R_5 - C_1C_4R_4 + C_1C_4R_5 + C_2C_3R_5\right)}$

10.1158 X-INVALID-ORDER-1158 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4R_2R_4s^2 + C_3 + s\left(C_2C_3R_2 + C_3C_4R_4\right)}{C_1C_2C_3C_4C_6R_2R_4R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_2R_5 - C_1C_2C_4C_6R_2R_4 + C_1C_2C_4C_6R_2R_5 + C_1C_3C_4C_6R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$

10.1159 X-INVALID-ORDER-1159 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_6R_2R_4R_6s^3 + C_3 + s^2\left(C_2C_3C_4R_2R_4 + C_2C_3C_6R_2R_6 + C_3C_4C_6R_4R_6\right) + s\left(C_2C_3R_2 + C_3C_4R_4 + C_3C_6R_6\right)}{C_1C_2C_3C_4C_6R_2R_4R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_2R_5 - C_1C_2C_4C_6R_2R_4 + C_1C_2C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(-C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_4 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$

10.1160 X-INVALID-ORDER-1160 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_2C_3C_4R_2R_4R_6s^2 + C_3R_6 + s\left(C_2C_3R_2R_6 + C_3C_4R_2R_6\right) + C_3C_4R_2R_6 + C_3C_4R_4R_6 + C_3C_4R_4R_6 + C_3C_4R_4R_6 + C_3C_4R_6 + C_3C_5R_6 + C_5R_6 +$

 $H(s) = \frac{C_2C_3C_4R_2R_4R_5R_6s^4 - C_1 + s^3\left(C_1C_2C_3C_4R_2R_4R_5 + C_1C_2C_4C_6R_2R_4R_6 + C_1C_2C_4C_6R_2R_5R_6 + C_1C_2C_4C_6R_4R_5R_6 + C_1C_2C_4C_6R_4R_5R_5 + C_1C_2C_4C_6R_4R_5R_5 + C_1C_2C_4C_6R_4R_5R_5 + C_1C_2C_4C_6R_5R_5 + C_1C_2C_4C_6R_5R_5 + C_1C_2C_4C_6R_5R_5 + C_1C_2C_4C_6R_$

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10.1161 X-INVALID-ORDER-1161 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                             H(s) = \frac{C_2C_3C_4C_5R_2R_4s^2 + C_3C_5 + s\left(C_2C_3C_5R_2 + C_3C_4C_5R_4\right)}{s^3\left(C_1C_2C_3C_4C_5R_2R_4 - C_1C_2C_4C_5R_2R_4\right) + s^2\left(C_1C_2C_3C_6R_2 + C_1C_2C_4C_6R_4 - C_1C_2C_5C_6R_2 + C_1C_3C_4C_6R_4 - C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
10.1162 X-INVALID-ORDER-1162 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                             H(s) = \frac{C_2C_3C_4C_5C_6R_2R_4R_6s^3 + C_3C_5 + s^2\left(C_2C_3C_4C_5R_2R_4 + C_2C_3C_5C_6R_2R_6 + C_3C_4C_5C_6R_4R_6\right) + s\left(C_2C_3C_5R_2 + C_3C_4C_5R_4 + C_3C_5C_6R_6\right)}{s^3\left(C_1C_2C_3C_4C_5R_2R_4 + c_3C_5C_6R_2R_4\right) + s^2\left(C_1C_2C_3C_6R_2 + C_1C_2C_4C_6R_2 + C_1C_2C_4C_6R_4 - C_1C_2C_5C_6R_4 + C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
10.1163 X-INVALID-ORDER-1163 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_6 + s\left(C_2C_3C_5R_2R_6 + C_3C_4C_5R_4R_6\right)}{C_1C_2 + C_1C_3 + C_1C_4 + C_1C_5 + C_2C_3 + s^3\left(C_1C_2C_3C_4C_6R_2R_4R_6 - C_1C_2C_4C_5R_2R_4 + C_1C_2C_4C_6R_2R_6 + C_1C_2C_4C_6R_2R_6 + C_1C_2C_4C_6R_2R_6 + C_1C_2C_4C_6R_2R_6 + C_1C_4C_5C_6R_4R_6 - C_1C_4C_5C_6R_4R_6 - C_1C_4C_5C_6R_4R_6 + C_1C_4C_5C
10.1164 X-INVALID-ORDER-1164 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_6 + s\left(C_2C_3C_5R_2R_6 + C_3C_4C_5R_4R_6\right)}{C_1C_2C_3C_4C_5R_2R_4R_5s^3 + C_1C_2 + C_1C_3 + C_1C_4 + C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_2R_4 + C_1C_2C_4C_5R_2R_4 + C_1C_2C_4C_5R_2R_5 + C_1C_2C_4C_5R_4R_5 + C_1C_3C_4C_5R_4R_5 + C_1C_3C_4C_5R_5R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R
10.1165 X-INVALID-ORDER-1165 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4C_5R_2R_4s^2 + C_3C_5 + s\left(C_2C_3C_5R_2 + C_3C_4C_5R_4\right)}{C_1C_2C_3C_4C_5R_2R_4s^4 + s^3\left(C_1C_2C_3C_4C_5R_2R_4 + C_1C_2C_4C_5C_6R_2R_5 + C_1C_2C_4C_5C_6R_4R_5 + C_1C_3C_4C_5C_6R_4R_5 + C_1C_3C_4C_5C_6R_4R_5 + C_1C_2C_4C_5C_6R_4R_5 + C_1C_2C_4C_5C_6R_5 + C_1C_2C_4C_5C
10.1166 X-INVALID-ORDER-1166 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_{2}C_{3}C_{4}C_{5}C_{6}R_{2}R_{4}R_{6}s^{3} + C_{3}C_{5} + s^{2}\left(C_{2}C_{3}C_{4}C_{5}R_{2}R_{4} + C_{2}C_{3}C_{5}C_{6}R_{2}R_{6} + C_{3}C_{4}C_{5}C_{6}R_{4}R_{6}\right) + s\left(C_{2}C_{3}C_{5}R_{2} + C_{3}C_{5}C_{6}R_{2}R_{6} + C_{3}C_{4}C_{5}C_{6}R_{4}R_{6}\right) + s\left(C_{2}C_{3}C_{5}R_{2} + C_{3}C_{5}C_{6}R_{2}R_{6} + C_{3}C_{4}C_{5}C_{6}R_{4}R_{6}\right) + s\left(C_{2}C_{3}C_{5}R_{2} + C_{3}C_{5}C_{6}R_{2}R_{6} + C_{3}C_{5}C_{6}R_{4}R_{6}\right) + s\left(C_{2}C_{3}C_{5}R_{2} + C_{3}C_{5}C_{6}R_{4}R_{6}\right) + s\left(C_{2}C_{3}C_{5}R_{5}R_{5} + C_{3}C_{5}C_{6}R_{5}R_{5}\right) + s\left(C_{2}C_{3}C_{5}R_{5}R_{5} + C_{3}C_{5}R_{5}R_{5}\right) + s\left(C_{2}C_{5}R_{5}R_{5}R_{5} + C_{3}C_{5}R_{5}R_{5}\right) + s\left(C_{2}C_{5
H(s) = \frac{C_2C_3C_4C_5C_6R_2R_4R_6s^3 + C_3C_5 + s^2\left(C_2C_3C_4C_5R_2R_4 + C_2C_3C_5C_6R_2R_6 + C_3C_4C_5C_6R_4R_6\right) + s\left(C_2C_3C_5R_2 + C_2C_3C_4C_5C_6R_2R_4 + C_2C_3C_5C_6R_2R_4 + C_2C_3C_5C_6R_4R_5 + C_2C_3C_5C_6R_4
10.1167 X-INVALID-ORDER-1167 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_2R_4R_5R_6s^4 + C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(C_1C_2C_3C_4C_5R_2R_4R_6 + C_1C_2C_3C_5C_6R_2R_4R_6 + C_1C_2C_4C_5C_6R_2R_4R_6 + C_1C_2C_4C_5C_6R_2R_4R_6 + C_1C_2C_4C_5C_6R_2R_4R_6 + C_1C_2C_4C_5C_6R_2R_4R_6 + C_1C_2C_4C_5C_6R_2R_4R_6 + C_1C_2C_4C_5C_6R_2R_4R_6 + C_1C_2C_4C_5C_6R_4R_5R_6 + C_1C_4C_4C_5C_6R_4R_5R_6 + C_1C_4C_5C_6R_4R_5R_6 + C_1C_4C_5C_6R_4R_5R_6 + C_1C_4C_5C_6R_4R_5R_5C_6R_5R_5C_6R_5R_5C_6R_5R_5C_6R_5R_5C_6R_5R_5C_6R_5R_5C_6R_5R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_
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10.1168 X-INVALID-ORDER-1168 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_3C_4C_5R_2R_4R_5R_6s^3 + C_3R_6 + s^2\left(C_2C_3C_4R_2R_4R_6 + C_2C_3C_5R_2R_5R_6 + C_3C_4C_5R_4R_5R_6\right) + s\left(C_2C_3R_2R_6 + C_3C_4R_4R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_4R_2R_4R_5 - C_1C_2C_4R_2R_5 + C_1C_2C_4R_4R_5 - C_1C_4C_5R_4R_5 + C_2C_3C_4R_4R_5 + C_2C_$

10.1169 X-INVALID-ORDER-1169 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

10.1170 X-INVALID-ORDER-1170 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5C_6R_2R_4R_5R_6s^4 + C_3 + s^3\left(C_2C_3C_4C_5R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_6 + C_2C_3C_5C_6R_2R_5R_6 + C_3C_4C_5R_4R_5 + C_2C_3C_5R_2R_5 + C_2C_3C_6R_2R_6 + C_3C_4C_5R_4R_5 + C_3C_4C_5R_4R_5 + C_3C_4C_6R_4R_6 + C_3C_5C_6R_5R_6\right) + s\left(C_2C_3C_4R_2R_4 + C_2C_3C_5R_2R_5 + C_2C_3C_4R_2R_4 + C_2C_3C_5R_2R_5 + C_2C_3C_4R_2R_4 + C_2C_3C_5R_2R_5 + C_2C_3C_4R_2R_4 + C_2C_3C_5R_2R_5 + C_2C_3C_4R_2R_5 + C_2C_3$

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10.1171 X-INVALID-ORDER-1171 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
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10.1172 X-INVALID-ORDER-1172 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3R_2R_4s + C_3R_4}{s^3\left(C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

10.1173 X-INVALID-ORDER-1173 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_6R_2R_4R_6s^2 + C_3R_4 + s\left(C_2C_3R_2R_4 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

10.1174 X-INVALID-ORDER-1174 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3R_2R_4R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_2C_4R_2R_4R_5 - C_1C_2C_6R_2R_4R_6 + C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_4R_5R_6 + C_1C_4C_6R_4R_5R_6 + C_1C_4C_6R_4R_5R_6$

10.1175 X-INVALID-ORDER-1175 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_6R_2R_4R_6 + C_1C_2C_4C_6R_2R_4R_6 - C_1C_2C_5C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3R_2R_4 + C_1C_2C_4R_2R_4 - C_1C_2C_5R_2R_4 + C_1C_2C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_1C_3C_6R_4R_6$

10.1176 X-INVALID-ORDER-1176 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_5R_2R_4R_5 + C_1C_2C_4C_5R_2R_4R_5\right) + s^2\left(C_1C_2C_3R_2R_4 + C_1C_2C_5R_2R_4 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 + C_1C_5R_4 + C_1C_5R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 + C_1C_5R_4 + C_1C_5R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_2R_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_2R_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_3C_5R_4R_5\right) + s\left(C_1C_3C_5R_4R_5\right) + s\left(C_1C_3C_5R_4R_5\right) + s\left(C_1C_3C_5R_5R_5R_5\right) + s\left(C_1C_3C_5R_5R_5R_5\right) + s\left(C_1C_3C_5R_5R_5R_5\right) + s\left(C_1C_3C_5R_5R_5R_5\right) + s\left(C_1C_3C_5R_$

10.1177 X-INVALID-ORDER-1177 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.1178 X-INVALID-ORDER-1178 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_2R_4R_6s^2 + C_3C_5R_4 + s\left(C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_4 + C_1C_2C_4C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C$

10.1179 X-INVALID-ORDER-1179 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 R_2 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_5 R_5 R_6 + C_1 C_2 C_5 C_6 R_5$

10.1180 X-INVALID-ORDER-1180 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $\frac{C_2C_3C_5R_2R_4R_5s^2 + C_3R_4 + s\left(C_2C_3R_2R_4 + C_3C_5R_4R_5\right)}{s^3\left(C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_4R_5 - C_1C_2C_5C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 +$

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10.1181 X-INVALID-ORDER-1181 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                               H(s) = \frac{C_2C_3C_5C_6R_2R_4R_5R_6s^3 + C_3R_4 + s^2\left(C_2C_3C_5R_2R_4R_5 + C_2C_3C_6R_2R_4R_6 + C_3C_5C_6R_4R_5R_6\right) + s\left(C_2C_3R_2R_4 + C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_4R_5 - C_1C_2C_5C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R
10.1182 X-INVALID-ORDER-1182 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_2R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_2C_3R_2R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_4C_6R_2R_4R_5R_6 + C_1C_2C_5R_2R_4R_5 + C_1C_2C_5R_2R_4R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6
10.1183 X-INVALID-ORDER-1183 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
                          H(s) = \frac{C_2C_3R_2R_4s + C_3R_4}{s^3\left(-C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_2R_5 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5 \right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right) + s\left(-C_1C_6R_4R_5 + C_1C_6R_5\right) + s\left(-C_1C_6R_5\right) + s
10.1184 X-INVALID-ORDER-1184 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                          H(s) = \frac{C_2C_3C_6R_2R_4R_6s^2 + C_3R_4 + s\left(C_2C_3R_2R_4 + C_3C_6R_4R_6\right)}{s^3\left(-C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_4R_5 + 
10.1185 X-INVALID-ORDER-1185 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3R_2R_4R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^3\left(-C_1C_2C_3C_6R_2R_3R_4R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3R_2R_3R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_2C_3R_2R_4R_5 + C_1C_2C_3R_2R_5 + C_1C_2C_3R_2R_5 + C_1C_2C_3R_2R_5 + C_1C_2C_3R_2R_5 + 
10.1186 X-INVALID-ORDER-1186 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                          H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{-C_1C_2C_3C_5R_2R_3R_4s^3 + C_1 + s^2\left(C_1C_2C_3R_2R_3 + C_1C_2C_3R_2R_4 + C_1C_2C_3R_3R_4 - C_1C_2C_5R_2R_4 - C_1C_3C_5R_3R_4\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4\right)}
10.1187 X-INVALID-ORDER-1187 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                         H(s) = \frac{C_2C_3C_5R_2R_4s + C_3C_5R_4}{-C_1C_2C_3C_5C_6R_2R_3R_4s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 + C_1C_3C_6R_
10.1188 X-INVALID-ORDER-1188 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                         H(s) = \frac{C_2C_3C_5C_6R_2R_4R_6s^2 + C_3C_5R_4 + s\left(C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{-C_1C_2C_3C_5C_6R_2R_3R_4s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 + C_1C_3C_6R_4 + C_1C_3C_6R_4\right)}
10.1189 X-INVALID-ORDER-1189 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s
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 $H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(-C_1C_2C_3C_5R_2R_3R_4 + C_1C_2C_3C_5R_2R_3R_5 + C_1C_2C_3C_5R_2R_4R_5 + C_1C_2C_3C_5R_3R_4R_5\right) + s^2\left(C_1C_2C_3R_2R_3 + C_1C_2C_3R_2R_4 + C_1C_2C_5R_2R_4 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_4R_5 - C_1C_3C_5R_3R_4 + C_1C_3C_5$

10.1190 X-INVALID-ORDER-1190 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

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10.1191 X-INVALID-ORDER-1191 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_2C_3C_5R_2R_4s + C_3C_5R_4
H(s) = \frac{C_2C_3C_5R_2R_4s + C_3C_5R_4}{C_1C_6 + s^3\left(-C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_5 + C_1C_2C_3C_5C_6R_2R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_4R_5 + C
10.1192 X-INVALID-ORDER-1192 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ R_4, \ R_5 + \frac{1}{C_5 s}, \ R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_2R_4R_6s^2 + C_3C_5R_4 + s\left(C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^3\left(-C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_5 + C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2C_3C_5C_6R_2R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_3C_6R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_3C_6R_4 + C_1C_2C_3C_6R_4 + C_1C_2C_3C_6R_4 + 
10.1193 X-INVALID-ORDER-1193 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1194 X-INVALID-ORDER-1194 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_2C_3C_5R_2R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_2C_3R_2R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1C_2C_3C_5R_2R_3R_4R_5s^3 - C_1R_4 + C_1R_5 + s^2\left(-C_1C_2C_3R_2R_3R_4 + C_1C_2C_3R_2R_3R_5 + C_1C_2C_3R_2R_4R_5 - C_1C_2C_5R_2R_4R_5 - C_1C_2C_3R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 - C_1C_3R_3R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_3R_4R_5 - C_1C_3R_3R_5 - C_1C_3R_3R_
10.1195 X-INVALID-ORDER-1195 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_2R_4R_5s^2 + C_3R_4 + s\left(C_2C_3R_2R_4 + C_3C_5R_4R_5\right)}{-C_1C_2C_3C_5C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_3C_6R_2R_4R_5 - C_1C_2C_5C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3
10.1196 X-INVALID-ORDER-1196 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_2R_4R_5R_6s^3 + C_3R_4 + s^2\left(C_2C_3C_5R_2R_4R_5 + C_2C_3C_6R_2R_4R_6 + C_3C_5C_6R_4R_5R_6\right) + s\left(C_2C_3R_2R_4 + C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{-C_1C_2C_3C_5C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_3C_6R_2R_4R_5 - C_1C_2C_5C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 - C_1C_3C_6R_2R_4R_5\right)}
10.1197 X-INVALID-ORDER-1197 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6s^4 - C_1R_4 + C_1R_5 + s^3\left(-C_1C_2C_3C_5R_2R_3R_4R_5 - C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 - C_1C_2C_5C_6R_2R_4R_5R_6 - C_1C_3C_5C_6R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 - C_1C_2C_5C_6R_2R_4R_5R_6 - C_1C_3C_5C_6R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 - C_1C_2C_5C_6R_2R_4R_5R_6 - C_1C_3C_5C_6R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 - C_1C_2C_5C_6R_2R_4R_5R_6 - C_1C_3C_5C_6R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5 - C_1C_2C_3C_6R_2R_4R_5 - C_1C_2C_3C_6R_3R_4R_5 - C_1C_2C_3C_6R_3R_4R_5 - C_1C_2C_3C_6R_3R_4R_5 - C_1C_2C_3C_6R_3R_4R_5 - C_1C_2C_3C_6R_3R_4R_5
10.1198 X-INVALID-ORDER-1198 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)
                                                                                                                       H(s) = \frac{C_2C_3R_2R_6s + C_3R_6}{C_1C_2C_3C_4R_2R_3R_5s^3 - C_1 + s^2\left(-C_1C_2C_3R_2R_3 + C_1C_2C_3R_2R_5 + C_1C_2C_3R_3R_5 + C_1C_2C_4R_2R_5 + C_1C_3C_4R_3R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 - C_1C_3R_3 + C_1C_3R_5 + C_1C_4R_5 + C_2C_3R_5\right)}
10.1199 X-INVALID-ORDER-1199 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \frac{1}{C_4 s}, \ R_5, \ \frac{1}{C_6 s}\right)
                                                   H(s) = \frac{C_2C_3R_2s + C_3}{C_1C_2C_3C_4C_6R_2R_3R_5s^4 - C_1C_6s + s^3\left(-C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5 + C_1C_2C_4C_6R_2R_5 + C_1C_3C_4C_6R_3R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}
10.1200 X-INVALID-ORDER-1200 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_2C_3C_6R_2R_6s^2 + C_3 + s\left(C_2C_3R_2 + C_3C_6R_6\right)}{C_1C_2C_3C_4C_6R_2R_3R_5s^4 - C_1C_6s + s^3\left(-C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5 + C_1C_3C_4C_6R_3R_5\right) + s^2\left(-C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$

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10.1201 X-INVALID-ORDER-1201 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2 C_3 R_2 R_6 s + C_3 R_6}{C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_5 R_6 s^4 - C_1 + s^3 \left(C_1 C_2 C_3 C_4 R_2 R_3 R_5 - C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_5 R_6 + C_1 C_2 C_4 C_6 R_2 R_5 R_6 + C_1 C_2 C_3 R_2 R_3 + C_1 C_2 C_3 R_2 R_3 + C_1 C_2 C_3 R_2 R_5 + C_1 C_2 C_4 R_2 R_5 - C_1 C_2 C_6 R_2 R_6 + C_1 C_2 C_4 R_2 R_5 + C_1 C_2 C_3 R_2 R_5 + C_1 C_
10.1202 X-INVALID-ORDER-1202 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                        H(s) = \frac{C_2C_3C_5R_2s + C_3C_5}{s^3\left(C_1C_2C_3C_4C_6R_2R_3 - C_1C_2C_3C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_3C_6R_2 + C_1C_2C_3C_6R_3 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2 + C_1C_3C_4C_6R_3 - C_1C_3C_5C_6R_3\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
10.1203 X-INVALID-ORDER-1203 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                       H(s) = \frac{C_2C_3C_5C_6R_2R_6s^2 + C_3C_5 + s\left(C_2C_3C_5R_2 + C_3C_5C_6R_6\right)}{s^3\left(C_1C_2C_3C_4C_6R_2R_3 - C_1C_2C_3C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_3C_6R_2 + C_1C_2C_3C_6R_3 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2 + C_1C_3C_4C_6R_3 - C_1C_3C_5C_6R_3\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
10.1204 X-INVALID-ORDER-1204 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_2R_6s + C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(C_1C_2C_3C_4C_6R_2R_3R_6 - C_1C_2C_3C_5R_2R_3 + C_1C_2C_3C_5R_2R_3 + C_1C_2C_3C_6R_2R_6 + C_1C_3C_4C_6R_2R_6 + C_1C_3C_4C_6R_2R_6 + C_1C_3C_4C_6R_4 + C_1C_3C_5C_6R_4 + C_
10.1205 X-INVALID-ORDER-1205 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_5R_2R_6s + C_3C_5R_6}{C_1C_2C_3C_4C_5R_2R_3R_5s^3 + C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_2R_3 - C_1C_2C_3C_5R_2R_3 + C_1C_2C_3C_5R_2R_5 + C_1C_2C_4C_5R_2R_5 + C_1C_2C_4C_5R_3R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_4R_2 - C_1C_2C_5R_2 + C_1C_2C_5R_5 + C_1C_2C_3C_5R_3R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_4R_2 - C_1C_2C_5R_3 + C_1C_2C_3C_5R_3R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3C_5R_3R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3C_5R_3 + C_1C_2C_3C_5R_3R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3C_5R_3 + C_1C_2C_3C_5R_3R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3C_5R_3 + C_1C_2C_3C_5R_3R_5\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3R_3\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_3R_3\right) + s\left(C_1C_2C_3R_3 + C_1C_2C_3R_3\right) 
10.1206 X-INVALID-ORDER-1206 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_2s + C_3C_5}{C_1C_2C_3C_4C_5C_6R_2R_3R_5s^4 + s^3\left(C_1C_2C_3C_4C_6R_2R_3 - C_1C_2C_3C_5C_6R_2R_3 + C_1C_2C_3C_5C_6R_2R_5 + C_1C_2C_4C_5C_6R_2R_5 + C_1C_2C_4C_5C_6R_2R_5 + C_1C_2C_3C_6R_3R_5\right) + s^2\left(C_1C_2C_3C_6R_3 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2 + C_1C_2C_5C_6R_2 + C_1C_2C_5C_6R_3 + C_1C_2C_3C_6R_3 + C_1C_2C_3C_5C_6R_3 + C_1C_2C_3C_5C_6R
10.1207 X-INVALID-ORDER-1207 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
10.1208 X-INVALID-ORDER-1208 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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10.1209 X-INVALID-ORDER-1209 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_5R_6s^2 + C_3R_6 + s\left(C_2C_3R_2R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_4R_2R_3R_5 - C_1C_2C_3C_5R_2R_3R_5\right) + s^2\left(-C_1C_2C_3R_2R_3 + C_1C_2C_3R_2R_5 + C_1C_2C_4R_2R_5 - C_1C_3C_5R_3R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 - C_1C_3R_3 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}$

10.1210 X-INVALID-ORDER-1210 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_5s^2 + C_3 + s\left(C_2C_3R_2 + C_3C_5R_5\right)}{-C_1C_6s + s^4\left(C_1C_2C_3C_4C_6R_2R_3R_5 - C_1C_2C_3C_5C_6R_2R_3 + C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_5C_6R_2R_5 + C_1C_3C_4C_6R_3R_5 - C_1C_3C_5C_6R_3R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_5 + C_1C_3C_6$

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10.1211 X-INVALID-ORDER-1211 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_2R_5R_6s^3 + C_3 + s^2\left(C_2C_3C_5R_2R_5 + C_2C_3C_6R_2R_6 + C_3C_5C_6R_5R_6\right) + s\left(C_2C_3R_2 + C_3C_5R_5 + C_3C_6R_6\right)}{-C_1C_6s + s^4\left(C_1C_2C_3C_4C_6R_2R_3 + C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_2R_5 + C_1C_3C_4C_6R_3R_5 - C_1C_3C_5C_6R_3R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_3C_6R_
10.1212 X-INVALID-ORDER-1212 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-C_1 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_5 R_6 - C_1 C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_6\right) + s^3 \left(C_1 C_2 C_3 C_4 R_2 R_3 R_5 - C_1 C_2 C_3 C_5 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_5 R_6 + C_1 C_2 C_3 C_6 R_
10.1213 X-INVALID-ORDER-1213 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_2C_3C_4R_2R_4R_6s^2 + C_3R_6 + s\left(C_2C_3R_2R_6 + C_3C_4R_4R_6\right)}{-C_1 + s^3\left(-C_1C_2C_3C_4R_2R_3R_4 + C_1C_2C_3C_4R_2R_3R_5 + C_1C_2C_3R_2R_3 + C_1C_2C_3R_2R_3 + C_1C_2C_3R_2R_5 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_2R_5 + C_1C_3C_4R_3R_4 + C_1C_3C_4R_3R_4 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_4 + C_1C_3C_4R_3R_5 +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_2C_3C_4R_2R_4R_6s^2 + C_3R_6 + s\left(C_2C_3R_2R_6 + C_3C_4R_4R_6\right)
10.1214 X-INVALID-ORDER-1214 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_2C_3C_4R_2R_4s^2 + C_3 + s\left(C_2C_3R_2 + C_3C_4R_4\right)
H(s) = \frac{C_2C_3C_4R_2R_4s^2 + C_3 + s\left(C_2C_3R_2 + C_3C_4R_4\right)}{-C_1C_6s + s^4\left(-C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_3 + C_1C_2C_3C_4C_6R_2R_3 + C_1C_2C_3C_4C_6R_2R_3 + C_1C_2C_3C_4C_6R_2R_4 + C_1C_2C_3C_4C_6R_4 + C_1C_2C_3C_4C_6R_4 + C_1C_2C_3C_4C_6R_4 + C_1C_2C_3C_4C_6R_4 + C_1C_2C_3C_4C_6R_4 + C_1C_2C_3C_4C_6R_4 + C_1C_2C_3C
10.1215 X-INVALID-ORDER-1215 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4C_6R_2R_4R_6s^3 + C_3 + s^2\left(C_2C_3C_4R_2R_4 + C_2C_3C_6R_2R_6 + C_3C_4C_6R_4R_6\right) + s\left(C_2C_3R_2 + C_3C_4R_4 + C_3C_4C_6R_2R_4 + C_3C_4C_6R_4R_4 + C_3C_4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_2C_3C_4C_6R_2R_4R_6s^3 + C_3 + s^2(C_2C_3C_4R_2R_4 + C_2C_3C_6R_2R_6 + C_3C_4C_6R_4R_6) + s(C_2C_3R_2 + C_3C_4R_4 + C_3C_4R_6) + s(C_2C_3R_2 + C_3C_4R_4 + C_3C_4R_6) + s(C_2C_3R_2 + C_3C_4R_4 + C_3C_4R_6) + s(C_2C_3R_4 + C_3C_4R_4 + C_3
10.1216 X-INVALID-ORDER-1216 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-C_1 + s^4 \left(-C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 R_5 R_6 \right) + s^3 \left(-C_1 C_2 C_3 C_4 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 R_5 R_5 + C_1 C_2 C_3 C_4 R_5
10.1217 X-INVALID-ORDER-1217 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_2C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_6 + s(C_2C_3C_5R_2R_6 + C_3C_4C_5R_4R_6)
H(s) = \frac{C_2C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_6 + s\left(C_2C_3C_5R_2R_6 + C_3C_4C_5R_4R_6\right)}{-C_1C_2C_3C_4C_5R_2R_3R_4s^3 + C_1C_2 + C_1C_3 + c_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_2R_4 + C_1C_2C_3C_4R_2R_4 + C_1C_2C_3C_4R_2R_4 - C_1C_3C_4C_5R_2R_4 - C_1C_3C_4C_5R_2R_4 - C_1C_2C_3R_3 + C_1C_2C_3R_3 + C_1C_2C_4R_4 - C_1C_2C_5R_2 + C_1C_2C_3C_4R_3R_4 - C_1C_2C_3
10.1218 X-INVALID-ORDER-1218 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_2C_3C_4C_5R_2R_4s^2 + C_3C_5 + s\left(C_2C_3C_5R_2 + C_3C_4C_5R_4\right)
H(s) = \frac{C_2C_3C_4C_5R_2R_4s^2 + C_3C_5 + s\left(C_2C_3C_5R_2 + C_3C_4C_5R_4\right)}{-C_1C_2C_3C_4C_5C_6R_2R_3R_4s^4 + s^3\left(C_1C_2C_3C_4C_6R_2R_3 + C_1C_2C_3C_4C_6R_3R_4 - C_1C_2C_3C_5C_6R_2R_3 - C_1C_2C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_3C_6R_3 + C_1C_2C_4C_6R_3 + C_1C_2C_4C_6R_4 - C_1C_2C_5C_6R_2 + C_1C_2C_4C_6R_3 + C_1C_2C_4C_6R_4 - C_1C_2C_4C_6R_4 - C_1C_2C_4C_6R_4 - C_1C_2C_4C_6R_4\right)}
10.1219 X-INVALID-ORDER-1219 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4C_5C_6R_2R_4R_6s^3 + C_3C_5 + s^2\left(C_2C_3C_4C_5R_2R_4 + C_2C_3C_5C_6R_2R_6 + C_3C_4C_5C_6R_4R_6\right) + s\left(C_2C_3C_5R_2 + C_3C_4C_5R_4 + C_3C_5C_6R_2R_4 + C_3C_4C_5R_4 +
```

 $H(s) = \frac{-C_1C_2C_3C_4C_5C_6R_2R_3R_4R_6s^4 + C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(-C_1C_2C_3C_4C_5R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_4R_6 + C_1C_2C_3C_4C_6R_2R_4R_6 - C_1C_2C_3C_4C_5R_2R_3R_6 - C_1C_2C_3C_4C_5R_2R_4R_6 - C_1C_2C_3C_4C_5R_2R_4R_6 - C_1C_2C_3C_4C_5R_2R_4R_6 + C_1C_2C_3C_4C_5R_2R_4R_6 - C_1C_2C_3C_4C_5R_4R_6 - C_1C_2C_3C_4C_5R_4R_6$

10.1220 X-INVALID-ORDER-1220 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

```
10.1221 X-INVALID-ORDER-1221 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
```

$$H(s) = \frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(-C_1C_2C_3C_4C_5R_2R_3R_4 + C_1C_2C_3C_4C_5R_2R_3R_5 + C_1C_2C_3C_4C_5R_2R_4R_5 + C_1C_2C_3C_4C_5R_3R_4R_5\right) + s^2\left(C_1C_2C_3C_4R_2R_3 + C_1C_2C_3C_4R_3R_4 - C_1C_2C_3C_4R_3R_4 - C_1C_2C_3C_4R_3R_4 + C_1C_2C_3C_4R_3R_4$$

10.1222 X-INVALID-ORDER-1222
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{1}{s^4 \left(-C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5\right) + s^3 \left(C_1 C_2 C_3 C_4 C_6 R_2 R_4 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 - C_1 C_2 C_3 C_5 C_6 R_2 R_3 + C_1 C_2 C_3 C_5 C_6 R_2 R_5 + C_1 C_2 C_3 C_5 C_6 R_3 R_5 - C_1 C_2 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 + C_1 C_2 C_3 C_5 C_6 R_2 R_5 + C_1 C_2 C_3 C_5 C_6 R_3 R_5 + C_1 C_2 C_3 C_5 C_6 R_5 R_5 + C_1 C_2 C_5 C_6$$

10.1223 X-INVALID-ORDER-1223
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{1}{s^4 \left(-C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5\right) + s^3 \left(C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 + C_1 C_2 C_3 C_5 C_6 R_2 R_3 + C_1 C$$

10.1224 X-INVALID-ORDER-1224
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^4 - C_1C_2C_3C_4C_5C_6R_2R_3R_4R_6 + C_1C_2C_3C_4C_5C_6R_2R_3R_5R_6 + C_1C_2C_3C_4C_5C_6R_2R_4R_5R_6 + C_1C_2C_3C_4C_5C_6R_3R_4R_5R_6 + C_1C_2C_3C_4C_5R_2R_3R_4 + C_1C_2C_3C_4C_5R_2R_3R_5 + C_1C_2C_3C_4C_5R_3R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5R_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5R_5R_5R_5R_5R$$

10.1225 X-INVALID-ORDER-1225
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_2C_3C_4C_5R_2R_4R_5R_6s^3 + C_3R_6 + s^2\left(C_2C_3C_4R_2R_4R_6 + C_2C_3C_5R_2R_5R_6 + s^2\left(C_2C_3C_4R_2R_4R_6 + C_2C_3C_5R_2R_5R_6 + s^2\left(C_2C_3C_4R_2R_4R_6 + C_2C_3C_5R_2R_5R_6 + s^2\left(C_2C_3C_4R_2R_4R_5 + C_1C_2C_3C_4R_2R_4R_5 + C_1C_$$

10.1226 X-INVALID-ORDER-1226
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_3C_4C_5R_2R_3R_4R_5s^5}{-C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5s^5 - C_1C_6s + s^4\left(-C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_3R_5 + C_1C_2C_3C_4C_6R_2R_3R_5 - C_1C_2C_3C_4C_5R_2R_4R_5 - C_1C_2C_3C_4C_5R_2R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_3R_5 + C_1C_2C_3C_4C_6R_2R_4R_5 - C_1C_2C_3C_4C_5R_2R_4R_5 - C_1C_2C_3C_4C_5R_2R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_3R_5 + C_1C_2C_3C_4C_6R_2R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_3R_5 + C_1C_2C_3C_4C_6R_2R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_3R_5 + C_1C_2C_3C_4C_6R_2R_3R_5 - C_1C_2C_3C_4C_5R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_3R_5 + C_1C_2C_3C_4C_6R_2R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_3R_5 + C_1C_2C_3C_4C_6R_2R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_3R_5 - C_1C_2C_3C_4C_6R_2R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_4R_5 - C_1C_2C_3C_4C_6R_2R_4R_5\right) + s^3\left(-C_1C_2C_3C_4C_6R_2R_4R_5\right) +$$

10.1227 X-INVALID-ORDER-1227
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_3C_4C_5C_6R_2R_4R_5R_6s^4 + C_3 + s^3\left(C_2C_3C_4C_5R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_6 + C_2C_3C_5C_6R_2R_5R_6s^4 + C_3 + s^3\left(C_2C_3C_4C_5R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_6 + C_2C_3C_5C_6R_2R_5R_6s^4 + C_3 + s^3\left(C_2C_3C_4C_5R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R$$

10.1228 X-INVALID-ORDER-1228
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

10.1229 X-INVALID-ORDER-1229
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_2C_3R_2R_4R_6s + C_3R_4R_6}{C_1C_2C_3C_4R_2R_3R_4R_5s^3 - C_1R_4 + C_1R_5 + s^2\left(-C_1C_2C_3R_2R_3R_4 + C_1C_2C_3R_2R_3R_5 + C_1C_2C_3R_2R_4R_5 + C_1C_2C_3R_2R_4R_5$$

10.1230 X-INVALID-ORDER-1230
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_3R_2R_4s + C_3R_4}{C_1C_2C_3C_4C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R$$

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10.1231 X-INVALID-ORDER-1231 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s+1}, \ R_5, \ R_6 + \frac{1}{C_6 s}\right)
\frac{C_2 C_3 C_6 R_2 R_4 R_6 s^2 + C_3 R_4 + s \left(C_2 C_3 R_2 R_4 + C_3 C_6 R_4 R_6\right)}{C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 + S_3 \left(-C_1 C_2 C_3 C_6 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_2 R_4 R_5 + C_1 C_3 C_4 C_6 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_2 C_6 R_2 R_4 + C_1 C_2 C_6 R_4 R_5 - C_1 C_3 C_6 R_3 R_4 + C_1 C_3 C_6 R_3 R_4 + C_1 C_3 C_6 R_3 R_4 R_5 + C_1 C_3 C_6 R_3 R_4 R_5\right)}
10.1232 X-INVALID-ORDER-1232 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_2 s}, \ \frac{R_4}{C_4 R_4 s+1}, \ R_5, \ \frac{R_6}{C_6 R_6 s+1}\right)
```

 $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_2R_3R_4R_5R_6s^4 - C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_4R_2R_3R_4R_5 - C_1C_2C_3C_6R_2R_3R_4R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_5R_5 + C_1C_2C_3C_6R_2R_5R_5R_5 + C_1C_2C_3C_6R_5R_5R_5R_5 + C_1C_2C_3C_6R_5R_5R_5R_5 + C_1C_2C_3C_6R_5R_5R_5R_5 + C_1C_2C_3C_6R_5R_5R_5R_5 +$

10.1233 X-INVALID-ORDER-1233 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_4R_2R_3R_4 - C_1C_2C_3C_5R_2R_3R_4\right) + s^2\left(C_1C_2C_3R_2R_3 + C_1C_2C_3R_2R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_4R_2R_4 - C_1C_3C_5R_3R_4\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 + C_1C_5R_4 + C_2C_3R_4\right)}$

10.1234 X-INVALID-ORDER-1234 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_4s + C_3C_5R_4}{C_1C_6 + s^3\left(C_1C_2C_3C_4C_6R_2R_3R_4 - C_1C_2C_3C_5C_6R_2R_3R_4 + S^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_3C_6R_3R_4 + C_1C_3C_4C_6R_3R_4 - C_1C_3C_5C_6R_3R_4 + S^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_4 + C_1C_3C_4C_6R_3R_4 - C_1C_3C_5C_6R_3R_4 + S^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_$

10.1235 X-INVALID-ORDER-1235 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

10.1236 X-INVALID-ORDER-1236 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 + s^4 (C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_6 - C_1 C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_6) + s^3 (C_1 C_2 C_3 C_4 R_2 R_3 R_4 - C_1 C_2 C_3 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_2$

10.1237 X-INVALID-ORDER-1237 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_4R_6s^2 + C_3C_3C_5R_2R_4R_6s^2 + C_3C_3C_5R_2R_4R_5 + C_1C_2C_3C_5R_2R_4R_5 + C_1C_2C_3C_5R_2R_5 + C_1C_2C_3C_5R_2R_5 + C_1C$

10.1238 X-INVALID-ORDER-1238 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5s^4 + C_1C_6 + s^3\left(C_1C_2C_3C_4C_6R_2R_3R_4 - C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_5 + C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2C_3C_5C_5C_6R_2R_4R_5 + C_1C_2C_3C_5C_5C_6R_2R_4R_5 + C_1C_2C_3C_5C_5C_5C_5C_5C_5C_5C_$

10.1239 X-INVALID-ORDER-1239 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3}{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5s^4 + C_1C_6 + s^3\left(C_1C_2C_3C_4C_6R_2R_3R_4 - C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_5 + C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2$

10.1240 X-INVALID-ORDER-1240 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

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10.1241 X-INVALID-ORDER-1241 Z(s) = \left(\frac{1}{C_1s}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_1}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)
\frac{C_2C_3C_3R_2R_4R_3R_6s^2 + C_3R_4R_6 + s(C_2C_3R_2R_4R_6 + C_5C_5R_4R_5R_6)}{C_4R_4R_5R_6s^2 + C_4R_4R_5R_6s^2 + C_4C_2C_3R_2R_3R_6 + C_4C_2C_3R_2R_3R_6 + C_4C_2C_3R_2R_4R_6 + C_4C_2C_3R_2R_4R_4 + C_4C_2C_3R_2R_4R_4 + C_4C_2C_3R_2R_4R_4 + C_4C_2C_3R_2
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10.1245 X-INVALID-ORDER-1245 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3R_2R_3R_4R_6s^2 + R_4R_6 + s\left(C_2R_2R_4R_6 + C_3R_3R_4R_6\right)}{C_1C_2C_3R_2R_3R_4R_5s^3 + s^2\left(-C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$

10.1246 X-INVALID-ORDER-1246 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3R_2R_3R_4s^2 + R_4 + s\left(C_2R_2R_4 + C_3R_3R_4\right)}{C_1C_2C_3C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1247 X-INVALID-ORDER-1247 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_6R_2R_3R_4R_6s^3 + R_4 + s^2\left(C_2C_3R_2R_3R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_2R_4 + C_3R_3R_4 + C_6R_4R_6\right)}{C_1C_2C_3C_6R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1248 X-INVALID-ORDER-1248 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.1249 X-INVALID-ORDER-1249 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_3R_4s^2 + C_5R_4 + s\left(C_2C_5R_2R_4 + C_3C_5R_3R_4\right)}{s^3\left(C_1C_2C_3C_6R_2R_3R_4 - C_1C_2C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$

10.1250 X-INVALID-ORDER-1250 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_2R_3R_4R_6s^3 + C_5R_4 + s^2\left(C_2C_3C_5R_2R_3R_4 + C_2C_5C_6R_2R_4R_6 + C_3C_5C_6R_3R_4R_6\right) + s\left(C_2C_5R_2R_4 + C_3C_5R_3R_4 + C_5C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_3R_4 - C_1C_2C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$

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10.1251 X-INVALID-ORDER-1251 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_3C_6R_2R_3R_4R_6 - C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_6 + C_1C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_2C_3C_5R_2R_3R_4R_6s^2 + C_5R_4R_6 + s(C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6)
10.1252 X-INVALID-ORDER-1252 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1C_2C_3C_5R_2R_3R_4R_5s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_2R_3R_4 + C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_2R_4R_5 + C_1C_2C_5R_3R_4R_5 + C_1C_2C_5R_3R_4 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5 + C_1C_2C_5R_5 + C_1C_2C_5R_5 + C_1C_2C_5R_5 + C_1C_2C_5R_5 + C_1C_2C_5R
10.1253 X-INVALID-ORDER-1253 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_4s^2 + C_5R_4 + s\left(C_2C_5R_2R_4 + C_3C_5R_3R_4\right)}{C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_3R_4R_5 + C_1C_2C_5C_6R_3R_4 + C_1
10.1254 X-INVALID-ORDER-1254 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ R_4, \ R_5 + \frac{1}{C_5 s}, \ R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_2R_3R_4R_6s^3 + C_5R_4 + s^2\left(C_2C_3C_5R_2R_3R_4 + C_2C_5C_6R_2R_4R_6 + C_3C_5C_6R_3R_4R_6\right) + s\left(C_2C_5R_2R_4 + C_3C_5R_3R_4 + C_5C_6R_4R_6\right)}{C_1C_2C_3C_5C_6R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_2C_6R_3R_4 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_3R_4 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_3R_4 + C_1C_2C_6R_3R_4 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_3R_4 + C_1C_2C_6R_3R_4
```

10.1255 X-INVALID-ORDER-1255 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6s^4 + C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_2C_5C_6R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_2C_5C_6R_3R_4R_5 + C_1C_2C_5C_6R_5R_5R_5C_5C_6R_5R_5 + C_1C_2C_5C_6R_5R_5R_5C_5C_5C_6R_5R_5C_5C_5C_5C_5C$

10.1256 X-INVALID-ORDER-1256 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$ $H(s) = \frac{C_2C_3C_5R_2R_3R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_2C_3R_2R_3R_4R_6 + C_2C_5R_2R_4R_5R_6 + C_3C_5R_3R_4R_5R_6\right) + s\left(C_2R_2R_4R_6 + C_3R_3R_4R_6 + C_5R_4R_5R_6\right)}{s^3\left(C_1C_2C_3R_2R_3R_4R_5 - C_1C_2C_5R_2R_3R_4R_5\right) + s^2\left(-C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 - C_1C_5R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$

10.1257 X-INVALID-ORDER-1257 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_2R_3R_4R_5s^3 + R_4 + s^2\left(C_2C_3R_2R_3R_4 + C_2C_5R_2R_4R_5 + C_3C_5R_3R_4R_5\right) + s\left(C_2R_2R_4 + C_3R_3R_4 + C_5R_4R_5\right)}{s^4\left(C_1C_2C_3C_6R_2R_3R_4R_5 - C_1C_2C_5C_6R_2R_3R_4R_5\right) + s^3\left(-C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_1C_5C_6R_3R_4R_5 + C_1C_5C_6R_3R_4R_5 + C_1C_5C_6R_3R_4R_5 + C_1C_5C_6R_3R_4R_5 + C_1C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_1C_5C_6R_3R_4R_5 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_5R_5 + C_1C_5$

10.1258 X-INVALID-ORDER-1258 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_2R_3R_4R_5R_6s^4 + R_4 + s^3\left(C_2C_3C_5R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 + C_2C_5C_6R_2R_4R_5R_6 + C_3C_5C_6R_2R_4R_5 + C_2C_5R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_3C_6R_3R_4R_5 + C_3C_6R_$

10.1259 X-INVALID-ORDER-1259 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_2C_3C_5R_2R_3R_4R_5R_6s^3 + R_4R_6 + s^2(C_2C_3R_2R_3R_4R_6 + C_2C_5R_2R_4R_5R_6 + C_3R_3R_4R_6 + C_3R_3R_4R_5R_6 + C_3R_3R_5R_5 + C_3R_3R_5R_5 + C_3R_5R_5R_5 + C_3R_5R_5 + C_5R_5R_5 + C_5R_5R_5 + C_5R_5R_5 + C_5R_5 + C_5R_5$

 $H(s) = \frac{C_2C_3C_5R_2R_3R_4R_5R_6 - C_1C_2C_5R_2R_3R_4R_5R_6 + C_1C_2C_5R_2R_3R_4R_5 + C_1C_2C_5R_2R$

10.1260 X-INVALID-ORDER-1260 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_2R_3R_6s^2 + R_6 + s\left(C_2R_2R_6 + C_3R_3R_6\right)}{s^3\left(C_1C_2C_3R_2R_3R_5 + C_1C_2C_4R_2R_3R_5\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_2R_5 + C_1C_2R_3R_5 + C_1C_3R_3R_5 + C_1C_4R_3R_5 + C_2C_3R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$$

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10.1262 X-INVALID-ORDER-1262 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                     H(s) = \frac{C_2C_3C_6R_2R_3R_6s^3 + s^2\left(C_2C_3R_2R_3 + C_2C_6R_2R_6 + C_3C_6R_3R_6\right) + s\left(C_2R_2 + C_3R_3 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3R_5\right) + s^3\left(-C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_2C_3C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}
10.1263 X-INVALID-ORDER-1263 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1264 X-INVALID-ORDER-1264 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)
                                                                                                                       H(s) = \frac{C_2C_3C_5R_2R_3s^2 + C_5 + s\left(C_2C_5R_2 + C_3C_5R_3\right)}{s^3\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_4C_6R_2R_3 - C_1C_2C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_2C_3C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}
10.1265 X-INVALID-ORDER-1265 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                      H(s) = \frac{C_2C_3C_5C_6R_2R_3R_6s^3 + C_5 + s^2\left(C_2C_3C_5R_2R_3 + C_2C_5C_6R_2R_6 + C_3C_5C_6R_3R_6\right) + s\left(C_2C_5R_2 + C_3C_5R_3 + C_5C_6R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_4C_6R_2R_3 - C_1C_2C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_2C_3C_6R_3\right) + s\left(C_1C_4C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_3\right) + s\left(C_1C_4C_6R_3 + C_1C_4C_6R_3 + C
10.1266 X-INVALID-ORDER-1266 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_6s^2 + C_5R_6 + s\left(C_2C_5R_2R_6 + C_3C_5R_3R_6\right)}{C_1 + C_2 + s^3\left(C_1C_2C_3C_6R_2R_3R_6 + C_1C_2C_4C_6R_2R_3R_6 - C_1C_2C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_2C_3R_2R_3 + C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3 + C_1C_2C_6R_3R_6 + C_1C_3C_6R_3R_6 + C_1C_4C_6R_3R_6 - C_1C_5C_6R_3R_6 + C_2C_3C_6R_3R_6\right) + s\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3 + C_1C_2C_6R_3R_6 + C_1C_3C_6R_3R_6 + C_1C_4C_6R_3R_6 + C_1C_4C_6R_3R_6 + C_1C_4C_6R_3R_6 + C_1C_4C_6R_3R_6\right)}
10.1267 X-INVALID-ORDER-1267 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_6s^2 + C_5R_6 + s\left(C_2C_5R_2R_6 + C_3C_5R_3R_6\right)}{C_1 + C_2 + s^3\left(C_1C_2C_3C_5R_2R_3R_5 + C_1C_2C_4C_5R_2R_3 + C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_3R_5 + C_1C_4C_5R_3R_5 + C_1C_4C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 + C
10.1268 X-INVALID-ORDER-1268 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_2R_3s^2 + C_5 + s\left(C_2C_5R_2 + C_3C_5R_3\right)}{s^4\left(C_1C_2C_3C_5C_6R_2R_3R_5 + C_1C_2C_4C_5R_2R_3R_5\right) + s^3\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_5C_6R_2R_3 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_2C_5C_6R_2R_3 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_4C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_1C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_6R_5 + C_1C_5C_5C_5C_5C_5C_5C_5C_5C_
10.1269 X-INVALID-ORDER-1269 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
10.1270 X-INVALID-ORDER-1270 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_2C_3R_2R_3s^2 + s\left(C_2R_2 + C_3R_3\right) + 1}{s^4\left(C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3R_5\right) + s^3\left(-C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_2C_3C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$

10.1261 X-INVALID-ORDER-1261 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

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H(s) = \frac{C_2C_3C_5R_2R_3R_5s^3 + s^2\left(C_2C_3R_2R_3 + C_2C_5R_2R_5 + C_3C_5R_3R_5\right) + s\left(C_2R_2 + C_3R_3 + C_5R_5\right) + 1}{s^4\left(C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3R_5 - C_1C_2C_5C_6R_2R_3R_5\right) + s^3\left(-C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1
10.1273 X-INVALID-ORDER-1273 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_{33} + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                  H(s) = \frac{C_2C_3C_5C_6R_2R_3R_5R_6s^4 + s^3\left(C_2C_3C_5R_2R_3R_5 + C_2C_3C_6R_2R_3R_6 + C_2C_5C_6R_2R_5R_6 + C_3C_5C_6R_3R_5R_6\right) + s^2\left(C_2C_3R_2R_3 + C_2C_5R_2R_5 + C_2C_6R_2R_6 + C_3C_5R_3R_5 + C_3C_6R_3R_6 + C_5C_6R_3R_6\right) + s\left(C_2R_2 + C_3R_3 + C_5R_5 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_3C_6R
10.1274 X-INVALID-ORDER-1274 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_5R_6s^3 + R_6 + s^2\left(C_2C_3R_2R_3R_6 + C_2C_5R_2R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_2R_2R_6R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_2R_2R_6R_5R_6 + C_3C_5R_3R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_2R_2R_3R_5R_6 + C_3C_5R_3R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_2R_2R_3R_5R_6 + C_3C_5R_3R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_2R_2R_3R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_2R_2R_3R_5R_6\right) + s\left(C_2R_2R_3R_5
10.1275 X-INVALID-ORDER-1275 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_2C_3C_4R_2R_3R_4R_6s^3 + R_6 + s^2\left(C_2C_3R_2R_3R_6 + C_2C_4R_2R_4R_6 + C_3C_4R_3R_4R_6\right) + s\left(C_2R_2R_6 + C_3R_3R_6 + C_4R_4R_6\right)}{C_1C_2C_3C_4R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_3R_2R_3R_5 - C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_5 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_3R_4R_5\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_2R_3 + C_1C_2R_3R_5 + C_1C_2R_3R
10.1276 X-INVALID-ORDER-1276 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4R_2R_3R_4s^3 + s^2\left(C_2C_3R_2R_3 + C_2C_4R_2R_4 + C_3C_4R_3R_4\right) + s\left(C_2R_2 + C_3R_3 + C_4R_4\right) + 1}{C_1C_2C_3C_4C_6R_2R_3R_4R_5s^5 + s^4\left(C_1C_2C_3C_6R_2R_3R_5 - C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_2C_4C_4R_4R_5 + C_1C_2C_4C_4R_4R_5 + C_1C_2C_4C_4R_4R_5 + C_1C_2C_4C_4R_4R_5 + C_1C_2C_4C_4R_4R_5 + C_1C_2C_4C_4R_4R_5 + C_1C_2C_
10.1277 X-INVALID-ORDER-1277 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_4C_6R_2R_3R_4R_6s^4 + s^3\left(C_2C_3C_4R_2R_3R_4 + C_2C_3C_6R_2R_3R_6 + C_2C_4C_6R_2R_4R_6 + C_3C_4C_6R_2R_4R_6 + C_3C_4R_2R_4 + C_2C_6R_2R_6 + C_3C_4R_3R_4 + C_3C_6R_3R_6 + C_4C_6R_2R_3R_4 + C_3C_4R_3R_4 + C_3C_4R_
10.1278 X-INVALID-ORDER-1278 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1C_2C_3C_4C_6R_2R_3R_4R_5R_6s^5 + s^4\left(C_1C_2C_3C_4R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_5R_6 - C_1C_2C_4C_6R_2R_3R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_3R_4R_5R_6 + C_1C_3C_4C_6R_3R_4R_5R_6 + C_1C_3C_4C_6R_3R_4R_5R_5 + C_1C_3C_4C_6R_3R_4R_5R_5 + C_1C_3C_4C_6R_3R_5R_5 + C_1C_3C_4C_6R_5R_5R_5 + C_1C_3C_4C_6R_5R_5R_5 + C_1C_3C_4C_6R_5R_5R_5 + C_
10.1279 X-INVALID-ORDER-1279 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_4C_5R_2R_3R_4R_6s^3 + C_5R_6 + s^2\left(C_2C_3C_5R_2R_3R_6 + C_2C_4C_5R_2R_4R_6 + C_3C_4C_5R_3R_4R_6\right) + s\left(C_2C_5R_2R_6 + C_3C_5R_3R_6 + C_4C_5R_4R_6\right)}{C_1 + C_2 + s^3\left(C_1C_2C_3C_4R_2R_3R_4 - C_1C_2C_4R_2R_3 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_2R_4 + C_1C_2C_5R_2R_3 + C_1C_3C_4R_3R_4 - C_1C_4C_5R_3R_4 + C_2C_3C_4R_3R_4 + C_2C_3C_3C_4R_3R_4 + C_2C_3C_3C_4R_3R_4 + C_2C_3C_3C_4R_3R_4 + C_2C_3C_3C_3C_4R_3R_4 + C_2C_3C_3C_3C_3C_3C_3
10.1280 X-INVALID-ORDER-1280 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_2C_3C_5R_2R_3R_5R_6s^3 + R_6 + s^2\left(C_2C_3R_2R_3R_6 + C_2C_5R_2R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_2R_2R_6 + C_3R_3R_6 + C_5R_5R_6\right)}{s^3\left(C_1C_2C_3R_2R_3R_5 + C_1C_2C_4R_2R_3R_5 - C_1C_2C_5R_2R_3R_5\right) + s^2\left(-C_1C_2R_2R_3 + C_1C_2R_2R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5 + C_2C_3R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$

10.1271 X-INVALID-ORDER-1271 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

10.1272 X-INVALID-ORDER-1272 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

- **10.1281** X-INVALID-ORDER-1281 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_2C_3C_4C_5C_6R_2R_3R_4R_6s^4 + C_5 + s^3\left(C_2C_3C_4C_5R_2R_3R_4 + C_2C_3C_5C_6R_2R_3R_6 + C_2C_4C_5C_6R_2R_4R_6 + C_3C_4C_5C_6R_3R_4R_6\right) + s^2\left(C_2C_3C_5R_2R_3 + C_2C_4C_5R_2R_4 + C_2C_5C_6R_2R_6 + C_3C_4C_5R_3R_4 + C_3C_5C_6R_3R_4 + C_3C_5C_6R_3R_4 + C_3C_4C_5R_3R_4 + C_3C_5C_6R_3R_4 + C_3C_4C_5R_3R_4 + C_3C_4C_5R_3R_4$
- **10.1282** X-INVALID-ORDER-1282 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{C_1 + C_2 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_6 C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_4 C_6 R_2 R_3 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 + C_1 C_2$
- **10.1283** X-INVALID-ORDER-1283 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{C_2C_3C_4C_5R_2R_3R_4R_6s^3 + C_5R_6 + s^2}{C_1C_2C_3C_4C_5R_2R_3R_4R_5s^4 + C_1 + C_2 + s^3\left(C_1C_2C_3C_4R_2R_3R_4 + C_1C_2C_4C_5R_2R_3R_4 + C_1C_2C_4C_5R_2R_4 + C_1C_2C_4$
- 10.1284 X-INVALID-ORDER-1284 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5s^5 + s^4\left(C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_4C_5C_6R_2R_3R_4 + C_1C_2C_4C_5C_6R_2R_3R_5 + C_1C_2C_4C_5C_6R_2R_3R_4 + C_1C_2C_4C_5C_6R_2R_$
- 10.1285 X-INVALID-ORDER-1285 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_2C_3C_4C_5C_6R_2R_3R_4R_6s^4 + C_5 + s^3\left(C_2C_3C_4C_5R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_4C_5C_6R_2R_3R_5 + C_1C_2C_4C_5C_6R_2R_3R_4 + C_1C_2C_4C_5C_6R_2R_3R_$
- **10.1286** X-INVALID-ORDER-1286 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6s^5 + C_1 + C_2 + s^4(C_1C_2C_3C_4C_5R_2R_3R_4R_5 + C_1C_2C_3C_4C_6R_2R_3R_4R_6 + C_1C_2C_4C_5C_6R_2R_3R_4R_6 + C_1C_2C_4C_5C_6R_2R_4R_5R_4C_5C_6R_2R_4R_5C_6R_2R_4R_5C_6R_2R_4R_5C_6R_2R_4R_5C_6R_2R_4R_5C_6R_5C_6R_5R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5C_6R_5$
- 10.1287 X-INVALID-ORDER-1287 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$
- $H(s) = \frac{C_2C_3C_4C_5R_2R_3R_4R_5R_6s^4 + R_6 + s^3\left(C_2C_3C_4R_2R_3R_4R_6 + C_2C_4C_5R_2R_4R_5R_6 + C_3C_4C_5R_3R_4R_5R_6\right) + s^2\left(C_2C_3R_2R_3R_6 + C_2C_4R_2R_4R_6 + C_2C_5R_2R_5R_6 + C_3C_4R_3R_4R_6\right) + s^2\left(C_2C_3R_2R_3R_6 + C_2C_4R_2R_4R_6 + C_2C_5R_2R_3R_6 + C_2C_4R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_3R_6 + C_2C_4R_2R_4R_6 + C_2C_4R_2R_4R_6 + C_2C_4R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_3R_6 + C_2C_4R_2R_4R_6 + C_2C_5R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_3R_6 + C_2C_4R_2R_4R_6 + C_2C_5R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_3R_4R_6 + C_2C_4R_2R_4R_6 + C_2C_4R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_3R_4R_6 + C_2C_4R_2R_4R_6 + C_2C_4R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_3R_4R_6 + C_2C_4R_2R_4R_6 + C_2C_4R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_3R_4R_6 + C_2C_4R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_4R_4R_6 + C_2C_4R_2R_4R_6\right) + s^2\left(C_2C_3R_2R_4R_4R_6 + C_2C_4R_2R_4R_6\right) + s^2\left(C_2C_4R_2R_4R_4R_6 + C_2C_4R_4R_4R_6\right) + s^2\left(C_2C_4R_3R_4R_6\right) + s^2\left(C_2C$
- **10.1288** X-INVALID-ORDER-1288 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_2C_3C_4C_5R_2R_3R_4R_5s^4 + s^3\left(C_2C_3C_4R_2R_3R_4 + C_2C_3C_5R_2R_3R_5 + C_2C_4C_5R_2R_4R_5 + C_3C_4C_5R_3R_4R_5\right) + s^2\left(C_2C_3R_2R_3 + C_2C_4R_2R_4 + C_2C_3C_5R_2R_3R_5 + C_2C_4C_5R_2R_3R_4 + C_2C_3C_4C_5R_2R_3R_4 + C_2C_4C_5R_2R_3R_4 + C_2C_4C_5R_3R_4R_5 + C_2C_4C$
- 10.1289 X-INVALID-ORDER-1289 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6s^5 + s^4\left(C_2C_3C_4C_5R_2R_3R_4R_5 + C_2C_3C_4C_6R_2R_3R_4R_6 + C_2C_4C_5C_6R_2R_3R_5R_6 + C_2C_4C_5C_6R_2R_4R_5R_6 + C_3C_4C_5C_6R_2R_4R_5R_6 + C_3C_4C_5C_6R_2R_3R_4 + C_2C_3C_5R_2R_3R_5 + C_2C_3C_6R_2R_3R_6 + C_2C_4C_5R_2R_4R_5 + C_2C_4C_6R_2R_4R_5R_6 + C_3C_4C_5C_6R_2R_4R_5R_6 + C_3C_4C_5C_6R_2R_3R_4 + C_2C_3C_5R_2R_3R_5 + C_2C_3C_6R_2R_3R_6 + C_2C_4C_5R_2R_4R_5 + C_2C_4C_6R_2R_4R_5 + C_2C_4C_5R_2R_4R_5 + C_2C_4C_5R_2R_4R_$
- 10.1290 X-INVALID-ORDER-1290 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 C_1 C_2 C_4 C_6 R_2 R_4 R_5 R_6 C_1 C_2 C_4 C_6 R_4 R_4 R_5$

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H(s) = \frac{C_2C_3R_2R_3R_4R_6s^2 + R_4R_6 + s\left(C_2R_2R_4R_6 + C_3R_3R_4R_6\right)}{s^3\left(C_1C_2C_3R_2R_3R_4R_5 + C_1C_2C_4R_2R_3R_4R_5\right) + s^2\left(-C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_4R_3R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}
10.1292 X-INVALID-ORDER-1292 Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3R_2R_3R_4s^2 + R_4 + s\left(C_2R_2R_4 + C_3R_3R_4\right)}{s^4\left(C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R
10.1293 X-INVALID-ORDER-1293 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_6R_2R_3R_4R_6s^3 + R_4 + s^2\left(C_2C_3R_2R_3R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_2R_2R_4 + C_3R_3R_4 + C_6R_4R_6\right)}{s^4\left(C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3
10.1294 X-INVALID-ORDER-1294 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_2C_3R_2R_3R_4R_6s^2 + R_4R_6 + s(C_2R_2R_3R_4R_6s^2 + R_4R_6 + s(C_2R_2R_4R_6s^2 + R_4R_6s^2 + R_5R_6s^2 + R_
                                 10.1295 X-INVALID-ORDER-1295 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                        H(s) = \frac{C_2C_3C_5R_2R_3R_4s^2 + C_5R_4 + s\left(C_2C_5R_2R_4 + C_3C_5R_3R_4\right)}{s^3\left(C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_4 - C_1C_2C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}
10.1296 X-INVALID-ORDER-1296 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                        H(s) = \frac{C_2C_3C_5C_6R_2R_3R_4R_6s^3 + C_5R_4 + s^2\left(C_2C_3C_5R_2R_3R_4 + C_2C_5C_6R_2R_4R_6 + C_3C_5C_6R_3R_4R_6\right) + s\left(C_2C_5R_2R_4 + C_3C_5R_3R_4 + C_5C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_4 + C_1C_5C_6R_3R_4 + 
10.1297 X-INVALID-ORDER-1297 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_3C_6R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_3R_4R_6 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_4R_4 + C_1C_2C_4R_4R_4 + C_1C_2C_4R_4R_4 + C_1C_2C_4R_4R_4 + C_1C_2C_4R_4R_4 + C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_2C_3C_5R_2R_3R_4R_6s^2 + C_5R_4R_6 + s(C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6)
10.1298 X-INVALID-ORDER-1298 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_3C_5R_2R_3R_4R_5 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_3R_4R_5 + C_1C_2C
10.1299 X-INVALID-ORDER-1299 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_2C_3C_5R_2R_3R_4s^2 + C_5R_4 + s(C_2C_5R_2R_4 + C_3C_5R_3R_4)
10.1300 X-INVALID-ORDER-1300 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
```

10.1291 X-INVALID-ORDER-1291 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $\frac{c_2c_3c_5c_6R_2R_3R_4R_6s + c_5R_4 + s + c_2c_3c_5r_2R_3R_4R_6s + c_5R_4 + s + c_2c_3c_5r_2R_3R_4 + c_2c_5c_6R_2R_3R_4R_6 + c_3c_5c_6R_3R_4R_6 + c_3c_5c$

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10.1301 X-INVALID-ORDER-1301 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1R_3 + C_1R_4 + C_2R_4 + s^4\left(C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_5R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_2C_4C_5R_2R_3R_4R_5 + C_1C_2C_4C_6R_2R_3R_4R_5 + C_1C_2C_4C_5C_6R_2R_3R_4R_5 + C_1C_2C_4C_5C_6R_2R_3R_4R_5 + C_1C_2C_4C_5C_6R_2R_3R_4R_5 + C_1C_2C_4C_5C_
10.1302 X-INVALID-ORDER-1302 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_2C_3R_2R_3R_4R_6 + C_2C_5R_2R_4R_5R_6 + C_3C_5R_3R_4R_5 + C_1C_2R_2R_4R_6 + C_3R_3R_4R_6 + C_5R_4R_5R_6\right)}{s^3\left(C_1C_2C_3R_2R_3R_4R_5 + C_1C_2C_4R_2R_3R_4R_5 + C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_4 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_3R_3R_
10.1303 X-INVALID-ORDER-1303 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_4R_5s^3 + R_4 + s^2\left(C_2C_3R_2R_3R_4 + C_2C_5R_2R_4R_5 + C_3C_5R_3R_4R_5\right) + s\left(C_2R_2R_4 + C_3R_3R_4 + C_5R_4R_5\right)}{s^4\left(C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_2C_4C_4R_4 + C_1C_2C_4C_4C_4R_4 + C_1C_2C_4C_4C_4R_4
10.1304 X-INVALID-ORDER-1304 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_2R_3R_4R_5R_6s^4 + R_4 + s^3\left(C_2C_3C_5R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_6 + C_2C_5C_6R_2R_4R_5R_6 + C_3C_5C_6R_3R_4R_5 + C_2C_5R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_3C_6R_3R_4R_5 + C_3C_6R_
10.1305 X-INVALID-ORDER-1305 Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)
H(s) = \frac{C_2C_3C_5R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 - C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_2C_4R_2R_3R_4R_5 - C_1C_2C_5R_2R_3R_4R_5 - C_1C_2C_6R_2R_3R_4R_5 - C_1C_2C_6R_2R_4R_5 - C_1C_2C_6R
10.1306 X-INVALID-ORDER-1306 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                    H(s) = \frac{R_2 R_4}{C_1 C_2 C_6 R_2 R_3 R_4 R_5 s^3 + C_6 R_4 R_5 s + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 + C_2 C_6 R_2 R_4 R_5\right)}
10.1307 X-INVALID-ORDER-1307 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                    H(s) = \frac{C_6 R_2 R_4 R_6 s + R_2 R_4}{C_1 C_2 C_6 R_2 R_3 R_4 R_5 s^3 + C_6 R_4 R_5 s + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 + C_2 C_6 R_2 R_4 R_5\right)}
10.1308 X-INVALID-ORDER-1308 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                          \frac{R_2R_4R_6}{C_1C_2C_6R_2R_3R_4R_5R_6s^3 + R_4R_5 + s^2\left(C_1C_2R_2R_3R_4R_5 - C_1C_6R_2R_3R_4R_6 + C_1C_6R_2R_3R_5R_6 + C_1C_6R_2R_4R_5R_6\right) + s\left(-C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5 + C_2R_2R
10.1309 X-INVALID-ORDER-1309 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                    H(s) = \frac{C_5 R_2 R_4 R_6 s}{R_4 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_6 - C_1 C_5 C_6 R_2 R_3 R_4 R_6\right) + s^2 \left(C_1 C_2 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_4 R_6 + C_1 C_6 R_2 R_4 R_6\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_2 R_2 R_4 + C_6 R_4 R_6\right)}
10.1310 X-INVALID-ORDER-1310 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
```

 $H(s) = \frac{C_5 R_2 R_4 R_6 s}{C_1 C_2 C_5 R_2 R_3 R_4 R_5 s^3 + R_4 + s^2 \left(C_1 C_2 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4 + C_1 C_5 R_2 R_3 R_5 + C_1 C_5 R_2 R_4 R_5 + C_1 C_5 R_2 R_4 R_5 \right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_2 R_2 R_4 + C_5 R_4 R_5 \right)}$

10.1311 X-INVALID-ORDER-1311 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_2 R_4}{C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 s^3 + C_6 R_4 + s^2 \left(C_1 C_2 C_6 R_2 R_3 R_4 - C_1 C_5 C_6 R_2 R_3 R_4 + C_1 C_5 C_6 R_2 R_3 R_5 + C_1 C_5 C_6 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_5 \right) + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_4 + C_1 C_5 C_6 R_2 R_4 R_5 \right) + s \left(C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_4 R_5 + C_1 C_6 R_5 R_5$

10.1312 X-INVALID-ORDER-1312 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_2R_4R_6s + C_5R_2R_4}{C_1C_2C_5C_6R_2R_3R_4R_5s^3 + C_6R_4 + s^2\left(C_1C_2C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_5 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_5R_5 + C_1C_$

10.1313 X-INVALID-ORDER-1313 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.1314 X-INVALID-ORDER-1314 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & R_3, & R_4, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{1}{C_6 s} \end{pmatrix}$

 $H(s) = \frac{C_5 R_2 R_4 R_5 s + R_2 R_4}{C_6 R_4 R_5 s + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_5 - C_1 C_5 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 + C_2 C_6 R_2 R_4 R_5\right)}$

10.1315 X-INVALID-ORDER-1315 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_2R_4R_5R_6s^2 + R_2R_4 + s\left(C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5\right)}$

10.1316 X-INVALID-ORDER-1316 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_2 R_4 R_5 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_5 R_6 - C_1 C_5 C_6 R_2 R_3 R_4 R_5 - C_1 C_5 R_2 R_3 R_4 R_5 - C_1 C_5 R_2 R_3 R_4 R_5 - C_1 C_6 R_2 R_4 R_5 R_6 + C_1 C_6 R_4 R_5 R_6 + C_1 C_6 R_5 R_6 R_6 R_6 R_6 R_6 R_6 R_6 R_6 R_6 R_$

10.1317 X-INVALID-ORDER-1317 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_2}{C_6R_5s + s^3\left(C_1C_2C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5\right)}$

10.1318 X-INVALID-ORDER-1318 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_6 R_2 R_6 s + R_2}{C_6 R_5 s + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_5 + C_1 C_4 C_6 R_2 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 + C_2 C_6 R_2 R_5\right)}$

10.1319 X-INVALID-ORDER-1319 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{R_2 R_6}{R_5 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_6 R_2 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 + C_1 C_4 R_2 R_3 R_5 - C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_2 R_5 R_6\right) + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_2 R_2 R_5 + C_6 R_5 R_6\right)}$

10.1320 X-INVALID-ORDER-1320 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_2 R_6 s}{s^3 \left(C_1 C_2 C_6 R_2 R_3 R_6 + C_1 C_4 C_6 R_2 R_3 R_6 - C_1 C_5 C_6 R_2 R_3 R_6\right) + s^2 \left(C_1 C_2 R_2 R_3 + C_1 C_4 R_2 R_3 - C_1 C_5 R_2 R_3 + C_1 C_6 R_2 R_6 + C_1 C_6 R_3 R_6 + C_2 C_6 R_2 R_6\right) + s \left(C_1 R_2 + C_1 R_3 + C_2 R_2 + C_6 R_6\right) + 1}$

10.1321 X-INVALID-ORDER-1321 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_5 R_2 R_6 s}{s^3 \left(C_1 C_2 C_5 R_2 R_3 R_5 + C_1 C_4 C_5 R_2 R_3 R_5\right) + s^2 \left(C_1 C_2 R_2 R_3 + C_1 C_4 R_2 R_3 - C_1 C_5 R_2 R_3 + C_1 C_5 R_2 R_5 + C_1 C_5 R_3 R_5 + C_2 C_5 R_2 R_5\right) + s \left(C_1 R_2 + C_1 R_3 + C_2 R_2 + C_5 R_5\right) + 1}$$

10.1322 X-INVALID-ORDER-1322 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & R_3, & \frac{1}{C_4 s}, & R_5 + \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}$

$$H(s) = \frac{C_5 R_2}{C_6 + s^3 \left(C_1 C_2 C_5 C_6 R_2 R_3 R_5 + C_1 C_4 C_5 C_6 R_2 R_3 R_5\right) + s^2 \left(C_1 C_2 C_6 R_2 R_3 + C_1 C_4 C_6 R_2 R_3 + C_1 C_5 C_6 R_2 R_5 + C_1 C_5 C_6 R_2 R_5 + C_1 C_5 C_6 R_2 R_5\right) + s \left(C_1 C_6 R_2 + C_1 C_6 R_3 + C_2 C_6 R_2 + C_5 C_6 R_2\right)}$$

10.1323 X-INVALID-ORDER-1323 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_2R_6s + C_5R_2}{C_6 + s^3\left(C_1C_2C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2 + C_5C_6R_2\right)}$$

10.1324 X-INVALID-ORDER-1324 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_2 R_6 s}{s^4 \left(C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_6 R_2 R_3 R_6 + C_1 C_4 C_5 R_2 R_3 R_6 + C_1 C_5 C_6 R_2 R_3 R_$

10.1325 X-INVALID-ORDER-1325 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_2 R_5 s + R_2}{C_6 R_5 s + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_5 + C_1 C_4 C_6 R_2 R_3 R_5 - C_1 C_5 C_6 R_2 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 + C_2 C_6 R_2 R_5\right)}$$

10.1326 X-INVALID-ORDER-1326 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_2R_5R_6s^2 + R_2 + s\left(C_5R_2R_5 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_2C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5\right)}$$

10.1327 X-INVALID-ORDER-1327 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_5 R_2 R_5 R_6 s + R_2 R_6}{R_5 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_6 R_2 R_3 R_5 R_6 - C_1 C_5 C_6 R_2 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 + C_1 C_4 R_2 R_3 R_5 - C_1 C_5 R_2 R_3 R_5 - C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_5 R_5 + C_1 C_6 R_5 R_5 + C_1 C_$$

10.1328 X-INVALID-ORDER-1328 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_4 R_2 R_4 R_6 s + R_2 R_6}{C_1 C_2 C_4 R_2 R_3 R_4 R_5 s^3 + R_5 + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_4 + C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_4 R_5 + C_1 C_4 R_2 R_4 R_5 \right) + s \left(-C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_2 R_2 R_5 + C_4 R_4 R_5 \right)}$$

10.1329 X-INVALID-ORDER-1329 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4 R_2 R_4 s + R_2}{C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 s^4 + C_6 R_5 s + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_5 - C_1 C_4 C_6 R_2 R_3 R_4 + C_1 C_4 C_6 R_2 R_3 R_5 + C_1 C_4 C_6 R_2 R_4 R_5 + C_1 C_4 C_6 R_2 R_4 R_5 \right) + s^2 \left(-C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_2 R_5 + C_4 C_6 R_4 R_5 \right)}$$

10.1330 X-INVALID-ORDER-1330 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4C_6R_2R_4R_6s^2 + R_2 + s\left(C_4R_2R_4 + C_6R_2R_6\right)}{C_1C_2C_4C_6R_2R_3R_4R_5s^4 + C_6R_5s + s^3\left(C_1C_2C_6R_2R_3R_5 - C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5 + C_4C_6R_4R_5\right)}$$

10.1331 X-INVALID-ORDER-1331 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4 K_2 K_4 K_6 s + K_2 K_6}{C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 R_6 s^4 + R_5 + s^3 \left(C_1 C_2 C_4 R_2 R_3 R_4 R_5 + C_1 C_2 C_6 R_2 R_3 R_5 R_6 - C_1 C_4 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_4 C_6 R_2 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_2 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_3 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_2 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_2 R_3 R_5 - C_1 C_4 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_3 R_5 - C_1 C_4 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_3 R_5 - C_1 C_4 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_4 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_4 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_4 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_4 R_5 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_5 R_5 - C_1 C_5 R_5 R_5 \right) + s^2 \left(C_1 C_$

10.1332 X-INVALID-ORDER-1332 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_6s^2 + C_5R_2R_6s}{s^3\left(C_1C_2C_4R_2R_3R_4 - C_1C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_2R_2R_3 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3 + C_2C_4R_2R_4\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2 + C_4R_4\right) + 1}$

10.1333 X-INVALID-ORDER-1333 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_2R_4s + C_5R_2}{C_6 + s^3\left(C_1C_2C_4C_6R_2R_3R_4 - C_1C_4C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_5C_6R_2R_3 + C_2C_4C_6R_2R_4\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2 + C_4C_6R_4\right)}$

10.1334 X-INVALID-ORDER-1334 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_2R_4R_6s^2 + C_5R_2 + s\left(C_4C_5R_2R_4 + C_5C_6R_2R_6\right)}{C_6 + s^3\left(C_1C_2C_4C_6R_2R_3R_4 - C_1C_4C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_2R_3 + C_2C_4C_6R_2R_4\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2 + C_4C_6R_4\right)}$

10.1335 X-INVALID-ORDER-1335 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_6s^2 + C_5R_2R_6s}{s^4\left(C_1C_2C_4C_6R_2R_3R_4R_6 - C_1C_4C_5C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_6 - C_1C_4C_5R_2R_3R_6 + C_1C_4C_6R_2R_3R_6 + C_1C_4C_6R_2R_$

10.1336 X-INVALID-ORDER-1336 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_6s^2 + C_5R_2R_6s}{C_1C_2C_4C_5R_2R_3R_4 + C_1C_2C_5R_2R_3R_5 - C_1C_4C_5R_2R_3R_5 + C_1C_4C_5R_2R_4R_5 + C_1C_4C_5R_2R_4R_5 + C_1C_4C_5R_2R_4R_5 + C_1C_4R_2R_3 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_5R_2R_3 + C_1C_5R_2R_3 + C_1C_5R_2R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5$

10.1337 X-INVALID-ORDER-1337 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_2R_4s + C_5R_2}{C_1C_2C_4C_5C_6R_2R_3R_4R_5s^4 + C_6 + s^3\left(C_1C_2C_4C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_4C_5C_$

10.1338 X-INVALID-ORDER-1338 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_4C_5C_6R_2R_4R_6s^2 + C_5R_2 + s\left(C_4C_5R_2R_4 + C_5C_6R_2R_6\right)$

 $H(s) = \frac{C_4C_5C_6R_2R_4R_6s^2 + C_5R_2 + s\left(C_4C_5R_2R_4 + C_5C_6R_2R_4\right)}{C_1C_2C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5$

10.1339 X-INVALID-ORDER-1339 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 s^5 + s^4 \left(C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_6 - C_1 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_4$

10.1340 X-INVALID-ORDER-1340 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_4C_5R_2R_4R_5R_6s^2 + R_2R_6 + s\left(C_4R_2R_4R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_2C_4R_2R_3R_4R_5 - C_1C_4C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_2R_3R_5 - C_1C_4R_2R_3R_4 + C_1C_4R_2R_4R_5 + C_1C_4R_2R_4R_5 + C_1C_4R_2R_4R_5\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_2R_2R_5 + C_4R_4R_5\right)}$

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10.1341 X-INVALID-ORDER-1341 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_4C_5R_2R_4R_5s^2 + R_2 + s\left(C_4R_2R_4 + C_5R_2R_5\right)}{C_6R_5s + s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_5 + C_1C_4
10.1342 X-INVALID-ORDER-1342 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_4C_5C_6R_2R_4R_5R_6s^3 + R_2 + s^2\left(C_4C_5R_2R_4R_5 + C_4C_6R_2R_4R_6 + C_5C_6R_2R_5R_6\right) + s\left(C_4R_2R_4 + C_5R_2R_5 + C_6R_2R_6\right)}{C_6R_5s + s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_4C_5C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_2C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_5 + C_1C
10.1343 X-INVALID-ORDER-1343 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_4C_5R_2R_4R_5R_6s^2}{R_5 + s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5R_6 - C_1C_4C_5C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 - C_1C_4C_6R_2R_4R_5 - C_1C_4C_6R_2R_4R_5 - C_1C_4C_6R_2R_4R_5 - C_1C_4C_6R_2R_4R_5 - C_1C_4C_6R_2R_4R_5 - C_1C_4C_6R_4R_4R_5 - C_1C_4C_6R_4R_5 - C_1C_4C_6
10.1344 X-INVALID-ORDER-1344 Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & R_3, & \frac{R_4}{C_4 R_4 s + 1}, & R_5, & \frac{1}{C_6 s} \end{pmatrix}
                                                                                                                                                                                                                                              H(s) = \frac{R_2 R_4}{C_6 R_4 R_5 s + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 + C_2 C_6 R_2 R_4 R_5\right)}
10.1345 X-INVALID-ORDER-1345 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                              H(s) = \frac{C_6R_2R_4R_6s + R_2R_4}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5\right)}
10.1346 X-INVALID-ORDER-1346 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{R_2 R_4 R_6}{R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 R_2 R_3 R_4 R_5 + C_1 C_4 R_2 R_3 R_4 R_5 + C_1 C_6 R_2 R_3 R_4 R_5 + C_1 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 R_6 
10.1347 X-INVALID-ORDER-1347 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_5 R_2 R_4 R_6 s}{R_4 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_6 + C_1 C_4 C_6 R_2 R_3 R_4 R_6 - C_1 C_5 C_6 R_2 R_3 R_4 + C_1 C_4 R_2 R_3 R_4 + C_1 C_5 R_2 R_3 R_4 + C_1 C_6 R_2 R_4 R_6 + C_1 
10.1348 X-INVALID-ORDER-1348 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                               H(s) = \frac{C_5 R_2 R_4 R_6 s}{R_4 + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5\right) + s^2 \left(C_1 C_2 R_2 R_3 R_4 + C_1 C_4 R_2 R_3 R_4 - C_1 C_5 R_2 R_3 R_4 + C_1 C_5 R_2 R_3 R_5 + C_1 C_5 R_2 R_4 R_5 + C_2 C_5 R_2 R_4 R_5\right) + s \left(C_1 R_2 R_3 + C_1 R_2 R_4 + C_1 R_3 R_4 + C_2 R_2 R_4 + C_5 R_4 R_5\right)}
10.1349 X-INVALID-ORDER-1349 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_5 R_2 R_4}{C_6 R_4 + s^3 \left(C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 \right) + s^2 \left(C_1 C_2 C_6 R_2 R_3 R_4 + C_1 C_5 C_6 R_2 R_3 R_4 + C_1 C
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 $H(s) = \frac{C_5C_6R_2R_4R_6s + C_5R_2R_4}{C_6R_4 + s^3\left(C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_4 + C_$

10.1350 X-INVALID-ORDER-1350 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

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10.1351 X-INVALID-ORDER-1351 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{1}{R_4 + s^4 \left(C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_5 C_6 R_2 R_3 R_4 R_6$

10.1352 X-INVALID-ORDER-1352 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5 R_2 R_4 R_5 s + R_2 R_4}{C_6 R_4 R_5 s + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_2 R_3 R_4 R_5 - C_1 C_5 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_2 R_4 R_5\right)}$$

10.1353 X-INVALID-ORDER-1353 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_5C_6R_2R_4R_5R_6s^2 + R_2R_4 + s\left(C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5\right)}$$

10.1354 X-INVALID-ORDER-1354 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, R_3, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

$$C_5R_2R_4R_5R_6s + R_2R_4R_6$$

 $H(s) = \frac{C_5 R_2 R_4 R_5 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 R_2 R_3 R_4 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1$

10.1355 X-INVALID-ORDER-1355 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{-C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(C_1 C_2 R_2 R_4 R_5 + C_1 C_3 R_2 R_4 R_5 + C_2 C_3 R_2 R_4 R_5\right)}$$

10.1356 X-INVALID-ORDER-1356 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_2 R_4}{s^2 \left(C_1 C_2 C_6 R_2 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 + C_2 C_3 C_6 R_2 R_4 R_5 \right) + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_3 C_6 R_4 R_5 \right)}$$

10.1357 X-INVALID-ORDER-1357 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_2R_4R_6s + C_3R_2R_4}{s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1358 X-INVALID-ORDER-1358 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s\left(C_1C_2R_2R_4 + C_1C_3R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4\right)}$$

10.1359 X-INVALID-ORDER-1359 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & R_4, & \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}$

$$H(s) = \frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}{C_3C_5R_2R_4 + C_3C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}$$

10.1360 X-INVALID-ORDER-1360 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}$$

10.1361 X-INVALID-ORDER-1361
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{ \frac{ \text{C}_3 \text{C}_5 R_2 R_4 R_6 s}{ \text{C}_1 R_2 + C_1 R_4 + C_3 R_4 + s^3 \left(C_1 C_2 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_3 C_5 R_2 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_3 C_5 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_3 C_5 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_3 C_5 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_2 R_4 R_5 + C_1 C_5 C_6 R_2 R_4 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_5 R_5 R_6 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_5 R_5 R_5 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_5 R_5 \right) + s^2 \left(C_1 C_2 C_5 R_5 R_5 R_5 \right) + s^2 \left(C_1 C$

10.1362 X-INVALID-ORDER-1362 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_2R_2R_4R_5 + C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5 + C_2C_3R_2R_4R_5\right)}$$

10.1363 X-INVALID-ORDER-1363 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & R_4, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{1}{C_6 s} \end{pmatrix}$

$$H(s) = \frac{C_3C_5R_2R_4R_5s + C_3R_2R_4}{s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1364 X-INVALID-ORDER-1364 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_4R_5R_6s^2 + C_3R_2R_4 + s\left(C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1365 X-INVALID-ORDER-1365 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_2 R_6}{-C_1 R_2 + C_1 R_5 + C_3 R_5 + s \left(C_1 C_2 R_2 R_5 + C_1 C_3 R_2 R_5 + C_1 C_4 R_2 R_5 + C_2 C_3 R_2 R_5\right)}$$

10.1366 X-INVALID-ORDER-1366 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3 R_2}{s^2 \left(C_1 C_2 C_6 R_2 R_5 + C_1 C_3 C_6 R_2 R_5 + C_1 C_4 C_6 R_2 R_5 + C_2 C_3 C_6 R_2 R_5 \right) + s \left(-C_1 C_6 R_2 + C_1 C_6 R_5 + C_3 C_6 R_5 \right)}$$

10.1367 X-INVALID-ORDER-1367 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_2R_6s + C_3R_2}{s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$$

10.1368 X-INVALID-ORDER-1368 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3 C_5 R_2 R_6 s}{C_1 + C_3 + s \left(C_1 C_2 R_2 + C_1 C_3 R_2 + C_1 C_4 R_2 - C_1 C_5 R_2 + C_2 C_3 R_2\right)}$$

10.1369 X-INVALID-ORDER-1369 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2}{C_1C_6 + C_3C_6 + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2\right)}$$

10.1370 X-INVALID-ORDER-1370 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_6s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2\right)}$$

10.1371 X-INVALID-ORDER-1371 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_2C_5C_6R_2R_5R_6 + C_1C_3C_5C_6R_2R_5R_6 + C_2C_3C_5C_6R_2R_5R_6 + C_1C_2C_5R_2R_5 + C_1C_2C_6R_2R_6 + C_1C_3C_5R_2R_5 + C_1C_4C_6R_2R_6 + C_1C_5C_6R_2R_6 + C_1C_5C_6R_2R_5R_6 + C_1C_5C_6R_5R_5R_6 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 +$

10.1372 X-INVALID-ORDER-1372 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & \frac{1}{C_4 s}, & \frac{R_5}{C_5 R_5 s + 1}, & R_6 \end{pmatrix}$

 $H(s) = \frac{C_3C_5R_2R_5R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s\left(C_1C_2R_2R_5 + C_1C_3R_2R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5 + C_2C_3R_2R_5\right)}$

10.1373 X-INVALID-ORDER-1373 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_5s + C_3R_2}{s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.1374 X-INVALID-ORDER-1374 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_5R_6s^2 + C_3R_2 + s\left(C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.1375 X-INVALID-ORDER-1375 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4R_2R_4s + C_3R_2}{s^3\left(C_1C_2C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_5 + s^2\left(C_1C_2C_6R_2R_5 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_3C_4C_6R_2R_5 + C_3C_4C_6R_4R_5 \right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.1376 X-INVALID-ORDER-1376 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_6R_2R_4R_6s^2 + C_3R_2 + s\left(C_3C_4R_2R_4 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_2C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C$

10.1377 X-INVALID-ORDER-1377 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4R_2R_4R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_2C_4C_6R_2R_4R_5R_6 + C_1C_3C_4C_6R_2R_4R_5R_6 + C_1C_3C_4R_2R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_5 + C_1C_3C$

10.1378 X-INVALID-ORDER-1378 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_2C_4C_6R_2R_4R_6 + C_1C_3C_4R_2R_4 + C_1C_2C_6R_2R_6 + C_1C_3C_4R_2R_4 + C_1C_3C_6R_2R_6 + C_1C_4C_5R_2R_6 + C_1C_4C_6R_2R_6 + C_1C_4C_6R_4R_6 + C_1C_4C_6R_$

10.1379 X-INVALID-ORDER-1379 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_2C_4C_5R_2R_4R_5 + C_1C_3C_4C_5R_2R_4R_5 + C_2C_3C_4C_5R_2R_4 + C_1C_2C_5R_2R_5 + C_1C_3C_4R_2R_4 + C_1C_3C_5R_2R_5 + C_1C_4C_5R_2R_5 + C_1C_4C_5R_4R_5 + C_$

10.1380 X-INVALID-ORDER-1380 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & R_4 + \frac{1}{C_4 s}, & R_5 + \frac{1}{C_5 s}, & \frac{1}{C_6 s} \end{pmatrix}$

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10.1381 X-INVALID-ORDER-1381 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3C_4C_5C_6R_2R_4R_6s^2 + C_3C_5R_2 + s\left(C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_4 + C_3C_5C_6R_2R$

10.1382 X-INVALID-ORDER-1382 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 + C_3 + s^4 \left(C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_2 C_4 C_6 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 + C_1 C_3 C_4 C_5 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 + C_1 C_3 C_4 C_5 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_2 C_4 C_5 R_4 R_5 R_5 \right) + s^3 \left(C_1 C_4 C_5 R_5 R_5 R_5 \right) + s^3 \left(C_1 C_4 C_5 R_5 R_5 R_5 \right) + s^3 \left(C_1 C_4 C_5 R_5 R_5 R_5 \right) + s^3 \left(C_1 C_4 C_5 R_5 R_5 R_5 \right) + s^3 \left(C_1 C_5 R_5 R_5 R_5 \right) + s^3 \left(C_1 C_5 R_5 R_5 R_5$

10.1383 X-INVALID-ORDER-1383 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & R_4 + \frac{1}{C_4 s}, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{1}{C_6 s} \end{pmatrix}$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_5s^2 + C_3R_2 + s\left(C_3C_4R_2R_4 + C_3C_5R_2R_5\right)}{s^3\left(C_1C_2C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_4C_5R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_1C_4C$

10.1384 X-INVALID-ORDER-1384 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_2R_4R_5R_6s^3 + C_3R_2 + s^2\left(C_3C_4C_5R_2R_4R_5 + C_3C_4C_6R_2R_4R_6 + C_3C_5C_6R_2R_5R_6\right) + s\left(C_3C_4R_2R_4 + C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_2C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_4C_6R_2R_5 + C_2C_3C_4C_5R_5 + C_2C_3C_4C_5R_5 + C_2C_3C_4C_5R_5 + C_2C_3C_4C_5R_5 + C_2C_3C_4C_5R_5 + C_2C_3C_4C_5R_5 + C_2C_3C_5C_5R_5 + C_2C_3C_5C_5R_5 + C_2C_3C_5C_5R_5 + C_2C_3C_5C_5C_5R_5 + C_2C_3$

10.1385 X-INVALID-ORDER-1385 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_5R_6s^2 + C_3R_2R_6s^2 + C_3R_2R_6s^2$

10.1386 X-INVALID-ORDER-1386 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{C_3 R_2 R_4 R_6}{-C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s (C_1 C_2 R_2 R_4 R_5 + C_1 C_3 R_2 R_4 R_5 + C_1 C_4 R_2 R_4 R_5 + C_2 C_3 R_2 R_4 R_5)}$$

10.1387 X-INVALID-ORDER-1387 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{1}{C_3 s}, & \frac{R_4}{C_4 R_4 s + 1}, & R_5, & \frac{1}{C_6 s} \end{pmatrix}$

$$H(s) = \frac{C_3 R_2 R_4}{s^2 \left(C_1 C_2 C_6 R_2 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 + C_1 C_4 C_6 R_2 R_4 R_5 + C_2 C_3 C_6 R_2 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_3 C_6 R_4 R_5\right)}$$

10.1388 X-INVALID-ORDER-1388 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_6R_2R_4R_6s + C_3R_2R_4}{s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1389 X-INVALID-ORDER-1389 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s\left(C_1C_2R_2R_4 + C_1C_3R_2R_4 + C_1C_4R_2R_4 - C_1C_5R_2R_4 + C_2C_3R_2R_4\right)}$$

10.1390 X-INVALID-ORDER-1390 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}$$

10.1391 X-INVALID-ORDER-1391 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}$

10.1392 X-INVALID-ORDER-1392 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s+1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(C_1C_2C_5C_6R_2R_4R_5R_6 + C_1C_3C_5C_6R_2R_4R_5R_6 + C_2C_3C_5C_6R_2R_4R_5R_6 + C_1C_2C_5R_2R_4R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_3R_4R_5 + C_1C_3C_5R_3R_5R_5 + C_1C_3C_5R_3R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5$

10.1393 X-INVALID-ORDER-1393 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_2R_2R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_4R_5 + C_2C_3R_2R_4R_5\right)}$

10.1394 X-INVALID-ORDER-1394 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5s + C_3R_2R_4}{s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$

10.1395 X-INVALID-ORDER-1395 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_4R_5R_6s^2 + C_3R_2R_4 + s\left(C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$

10.1396 X-INVALID-ORDER-1396 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_2 R_4}{C_1 C_2 C_3 C_6 R_2 R_3 R_4 R_5 s^3 + s^2 \left(C_1 C_2 C_6 R_2 R_4 R_5 - C_1 C_3 C_6 R_2 R_3 R_4 + C_1 C_3 C_6 R_2 R_3 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 \right) + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_3 C_6 R_4 R_5 \right)}$

10.1397 X-INVALID-ORDER-1397 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_2R_4R_6s + C_3R_2R_4}{C_1C_2C_3C_6R_2R_3R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_$

10.1398 X-INVALID-ORDER-1398 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_2 R_4 R_6}{C_1 C_2 C_3 C_6 R_2 R_3 R_4 R_5 R_6 s^3 - C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + c_3 R_4 R_5 + s^2 \left(C_1 C_2 C_3 R_2 R_3 R_4 R_5 + C_1 C_2 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_6 R_2 R_4 R_5$

10.1399 X-INVALID-ORDER-1399 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(C_1C_2C_3C_6R_2R_3R_4R_6 - C_1C_3C_5R_2R_3R_4 + C_1C_2C_6R_2R_4R_6 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_6 + C_1C_$

10.1400 X-INVALID-ORDER-1400 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1C_2C_3C_5R_2R_3R_4R_5s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_3R_2R_3R_4 + C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_2R_5R_5 + C_1C_3C_5R_2R_5R_5 + C_1C_3C_5R_2R_5R_5 + C_1C_3C_5R_2R_5R_5 + C_$

10.1401 X-INVALID-ORDER-1401 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_4}{C_1C_2C_3C_5C_6R_2R_3R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_3R_4 + C_1$

10.1402 X-INVALID-ORDER-1402 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_4R_6s + C_3C_5R_2R_4}{C_1C_2C_3C_5C_6R_2R_3R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_3R$

10.1403 X-INVALID-ORDER-1403 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6s^4 + C_1C_3C_5C_6R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_6 + C_1C_3C_5C_6R_2R_3R_4R_6 + C_1C_3C_5C_6R_3R_4R_5R_6 + C_1C_3C_5C_6R_3R_4R_5R_6 + C_1C_3C_5C_6R_3R_4R_5R_6 + C_1C_3C_5C_6R_3R_4R_5R_5 + C_1C_3C_5C_6R_3R_4R_5R_5 + C_1C_3C_5C_6R_3R_4R_5 + C_1C$

10.1404 X-INVALID-ORDER-1404 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5s + C_3R_2R_4}{s^3\left(C_1C_2C_3C_6R_2R_3R_4R_5 - C_1C_3C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$

10.1405 X-INVALID-ORDER-1405 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_4R_5R_6s^2 + C_3R_2R_4 + s\left(C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_3R_4R_5 - C_1C_3C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$

10.1406 X-INVALID-ORDER-1406 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5R_6s + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5$

10.1407 X-INVALID-ORDER-1407 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_2}{s^3 \left(C_1 C_2 C_3 C_6 R_2 R_3 R_5 + C_1 C_3 C_4 C_6 R_2 R_3 R_5\right) + s^2 \left(C_1 C_2 C_6 R_2 R_5 - C_1 C_3 C_6 R_2 R_3 + C_1 C_3 C_6 R_2 R_5 + C_1 C_3 C_6 R_2 R_5 + C_1 C_4 C_6 R_2 R_5 + C_2 C_3 C_6 R_2 R_5\right) + s \left(-C_1 C_6 R_2 + C_1 C_6 R_5 + C_3 C_6 R_5\right)}$

10.1408 X-INVALID-ORDER-1408 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_2R_6s + C_3R_2}{s^3\left(C_1C_2C_3C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_5\right) + s^2\left(C_1C_2C_6R_2R_5 - C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.1409 X-INVALID-ORDER-1409 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_2 R_6}{-C_1 R_2 + C_1 R_5 + C_3 R_5 + s^3 \left(C_1 C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 R_2 R_3 R_5 + C_1 C_2 C_6 R_2 R_3 R_5 + C_1 C_2 C_6 R_2 R_3 R_5 + C_1 C_3 C_6 R_2 R_3 R_6 + C_1 C_3 C_6 R_2 R_3 R_5 + C_1 C_3 C_6 R_2 R_5 R_6 + C_1 C_3 C_6 R_5 R_5 R_6 + C_1 C_3 C_6 R_5 R_5 R_6 + C_1 C_3 C_6 R_5 R_5 R_6 + C_1 C_5 R$

10.1410 X-INVALID-ORDER-1410 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_2C_3C_6R_2R_3R_6 + C_1C_3C_4C_6R_2R_3R_6 - C_1C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_2C_3R_2R_3 + C_1C_3C_6R_2R_6 + C_1C_3C_6R_2R_6$

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10.1411 X-INVALID-ORDER-1411 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_2C_3C_5R_2R_3R_5 + C_1C_3C_4C_5R_2R_3R_5\right) + s^2\left(C_1C_2C_3R_2R_3 + C_1C_2C_5R_2R_5 + C_1C_3C_5R_2R_3 + C_1C_3C_5R_2R_5 + C_1C_3C_5R_5R_5 + C_1C
10.1412 X-INVALID-ORDER-1412 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5R_2}{C_1C_6 + C_3C_6 + s^3\left(C_1C_2C_3C_5C_6R_2R_3R_5 + C_1C_3C_4C_5C_6R_2R_3 + C_1C_2C_5C_6R_2R_3 + C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_5C_6R_2R_5 + C_1C_5C_5C_5C_6R_2R_5 + C_1C_5C_5C_5C_6R_2R_5 + C_1C_5C_5C_5C_5C_5C_5C_5C_5C_5
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10.1413 X-INVALID-ORDER-1413 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

10.1414 X-INVALID-ORDER-1414 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 + C_3 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_2 C_3 C_5 R_2 R_3 R_6 + C_1 C_3 C_4 C_5 R_2 R_3 R_6 + C_1 C_3 C_5 C_6 R_2 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_5 R_6 + C_1 C_5 C_6 R_5 R_5 R_6 + C_1 C_5 C_6 R_5 R_5 R_6 +$

10.1415 X-INVALID-ORDER-1415 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_5s + C_3R_2}{s^3\left(C_1C_2C_3C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_5 - C_1C_3C_5C_6R_2R_3R_5 + s^2\left(C_1C_2C_6R_2R_5 - C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5 + C_2C_3C_6R_2R_5 + s^2\left(C_1C_2C_6R_2R_5 - C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_5 + C$

10.1416 X-INVALID-ORDER-1416 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_5R_6s^2 + C_3R_2 + s\left(C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_5 - C_1C_3C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_2C_6R_2R_5 - C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.1417 X-INVALID-ORDER-1417 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $C_3C_5R_2R_5R_6s + C_3R_2R_6$ $H(s) = \frac{C_3 C_5 R_2 R_3 R_5 + C_3 R_5 + C_3 R_5 R_6 + C_1 C_3 C_6 R_2 R_3 R_5 R_6 + C_1 C_3 C_6 R_2 R_5 R_6 + C_1 C_3 C_6 R_5 R_5 R_6 + C_1 C_5 C_6$

10.1418 X-INVALID-ORDER-1418 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3C_4R_2R_4R_6s + C_3R_2R_6}{C_1C_2C_3C_4R_2R_3R_4R_5s^3 - C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_3R_2R_3R_5 + C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_4R_2R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_$

10.1419 X-INVALID-ORDER-1419 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_4 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

10.1420 X-INVALID-ORDER-1420 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_4C_6R_2R_4R_6s^2 + C_3R_2 + s\left(C_3C_4R_2R_4 + C_3C_6R_2R_6\right)$ $\frac{\cup_{3}\cup_{4}\cup_{6}n_{2}n_{4}n_{6}s^{-}+\cup_{3}n_{2}+s\,(\cup_{3}\cup_{4}n_{2}n_{4}+\cup_{3}\cup_{6}n_{2}n_{6})}{C_{1}C_{2}C_{3}C_{4}C_{6}R_{2}R_{3}R_{4}+S^{3}\left(C_{1}C_{2}C_{3}C_{6}R_{2}R_{3}R_{5}+C_{1}C_{2}C_{4}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{3}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{3}+C_{1}C_{3}C_{6}R_{2}$

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10.1421 X-INVALID-ORDER-1421 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_2R_3R_4R_5R_6s^4 - C_1R_2 + C_1R_5 + C_3R_5 + s^3(C_1C_2C_3C_4R_2R_3R_4R_5 + C_1C_2C_4C_6R_2R_4R_5R_6 - C_1C_3C_4C_6R_2R_3R_4R_6 + C_1C_3C_4C_6R_2R_3R_5R_6 + C_1C_3C_4C_6R_2R_4R_5R_6 + C_1C_3C_4C_6R_4R_5R_5R_6 + C_1C_3C_4C_6R_4R_5R_5R_6 + C_1C_3C_4C_6R_5R_5R_5R_5 + C_1C_3C_4C_6R_5R_5R_5R_5 + C_1C_3C_4C_6R_5R_5R_5R_5 + C_1C_3C_4C_6R_5R_5R_5R_5 + C_1C_3C_4C_5R_5R_5R_5R_5 + C_1C_3C_4C_5R_5R_5R_5 + C_1C_3C_4C_5R_5R_5R_5 + C_1C_3C_4C_5R_5R_5R_5 + C_1$

10.1422 X-INVALID-ORDER-1422
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_2C_3C_4R_2R_3R_4 - C_1C_3C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_2C_3R_2R_3 + C_1C_2C_4R_2R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_4R_4 + C_1C_3C_4R_4 + C_1C$

10.1423 X-INVALID-ORDER-1423
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_4C_5R_2R_4s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^3\left(C_1C_2C_3C_4C_6R_2R_3R_4 - C_1C_3C_4C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_4C_6R_2R_4 + C_1C_3C_4C_6R_2R_4 + C_1C_3C_4C_4C_4R_4 + C_1C_3C_4C$

10.1424 X-INVALID-ORDER-1424
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

10.1425 X-INVALID-ORDER-1425
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{1}{C_1 + C_3 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_6 - C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 R_2 R_3 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_6 + C_1 C_3 C_4 C_6 R_2 R$

10.1426 X-INVALID-ORDER-1426
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_5R_2R_3R_4R_5s^4 + C_1 + C_3 + s^3\left(C_1C_2C_3C_4R_2R_3R_4 + C_1C_2C_3C_5R_2R_3R_5 + C_1C_3C_4C_5R_2R_3R_5 + C_1C_3C_4C_5R_2R_3R_5 + C_1C_3C_4C_5R_2R_3R_5 + C_1C_3C_4C_5R_2R_3R_5 + C_1C_3C_4C_5R_2R_3R_4 + C_1C_3C_4C_5R_3R_4 + C_1C_$

10.1427 X-INVALID-ORDER-1427
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5s^4 + C_1C_6 + C_3C_6 + s^3\left(C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_4C_5C_6R_2R_3R_4 + C_1C_3C_4C_5C_6R_2R_3R_5 + C_1C_3C_4C_5C_6R_2R_3R_4 + C_1C_3C_4C_5C_6R_2R_3R_5 + C_1C_3C_4C_5C_6R_3R_5 + C_1C_3C_5C_5C_6R_5R_5 + C_1C_3C_5C_5C_6R_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_$

10.1428 X-INVALID-ORDER-1428
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5s^4 + C_1C_6 + C_3C_6 + s^3(C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_4C_5C_6R_2R_4R_5 - C_1C_3C_4C_5C_6R_2R_3R_4 + C_1C_3C_4C_5C_6R_2R_3R_5 + C_1C_3C_4C_5C_6R_2R_3R_5 + C_1C_3C_4C_5C_6R_2R_4R_5 + C_1C_3C_4C_5C_6R_4C_4C_5C_6R_4C_4C_5C_6R_5C_6R_5C_6R_5C_5C_6R_5C_6R_5C_5C_6R_5C_6R_5C_5C_6C_5C_5C_5C_5C_5C_5C_5$

10.1429 X-INVALID-ORDER-1429
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

10.1430 X-INVALID-ORDER-1430
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

 $C_{3}C_{4}C_{5}R_{2}R_{4}R_{5}R_{6}s^{2} + C_{3}R_{2}R_{6} + s\left(C_{3}C_{4}R_{2}R_{4}R_{6} + C_{3}C_{5}R_{2}R_{5}R_{6}\right)$

 $-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_2C_3C_4R_2R_3R_4R_5 - C_1C_3C_4C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2C_3R_2R_3R_5 + C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5$

10.1431 X-INVALID-ORDER-1431 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_3C_4C_5R_2R_4R_5s^2 + C_3R_2 + s(C_3C_4R_2R_4 + C_3C_5R_2R_4)$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_5s^2 + C_3R_2 + s\left(C_3C_4R_2R_4 + C_3C_5R_2\right)}{s^4\left(C_1C_2C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R$

10.1432 X-INVALID-ORDER-1432 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_2R_4R_5R_6s^3 + C_3R_2 + s^2\left(C_3C_4C_5R_2R_4R_5 + C_3C_4C_6R_2R_4R_6 + C_3C_5C_6R_2R_5R_6\right)}{s^4\left(C_1C_2C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_$

10.1433 X-INVALID-ORDER-1433 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-}{-C_1R_2 + C_1R_5 + C_3R_5 + s^4\left(C_1C_2C_3C_4C_6R_2R_3R_4R_5R_6 - C_1C_3C_4C_5R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_4C_6R_2R_4R_5R_6 - C_1C_3C_4C_5R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_4R$

10.1434 X-INVALID-ORDER-1434 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_2 R_4}{s^3 \left(C_1 C_2 C_3 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(C_1 C_2 C_6 R_2 R_4 R_5 - C_1 C_3 C_6 R_2 R_3 R_4 + C_1 C_3 C_6 R_2 R_3 R_5 + C_1 C_3 C_6 R_2 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 + C_1 C_6 R_2 R_5 + C_1 C_6 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_3 C_6 R_2 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_5 R_5\right) + s \left(-C_$

10.1435 X-INVALID-ORDER-1435 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_2R_4R_6s + C_3R_2R_4}{s^3\left(C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + s^2\left(C_1C_2C_6R_2R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + c_1C_3C_6R_2R_4R_5 + c_1C_3C_6$

10.1436 X-INVALID-ORDER-1436 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^3\left(C_1C_2C_3C_6R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_2R_3R_4R_5 + s^2\left(C_1C_2C_3R_2R_3R_4R_5 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_3C_4R_2R_3R_4R_5 - C_1C_3C_6R_2R_3R_4R_6 + C_1C_3C_6R_2R_3R_4R_5 +$

10.1437 X-INVALID-ORDER-1437 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s+1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(C_1C_2C_3C_6R_2R_3R_4R_6 + C_1C_3C_6R_2R_3R_4R_6 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_3R_3R_4 + C_1C_3C_5R_3R_3R_4 + C_1C_3C_5R_3R_3R_4 + C_1C_3C_5R_3R_4 + C_1C_3C_5R_3R_3R_4 + C_1C_3C_5R_3R_3R_4 + C_1C_3C_5R_3R_3R_4 + C_1C_$

10.1438 X-INVALID-ORDER-1438 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(C_1C_2C_3C_5R_2R_3R_4R_5 + C_1C_3C_4R_2R_3R_4 + C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_3R_4R_5 + C_1C_3C_5R_5R_5R_5R_5R_5R_$

10.1439 X-INVALID-ORDER-1439 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_4R_5}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^3\left(C_1C_2C_3C_5C_6R_2R_3R_4R_5 + C_1C_3C_4C_5R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C_6R_3R_4 + C_1C_5C_5C_5C_6R_3R_4 + C_1C_5C_5C_5C_6R_3R_4 + C_1C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5$

10.1440 X-INVALID-ORDER-1440 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 C_5 C_6 R_2 R_4 R_6 s + C_3 C_5 L_2 R_4}{C_1 C_6 R_2 + C_1 C_6 R_4 + C_3 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 + C_1 C_3 C_5 C_6$

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10.1441 X-INVALID-ORDER-1441 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1R_2 + C_1R_4 + C_3R_4 + s^4\left(C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6 + C_1C_3C_4C_5C_6R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_3C_4C_5R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_1C_3C_4C_5R_3R_4R_5 + C_1C_3C_4C_5R_3R_4R_5 + C_1C_3C_4C_5R_3R_4R_5 + C_1C_3C_4C_5R_3R_4R_5 + C_1C_3C_5C_6R_3R_4R_5 + C_1C_3C_5C_6R_3R_4R_5 + C_1C_3C_5C_6R_3R_5R_5 + C_1C_3C_5C_6R_5R_5R_5 + C_1C_3C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5 + C_
10.1442 X-INVALID-ORDER-1442 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                               \frac{C_{3}C_{5}R_{2}R_{4}R_{5}s+C_{3}R_{2}R_{4}}{s^{3}\left(C_{1}C_{2}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{
10.1443 X-INVALID-ORDER-1443 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5C_6R_2R_4R_5R_6s^2 + C_3R_2R_4 + s\left(C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 - C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5 + C_1C_3C
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10.1444 X-INVALID-ORDER-1444 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.1445 X-INVALID-ORDER-1445 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3R_2R_3R_4s + R_2R_4}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5 + C_3C_6R_3R_4R_5\right)}$

10.1446 X-INVALID-ORDER-1446 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_2R_3R_4R_6s^2 + R_2R_4 + s\left(C_3R_2R_3R_4 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5 + C_3C_6R_3R_4R_5\right)}$

10.1447 X-INVALID-ORDER-1447 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_2 R_3 R_4 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 R_2 R_3 R_4 R_5 + C_1 C_6 R_2 R_3 R_4 R_5 + C_1 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 R_6 + C_1 C_6 R_5 R_5 R_6$

10.1448 X-INVALID-ORDER-1448 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_{3}C_{5}R_{2}R_{3}R_{4}R_{6}s^{2}+C_{5}R_{2}R_{4}R_{6}s}{R_{4}+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{2}C_{3}C_{6}R_{2}R_{3}R_{4}R_{6}\right)+s^{2}\left(C_{1}C_{2}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_$

10.1449 X-INVALID-ORDER-1449 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^3\left(C_1C_2C_5R_2R_3R_4R_5 + C_1C_3C_5R_2R_3R_4R_5 + C_2C_3C_5R_2R_3R_4R_5 + C_1C_5R_2R_3R_4 + C_1C_5R_3R_4R_5 + C_1C_5R_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_$

10.1450 X-INVALID-ORDER-1450 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 C_5 R_2 R_3 R_4 s + C_5 R_2 R_3}{C_6 R_4 + s^3 \left(C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_5 + C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_5 C_6 R_2 R_3 R_4 + C_1 C_5$

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10.1451 X-INVALID-ORDER-1451 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5C_6R_2R_3R_4R_6s^2 + C_5R_2R_4 + s\left(C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^3\left(C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_3C_5C_6R_2R_3R_4R_5 + C_1C_5C_6R_2R_3R_4 
10.1452 X-INVALID-ORDER-1452 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{R_4 + s^4 \left( C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_2 R_3 R_4 R_6 + C_1 C_5 C_6 R_2 R_5 R_5 R_6 + C_1 C_5 C_6 R_5 R_5 R_5 R_6 + C_1 C_5 C_6 R_5 R_5 R_5 R_6 + C_1 C_5 C_6 R_5 R_5 R_5
10.1453 X-INVALID-ORDER-1453 Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{R_3}{C_3 R_3 s + 1}, & R_4, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{1}{C_6 s} \end{pmatrix}
                                                                             H(s) = \frac{C_3C_5R_2R_3R_4R_5s^2 + R_2R_4 + s\left(C_3R_2R_3R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_2R_4R_5\right)}
10.1454 X-INVALID-ORDER-1454 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                             H(s) = \frac{C_3C_5C_6R_2R_3R_4R_5R_6s^3 + R_2R_4 + s^2\left(C_3C_5R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_6 + C_5C_6R_2R_4R_5R_6\right) + s\left(C_3R_2R_3R_4 + C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_2R_4R_5\right)}
10.1455 X-INVALID-ORDER-1455 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)
H(s) = \frac{C_3C_5R_2R_3R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^3\left(C_1C_2C_6R_2R_3R_4R_5R_6 + C_1C_3C_6R_2R_3R_4R_5R_6 + C_1C_5C_6R_2R_3R_4R_5 + C_1C_5R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5 - C_1C_6R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5 - C_1C_6R_2R_3R_4R
10.1456 X-INVALID-ORDER-1456 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                             H(s) = \frac{C_3R_2R_3s + R_2}{C_6R_5s + s^3\left(C_1C_2C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5 + C_3C_6R_3R_5\right)}
10.1457 X-INVALID-ORDER-1457 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                             H(s) = \frac{C_3C_6R_2R_3R_6s^2 + R_2 + s\left(C_3R_2R_3 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_2C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5 + C_3C_6R_3R_5\right)}
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10.1458 X-INVALID-ORDER-1458 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_2 R_3 R_6 s + R_2 R_6}{R_5 + s^3 \left(C_1 C_2 C_6 R_2 R_3 R_5 R_6 + C_1 C_3 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 R_2 R_3 R_5 + C_1 C_6 R_2 R_5 + C_1 C_6 R_5 R_5 + C_1 C_$

10.1459 X-INVALID-ORDER-1459 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_6s^2 + C_5R_2R_6s}{s^3\left(C_1C_2C_6R_2R_3R_6 + C_1C_3C_6R_2R_3R_6 + C_1C_5C_6R_2R_3R_6 + C_2C_3C_6R_2R_3R_6\right) + s^2\left(C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_6R_2R_6 + C_1C_6R_3R_6 + C_2C_3R_2R_3 + C_2C_6R_2R_6 + C_3C_6R_3R_6\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2 + C_3R_3R_6\right) + s\left(C_1R_2 + C_1R_3 + C_2R_3 + C_3R_3R_6\right) + s\left(C_1R_2 + C_1R_3 + C_2R_3 + C_3R_3R_6\right) + s\left(C_1R_2 + C_1R_3 + C_2R_3R_6\right) + s\left(C_1R_2 + C_1R_3R_6\right) + s\left(C_1R_3R_6\right) + s\left(C$

10.1460 X-INVALID-ORDER-1460 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_6s^2 + C_5R_2R_6s}{s^3\left(C_1C_2C_5R_2R_3R_5 + C_1C_3C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_5 + C_2C_3C_5R_2R_3R_5 + C_1C_4R_2R_3 + C_1C_5R_2R_3 + C_1C_5R_$

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10.1461 X-INVALID-ORDER-1461 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5R_2R_3s + C_5R_2}{C_6 + s^3\left(C_1C_2C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_3R_5 + C_2C_3C_5C_6R_2R_3R_5 + C_2C_3C_5C_6R_2R_3R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_
10.1462 X-INVALID-ORDER-1462 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5C_6R_2R_3R_6s^2 + C_5R_2 + s\left(C_3C_5R_2R_3 + C_5C_6R_2R_3 + C_5C_6R_2R_6\right)}{C_6 + s^3\left(C_1C_2C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_3R_5 + C_2C_3C_5C_6R_2R_3R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_5C_6R_2R_3 
10.1463 X-INVALID-ORDER-1463 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{s^4 \left( C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_5 R_2 R_3 R_5 + C_1 C_2 C_6 R_2 R_3 R_5 + C_1 C_3 C_5 R_2 R_3 R_5 + C_1 C_3 C_5 R_2 R_3 R_5 + C_1 C_4 C_5 R_2 R_3 R_5 + C_1 C_5 C_6 R_2 R_5 R_5 + C_1 C_5 C_6 R_5 R_5 + C_1
10.1464 X-INVALID-ORDER-1464 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{1}{C_6 s}\right)
                                                                                                                                                              H(s) = \frac{C_3C_5R_2R_3R_5s^2 + R_2 + s\left(C_3R_2R_3 + C_5R_2R_5\right)}{C_6R_5s + s^3\left(C_1C_2C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_5C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5 + C_3C_6R_3R_5\right)}
10.1465 X-INVALID-ORDER-1465 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                              H(s) = \frac{C_3C_5C_6R_2R_3R_5R_6s^3 + R_2 + s^2\left(C_3C_5R_2R_3R_5 + C_3C_6R_2R_3R_6 + C_5C_6R_2R_5R_6\right) + s\left(C_3R_2R_3 + C_5R_2R_5 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_2C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_5C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_2R_5 + C_2C_6R_2R_5 + C_3C_6R_3R_5\right)}
10.1466 X-INVALID-ORDER-1466 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)
H(s) = \frac{C_3C_5R_2R_3R_5R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_5R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_2C_6R_2R_3R_5R_6 + C_1C_3C_6R_2R_3R_5R_6 + C_1C_5C_6R_2R_3R_5R_6 + C_2C_3C_6R_2R_3R_5R_6\right) + s^2\left(C_1C_2R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_5R_2R_3R_5 - C_1C_5R_2R_3R_5 - C_1C_6R_2R_3R_5 + C_1C_6R_2R_3R_5R_6 + C_1C_6R_2R_3R_5R_6 + C_2C_3R_2R_3R_5 + C_2C_3R_3R_5 + C_2C_3R_5 + 
10.1467 X-INVALID-ORDER-1467 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_3C_4R_2R_3R_4R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_6 + C_4R_2R_4R_6\right)}{R_5 + s^3\left(C_1C_2C_4R_2R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 + C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_3R_4R_5 + C_1C_4R_2R_3R_5 + C_1C_4R_3R_4R_5 + C
10.1468 X-INVALID-ORDER-1468 Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{R_3}{C_3 R_3 s + 1}, & R_4 + \frac{1}{C_4 s}, & R_5, & \frac{1}{C_6 s} \end{pmatrix}
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 $H(s) = \frac{C_3C_4R_2R_3R_4s^2 + R_2 + s\left(C_3R_2R_3 + C_4R_2R_4\right)}{C_6R_5s + s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_2C_3C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_5 + C_2C_4C_6R_2R_4R_5 + C_2C_4C_6R_4R_4R_5 + C_2C_4C_6R_4$

10.1469 X-INVALID-ORDER-1469 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_6R_2R_3R_4R_6s^3 + R_2 + s^2\left(C_3C_4R_2R_3R_4 + C_3C_6R_2R_3R_6 + C_4C_6R_2R_4R_6\right) + s\left(C_3R_2R_3 + C_4R_2R_4 + C_6R_2R_6\right)}{C_6R_5s + s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_4R_5 + C_1C_$

10.1470 X-INVALID-ORDER-1470 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_2 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_2 R_3 R_5 + C_1 C_3 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_2 R_3 R_5 + C_1 C_3 C_6 R_2 R_5 + C_1 C_5 R_5 R_5 + C$

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10.1471 X-INVALID-ORDER-1471 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_2R_3R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_3C_5R_2R_3R_6 + C_4C_5R_2R_4R_6\right)}{s^3\left(C_1C_2C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_4 + C_1C_4C_5R_2R_3R_4 + C_1C_4R_2R_3 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3 + C_2C_4R_2R_4 + C_3C_4R_3R_4\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2 + C_3R_3 + C_4R_4\right) + 1}
10.1472 X-INVALID-ORDER-1472 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
10.1473 X-INVALID-ORDER-1473 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_5C_6R_2R_3R_4R_6s^3 + C_5R_2 + s^2\left(C_3C_4C_5R_2R_3R_4 + C_3C_5C_6R_2R_3R_6 + C_4C_5C_6R_2R_3R_6 + C_4C_5C_6R_2R_3 + C_4C_5R_2R_4 + C_5C_6R_2R_4 + C_5C_
10.1474 X-INVALID-ORDER-1474 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                            \overline{s^4 \left( C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_2 R_3 R_4 + C_1 C_2 C_6 R_2 R_3 R_4 + C_1 C_3 C_4 R_2 R_3 R_4 + C_1 C_3 C_6 R_2 R_3 R_4 + C_1 C_4 C_6 R_2 R_3 R_4 + C_1 C
10.1475 X-INVALID-ORDER-1475 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
10.1476 X-INVALID-ORDER-1476 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                           \frac{1}{C_6 + s^4 \left( C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 + C_1 C_4 C_5 C_6 R_2 R_3 R_
10.1477 X-INVALID-ORDER-1477 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{1}{C_6 + s^4 \left( C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 + C_1 C_3 C_4 C_6 R_2 R_3 R_5 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_4 C_5 C_6 R_2
10.1478 X-INVALID-ORDER-1478 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
```

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_3$

10.1479 X-INVALID-ORDER-1479 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_3R_4R_5R_6s^3 + R_2R_6 + s^2\left(C_3C_4R_2R_3R_4R_6 + C_3C_5R_2R_3R_5R_6 + C_4C_5R_2R_4R_5R_6\right) + s\left(C_3R_2R_3R_6 + C_4R_2R_4R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_2C_4R_2R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_4R_5 + C_1C_4R_4R_4R_5 + C_1C_4R_4R_5 + C_1C_4R_4R_5 + C_1C_4R_4R_5 + C_1C_4R_4R_5 + C_1C_4R_4R_5$

10.1480 X-INVALID-ORDER-1480 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_3R_4R_5s^3 + R_2 + s^2\left(C_3C_4R_2R_3R_4 + C_3C_5R_2R_3R_5 + C_4C_5R_2R_4R_5\right) + s\left(C_3R_2R_3 + C_4R_2R_4 + C_5R_2R_5\right)}{C_6R_5s + s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_$

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10.1481 X-INVALID-ORDER-1481 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3C_4C_5C_6R_2R_3R_4R_5F_6s^4 + R_2 + s^3\left(C_3C_4C_5R_2R_3R_4R_5 + C_3C_4C_6R_2R_3R_4F_6 + C_4C_5C_6R_2R_3R_4F_6 + C_4C_5C_6R_2R_3R_4 + C_3C_5R_2R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_5R_2R_3R_5 + C_4C_5R_2R_3R_4 + C_4C_5R_3R_4 + C_4C_5R_3R_$

10.1482 X-INVALID-ORDER-1482 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_2 R$

10.1483 X-INVALID-ORDER-1483 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{R_3}{C_3 R_3 s + 1}, & \frac{R_4}{C_4 R_4 s + 1}, & R_5, & \frac{1}{C_6 s} \end{pmatrix}$

 $H(s) = \frac{C_3R_2R_3R_4s + R_2R_4}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5 + C_3C_6R_3R_4R_5\right)}$

10.1484 X-INVALID-ORDER-1484 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_2R_3R_4R_6s^2 + R_2R_4 + s\left(C_3R_2R_3R_4 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5 + C_3C_6R_3R_4R_5\right)}$

10.1485 X-INVALID-ORDER-1485 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3R_2R_3R_4R_6s + R_2R_4R_6}{R_4R_5 + s^3\left(C_1C_2C_6R_2R_3R_4R_5R_6 + C_1C_3C_6R_2R_3R_4R_5R_6 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_3R_4R_5 + C_1C_6R_3R_4R_$

10.1486 X-INVALID-ORDER-1486 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_{3}C_{5}R_{2}R_{3}R_{4}R_{6}s^{2} + C_{5}R_{2}R_{4}R_{6}s}{R_{4} + s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{6} + C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{6} + C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{6} + C_{2}C_{3}C_{6}R_{2}R_{3}R_{4} + C_{1}C_{3}R_{2}R_{3}R_{4} + C_{1}C_{5}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{2}R_{3}R_{6} + C_{1}C_{6}R_{2}R_{3}R_{6} + C_{1}C_{6}R_{2}R_{3}R_{4}R_{6} + C_{2}C_{3}R_{2}R_{3}R_{4} + C_{1}C_{3}R_{2}R_{3}R_{4} + C_{1}C_{5}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{2}R_{3}R_{6} + C_{1}C_{6}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{2}R_{3}R_{6} + C_{1}C_{6}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{2}R_{3}R_{6} + C_{1}C_{6}R_{2}R_{3}R_$

10.1487 X-INVALID-ORDER-1487 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

10.1488 X-INVALID-ORDER-1488 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_3C_5R_2R_3R_4s + C_5R_2R_4$ $\frac{C_{3}C_{5}R_{2}R_{3}R_{4}s+C_{5}R_{2}R_{4}}{C_{6}R_{4}+s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}+C_$

10.1489 X-INVALID-ORDER-1489 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_4R_6s^2 + C_5R_2R_4 + s\left(C_3C_5R_2R_3R_4 + C_5C_6R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^3\left(C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_3C_5C_6R_2R_3R_4R_5 + C_1C_5C_6R_2R_3R_4 + C$

10.1490 X-INVALID-ORDER-1490 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s+1}\right)$

 $\overline{R_4 + s^4 \left(C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_3 R_4 R_5 + C_1 C_3 C_5 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_3 R_4 R_5 + C_1 C_3 C_5 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_3 R_4 R_5 + C_1 C_3 C_5 R_5 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_3 R_4 R_5 + C_1 C_3 C_5 R_5 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_5 \right) \\ + s^3 \left(C_1 C_2 C_5 R$

10.1491 X-INVALID-ORDER-1491 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4R_5s^2 + R_2R_4 + s\left(C_3R_2R_3R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_4 + C_1C_6R_2R_4R_5 + C_1C_6R_4R_4R_5 + C_1C_6R_4R$

10.1492 X-INVALID-ORDER-1492 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_4R_5R_6s^3 + R_2R_4 + s^2\left(C_3C_5R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_6 + C_5C_6R_2R_4R_5R_6\right) + s\left(C_3R_2R_3R_4 + C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_5C_6R_2R_3R_4R_5 + C_1C_5C_6R_2R_3R_4R_5 + C_1C_5C_6R_2R_3R_4R_5 + C_1C_6R_2R_3R_4 + C_1C_6R_2R_$

 $\textbf{10.1493} \quad \textbf{X-INVALID-ORDER-1493} \ \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \frac{R_6}{C_6 R_6 s + 1} \right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6 + C_5R_2R_4R_5R_6\right) + s^2\left(C_1C_2R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_3R_3R_4$

10.1494 X-INVALID-ORDER-1494 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1 R_1 R_2 R_4 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s \left(C_1 R_1 R_4 R_5 - C_1 R_2 R_3 R_4 + C_1 R_2 R_3 R_5 + C_1 R_2 R_4 R_5 + C_1 R_3 R_4 R_5 \right)}$$

10.1495 X-INVALID-ORDER-1495 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 R_1 R_2 R_4 s + R_2 R_4}{C_6 R_4 R_5 s + s^2 \left(C_1 C_6 R_1 R_4 R_5 - C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 \right)}$$

10.1496 X-INVALID-ORDER-1496 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_6R_1R_2R_4R_6s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5\right)}$$

10.1497 X-INVALID-ORDER-1497 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{-C_1C_5C_6R_2R_3R_4R_6s^3 + R_4 + s^2\left(-C_1C_5R_2R_3R_4 + C_1C_6R_1R_4R_6 + C_1C_6R_2R_3R_6 + C_1C_6R_2R_4R_6\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_6R_4R_6\right)}$$

10.1498 X-INVALID-ORDER-1498 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s$$

 $\frac{C_{1}C_{5}\kappa_{1}\kappa_{2}\kappa_{4}\kappa_{6}s}{R_{4}+s^{3}\left(C_{1}C_{5}C_{6}R_{1}R_{4}R_{5}R_{6}-C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{4}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{4}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{5}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{2}R_{3}R_{5}+C_{1}C_{5}R_$

10.1499 X-INVALID-ORDER-1499 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_5s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_5R_2R_4R_5\right)}{-C_1C_5C_6R_2R_3R_4R_5s^3 + C_6R_4R_5s + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5\right)}$$

10.1500 X-INVALID-ORDER-1500 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_4R_5R_6s^3 + R_2R_4 + s^2\left(C_1C_5R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_6 + C_5C_6R_2R_4R_5R_6\right) + s\left(C_1R_1R_2R_4 + C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{-C_1C_5C_6R_2R_3R_4R_5s^3 + C_6R_4R_5s + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_3R_4\right)}$$

10.1501 X-INVALID-ORDER-1501
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{C_1C_5R_1R_2R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_5R_2R_4R_5R_6\right)}{-C_1C_5C_6R_2R_3R_4R_5R_6s^3 + R_4R_5 + s^2\left(-C_1C_5R_2R_3R_4R_5 + C_1C_6R_1R_4R_5R_6 - C_1C_6R_2R_3R_4R_6 + C_1C_6R_2R_3R_4R_5R_6 + C_1C_6R_2R_3R_4R_5 + C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_$

10.1502 X-INVALID-ORDER-1502 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 R_1 R_2 s + R_2}{C_1 C_4 C_6 R_2 R_3 R_5 s^3 + C_6 R_5 s + s^2 \left(C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 \right)}$$

10.1503 X-INVALID-ORDER-1503 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 C_6 R_1 R_2 R_6 s^2 + R_2 + s \left(C_1 R_1 R_2 + C_6 R_2 R_6\right)}{C_1 C_4 C_6 R_2 R_3 R_5 s^3 + C_6 R_5 s + s^2 \left(C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5\right)}$$

10.1504 X-INVALID-ORDER-1504 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1 R_1 R_2 R_6 s + R_2 R_6}{C_1 C_4 C_6 R_2 R_3 R_5 R_6 s^3 + R_5 + s^2 \left(C_1 C_4 R_2 R_3 R_5 + C_1 C_6 R_1 R_5 R_6 - C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_3 R_5 R_6\right) + s \left(C_1 R_1 R_5 - C_1 R_2 R_3 + C_1 R_2 R_5 + C_1 R_3 R_5 + C_6 R_5 R_6\right)}$$

10.1505 X-INVALID-ORDER-1505 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_6s^2 + C_5R_2R_6s}{s^3\left(C_1C_4C_6R_2R_3R_6 - C_1C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_4R_2R_3 - C_1C_5R_2R_3 + C_1C_6R_1R_6 + C_1C_6R_2R_6 + C_1C_6R_3R_6\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_6R_6\right) + 1}$$

10.1506 X-INVALID-ORDER-1506 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_6s^2 + C_5R_2R_6s}{C_1C_4C_5R_2R_3R_5s^3 + s^2\left(C_1C_4R_2R_3 + C_1C_5R_1R_5 - C_1C_5R_2R_3 + C_1C_5R_2R_5 + C_1C_5R_3R_5\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_5R_5\right) + 1}$$

10.1507 X-INVALID-ORDER-1507 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_2s + C_5R_2}{C_1C_4C_5C_6R_2R_3R_5s^3 + C_6 + s^2\left(C_1C_4C_6R_2R_3 + C_1C_5C_6R_1R_5 - C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_3R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_5C_6R_5\right)}$$

10.1508 X-INVALID-ORDER-1508 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_6s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_5C_6R_2R_6\right)}{C_1C_4C_5C_6R_2R_3R_5s^3 + C_6 + s^2\left(C_1C_4C_6R_2R_3 + C_1C_5C_6R_1R_5 - C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_3R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_5C_6R_5\right)}$$

10.1509 X-INVALID-ORDER-1509 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_6s^2 + C_5R_2R_6s}{C_1C_4C_5C_6R_2R_3R_5R_6s^4 + s^3\left(C_1C_4C_5R_2R_3R_5 + C_1C_4C_6R_2R_3R_6 + C_1C_5C_6R_2R_3R_6 + C_1C_5C_6R_2R_3R_6 + C_1C_5C_6R_2R_3R_6 + C_1C_5C_6R_2R_3R_6 + C_1C_5C_6R_2R_3R_5 + C_1C_5R_2R_3 + C_1C_5R_3R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_$$

10.1510 X-INVALID-ORDER-1510 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_5s^2 + R_2 + s\left(C_1R_1R_2 + C_5R_2R_5\right)}{C_6R_5s + s^3\left(C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5\right)}$$

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10.1511 X-INVALID-ORDER-1511 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                            H(s) = \frac{C_1C_5C_6R_1R_2R_5R_6s^3 + R_2 + s^2\left(C_1C_5R_1R_2R_5 + C_1C_6R_1R_2R_6 + C_5C_6R_2R_5R_6\right) + s\left(C_1R_1R_2 + C_5R_2R_5 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5\right)}
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10.1512 X-INVALID-ORDER-1512 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_5R_1R_2R_5R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_4C_6R_2R_3R_5R_6 - C_1C_5C_6R_2R_3R_5R_6\right) + s^2\left(C_1C_4R_2R_3R_5 - C_1C_5R_2R_3R_5 + C_1C_6R_1R_5R_6 - C_1C_6R_2R_3R_6 + C_1C_6R_2R_5R_6\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_1R_5R_6\right)}$

10.1513 X-INVALID-ORDER-1513 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_4R_1R_2R_4s^2 + R_2 + s\left(C_1R_1R_2 + C_4R_2R_4\right)}{C_6R_5s + s^3\left(C_1C_4C_6R_1R_4R_5 - C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_4C_6R_4R_5\right)}$

10.1514 X-INVALID-ORDER-1514 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_4C_6R_1R_2R_4R_6s^3 + R_2 + s^2\left(C_1C_4R_1R_2R_4 + C_1C_6R_1R_2R_6 + C_4C_6R_2R_4R_6\right) + s\left(C_1R_1R_2 + C_4R_2R_4 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_4C_6R_1R_4R_5 - C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_4C_6R_4R_5\right)}$

10.1515 X-INVALID-ORDER-1515 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_4R_1R_2R_4R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_4R_2R_4R_6\right)}{R_5 + s^3\left(C_1C_4C_6R_1R_4R_5R_6 - C_1C_4C_6R_2R_3R_4R_6 + C_1C_4C_6R_2R_3R_5R_6 + C_1C_4C_6R_2R_4R_5R_6 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_3R_3R_5 + C_1C_4R_3R_5 + C_1C_4R_3R$

10.1516 X-INVALID-ORDER-1516 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_4C_5R_2R_4R_6\right)}{-C_1C_4C_5R_2R_3R_4s^3 + s^2\left(C_1C_4R_1R_4 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_4R_4\right) + 1}$

10.1517 X-INVALID-ORDER-1517 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_4C_5R_2R_4\right)}{-C_1C_4C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_1C_4C_6R_1R_4 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_4C_6R_4\right)}$

10.1518 X-INVALID-ORDER-1518 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_4C_5C_6R_1R_2R_4R_6s^3 + C_5R_2 + s^2\left(C_1C_4C_5R_1R_2R_4 + C_1C_5C_6R_1R_2R_6 + C_4C_5C_6R_2R_4R_6\right) + s\left(C_1C_5R_1R_2 + C_4C_5R_2R_4 + C_5C_6R_2R_6\right)}{-C_1C_4C_5C_6R_2R_3R_4s^3 + C_6 + s^2\left(C_1C_4C_6R_1R_4 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_4C_6R_4\right)}$

10.1519 X-INVALID-ORDER-1519 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_4C_5R_2R_4R_6\right)}{-C_1C_4C_5C_6R_2R_3R_4R_6s^4 + s^3\left(-C_1C_4C_5R_2R_3R_4 + C_1C_4C_6R_2R_3R_6 + C_1C_4C_6R_2R_4R_6 + C_1C_4C_6R_4R_4R_6 + C_1C_4C_6R_4R_6 + C_1C_4C_6R_4R_6 + C_1C_4C_6R_4R_6 + C_1C_4C_6R_4R_4 + C_1C_4C_6R_4R_4 +$

10.1520 X-INVALID-ORDER-1520 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_4C_5R_2R_4R_6\right)}{s^3\left(C_1C_4C_5R_1R_4R_5 - C_1C_4C_5R_2R_3R_4 + C_1C_4C_5R_2R_3R_5 + C_1C_4C_5R_2R_4R_5\right) + s^2\left(C_1C_4R_1R_4 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_5R_1R_5 - C_1C_5R_2R_3 + C_1C_5R_2R_5 + C_1C_5R_3R_5 + C_4C_5R_4R_5\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_4C_5R_3R_4\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_1C_4R_3R_4 + C_1C_4R_3R_4 + C_1C_5R_3R_5 + C_4C_5R_4R_5\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_4C_5R_3R_5\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_4C_5R_3R_5\right) + s\left(C_1R_1 + C_1R_3 + C_4C_5R_5R_5\right) + s\left(C_1R_1 + C_1R_3 + C_4C_5R_5R_5\right) + s\left(C_1R_1 + C_1R_3 + C_4C_5R_5\right) + s\left(C_1R_1 + C_1R_5$

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10.1521 X-INVALID-ORDER-1521 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_4C_5R_1R_2R_4s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_4C_5R_2R_4\right)}{C_6 + s^3\left(C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_4C_6R_1R_4 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_5R_5 + 
10.1522 X-INVALID-ORDER-1522 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_4C_5C_6R_1R_2R_4R_6s^3 + C_5R_2 + s^2\left(C_1C_4C_5R_1R_2R_4 + C_1C_5C_6R_1R_2R_6 + C_4C_5C_6R_2R_4R_6\right) + s\left(C_1C_5R_1R_2 + C_4C_5R_2R_4 + C_5C_6R_2R_4\right)}{C_6 + s^3\left(C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_4R_5\right) + s^2\left(C_1C_4C_6R_1R_4 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_4C_5C_6R_2R_4 + C_1C_4C_5C_6R_2R_4 + C_1C_4C_5C_6R_2R_4 + C_1C_4C_5C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_
10.1523 X-INVALID-ORDER-1523 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{s^4 \left( C_1 C_4 C_5 C_6 R_1 R_4 R_5 R_6 - C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_1 C_4 C_5 R_1 R_4 R_5 - C_1 C_4 C_5 R_2 R_3 R_5 + C_1 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 R_2 R_4 R_5 + C_1 C_4 C_5 R_5 R_5 + C_1 C_5
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10.1524 X-INVALID-ORDER-1524 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4R_5R_6s^3 + R_2R_6 + s^2\left(C_1C_4R_1R_2R_4R_6 + C_1C_5R_1R_2R_5R_6 + C_4C_5R_2R_4R_5R_6\right) + s\left(C_1R_1R_2R_6 + C_4R_2R_4R_6 + C_5R_2R_5R_6\right)}{-C_1C_4C_5R_2R_3R_4R_5s^3 + R_5 + s^2\left(C_1C_4R_1R_4R_5 - C_1C_4R_2R_3R_4 + C_1C_4R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_3R_5\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_4R_4R_5\right)}$

10.1525 X-INVALID-ORDER-1525 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4R_5s^3 + R_2 + s^2\left(C_1C_4R_1R_2R_4 + C_1C_5R_1R_2R_5 + C_4C_5R_2R_4R_5\right) + s\left(C_1R_1R_2 + C_4R_2R_4 + C_5R_2R_5\right)}{-C_1C_4C_5C_6R_2R_3R_4R_5s^4 + C_6R_5s + s^3\left(C_1C_4C_6R_1R_4R_5 - C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 + C_1C_4C_6R_5 + C_1C_4C_6R_5 + C_1C_4C_6R_5 + C_1C_4C_6R_5 + C_1C_4C_6R_5$

10.1526 X-INVALID-ORDER-1526 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_4C_5C_6R_1R_2R_4R_5R_6s^4 + R_2 + s^3\left(C_1C_4C_5R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_6 + C_4C_5C_6R_2R_4R_5 + C_1C_6R_1R_2R_4 + C_1C_5R_1R_2R_4 + C_1C_5R_1R_2R_5 + C_1C_6R_1R_2R_6 + C_4C_5R_2R_4R_5 + C_4C_6R_2R_4R_6 + C_5C_6R_2R_4R_5 + C_4C_6R_2R_4R_5 + C_4C_6R_4R_4R_5 + C_4C_6R_4R_4R_$

10.1527 X-INVALID-ORDER-1527 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4R_5R_6s^3 + R_2R_6 + s^2\left(C_1C_4R_1R_2R_4R_6 + C_1C_5R_1R_2R_5R_6 + C_4C_5R_2R_4R_5R_6\right) + s\left(C_1R_2R_2R_3R_4R_5R_6s^4 + R_5 + s^3\left(-C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5R_6\right) + s\left(C_1R_4R_4R_5R_6 + C_1C_4C_6R_2R_3R_4R_5R_6 + C_1C_4C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_4R_1R_4R_5 + C_1C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4R_2R_3R_4\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4R_2R_3R_4\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4R_2R_3R_5\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4R_2R_3R_5\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4R_4R_5R_5\right) + s^2\left(C_1C_4R_1R_4R_5R_6 + C_1C_4R_4R_5R_5\right) + s^2\left(C_1C_4R_1R_4R_5R_5\right) + s^2\left(C_1C_4R_1R_4R_5\right) + s^2\left(C_1C_4R_1$

10.1528 X-INVALID-ORDER-1528 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1 R_1 R_2 R_4 s + R_2 R_4}{C_1 C_4 C_6 R_2 R_3 R_4 R_5 s^3 + C_6 R_4 R_5 s + s^2 \left(C_1 C_6 R_1 R_4 R_5 - C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_3 R_4 R_5 \right)}$

10.1529 X-INVALID-ORDER-1529 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_6R_1R_2R_4R_6s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_6R_2R_4R_6\right)}{C_1C_4C_6R_2R_3R_4R_5s^3 + C_6R_4R_5s + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5\right)}$

10.1530 X-INVALID-ORDER-1530 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_{1}R_{1}R_{2}R_{4}R_{6}s+R_{2}R_{4}R_{6}}{C_{1}C_{4}C_{6}R_{2}R_{3}R_{4}R_{5}+s^{2}\left(C_{1}C_{4}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{1}R_{4}R_{5}R_{6}-C_{1}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_$

10.1531 X-INVALID-ORDER-1531 $Z(s) = \left(R_1 + \frac{1}{C_{18}}, R_2, R_3, \frac{R_1}{C_{4R,8+1}}, \frac{1}{C_{5}}, \frac{R_2}{C_{6R,8+1}}\right)$ $C_1C_3R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s$ $C_1C_3R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s$ $E_1C_3R_4R_4R_6s^2 + C_5R_2R_4R_6s + C_1C_6R_3R_4R_6 + C_1$

 $H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{C_1C_4C_5C_6R_2R_3R_4R_5R_6s^4 + R_4 + s^3\left(C_1C_4C_5R_2R_3R_4R_6 + C_1C_5C_6R_2R_3R_4R_6 + C_1C_5C_6R_2R_3R_4R_5R_6 + C_1C_5C_6R_2R_4R_5R_6 + C_1C_5C_6R_4R_4R_5R_6 + C_1C_5C_6R_4R_4R_5R_5 + C_1C_5C_6R_4R_4R_5 + C_1C_5C_6R_4R_4R_5 + C_1C_5C_6R_4R_4R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_$

10.1536 X-INVALID-ORDER-1536 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$ $C_1 C_5 R_1 R_2 R_4 R_5 s^2 + R_2 R_4 + s \left(C_1 R_1 R_2 R_4 + C_5 R_2 R_4 R_5\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_5s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5\right)}$$

10.1537 X-INVALID-ORDER-1537 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_4R_5R_6s^3 + R_2R_4 + s^2\left(C_1C_5R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_6 + C_5C_6R_2R_4R_5R_6\right) + s\left(C_1R_1R_2R_4 + C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5\right)}$$

10.1538 X-INVALID-ORDER-1538 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^3\left(C_1C_4C_6R_2R_3R_4R_5R_6 - C_1C_5C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_4R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_2R_3R_4R_5 + C_1R_2R_3R_4 + C_1R_2R_3R_4$$

10.1539 X-INVALID-ORDER-1539 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1 C_3 R_1 R_2 R_4 R_6 s + C_3 R_2 R_4 R_6}{-C_1 R_2 R_4 + C_1 R_2 R_5 + C_1 R_4 R_5 + C_3 R_4 R_5 + s \left(C_1 C_3 R_1 R_4 R_5 + C_1 C_3 R_2 R_4 R_5\right)}$$

10.1540 X-INVALID-ORDER-1540 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3R_1R_2R_4s + C_3R_2R_4}{s^2\left(C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1541 X-INVALID-ORDER-1541
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_6R_1R_2R_4R_6s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_6R_2R_4R_6\right)}{s^2\left(C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1542 X-INVALID-ORDER-1542 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1 C_3 C_5 R_1 R_2 R_4 R_6 s^2 + C_3 C_5 R_2 R_4 R_6 s}{C_1 R_2 + C_1 R_4 + C_3 R_4 + s \left(C_1 C_3 R_1 R_4 + C_1 C_3 R_2 R_4 - C_1 C_5 R_2 R_4 \right)}$$

10.1543 X-INVALID-ORDER-1543 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$$

10.1544 X-INVALID-ORDER-1544 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 C_3 C_5 C_6 R_1 R_2 R_4 R_6 s^2 + C_3 C_5 R_2 R_4 + s \left(C_1 C_3 C_5 R_1 R_2 R_4 + C_3 C_5 C_6 R_2 R_4 R_6 \right)}{C_1 C_6 R_2 + C_1 C_6 R_4 + C_3 C_6 R_4 + s \left(C_1 C_3 C_6 R_1 R_4 + C_1 C_3 C_6 R_2 R_4 - C_1 C_5 C_6 R_2 R_4 \right)}$$

10.1545 X-INVALID-ORDER-1545 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(C_1C_3C_5C_6R_1R_4R_5R_6 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_6R_2R_4R_6 + C_1C_5C_6R_2R_4R_6 + C_1C_5C_6R_2R_4R_6 + C_1C_5C_6R_2R_4R_6 + C_1C_5C_6R_4R_5R_6 + C_1C_5C_6R_5R_5R_6 + C_1C_5C_6R_5R_5R_6 + C_1C_5C_6R_5R_5R_6 +$$

10.1546 X-INVALID-ORDER-1546 $Z(s) = \left(R_1 + \frac{1}{C_{1s}}, R_2, \frac{1}{C_{3s}}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5\right)}$$

10.1547 X-INVALID-ORDER-1547 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5\right)}{s^2\left(C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1548 X-INVALID-ORDER-1548 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^2\left(C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1549 X-INVALID-ORDER-1549 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1 C_3 R_1 R_2 R_6 s + C_3 R_2 R_6}{-C_1 R_2 + C_1 R_5 + C_3 R_5 + s \left(C_1 C_3 R_1 R_5 + C_1 C_3 R_2 R_5 + C_1 C_4 R_2 R_5\right)}$$

10.1550 X-INVALID-ORDER-1550 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 C_3 R_1 R_2 s + C_3 R_2}{s^2 \left(C_1 C_3 C_6 R_1 R_5 + C_1 C_3 C_6 R_2 R_5 + C_1 C_4 C_6 R_2 R_5\right) + s \left(-C_1 C_6 R_2 + C_1 C_6 R_5 + C_3 C_6 R_5\right)}$$

10.1551 X-INVALID-ORDER-1551
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_6R_1R_2R_6s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_6R_2R_6\right)}{s^2\left(C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$$

10.1552 X-INVALID-ORDER-1552
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_1 C_3 C_5 R_1 R_2 R_6 s^2 + C_3 C_5 R_2 R_6 s}{C_1 + C_3 + s \left(C_1 C_3 R_1 + C_1 C_3 R_2 + C_1 C_4 R_2 - C_1 C_5 R_2\right)}$$

10.1553 X-INVALID-ORDER-1553
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_2s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s\left(C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2\right)}$$

10.1554 X-INVALID-ORDER-1554
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1 C_3 C_5 C_6 R_1 R_2 R_6 s^2 + C_3 C_5 R_2 + s \left(C_1 C_3 C_5 R_1 R_2 + C_3 C_5 C_6 R_2 R_6\right)}{C_1 C_6 + C_3 C_6 + s \left(C_1 C_3 C_6 R_1 + C_1 C_3 C_6 R_2 + C_1 C_4 C_6 R_2 - C_1 C_5 C_6 R_2\right)}$$

10.1555 X-INVALID-ORDER-1555 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_3C_5C_6R_1R_5R_6 + C_1C_3C_5C_6R_2R_5R_6 + C_1C_3C_5R_1R_5 + C_1C_3C_5R_2R_5 + C_1C_3C_6R_2R_6 + C_1C_4C_5R_2R_6 + C_1C_5C_6R_2R_6 + C_1C_5C_6R_2R_6 + C_1C_5C_6R_5R_6 + C_1C_$$

10.1556 X-INVALID-ORDER-1556 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1 C_3 C_5 R_1 R_2 R_5 R_6 s^2 + C_3 R_2 R_6 + s \left(C_1 C_3 R_1 R_2 R_6 + C_3 C_5 R_2 R_5 R_6\right)}{-C_1 R_2 + C_1 R_5 + C_3 R_5 + s \left(C_1 C_3 R_1 R_5 + C_1 C_3 R_2 R_5 + C_1 C_4 R_2 R_5 - C_1 C_5 R_2 R_5\right)}$$

10.1557 X-INVALID-ORDER-1557 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_5s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_5R_2R_5\right)}{s^2\left(C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$$

10.1558 X-INVALID-ORDER-1558 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_2R_5R_6s^3 + C_3R_2 + s^2\left(C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_3C_5C_6R_2R_5R_6\right) + s\left(C_1C_3R_1R_2 + C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^2\left(C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$$

10.1559 X-INVALID-ORDER-1559 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_4R_1R_2R_4s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4\right)}{s^3\left(C_1C_3C_4C_6R_1R_4R_5 + C_1C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 - C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$$

10.1560 X-INVALID-ORDER-1560 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_4C_6R_1R_2R_4R_6s^3 + C_3R_2 + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_3C_4C_6R_1R_4R_5 + C_1C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 - C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_3C_4R_2R_4 + C_3C_6R_2R_5 + C_3C_4C_6R_2R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_3C_4C_6R_2R_4 + C_3C_6R_2R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_1C_3C_4R_4R_5 + C_3C_4C_6R_4R_5\right) + s\left(C_1C_3C_4R_4R_5\right) + s\left(C_1C_$$

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10.1561 X-INVALID-ORDER-1561 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_4R_1R_2R_4R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_3C_4C_6R_1R_4R_5R_6 + C_1C_3C_4R_2R_4R_5 + C_1C_3C_4R_1R_4R_5 + C_1C_3
10.1562 X-INVALID-ORDER-1562 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                               H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2\left(C_1C_3C_5R_1R_2R_6 + C_3C_4C_5R_2R_4R_6\right)}{C_1 + C_3 + s^2\left(C_1C_3C_4R_1R_4 + C_1C_3C_4R_2R_4 - C_1C_4C_5R_2R_4\right) + s\left(C_1C_3R_1 + C_1C_3R_2 + C_1C_4R_2 + C_1C_4R_4 - C_1C_5R_2 + C_3C_4R_4\right)}
10.1563 X-INVALID-ORDER-1563 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                    H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_2 + s^2\left(C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_3C_4C_5C_6R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_6\right)}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_1R_4 + C_1C_3C_4C_6R_2R_4 - C_1C_4C_5C_6R_2R_4\right) + s\left(C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_4C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_3C_4C_6R_4\right)}
10.1564 X-INVALID-ORDER-1564 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2\left(C_1C_3C_5R_1R_2R_6 + C_3C_4C_5R_2R_4R_6\right)}{C_1 + C_3 + s^3\left(C_1C_3C_4C_6R_1R_4R_6 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_6R_2R_6 + C_1C_4C_5R_2R_6 + C_1C_4C_6R_2R_6 + C_1C_4C_6R_4R_6 + C_1C_4C_6R
10.1565 X-INVALID-ORDER-1565 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2\left(C_1C_3C_5R_1R_2R_6 + C_3C_4C_5R_2R_4R_6\right)}{C_1 + C_3 + s^3\left(C_1C_3C_4C_5R_1R_4R_5 + C_1C_3C_4C_5R_2R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_5R_2R_5 - C_1C_4C_5R_2R_5 + C_1C_4C_5R_2R_5 + C_1C_4C_5R_4R_5\right) + s\left(C_1C_3R_1 + C_1C_3R_2 + C_1C_4R_2 + C_1C_4R_4 - C_1C_5R_2 + C_1C_4R_5\right)}
10.1566 X-INVALID-ORDER-1566 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4\right)}{C_1C_6 + C_3C_6 + s^3\left(C_1C_3C_4C_5R_1R_4R_5 + C_1C_3C_4C_5R_2R_4R_5\right) + s^2\left(C_1C_3C_4C_6R_1R_4 + C_1C_3C_5C_6R_1R_5 + C_1C_3C_5C_6R_2R_5 - C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_4R_5 + C_3C_4C_5C_6R_4R_5\right) + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 + C_1C_3C_5C_6R_2R_5 - C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_4R_5 + C_3C_4C_5C_6R_4R_5\right) + s\left(C_1C_3C_4C_5R_4R_5 + C_1C_3C_4C_5R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_3C_4C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_3C_4C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_3C_4C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_3C_4C_5C_6R_4R_5\right) + s\left(C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_3C_5C_6R_4R_5
10.1567 X-INVALID-ORDER-1567 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_2 + s^2\left(C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_3C_4C_5C_6R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_6\right)}{C_1C_6 + C_3C_6 + s^3\left(C_1C_3C_4C_5C_6R_1R_4R_5 + C_1C_3C_4C_5C_6R_2R_4 + C_1C_3C_5C_6R_1R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_4C_5C_6R_4R_5 + C_3C_4C_5C_6R_4R_5 + C_3C_4C_5C_6R_4
10.1568 X-INVALID-ORDER-1568 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 + C_3 + s^4 \left( C_1 C_3 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_3 C_4 C_5 R_1 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_4 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_6 + C_1 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_5 C_6 R_2
10.1569 X-INVALID-ORDER-1569 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                  H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_2R_6 + s^2\left(C_1C_3C_4R_1R_2R_4R_6 + C_1C_3C_5R_1R_2R_5R_6 + C_3C_4C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6 + C_3C_5R_2R_5R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_1R_4R_5 + C_1C_3C_4R_2R_4R_5 - C_1C_4C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_5 + C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 - C_1C_5R_2R_5 + C_3C_4R_4R_5\right)}
10.1570 X-INVALID-ORDER-1570 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \frac{1}{C_6 s}\right)
                                                    H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_5s^3 + C_3R_2 + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_3C_4C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4 + C_3C_5R_2R_5\right)}{s^3\left(C_1C_3C_4C_6R_1R_4R_5 + C_1C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_6R_1R_5 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5\right) + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4 + C_3C_5R_2R_5\right)}
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10.1571 X-INVALID-ORDER-1571 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_2 + s^3\left(C_1C_3C_4C_5R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_5C_6R_1R_2R_5R_6 + C_3C_4C_5R_2R_4R_5 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_5R_2R_4R_5 + C_3C_4C_6R_2R_4R_5 + C_3C_4C_6R_4R_5 + C_$

10.1572 X-INVALID-ORDER-1572 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_2R_6 + s^2\left(C_1C_3C_4R_1R_2R_4R_6 + C_1C_3C_5R_1R_2R_5R_6 + C_3C_4C_5R_2R_4R_5R_6\right) + s\left(C_1C_3C_4R_1R_2R_4R_5 + C_1C_3C_4R_1R_2R_4R_5 + C_1C_3C_4R_1R_4R_5 + C_1C_3C_4R_1R_5 + C_1C_3C_4R_1R_5 + C_1C_3C_4R_1R_5 + C_1C_3C_4R_1R_5 + C_1C_3C_4R_1R_5 + C_1C_3$

10.1573 X-INVALID-ORDER-1573 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5\right)}$$

10.1574 X-INVALID-ORDER-1574 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3R_1R_2R_4s + C_3R_2R_4}{s^2\left(C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1575 X-INVALID-ORDER-1575 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_6R_1R_2R_4R_6s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_6R_2R_4R_6\right)}{s^2\left(C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

10.1576 X-INVALID-ORDER-1576 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1 C_3 C_5 R_1 R_2 R_4 R_6 s^2 + C_3 C_5 R_2 R_4 R_6 s}{C_1 R_2 + C_1 R_4 + C_3 R_4 + s \left(C_1 C_3 R_1 R_4 + C_1 C_3 R_2 R_4 + C_1 C_4 R_2 R_4 - C_1 C_5 R_2 R_4 \right)}$$

10.1577 X-INVALID-ORDER-1577 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$$

10.1578 X-INVALID-ORDER-1578 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$$

10.1579 X-INVALID-ORDER-1579 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$C_1C_3C_5R_1R_2R_4R_6s + C_3C_5R_2R_4R_6s$$

 $H(s) = \frac{c_1 c_3 c_5 R_1 R_4 R_5 - c_1 c_3 c_5 R_2 R_4 R_5 - c_1 c_3 c_5 R_5 R_5 - c_1 c_5 R_5 R_5 - c_1$

10.1580 X-INVALID-ORDER-1580 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_4R_5\right)}$$

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10.1581 X-INVALID-ORDER-1581 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                             H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5\right)}{s^2\left(C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.1582 X-INVALID-ORDER-1582 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                       H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^2\left(C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.1583 X-INVALID-ORDER-1583 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)
                                                                                                                      H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_3R_1R_4R_5 - C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_3R_4R_5\right)}
10.1584 X-INVALID-ORDER-1584 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                           H(s) = \frac{C_1C_3R_1R_2R_4s + C_3R_2R_4}{s^2\left(C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_3R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.1585 X-INVALID-ORDER-1585 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                           H(s) = \frac{C_1C_3C_6R_1R_2R_4R_6s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_6R_2R_4R_6\right)}{s^2\left(C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_3R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.1586 X-INVALID-ORDER-1586 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{-C_1C_3C_5C_6R_2R_3R_4R_6s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(-C_1C_3C_5R_2R_3R_4 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_4 + C_1C_3R_2R_4 + C_1C_3R_3R_4 + C_1C_3R
10.1587 X-INVALID-ORDER-1587 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1588 X-INVALID-ORDER-1588 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                            H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5\right)}{-C_1C_3C_5C_6R_2R_3R_4R_5s^3 + s^2\left(C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.1589 X-INVALID-ORDER-1589 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                            H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{-C_1C_3C_5C_6R_2R_3R_4R_5s^3 + s^2\left(C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}
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 $C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)$

 $\frac{C_1C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_2R_4R_6 + s_3C_2R_4R_6 + s_3C_3R_4R_6 + s_$

10.1590 X-INVALID-ORDER-1590 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3R_1R_2s + C_3R_2}{C_1C_3C_4C_6R_2R_3R_5s^3 + s^2\left(C_1C_3C_6R_1R_5 - C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$ **10.1592** X-INVALID-ORDER-1592 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_6R_1R_2R_6s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_6R_2R_6\right)}{C_1C_3C_4C_6R_2R_3R_5s^3 + s^2\left(C_1C_3C_6R_1R_5 - C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$ **10.1593** X-INVALID-ORDER-1593 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_1C_3R_1R_2R_6s + C_3R_2R_6}{C_1C_3C_4C_6R_2R_3R_5R_6s^3 - C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_2R_3R_5 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_5R_6\right) + s\left(C_1C_3R_1R_5 - C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_2R_5 + C_1C_4R_2R_5 - C_1C_6R_2R_6 + C_1C_3C_6R_2R_5R_6\right) + s\left(C_1C_3R_1R_5 - C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_2R_5 + C_1C_4R_2R_5 - C_1C_4R_2R_5 + C_1C_3R_2R_5 + C_1C_3R_2R_5$ **10.1594** X-INVALID-ORDER-1594 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_3C_4C_6R_2R_3R_6 - C_1C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_3C_4R_2R_3 - C_1C_3C_5R_2R_3 + C_1C_3C_6R_1R_6 + C_1C_3C_6R_2R_6 + C_1C_3C_6R_2R_6 + C_1C_3C_6R_2R_6 + C_1C_3C_6R_2R_6\right) + s\left(C_1C_3R_1 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_1C_6R_6 + C_3C_6R_6\right)}$ **10.1595** X-INVALID-ORDER-1595 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1C_3C_4C_5R_2R_3R_5s^3 + C_1 + C_3 + s^2\left(C_1C_3C_4R_2R_3 + C_1C_3C_5R_1R_5 - C_1C_3C_5R_2R_3 + C_1C_3C_5R_2R_5 + C_1C_3C_5R_2R_5 + C_1C_3C_5R_2R_5 + C_1C_3C_5R_2R_5 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_2 - C_1C_5R_2 + C_1C_5R_5 + C_3C_5R_5\right)}$ **10.1596** X-INVALID-ORDER-1596 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ 10.1597 X-INVALID-ORDER-1597 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_5C_6R_2R_6\right)}{C_1C_3C_4C_5C_6R_2R_3R_5s^3 + C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 + C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_6R_2 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_1C_5C_6R_5 + C_3C_5C_6R_3R_5 + C_1C_4C_5C_6R_2R_5 + C_1C_3C_5C_6R_3R_5 + C_1C_4C_5C_6R_3 + C_1C_4C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 + C_1C_5C_6R_3 + C_1C_4C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R$ **10.1598** X-INVALID-ORDER-1598 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_1 C_3 C_5 R_1 R_2 R_6 s}{C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_5 R_6 s^4 + C_1 + C_3 + s^3 \left(C_1 C_3 C_4 C_5 R_2 R_3 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_6 + C_1 C_3 C_5 C_6 R_2 R_5 R_6 + C_1 C_3 C_5 C_6 R_5 R_5 R_6 + C_1 C_5 C_6 R_$ 10.1599 X-INVALID-ORDER-1599 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_2R_5s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_5R_2R_5\right)}{s^3\left(C_1C_3C_4C_6R_2R_3R_5 - C_1C_3C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_3C_6R_1R_5 - C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

10.1591 X-INVALID-ORDER-1591 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

10.1600 X-INVALID-ORDER-1600 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_5R_6s^3 + C_3R_2 + s^2\left(C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_3C_5C_6R_2R_5R_6\right) + s\left(C_1C_3R_1R_2 + C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_3C_4C_6R_2R_3R_5 - C_1C_3C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_3C_6R_1R_5 - C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}$

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H(s) = \frac{C_1C_3C_5R_1R_2R_5R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_5R_2R_5R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_3C_4C_6R_2R_3R_5R_6 - C_1C_3C_5R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_3
10.1602 X-INVALID-ORDER-1602 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4R_1R_2R_4s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4\right)}{s^3\left(C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + S_3C_4C_6R_4R_5 
10.1603 X-INVALID-ORDER-1603 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_6R_1R_2R_4R_6s^3 + C_3R_2 + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_6R_1R_5 - C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_5 + C_1C_4C_6R_4R_5 + C_1C_
10.1604 X-INVALID-ORDER-1604 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_3C_4C_6R_1R_4R_5R_6 - C_1C_3C_4C_6R_2R_3R_4R_6 + C_1C_3C_4C_6R_2R_4R_5R_6 + C_1C_3C_4C_6R_3R_4R_5R_6\right) + s^2\left(C_1C_3C_4R_1R_4R_5 - C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_4R_3R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_5 + C_1C_3C
10.1605 X-INVALID-ORDER-1605 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                  H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2\left(C_1C_3C_5R_1R_2R_6 + C_3C_4C_5R_2R_4R_6\right)}{-C_1C_3C_4C_5R_2R_3R_4s^3 + C_1 + C_3 + s^2\left(C_1C_3C_4R_1R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_3R_4 - C_1C_3C_5R_2R_3 - C_1C_4C_5R_2R_4\right) + s\left(C_1C_3R_1 + C_1C_3R_2 + C_1C_3R_3 + C_1C_4R_4 - C_1C_5R_2 + C_3C_4R_4\right)}
10.1606 X-INVALID-ORDER-1606 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4\right)}{-C_1C_3C_4C_5C_6R_2R_3R_4s^3 + C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_1R_4 + C_1C_3C_4C_6R_2R_4 + C_1C_3C_4C_6R_2R_4 - C_1C_3C_5C_6R_2R_4\right) + s\left(C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_3C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_3C_4C_6R_4\right)}
10.1607 X-INVALID-ORDER-1607 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_2 + s^2\left(C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_3C_4C_5R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_4\right) + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_4\right) + s\left(C_1C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_4 + C_3C_5C_6R_2R_4\right) + s\left(C_1C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_4 + C_3C_5C_6R_2R_4\right) + s\left(C_1C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_4 + C_3C_5C_6R_2R_4\right) + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_4\right) + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_3R_4\right) + s\left(C_1C_3C_4R_3R_4 + C_1C_3C_4C_6R_4 + C_1C_3C_4C_6R_4\right) + s\left(C_1C_3C_4R_4 + C_1C_3C_4R_4 + C_1C_3C_4C_6R_4\right) + s\left(C_1C_3C_4R_4 + C_1C_3C_4R_4\right) + s\left(C_1C_3C_4R_4\right) + s\left
10.1608 X-INVALID-ORDER-1608 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_3R_4 - C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_3R_6 + C_1C_3C_4C_6R_2R_3R_6 + C_1C_3C_4C_6R_2R_3R_6 - C_1C_3C_5C_6R_2R_3R_6 - C_1C_4C_5C_6R_2R_4R_6) + s^2\left(C_1C_3C_4R_1R_4 + C_1C_3C_4R_2R_3 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_4R_4 + C
10.1609 X-INVALID-ORDER-1609 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2(C_1C_3C_5R_1R_2R_6 + C_3C_4C_5R_2R_4R_6)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2\left(C_1C_3C_5R_1R_2R_6 + C_3C_4C_5R_2R_4R_6\right)}{C_1 + C_3 + s^3\left(C_1C_3C_4C_5R_1R_4R_5 - C_1C_3C_4C_5R_2R_3R_4 + C_1C_3C_4C_5R_2R_3R_4 + C_1C_3C_4R_2R_3 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_5R_1R_5 - C_1C_3C_5R_2R_3 + C_1C_3C_5R_2R_5 + C_1C_3C_5R_2R_5 + C_1C_3C_5R_3R_5 + C_1C_3C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 + C_1C_5C_5R_5R_5 
10.1610 X-INVALID-ORDER-1610 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_2 + s(C_1C_3)
H(s) = \frac{-163 \cdot 4 \cdot 3 \cdot R_1 R_2 R_4 s + C_1 C_3 C_4 C_5 R_1 R_4 R_5 - C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_5 R_5 + C_1 C_3 C_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_
```

 $C_1C_3C_5R_1R_2R_5R_6s^2 + C_3R_2R_6 + s(C_1C_3R_1R_2R_6 + C_3C_5R_2R_5R_6)$

10.1601 X-INVALID-ORDER-1601 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

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10.1611 X-INVALID-ORDER-1611 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_1C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_2 + s^2(C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_1C_3C_5C_6R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_1C_3C_5C_6R_1R_5C_6R_5
H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_2 + s^2\left(C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_1C_3C_4C_5C_6R_1R_2R_4 + C_1C_3C_4C_5C_6R_2R_3R_4 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_3C_4C_
10.1612 X-INVALID-ORDER-1612 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1613 X-INVALID-ORDER-1613 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_2R_6 + s^2\left(C_1C_3C_4R_1R_2R_4R_6 + C_1C_3C_5R_1R_2R_5R_6 + C_3C_4C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6 + C_3C_5R_2R_5R_6\right)}{-C_1C_3C_4C_5R_2R_3R_4R_5s^3 - C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_1R_4R_5 - C_1C_3C_4R_2R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_
10.1614 X-INVALID-ORDER-1614 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_5s^3 + C_3R_2 + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_3C_4C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4 + C_3C_5R_2R_5\right)}{-C_1C_3C_4C_5R_2R_3R_4R_5s^4 + s^3\left(C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_
10.1615 X-INVALID-ORDER-1615 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_2 + s^3\left(C_1C_3C_4C_5R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_5C_6R_1R_2R_5R_6 + C_3C_4C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_5R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_4R_4R_5 + C_1C_3C_4C_4C_4R_4R_5 + C_1C_3C_4C_4R_4R_5 + C_1C_3C_4C_4R_4R_5 + C_1C_3C_4C_4R_4R_5 + C_1C_3C_4C_4C_4R_4R
10.1616 X-INVALID-ORDER-1616 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-C_1C_3C_4C_5C_6R_2R_3R_4R_5R_6s^4 - C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(-C_1C_3C_4C_5R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_6 + C_1C_3C_4C_6R_2R_3R_5R_6 + C_1C_3C_4C_6R_3R_4R_5R_6 - C_1C_3C_4C_6R_2R_3R_5R_6 + C_1C_3C_4C_6R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_3R_4R_5R_6 - C_1C_3C_4C_6R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_2R_4R_5R_6 + C_1C_3C_4C_6R_2R_3R_4R_5R_6 - C_1C_3C_4C_6R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_2R_4R_5R_6 + C_1C_3C_4C_6R_4R_4R_5R_6 + C_1C_3C_4C_6R_4R_4R_5R_5 + C_1C_3C_4C_6R_4R_5R_5R_5 + C_1C_3C_4C_5R_5R_5R_5 + C_1C_3C_4C_5R_5R_5R_5 + C_1C_3C_5C_5R_5
10.1617 X-INVALID-ORDER-1617 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ R_3 + \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{1}{C_6 s}\right)
                                                                                                  H(s) = \frac{C_1C_3R_1R_2R_4s + C_3R_2R_4}{C_1C_3C_4C_6R_2R_3R_4R_5s^3 + s^2\left(C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.1618 X-INVALID-ORDER-1618 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                  H(s) = \frac{C_1C_3C_6R_1R_2R_4R_6s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_6R_2R_4R_6\right)}{C_1C_3C_4C_6R_2R_3R_4R_5s^3 + s^2\left(C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
```

10.1619 X-INVALID-ORDER-1619 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6$

 $H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{C_1C_3C_4C_6R_2R_3R_4R_5R_6s^3 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + C_1C_3C_6R_1R_4R_5R_6 - C_1C_3C_6R_2R_3R_4R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5R_5 + C_1C_3C_6R_3R_4R_5 + C_1C$

10.1620 X-INVALID-ORDER-1620 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s + C_3C_5R_2R_4R_6s + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(C_1C_3C_4C_6R_2R_3R_4R_6 - C_1C_3C_5R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_6 + C_1C_3C_6R_4R_4R_6 + C_1$

```
10.1621 X-INVALID-ORDER-1621 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1C_3C_4C_5R_2R_3R_4R_5s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_3C_4R_2R_3R_4 + C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_
10.1622 X-INVALID-ORDER-1622 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
10.1623 X-INVALID-ORDER-1623 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_3C_4C_5C_6R_2R_3R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_4R_5 
10.1624 X-INVALID-ORDER-1624 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 s^4 + C_1 R_2 + C_1 R_4 + C_3 R_4 + s^3 \left( C_1 C_3 C_4 C_5 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_4 R_5 R_6 - C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_3 C_5
10.1625 X-INVALID-ORDER-1625 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
 H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5\right)}{s^3\left(C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4R_5\right) + s\left(-C_1C_6R_4
10.1626 X-INVALID-ORDER-1626 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
 H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{s^3\left(C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(C_1C_3C_6R_2R_4R_5\right) + s\left(C_1C_3C_6R_2R_4R_5\right) + s\left(C_1C_3C_6R_4R_5\right) + s\left(C_1C_3C_6R_4R_5\right
10.1627 X-INVALID-ORDER-1627 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s + C_3R_2R_4R_6 + s(C_1C_3R_1R_2R_4R_5R_6s + C_3R_2R_4R_6 + s(C_1C_3R_1R_2R_4R_5R_6s + C_3R_2R_4R_6 + s(C_1C_3R_1R_2R_4R_5R_6 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R
10.1628 X-INVALID-ORDER-1628 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                              H(s) = \frac{C_1C_3R_1R_2R_3R_4s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right)}
10.1629 X-INVALID-ORDER-1629 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                              H(s) = \frac{C_1C_3C_6R_1R_2R_3R_4R_6s^3 + R_2R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_6R_1R_2R_4R_6 + C_3C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5\right)}
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 $H(s) = \frac{C_1C_3R_1R_2R_3R_4R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6\right)}{R_4R_5 + s^3\left(C_1C_3C_6R_1R_3R_4R_5R_6 + C_1C_3C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_3R_1R_3R_4R_5 + C_1C_6R_1R_4R_5R_6 - C_1C_6R_2R_3R_4R_6 + C_1C_6R_2R_3R_4R_5R_6 + C_1C_6R_3R_4R_5R_6 + C_1C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_6 + C_1C_6R_2R_3R_4R_5R_6 + C_1C_6R_3R_4R_5R_6 + C_1C_6R_3R_4R_5R_6 + C_1C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4R_5 + C_1C_6R_3R_4R_5R_6 + C_1C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4R_5 + C_1C_6R_3R_4R_5R_6 + C_1C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5 - C_1R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5 - C_1R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6 - C_1C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6 - C_1C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5 - C_1R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6\right) +$

10.1630 X-INVALID-ORDER-1630 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

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10.1631 X-INVALID-ORDER-1631 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                               H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_6\right)}{R_4 + s^2\left(C_1C_3R_1R_3R_4 + C_1C_3R_2R_3R_4 - C_1C_5R_2R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_3R_3R_4\right)}
10.1632 X-INVALID-ORDER-1632 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                        H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_3R_4R_6\right) + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_3C_6R_3R_4 + C_3C_6R_3R_4\right)}
10.1633 X-INVALID-ORDER-1633 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_6\right)}{R_4 + s^3\left(C_1C_3C_6R_1R_3R_4R_6 + C_1C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_3R_1R_3R_4 + C_1C_5R_2R_3R_4 + C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_4 + C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_6 + C_1C_6R_3R_4R_6\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4\right)}
10.1634 X-INVALID-ORDER-1634 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_6\right)}{R_4 + s^3\left(C_1C_3C_5R_1R_3R_4R_5 + C_1C_3C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_3R_1R_3R_4 + C_1C_5R_1R_4R_5 - C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_4 + C_1C_5R_3R_4R_5\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 
10.1635 X-INVALID-ORDER-1635 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4\right)}{C_6R_4 + s^3\left(C_1C_3C_5C_6R_1R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_3C_6R_1R_3R_4 + C_1C_5C_6R_1R_4R_5 - C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6
10.1636 X-INVALID-ORDER-1636 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_3R_4R_6\right) + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^3\left(C_1C_3C_5C_6R_1R_3R_4R_5 + C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_3C_6R_1R_3R_4 + C_1C_5C_6R_1R_4R_5 - C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_2R_4R_5\right) + s\left(C_1C_3C_5R_1R_3R_4R_5 + C_1C_5C_6R_2R_3R_4R_5\right) + s\left(C_1C_3C_5R_1R_3R_4R_5 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_3R_4 + C_1C
10.1637 X-INVALID-ORDER-1637 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{R_4 + s^4 \left( C_1 C_3 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_3 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_6 R_2 R_3 R_4 R_6 + C_1 C_5 C_6 R
10.1638 X-INVALID-ORDER-1638 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                                      H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_2R_4R_6 + s^2\left(C_1C_3R_1R_2R_3R_4R_6 + C_1C_5R_1R_2R_4R_5R_6 + C_3C_5R_2R_3R_4R_5R_6\right) + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_3R_1R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_3R_3R_4R_5\right)}
10.1639 X-INVALID-ORDER-1639 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, R_2, \frac{R_3}{C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_{6s}}\right)
                                                                                                                              H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5s^3 + R_2R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_5R_1R_2R_4R_5 + C_3C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_3R_4R_5\right)}
```

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_2R_4 + s^3\left(C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_6 + C_1C_5C_6R_1R_2R_4R_5R_6 + C_3C_5C_6R_2R_3R_4R_5 + C_1C_5R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_$

10.1640 X-INVALID-ORDER-1640 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

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10.1641 X-INVALID-ORDER-1641 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_2R_4R_6 + s^2\left(C_1C_3R_1R_2R_3R_4R_6 + C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_5 + s^2\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6 + C_5R_2R_4R_5 + s^2\left(C_1C_3R_1R_3R_4R_5R_6 + C_1C_5R_2R_3R_4R_5 + c_1C_5R_3R_4R_5 + c_1C_5R_5R_5R_5 + c
10.1642 X-INVALID-ORDER-1642 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                          H(s) = \frac{C_1C_3R_1R_2R_3s^2 + R_2 + s\left(C_1R_1R_2 + C_3R_2R_3\right)}{C_6R_5s + s^3\left(C_1C_3C_6R_1R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_3C_6R_3R_5\right)}
10.1643 X-INVALID-ORDER-1643 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                        H(s) = \frac{C_1C_3C_6R_1R_2R_3R_6s^3 + R_2 + s^2\left(C_1C_3R_1R_2R_3 + C_1C_6R_1R_2R_6 + C_3C_6R_2R_3R_6\right) + s\left(C_1R_1R_2 + C_3R_2R_3 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_3C_6R_1R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_3C_6R_3R_5\right)}
10.1644 X-INVALID-ORDER-1644 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_2R_3R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_3R_2R_3R_6\right)}{R_5 + s^3\left(C_1C_3C_6R_1R_3R_5R_6 + C_1C_3C_6R_2R_3R_5R_6 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_3R_5 + C_1C_6R_2R_3R_6 + C_1C_6R_2R_3R_6 + C_1C_6R_3R_5R_6 + C_1C_6R_5R_5R_6 + C
10.1645 X-INVALID-ORDER-1645 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                  H(s) = \frac{C_1C_3C_5R_1R_2R_3R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_3C_5R_2R_3R_6\right)}{s^2\left(C_1C_3R_1R_3 + C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_3R_3\right) + 1}
10.1646 X-INVALID-ORDER-1646 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                             H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_6s^3 + C_5R_2 + s^2\left(C_1C_3C_5R_1R_2R_3 + C_1C_5C_6R_1R_2R_6 + C_3C_5C_6R_2R_3R_6\right) + s\left(C_1C_5R_1R_2 + C_3C_5R_2R_3 + C_5C_6R_2R_6\right)}{C_6 + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_2R_2 + C_1C_4C_6R_2R_2 - C_1C_5C_6R_2R_2\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_2 + C_2C_6R_2\right)}
10.1647 X-INVALID-ORDER-1647 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                H(s) = \frac{C_1C_3C_5R_1R_2R_3R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_3C_5R_2R_3R_6\right)}{s^3\left(C_1C_3C_6R_1R_3R_6 + C_1C_3C_6R_2R_3R_6 + C_1C_4C_6R_2R_3R_6 - C_1C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3 + C_1C_6R_2R_6 + C_1C_6R_3R_6 + C_3C_6R_3R_6\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_3R_3 + C_6R_6\right) + 1s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_3R_3 + C
10.1648 X-INVALID-ORDER-1648 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                        H(s) = \frac{C_1C_3C_5R_1R_2R_3R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_3C_5R_2R_3R_6\right)}{s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_2R_3 + C_1C_5R_1R_5 - C_1C_5R_2R_3 + C_1C_5R_2R_5 + C_1C_5R_3R_5 + C_3C_5R_3R_5\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_3R_3 + C_5R_5\right) + 1}
10.1649 X-INVALID-ORDER-1649 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_3s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_3C_5R_2R_3\right)}{C_6 + s^3\left(C_1C_3C_5C_6R_1R_3R_5 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_3C_6R_1R_3 + C_1C_3C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_3R_5 + C_3C_5C_6R_3R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_3 + C_3C_6R_3 + C
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10.1650 X-INVALID-ORDER-1650 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_6s^3 + C_5R_2 + s^2\left(C_1C_3C_5R_1R_2R_3 + C_1C_5C_6R_1R_2R_6 + C_3C_5C_6R_2R_3R_6\right) + s\left(C_1C_5R_1R_2 + C_3C_5R_2R_3 + C_5C_6R_2R_3 + C_5C_6R_3R_3 + C_5$

```
10.1651 X-INVALID-ORDER-1651 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
```

 $H(s) = \frac{C_1 C_3 C_5 R_1 R_2 R_3 R_6 s^5}{s^4 \left(C_1 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_3 C_5 R_2 R_3 R_5 + C_1 C_3 C_6 R_1 R_3 R_6 + C_1 C_4 C_5 R_2 R_3 R_6 + C_1 C_5 C_6 R_2 R_5 R_$

10.1652 X-INVALID-ORDER-1652 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_5R_6s^3 + R_2R_6 + s^2\left(C_1C_3R_1R_2R_3R_6 + C_1C_5R_1R_2R_5R_6 + C_3C_5R_2R_3R_5R_6\right) + s\left(C_1R_1R_2R_6 + C_3R_2R_3R_6 + C_5R_2R_5R_6\right)}{R_5 + s^2\left(C_1C_3R_1R_2R_5 + C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5 - C_1C_5R_2R_3R_5\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_3R_3R_5\right)}$

10.1653 X-INVALID-ORDER-1653 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_5s^3 + R_2 + s^2\left(C_1C_3R_1R_2R_3 + C_1C_5R_1R_2R_5 + C_3C_5R_2R_3R_5\right) + s\left(C_1R_1R_2 + C_3R_2R_3 + C_5R_2R_3\right)}{C_6R_5s + s^3\left(C_1C_3C_6R_1R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_3C_6R_3R_5\right)}$

10.1654 X-INVALID-ORDER-1654 $Z(s) = \left(R_1 + \frac{1}{C_{1s}}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_5R_6s^4 + R_2 + s^3\left(C_1C_3C_5R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_3R_6 + C_1C_5C_6R_1R_2R_3R_6 + C_1C_5C_6R_1R_2R_3R_6 + C_1C_5C_6R_1R_2R_3R_6 + C_1C_5C_6R_1R_2R_3R_6 + C_1C_5R_1R_2R_3 + C_1C_5R_1R_$

10.1655 X-INVALID-ORDER-1655 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_5R_6s^3 + R_2R_6 + s^2\left(C_1C_3R_1R_2R_3R_6 + C_1C_5R_1R_2R_5R_6 + C_3C_5R_2R_3R_5R_6\right) + s\left(C_1R_1R_2R_6 + C_3R_2R_3R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_3C_6R_1R_3R_5R_6 + C_1C_3C_6R_2R_3R_5R_6 + C_1C_5C_6R_2R_3R_5R_6\right) + s^2\left(C_1C_3R_1R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_5R_2R_3R_5 + C_1C_6R_2R_3R_6 + C_1C_6R_2R_3R_6 + C_1C_6R_2R_3R_5R_6\right) + s\left(C_1R_1R_2R_6 + C_3R_2R_3R_5 + C_1C_6R_2R_3R_5 + C_1$

10.1656 X-INVALID-ORDER-1656 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $\frac{C_{1}C_{3}C_{4}R_{1}R_{2}R_{3}R_{4}R_{6}s^{3} + R_{2}R_{6} + s^{2}\left(C_{1}C_{3}R_{1}R_{2}R_{3}R_{6} + C_{1}C_{4}R_{1}R_{2}R_{4}R_{6} + C_{3}C_{4}R_{2}R_{3}R_{4}R_{6}\right) + s\left(C_{1}R_{1}R_{2}R_{6} + C_{3}R_{2}R_{3}R_{6} + C_{4}R_{2}R_{4}R_{6}\right)}{R_{5} + s^{3}\left(C_{1}C_{3}C_{4}R_{1}R_{3}R_{4}R_{5} + C_{1}C_{3}R_{1}R_{3}R_{5} + C_{1}C_{4}R_{1}R_{4}R_{5} - C_{1}C_{4}R_{2}R_{3}R_{4} + C_{1}C_{4}R_{2}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{4}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{2}R_{3} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{4}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{2}R_{3} + C_{1}R_{2}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{4}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{2}R_{3} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{5} + C_{1}C_{4}R_{2}R_{3}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{2}R_{3} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{2}R_{3} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{2}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{2}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5} + C_{1}R_{3}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{3}R_{5} + C_{1}R_{5}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{5}R_{5} + C_{1}R_{5}R_{5}\right) + s\left(C_{1}R_{1}R_{5} - C_{1}R_{5}R_{5}$

10.1657 X-INVALID-ORDER-1657 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4R_1R_2R_3R_4s^3 + R_2 + s^2\left(C_1C_3R_1R_2R_3 + C_1C_4R_1R_2R_4 + C_3C_4R_2R_3R_4\right) + s\left(C_1R_1R_2 + C_3R_2R_3 + C_4R_2R_4\right)}{C_6R_5s + s^4\left(C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_4R_4 + C_1C_4C_6R_4R_4 + C_1C_4C_6R_4R_4 + C_1C_4C_6R_4R_4 + C_1C_4C_6R_4R_4 + C_1C_4C_6R_4R_4 + C_1C_$

10.1658 X-INVALID-ORDER-1658 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_{1}C_{3}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}s^{4} + R_{2} + s^{3}\left(C_{1}C_{3}C_{4}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{6} + C_{1}C_{4}C_{6}R_{1}R_{2}R_{4}R_{6} + C_{3}C_{4}C_{6}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{1}R_{2}R_{4} + C_{1}C_$

10.1659 X-INVALID-ORDER-1659 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.1660 X-INVALID-ORDER-1660 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4R_6s^4 + C_5R_2R_6s + s^3\left(C_1C_3C_5R_1R_2R_3R_6 + C_1C_4C_5R_1R_2R_4R_6 + C_3C_4C_5R_2R_3R_4R_6\right) + s^2\left(C_1C_5R_1R_2R_6 + C_3C_5R_2R_3R_6 + C_4C_5R_2R_4R_6\right)}{s^3\left(C_1C_3C_4R_1R_3R_4 + C_1C_3C_4R_2R_3R_4 - C_1C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_2R_3 + C_1C_4R_1R_4 + C_1C_4R_2R_4 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3 + C_3C_4R_3R_4\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_3R_3 + C_4R_4\right) + 1}{s^3\left(C_1C_3C_4R_1R_3R_4 + C_1C_4C_5R_2R_3R_4 + C_1C_4R_2R_4 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3 + C_3C_4R_3R_4\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_3R_3 + C_4R_4\right) + 1}{s^3\left(C_1C_3C_4R_1R_3R_4 + C_1C_4C_5R_2R_3R_4 + C_1C_4R_2R_4 + C_1C_4R_2R_4 + C_1C_4R_3R_4 - C_1C_5R_2R_3 + C_3C_4R_3R_4\right) + s\left(C_1R_1 + C_1R_3 + C_3R_3 + C_3C_4R_3R_4\right) + s\left(C_1R_1 + C_1R_3 + C_3R_3 + C_3R_3$

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10.1661 X-INVALID-ORDER-1661 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4s^3 + C_5R_2 + s^2\left(C_1C_3C_5R_1R_2R_3 + C_1C_4C_5R_1R_2R_4 + C_3C_4C_5R_2R_3R_4\right) + s\left(C_1C_5R_1R_2 + C_3C_5R_2R_3 + C_4C_5R_2R_4\right)}{C_6 + s^3\left(C_1C_3C_4C_6R_1R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_4C_6R_2R_3R_4\right) + s\left(C_1C_3C_4R_1R_3R_4 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_2R_3 + C_3C_4C_6R_3R_4\right) + s\left(C_1C_5R_1R_2 + C_3C_5R_2R_3 + C_4C_5R_2R_4 + C_3C_4C_6R_2R_3 + C_4C_5R_3R_4 + C_
10.1662 X-INVALID-ORDER-1662 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_2 + s^3\left(C_1C_3C_4C_5R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_4C_5C_6R_1R_2R_3 + C_1C_4C_5R_1R_2R_3 + C_1C_4C_5R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_2R_3R_4 + C_3C_5C_6R_2R_3R_4 + C_3C_$

10.1663 X-INVALID-ORDER-1663 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4R_6s^4 + C_5R_2R_6s + s^3\left(C_1C_3C_5R_1R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_3R_4R_5 + C_1C_4C$

10.1664 X-INVALID-ORDER-1664 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $\frac{C_{1}C_{3}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4}R_{6}s^{4}+C_{5}R_{2}R_{6}s+s^{3}\left(C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{6}+C_{1}C_{4}C_{5}R_{1}R_{2}R_{4}R_{6}+C_{3}C_{4}C_{5}R_{2}R_{3}R_{4}+C_{1}C_{4}C_{5}R_{2}R_{3}R_{5}+C_{1}C_{4}C_{5}R_{2}R_{4}R_{5}+C_{1}C_{4}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{3}R_{5}+C_{1}C_{4}C_{5}R_{5}R_{5}R_{5}+C_{1}C_{4}C_{5}R_{5}R_{5}R_{5}\right)+s^{2}\left(C_{1}C_{3}C_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}+C_{1}C_{5}R_{5}+C_{1}C_{5}R_{5}+C_{1}C_{5}R_{5}+C_{1}C_{5}R_{5}+C_{1}C_{5}R_{5}+C_{1}C_{5}R_{5}+C_{1}C_{5}+C_{1}C_{5}R_{5}+C_{1}C_$ $\frac{s^4 \left(C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 R_5\right) + s^3 \left(C_1 C_3 C_4 R_1 R_3 R_4 + C_1 C_3 C_4 R_2 R_3 R_4 + C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_3 C_5 R_2 R_3 R_5 + C_1 C_4 C_5 R_1 R_4 R_5\right)}{s^4 \left(C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_5 R_2 R_3 R_4 R_5\right) + s^3 \left(C_1 C_3 C_4 R_1 R_3 R_4 + C_1 C_3 C_4 R_2 R_3 R_4 + C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_3 C_5 R_2 R_3 R_5 + C_1 C_4 C_5 R_1 R_4 R_5\right)}$

10.1665 X-INVALID-ORDER-1665 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4s^3 + C_5R_2 + s^2(C_1C_3C_4C_5R_1R_3R_4 + C_1C_3C_4C_5R_1R_3R_4 + C_1C_3C_4C_5R_1R_3R_4 + C_1C_3C_4C_5R_2R_3R_4 + C_1C_3C_5C_6R_1R_3R_5 + C_1C_4C_5C_6R_2R_3R_4 +$

10.1666 X-INVALID-ORDER-1666 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_{1}C_{3}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}s^{4} + C_{5}R_{2} + s^{3}\left(C_{1}C_{3}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{6} + C_{1}C_{4}C_{5}C_{6}R_{1}R_{2}R_{4}R_{6} + C_{3}C_{4}C_{5}C_{6}R_{2}R_{2}R_{2}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{3}C_{5}C_{6}R$

10.1667 X-INVALID-ORDER-1667 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{s^5 \left(C_1 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_4 R_5 R_6 - C_1 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_1 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_4 C_5 R_5 R_5 R_6 + C_1 C_4 C_5 R_5$

10.1668 X-INVALID-ORDER-1668 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_{3s+1}}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4R_5R_6s^4 + R_2R_6 + s^3\left(C_1C_3C_4R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_4R_6 + C_1C_4R_1R_2R_4R_6 + C_1C_5R_1R_2R_3R_4R_6 + C_3C_4R_2R_3R_4R_6 + C_3C_5R_2R_3R_4R_5 + C_1C_4R_1R_2R_4R_6 + C_1C_4R_1R_2R_4R_6 + C_1C_5R_1R_2R_3R_4R_6 + C_3C_5R_2R_3R_4R_6 + C_4C_5R_2R_4R_5R_6 + C_4C_5R_2R_4R_5R_6 + C_4C_5R_2R_4R_5R_6 + C_4C_5R_2R_3R_4R_6 + C_4C_5R_4R_4R_6 +$

10.1669 X-INVALID-ORDER-1669 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4R_5s^4 + R_2 + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_5R_1R_2R_3R_5 + C_1C_4C_5R_1R_2R_3R_4 + C_1C_3C_4R_1R_2R_3 + C_1C_4R_1R_2R_4 + C_1C_5R_1R_2R_3 + C_1C_4R_1R_2R_4 + C_1C_5R_1R_2R_5 + C_3C_4R_2R_3R_4 + C_3C_5R_2R_3R_5 + C_4C_5R_2R_3R_4 + C_4C_5R_$

10.1670 X-INVALID-ORDER-1670 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^5 + R_2 + s^4\left(C_1C_3C_4C_5R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_1R_2R_3R_4R_6 + C_1C_4C_5C_6R_1R_2R_3R_4R_5R_6 + C_3C_4C_5C_6R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_5R_1R_2R_3R_4 + C_1C_3C$ $C_{6}R_{5}s + s^{4} (C_{1}C_{3}C_{4}C_{6}R_{1}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{4}C_{6}R_{2}R_{3}R_{4}R_{5} - C_{1}C_{4}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}) + s^{3} (C_{1}C_{3}C_{6}R_{1}R_{3}R_{5} + C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}) + s^{3} (C_{1}C_{3}C_{6}R_{1}R_{3}R_{5} + C_{1}C_{3}C_{6}R_{1}R_{3}R_{5} + C_{1}C_{6}R_{1}R_{3}R_{5}$

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10.1671 X-INVALID-ORDER-1671 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_1C_3C_4C_5R_1R_2R_3R_4R_5R_6s^4 + R_2R_6 + s^3(C_1C_3C_4R_1R_2R_3R_4R_6 + C_1C_3C_4R_1R_2R_3R_4R_6 + C_1C_3C_4R_1R_2R_5R_6 + C_1C_3C_4R_1R_2R_5R_5R_5R_5 + C_1C_3C_4R_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5 + 
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4R_5R_6s^4 + R_2R_6 + s^3\left(C_1C_3C_4R_1R_2R_3R_4R_6 + C_1C_3C_4R_1R_2R_3R_4R_6 + C_1C_3C_4R_1R_3R_4R_5 + C_1C_3C_4R_
10.1672 X-INVALID-ORDER-1672 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                             H(s) = \frac{C_1C_3R_1R_2R_3R_4s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right)}
10.1673 X-INVALID-ORDER-1673 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                             H(s) = \frac{C_1C_3C_6R_1R_2R_3R_4R_6s^3 + R_2R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_6R_1R_2R_4R_6 + C_3C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_3R_4R_5\right)}
10.1674 X-INVALID-ORDER-1674 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_2R_3R_4R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6\right)}{R_4R_5 + s^3\left(C_1C_3C_6R_1R_3R_4R_5R_6 + C_1C_4C_6R_2R_3R_4R_5R_6 + C_1C_4R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_6 + C_1C_6R_2R_3R_4R_5R_6 + C_1C_6R_3R_4R_5R_6 + C_1C_6R_5R_5R_5R_6 + C_1C_6R_5R_5R_5R_6 + C_1C_6R_5R_5R_5R_6 + C_1C_6R_5R_5R_5R_6 + C_1C_6R_5R_5R_5R_6 
10.1675 X-INVALID-ORDER-1675 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                         H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_6\right)}{R_4 + s^2\left(C_1C_3R_1R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_4R_2R_3R_4 - C_1C_5R_2R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_3R_3R_4\right)}
10.1676 X-INVALID-ORDER-1676 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                          H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_3R_4R_6\right) + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4\right)}
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10.1677 X-INVALID-ORDER-1677 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_6\right)}{R_4 + s^3\left(C_1C_3C_6R_1R_3R_4R_6 + C_1C_3C_6R_2R_3R_4R_6 + C_1C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_3R_1R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_6R_2R_3R_6 + C_1C_6R_2R_3R_6 + C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_6\right) + s^2\left(C_1C_3R_1R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_6 + C_1C_6R_2R_3R_4R_6 + C_1C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_3R_1R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_6R_2R_3R_4 + C_1C_6R_3R_4R_6 + C_1C_6R_3R_4R$

10.1678 X-INVALID-ORDER-1678 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_6\right)}{R_4 + s^3\left(C_1C_3C_5R_1R_3R_4R_5 + C_1C_3C_5R_2R_3R_4R_5 + C_1C_5R_2R_3R_4 + C_1C_5R_3R_4R_5 + C_1C_5R_5R$

10.1679 X-INVALID-ORDER-1679 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4\right)}{C_6R_4 + s^3\left(C_1C_3C_5C_6R_1R_3R_4F_5 + C_1C_3C_5C_6R_2R_3R_4F_5 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R$

10.1680 X-INVALID-ORDER-1680 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_3R_4R_6\right) + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4 + C_5C_6R_2R_3R_4 +$

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10.1681 X-INVALID-ORDER-1681 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
```

 $H(s) = \frac{1}{R_4 + s^4 \left(C_1 C_3 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_6 R_2 R_3$

10.1682 X-INVALID-ORDER-1682 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_2R_4R_6 + s^2\left(C_1C_3R_1R_2R_3R_4R_6 + C_1C_5R_1R_2R_4R_5R_6 + C_3C_5R_2R_3R_4R_5R_6\right) + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_3R_1R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_1R_3R_4R_5\right)}$

10.1683 X-INVALID-ORDER-1683 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5s^3 + R_2R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_5R_1R_2R_4R_5 + C_3C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5\right)}$

10.1684 X-INVALID-ORDER-1684 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_2R_4 + s^3\left(C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_5 + C_1C_5C_6R_1R_2R_3R_4R_5 + C_1C_5C_6R_1R_2R_4R_5R_6 + C_3C_5C_6R_2R_3R_4R_5 + C_1C_5R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_3R_4R_5 + C_1C_$

10.1685 X-INVALID-ORDER-1685 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_2R_4R_6 + s^2\left(C_1C_3R_1R_2R_3R_4R_6 + C_1C_5R_1R_2R_4R_5R_6 + C_3C_5R_2R_3R_4R_5R_6\right) + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_3R_3R_4R_5 +$

10.1686 X-INVALID-ORDER-1686 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1 R_1 R_4 R_6 s + R_4 R_6}{s^2 \left(C_1 C_2 R_1 R_4 R_5 + C_1 C_2 R_3 R_4 R_5 \right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5 \right)}$$

10.1687 X-INVALID-ORDER-1687 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 R_1 R_4 s + R_4}{s^3 \left(C_1 C_2 C_6 R_1 R_4 R_5 + C_1 C_2 C_6 R_3 R_4 R_5 \right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5 \right)}$$

10.1688 X-INVALID-ORDER-1688 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_6R_1R_4R_6s^2 + R_4 + s\left(C_1R_1R_4 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

10.1689 X-INVALID-ORDER-1689 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1 R_1 R_4 R_6 s + R_4 R_6}{s^3 \left(C_1 C_2 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_6 R_3 R_4 R_5 R_6\right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 + C_1 C_2 R_3 R_4 R_5 - C_1 C_6 R_3 R_4 R_6 + C_1 C_6 R_3 R_5 R_6 + C_1 C_6 R_4 R_5 R_6\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$$

10.1690 X-INVALID-ORDER-1690 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 - C_1C_5R_3R_4\right)}$$

10.1691 X-INVALID-ORDER-1691
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1 C_5 R_1 R_4 s + C_5 R_4}{s^2 \left(C_1 C_2 C_6 R_1 R_4 + C_1 C_2 C_6 R_3 R_4 - C_1 C_5 C_6 R_3 R_4\right) + s \left(C_1 C_6 R_3 + C_1 C_6 R_4 + C_2 C_6 R_4\right)}$$

10.1692 X-INVALID-ORDER-1692
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_5C_6R_1R_4R_6s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_5C_6R_4R_6\right)}{s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1693 X-INVALID-ORDER-1693 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_4s + C_5R_4}{s^3\left(C_1C_2C_5C_6R_1R_4R_5 + C_1C_2C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5 + C_2C_5C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1694 X-INVALID-ORDER-1694 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_4R_6s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_5C_6R_4R_6\right)}{s^3\left(C_1C_2C_5C_6R_1R_4R_5 + C_1C_2C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_5C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1695 X-INVALID-ORDER-1695 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_5C_6R_1R_4R_5R_6 + C_1C_2C_5R_3R_4R_5 + C_1C_2C_5R_3R_4R_5 + C_1C_2C_6R_3R_4R_6 + C_1C_5C_6R_3R_4R_6 + C_1C_5C_6R_3R_4R_6 + C_1C_5C_6R_3R_4R_6 + C_1C_5C_6R_4R_5R_6 + C_2C_5C_6R_4R_5R_6 + C_2C_5C_6R_4R_$$

10.1696 X-INVALID-ORDER-1696 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_5R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_5R_4R_5R_6\right)}{s^2\left(C_1C_2R_1R_4R_5 + C_1C_2R_3R_4R_5 - C_1C_5R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$$

10.1697 X-INVALID-ORDER-1697 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_5s^2 + R_4 + s\left(C_1R_1R_4 + C_5R_4R_5\right)}{s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

10.1698 X-INVALID-ORDER-1698 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_4R_5R_6s^3 + R_4 + s^2\left(C_1C_5R_1R_4R_5 + C_1C_6R_1R_4R_6 + C_5C_6R_4R_5R_6\right) + s\left(C_1R_1R_4 + C_5R_4R_5 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

10.1699 X-INVALID-ORDER-1699 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_5R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_5R_4R_5R_6\right)}{s^3\left(C_1C_2C_6R_1R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6 - C_1C_5C_6R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_4R_5 + C_1C_2R_3R_4R_5 - C_1C_5R_3R_4R_5 - C_1C_6R_3R_4R_5 + C_1C_6R_4R_5R_6\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$$

10.1700 X-INVALID-ORDER-1700 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1 R_1 R_6 s + R_6}{s^2 \left(C_1 C_2 R_1 R_5 + C_1 C_2 R_3 R_5 + C_1 C_4 R_3 R_5 \right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5 \right)}$$

10.1701 X-INVALID-ORDER-1701
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1 R_1 s + 1}{s^3 \left(C_1 C_2 C_6 R_1 R_5 + C_1 C_2 C_6 R_3 R_5 + C_1 C_4 C_6 R_3 R_5 \right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5 \right)}$$

10.1702 X-INVALID-ORDER-1702
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1 C_6 R_1 R_6 s^2 + s \left(C_1 R_1 + C_6 R_6\right) + 1}{s^3 \left(C_1 C_2 C_6 R_1 R_5 + C_1 C_2 C_6 R_3 R_5 + C_1 C_4 C_6 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5\right)}$$

10.1703 X-INVALID-ORDER-1703
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_1 R_1 R_6 s + R_6}{s^3 \left(C_1 C_2 C_6 R_1 R_5 R_6 + C_1 C_2 C_6 R_3 R_5 R_6 + C_1 C_4 C_6 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 R_1 R_5 + C_1 C_2 R_3 R_5 + C_1 C_4 R_3 R_5 - C_1 C_6 R_3 R_6 + C_1 C_6 R_5 R_6 + C_2 C_6 R_5 R_6\right) + s \left(-C_1 R_3 + C_1 R_5 + C_2 R_5\right)}$$

10.1704 X-INVALID-ORDER-1704
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_1 C_5 R_1 R_6 s + C_5 R_6}{C_1 + C_2 + s \left(C_1 C_2 R_1 + C_1 C_2 R_3 + C_1 C_4 R_3 - C_1 C_5 R_3 \right)}$$

10.1705 X-INVALID-ORDER-1705
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1 C_5 R_1 s + C_5}{s^2 \left(C_1 C_2 C_6 R_1 + C_1 C_2 C_6 R_3 + C_1 C_4 C_6 R_3 - C_1 C_5 C_6 R_3 \right) + s \left(C_1 C_6 + C_2 C_6 \right)}$$

10.1706 X-INVALID-ORDER-1706
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_5C_6R_1R_6s^2 + C_5 + s\left(C_1C_5R_1 + C_5C_6R_6\right)}{s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1707 X-INVALID-ORDER-1707
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_5R_1s + C_5}{s^3\left(C_1C_2C_5C_6R_1R_5 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_5 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1708 X-INVALID-ORDER-1708 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_6s^2 + C_5 + s\left(C_1C_5R_1 + C_5C_6R_6\right)}{s^3\left(C_1C_2C_5C_6R_1R_5 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_5 + C_2C_5C_6R_5\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1709 X-INVALID-ORDER-1709 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_6s + C_5R_6}{C_1 + C_2 + s^3\left(C_1C_2C_5C_6R_1R_5R_6 + C_1C_2C_5C_6R_3R_5R_6 + C_1C_4C_5R_3R_5 + C_1C_2C_5R_3R_5 + C_1C_2C_6R_3R_6 + C_1C_4C_6R_3R_6 + C_1C_5C_6R_3R_6 + C_1C_5C_6R_5R_6 + C_$$

10.1710 X-INVALID-ORDER-1710 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_5R_6s^2 + R_6 + s\left(C_1R_1R_6 + C_5R_5R_6\right)}{s^2\left(C_1C_2R_1R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$$

10.1711 X-INVALID-ORDER-1711 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_5s^2 + s\left(C_1R_1 + C_5R_5\right) + 1}{s^3\left(C_1C_2C_6R_1R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5 - C_1C_5C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1712 X-INVALID-ORDER-1712 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_5R_6s^3 + s^2\left(C_1C_5R_1R_5 + C_1C_6R_1R_6 + C_5C_6R_5R_6\right) + s\left(C_1R_1 + C_5R_5 + C_6R_6\right) + 1}{s^3\left(C_1C_2C_6R_1R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5 - C_1C_5C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1713 X-INVALID-ORDER-1713 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_5R_6s^2 + R_6 + s\left(C_1R_1R_6 + C_5R_5R_6\right)}{s^3\left(C_1C_2C_6R_1R_5R_6 + C_1C_2C_6R_3R_5R_6 + C_1C_4C_6R_3R_5R_6 - C_1C_5C_6R_3R_5R_6\right) + s^2\left(C_1C_2R_1R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_6 + C_1C_6R_5R_6 + C_2C_6R_5R_6\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$$

10.1714 X-INVALID-ORDER-1714 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1C_4R_1R_4R_6s^2 + R_6 + s\left(C_1R_1R_6 + C_4R_4R_6\right)}{s^3\left(C_1C_2C_4R_1R_4R_5 + C_1C_2C_4R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1C_2R_3R_5 - C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_4R_5 + C_2C_4R_4R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$$

10.1715 X-INVALID-ORDER-1715 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_4R_1R_4s^2 + s\left(C_1R_1 + C_4R_4\right) + 1}{s^4\left(C_1C_2C_4C_6R_1R_4R_5 + C_1C_2C_4C_6R_3R_4R_5\right) + s^3\left(C_1C_2C_6R_1R_5 + C_1C_4C_6R_3R_5 - C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5 + C_2C_4C_6R_4R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1716 X-INVALID-ORDER-1716 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_4C_6R_1R_4R_6s^3 + s^2\left(C_1C_4R_1R_4 + C_1C_6R_1R_6 + C_4C_6R_4R_6\right) + s\left(C_1R_1 + C_4R_4 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_4C_6R_1R_4R_5 + C_1C_2C_4C_6R_3R_4R_5\right) + s^3\left(C_1C_2C_6R_1R_5 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_4R_5 + C_2C_4C_6R_4R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1717 X-INVALID-ORDER-1717 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_4R_1R_4R_6s^2 + R_6 + s\left(C_1R_1R_6 + C_4R_4R_6\right)}{s^4\left(C_1C_2C_4C_6R_1R_4R_5R_6 + C_1C_2C_4C_6R_3R_4R_5 + C_1C_2C_4R_3R_4R_5 + C_1C_2C_6R_1R_5R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_4R_5R_6 + C_1C_4C_6R_4R$$

10.1718 X-INVALID-ORDER-1718 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_4C_5R_1R_4s^2 + C_5 + s\left(C_1C_5R_1 + C_4C_5R_4\right)}{s^3\left(C_1C_2C_4C_6R_1R_4 + C_1C_2C_4C_6R_3R_4 - C_1C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_4 - C_1C_5C_6R_3 + C_2C_4C_6R_4\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1719 X-INVALID-ORDER-1719 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_4C_5C_6R_1R_4R_6s^3 + C_5 + s^2\left(C_1C_4C_5R_1R_4 + C_1C_5C_6R_1R_6 + C_4C_5C_6R_4R_6\right) + s\left(C_1C_5R_1 + C_4C_5R_4 + C_5C_6R_6\right)}{s^3\left(C_1C_2C_4C_6R_1R_4 + C_1C_2C_4C_6R_3R_4 - C_1C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_4 - C_1C_5C_6R_3 + C_2C_4C_6R_4\right) + s\left(C_1C_6 + C_2C_6\right)}$$

10.1720 X-INVALID-ORDER-1720 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_4C_5R_1R_4R_6s^2 + C_5R_6 + s\left(C_1C_5R_1R_6 + C_4C_5R_4R_6\right)}{C_1 + C_2 + s^3\left(C_1C_2C_4C_6R_1R_4R_6 + C_1C_2C_4C_6R_3R_4R_6 - C_1C_4C_5C_6R_3R_4R_6\right) + s^2\left(C_1C_2C_4R_1R_4 + C_1C_2C_4R_3R_4 + C_1C_2C_6R_3R_6 + C_1C_4C_6R_3R_6 + C_1C_4C_6R_4R_6 +$$

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 \begin{aligned} & \textbf{10.1721 X-INVALID-ORDER-1721} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ R_6\right) \\ & \frac{C_1 C_4 C_5 R_1 R_4 R_6 s^2 + C_5 R_6 + s \left(C_1 C_5 R_1 R_6 + C_4 C_5 R_4 R_6\right)}{C_1 + C_2 + s^3 \left(C_1 C_2 C_4 C_5 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 + C_1 C_2 C_5 R_3 R_6 + C_1 C_2 C_5 R_3 R_5 - C_1 C_4 C_5 R_3 R_4 + C_1 C_4 C_5 R_3 R_6 + C_1 C_4 C_5 R_3 R_6 + C_1 C_4 C_5 R_4 R_6\right) \\ & \textbf{10.1722 X-INVALID-ORDER-1722} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}\right) \\ & \frac{C_1 C_4 C_5 R_1 R_4 s^2 + C_5 + s \left(C_1 C_5 R_1 + C_4 C_5 R_4 \right) + s \left(C_1 C_2 R_1 + C_1 C_2 R_3 + C_1 C_4 R_5 + C_1 C_4 C_5 R_3 R_6 + C_1 C_4 C_5 R_4 R_5 + C_2 C_4 C_5 R_4 R_5 \right) + s \left(C_1 C_2 R_1 + C_1 C_2 R_3 + C_1 C_4 R_5 + C_1 C_4 R_5 R_5 \right) \\ & \frac{C_1 C_4 C_5 R_1 R_4 s^2 + C_5 + s \left(C_1 C_5 R_1 + C_4 C_5 R_4 \right)}{s^4 \left(C_1 C_2 C_4 C_5 C_6 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_6 R_6 R_4 + C_1 C_2 C_4 C_6 R_3 R_4 + C_1 C_2 C_5 C_6 R_1 R_5 + C_1 C_2 C_5 C_6 R_3 R_5 - C_1 C_4 C_5 C_6 R_3 R_4 + C_1 C_4 C_5 C_6 R_4 R_5 + C_2 C_4 C_5 C_6 R_4 R_5
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10.1724 X-INVALID-ORDER-1724 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\textbf{10.1725} \quad \textbf{X-INVALID-ORDER-1725} \ \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6\right)$ $H(s) = \frac{C_1 C_4 C_5 R_1 R_4 R_5 R_6 s^3 + R_6 + s^2 \left(C_1 C_4 R_1 R_4 R_6 + C_1 C_5 R_1 R_5 R_6 + C_4 C_5 R_4 R_5 R_6\right) + s \left(C_1 R_1 R_6 + C_4 R_4 R_6 + C_5 R_5 R_6\right) }{s^3 \left(C_1 C_2 C_4 R_1 R_4 R_5 + C_1 C_2 C_4 R_3 R_4 R_5 - C_1 C_4 C_5 R_3 R_4 R_5\right) + s^2 \left(C_1 C_2 R_1 R_5 + C_1 C_2 R_3 R_5 - C_1 C_4 R_3 R_4 + C_1 C_4 R_3 R_5 + C_1 C_4 R_4 R_5 - C_1 C_5 R_3 R_5 + C_2 C_4 R_4 R_5\right) + s \left(C_1 R_3 + C_1 R_5 + C_2 R_5\right) }$

 $\textbf{10.1726} \quad \textbf{X-INVALID-ORDER-1726} \ \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \frac{1}{C_6 s}\right) \\ H(s) = \frac{C_1 C_4 C_5 R_1 R_4 R_5 s^3 + s^2 \left(C_1 C_4 R_1 R_4 + C_1 C_5 R_1 R_5 + C_4 C_5 R_4 R_5\right) + s \left(C_1 R_1 + C_4 R_4 + C_5 R_5\right) + 1}{s^4 \left(C_1 C_2 C_4 C_6 R_1 R_4 R_5 + C_1 C_2 C_4 C_6 R_3 R_4 R_5\right) + s^3 \left(C_1 C_2 C_6 R_1 R_5 + C_1 C_2 C_6 R_3 R_5 - C_1 C_4 C_6 R_3 R_4 + C_1 C_4 C_6 R_3 R_5 + C_1 C_4 C_6 R_3 R_5 + C_1 C_4 C_6 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 + C_1 C_6 R_5 + C_2 C_6 R_5\right)}$

 $\textbf{10.1727} \quad \textbf{X-INVALID-ORDER-1727} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ R_3, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6 + \frac{1}{C_6 s}\right) \\ H(s) = \frac{C_1 C_4 C_5 C_6 R_1 R_4 R_5 R_6 s^4 + s^3 \left(C_1 C_4 C_5 R_1 R_4 R_5 + C_1 C_4 C_6 R_1 R_4 R_6 + C_1 C_5 C_6 R_1 R_5 R_6 + C_4 C_5 C_6 R_4 R_5 R_6\right) + s^2 \left(C_1 C_4 R_1 R_4 + C_1 C_5 R_1 R_5 + C_1 C_6 R_1 R_6 + C_4 C_5 R_4 R_5 + C_4 C_6 R_4 R_6 + C_5 C_6 R_5 R_6\right) + s \left(C_1 R_1 + C_4 R_4 + C_5 R_5 + C_6 R_6\right) + 1}{s^4 \left(C_1 C_2 C_4 C_6 R_1 R_4 R_5 + C_1 C_2 C_4 C_6 R_3 R_4 R_5 - C_1 C_4 C_5 C_6 R_3 R_4 R_5\right) + s^3 \left(C_1 C_2 C_6 R_1 R_5 + C_1 C_2 C_6 R_3 R_5 + C_1 C_4 C_6 R_4 R_5\right) + s^2 \left(C_1 C_4 C_5 R_4 R_5 + C_1 C_5 C_6 R_3 R_5 + C_1 C_4 C_6 R_5 R_5\right) + s^2 \left(C_1 C_4 C_5 R_4 R_5 + C_1 C_4 C_6 R_3 R_5 + C_1 C_4 C_6 R_5 R_5 + C_2 C_6 R_5 R_5 \right)$

10.1728 X-INVALID-ORDER-1728 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_4R_5R_6s^3 + R_6 + s^2\left(C_1C_4R_1R_4R_6 + C_1C_5R_1R_5R_6 + C_4C_5R_4R_5R_6\right) + s\left(C_1R_1R_6R_6 + C_4C_5R_4R_5R_6 + C_4C_5R_4R_5R_6\right) + s\left(C_1R_1R_6R_6 + C_4C_5R_3R_4R_5R_6 + C_4C_5R_3R_4R_5R_6 + C_4C_5R_3R_4R_5R_6\right) + s\left(C_1R_1R_6R_6 + C_4C_5R_3R_4R_5R_6 + C_4C_5R_3R_4R_5R_6 + C_4C_5R_3R_4R_5 + C_4C_5R_4R_5R_5 + C_4C_5R_5R_5R_5 + C_4C_5R_5R_5R_$

10.1729 X-INVALID-ORDER-1729 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$ $H(s) = \frac{C_1 R_1 R_4 R_6 s + R_4 R_6}{s^2 \left(C_1 C_2 R_1 R_4 R_5 + C_1 C_2 R_3 R_4 R_5 + C_1 C_4 R_3 R_4 R_5\right) + s \left(-C_1 R_3 R_4 + C_1 R_3 R_5 + C_1 R_4 R_5 + C_2 R_4 R_5\right)}$

 $\textbf{10.1730} \quad \textbf{X-INVALID-ORDER-1730} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{1}{C_6 s}\right)$ $\frac{C_1 R_1 R_4 s + R_4}{s^3 \left(C_1 C_2 C_6 R_1 R_4 R_5 + C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right)}$

$$\textbf{10.1731} \quad \textbf{X-INVALID-ORDER-1731} \ \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1 C_6 R_1 R_4 R_6 s^2 + R_4 + s \left(C_1 R_1 R_4 + C_6 R_4 R_6\right)}{s^3 \left(C_1 C_2 C_6 R_1 R_4 R_5 + C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5 + C_2 C_6 R_4 R_5\right) }$$

10.1732 X-INVALID-ORDER-1732 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.1733 X-INVALID-ORDER-1733 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4\right)}$$

10.1734 X-INVALID-ORDER-1734 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_4s + C_5R_4}{s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1735 X-INVALID-ORDER-1735 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_4R_6s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_5C_6R_4R_6\right)}{s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1736 X-INVALID-ORDER-1736 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_4s + C_5R_4}{s^3\left(C_1C_2C_5C_6R_1R_4R_5 + C_1C_2C_5C_6R_3R_4R_5 + C_1C_4C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$$

10.1737 X-INVALID-ORDER-1737 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_4R_6s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_5C_6R_4R_6\right)}{s^3\left(C_1C_2C_5C_6R_1R_4R_5 + C_1C_2C_5C_6R_3R_4R_5 + C_1C_4C_5C_6R_3R_4 + C_1C_4C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5 + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)\right)}$$

10.1738 X-INVALID-ORDER-1738 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_6s + C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_5C_6R_1R_4R_5R_6 + C_1C_2C_5C_6R_3R_4R_5R_6 + C_1C_2C_5R_3R_4R_5 + C_1C_2C_5R_3R_4R_5 + C_1C_2C_6R_3R_4R_6 + C_1C_2C_6R_3R_4R_6 + C_1C_4C_5R_3R_4R_6 + C_1C_4C_5R_3R_4R_6 + C_1C_5C_6R_3R_4R_6 + C_1C_5C_6R_5R_4R_6 + C_1C_5C_6R_5R_4R_6 + C_1C_5C_6R_5R_6 + C_1C_5C_6R_$$

10.1739 X-INVALID-ORDER-1739 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_5R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_5R_4R_5R_6\right)}{s^2\left(C_1C_2R_1R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_4R_3R_4R_5 - C_1C_5R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$$

10.1740 X-INVALID-ORDER-1740 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5R_1R_4R_5s^2 + R_4 + s\left(C_1R_1R_4 + C_5R_4R_5\right)}{s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 - C_1C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$$

 $\textbf{10.1741} \quad \textbf{X-INVALID-ORDER-1741} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1 C_5 C_6 R_1 R_4 R_5 R_6 s^3 + R_4 + s^2 \left(C_1 C_5 R_1 R_4 R_5 + C_1 C_6 R_1 R_4 R_6 + C_5 C_6 R_4 R_5 R_6\right) + s \left(C_1 R_1 R_4 + C_5 R_4 R_5 + C_6 R_4 R_6\right)}{s^3 \left(C_1 C_2 C_6 R_1 R_4 R_5 + C_1 C_2 C_6 R_3 R_4 R_5 + C_1 C_4 C_6 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_3 R_4 + C_1 C_6 R_3 R_5 + C_1 C_6 R_4 R_5\right)}$

10.1742 X-INVALID-ORDER-1742 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_5R_1R_4R_5R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_5R_4R_5R_6\right)}{s^3\left(C_1C_2C_6R_1R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6 + C_1C_4C_6R_3R_4R_5R_6 - C_1C_5C_6R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_4R_5 + C_1C_4R_3R_4R_5 - C_1C_5R_3R_4R_5 - C_1C_6R_3R_4R_5 + C_1C_6R_4R_5R_5 + C_1C_6R_5R_5R_5 + C_1C_6$

10.1743 X-INVALID-ORDER-1743 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3R_1R_4s + C_3R_4}{C_1C_2C_3C_6R_1R_4R_5s^3 + s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.1744 X-INVALID-ORDER-1744 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_6R_1R_4R_6s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_3C_6R_4R_6\right)}{C_1C_2C_3C_6R_1R_4R_5s^3 + s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.1745 X-INVALID-ORDER-1745 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3R_1R_4R_6s + C_3R_4R_6}{C_1C_2C_3C_6R_1R_4R_5R_6s^3 - C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_6R_4R_5R_6 + C_1C_3C_6R_4R_5R_6 + C_2C_3C_6R_4R_5R_6\right) + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 - C_1C_6R_4R_6 + C_1C_6R_5R_6 + C_2C_3R_4R_5\right)}$$

10.1746 X-INVALID-ORDER-1746 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3C_6R_1R_4R_6s^3 + C_1 + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_6R_4R_6 + C_1C_3C_6R_4R_6 - C_1C_5C_6R_4R_6 + C_2C_3C_6R_4R_6\right) + s\left(C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4\right)}$$

10.1747 X-INVALID-ORDER-1747 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3C_5R_1R_4R_5s^3 + C_1 + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_2C_3C_5R_4R_5\right) + s\left(C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_5R_5 + C_2C_3R_4\right)}$$

10.1748 X-INVALID-ORDER-1748 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4s + C_3C_5R_4}{C_1C_2C_3C_5C_6R_1R_4R_5s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4\right)}$$

10.1749 X-INVALID-ORDER-1749 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_2C_3C_5C_6R_1R_4R_5s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4\right)}$$

10.1750 X-INVALID-ORDER-1750 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3C_5C_6R_1R_4R_5R_6s^4 + C_1 + s^3\left(C_1C_2C_3C_5R_1R_4R_5 + C_1C_2C_5C_6R_4R_5R_6 + C_1C_3C_5C_6R_4R_5R_6 + C_2C_3C_5C_6R_4R_5R_6 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R_5R_5 + C_$$

10.1751 X-INVALID-ORDER-1751
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_5s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_3C_5R_4R_5\right)}{C_1C_2C_3C_6R_1R_4R_5s^3 + s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.1752 X-INVALID-ORDER-1752
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_4R_5R_6s^3 + C_3R_4 + s^2\left(C_1C_3C_5R_1R_4R_5 + C_1C_3C_6R_1R_4R_6 + C_3C_5C_6R_4R_5R_6\right) + s\left(C_1C_3R_1R_4 + C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{C_1C_2C_3C_6R_1R_4R_5s^3 + s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$$

10.1753 X-INVALID-ORDER-1753
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_3C_5R_4R_5R_6\right)}{C_1C_2C_3C_6R_1R_4R_5R_6s^3 - C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_6R_4R_5R_6 + C_1C_5C_6R_4R_5R_6 + C_2C_3C_6R_4R_5R_6\right) + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 - C_1C_5R_4R_5 - C_1C_6R_4R_6 + C_2C_3R_4R_5\right)}$$

10.1754 X-INVALID-ORDER-1754
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1 C_3 R_1 s + C_3}{C_1 C_2 C_3 C_6 R_1 R_5 s^3 - C_1 C_6 s + s^2 \left(C_1 C_2 C_6 R_5 + C_1 C_3 C_6 R_5 + C_1 C_4 C_6 R_5 + C_2 C_3 C_6 R_5 \right)}$$

10.1755 X-INVALID-ORDER-1755
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_6R_1R_6s^2 + C_3 + s\left(C_1C_3R_1 + C_3C_6R_6\right)}{C_1C_2C_3C_6R_1R_5s^3 - C_1C_6s + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$$

10.1756 X-INVALID-ORDER-1756
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{C_1C_3R_1R_6s + C_3R_6}{C_1C_2C_3C_6R_1R_5R_6s^3 - C_1 + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_6R_5R_6 + C_1C_3C_6R_5R_6 + C_1C_4C_6R_5R_6 + C_2C_3C_6R_5R_6\right) + s\left(C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 - C_1C_6R_6 + C_2C_3R_5\right)}$$

10.1757 X-INVALID-ORDER-1757 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1 C_3 C_5 R_1 R_6 s + C_3 C_5 R_6}{C_1 C_2 C_3 R_1 s + C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3}$$

10.1758 X-INVALID-ORDER-1758 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 C_3 C_5 R_1 s + C_3 C_5}{C_1 C_2 C_3 C_6 R_1 s^2 + s \left(C_1 C_2 C_6 + C_1 C_3 C_6 + C_1 C_4 C_6 - C_1 C_5 C_6 + C_2 C_3 C_6 \right)}$$

10.1759 X-INVALID-ORDER-1759 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1 C_3 C_5 C_6 R_1 R_6 s^2 + C_3 C_5 + s \left(C_1 C_3 C_5 R_1 + C_3 C_5 C_6 R_6\right)}{C_1 C_2 C_3 C_6 R_1 s^2 + s \left(C_1 C_2 C_6 + C_1 C_3 C_6 + C_1 C_4 C_6 - C_1 C_5 C_6 + C_2 C_3 C_6\right)}$$

10.1760 X-INVALID-ORDER-1760 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1s + C_3C_5}{C_1C_2C_3C_5C_6R_1R_5s^3 + s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_2C_3C_5C_6R_5\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.1761 X-INVALID-ORDER-1761 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5C_6R_1R_6s^2 + C_3C_5 + s\left(C_1C_3C_5R_1 + C_3C_5C_6R_6\right)}{C_1C_2C_3C_5C_6R_1R_5s^3 + s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_5 + C_2C_3C_5C_6R_5\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$ 10.1762 X-INVALID-ORDER-1762 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ 10.1763 X-INVALID-ORDER-1763 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_5s^2 + C_3 + s\left(C_1C_3R_1 + C_3C_5R_5\right)}{C_1C_2C_3C_6R_1R_5s^3 - C_1C_6s + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$ 10.1764 X-INVALID-ORDER-1764 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5C_6R_1R_5R_6s^3 + C_3 + s^2\left(C_1C_3C_5R_1R_5 + C_1C_3C_6R_1R_6 + C_3C_5C_6R_5R_6\right) + s\left(C_1C_3R_1 + C_3C_5R_5 + C_3C_6R_6\right)}{C_1C_2C_3C_6R_1R_5s^3 - C_1C_6s + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$ 10.1765 X-INVALID-ORDER-1765 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_5R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_3C_5R_5R_6\right)}{C_1C_2C_3C_6R_1R_5R_6s^3 - C_1 + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_6R_5R_6 + C_1C_3C_6R_5R_6 + C_1C_4C_6R_5R_6 + C_2C_3C_6R_5R_6\right) + s\left(C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 - C_1C_6R_6 + C_2C_3R_5\right)}$ **10.1766** X-INVALID-ORDER-1766 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$ $H(s) = \frac{C_1C_3C_4R_1R_4R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_3C_4R_4R_6\right)}{C_1C_2C_3C_4R_1R_4R_5s^3 - C_1 + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_4R_4R_5 + C_1C_3C_4R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_1C_2R_5 + C_1C_3R_5 - C_1C_4R_4 + C_1C_4R_5 + C_2C_3R_5\right)}$ 10.1767 X-INVALID-ORDER-1767 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_4R_1R_4s^2 + C_3 + s\left(C_1C_3R_1 + C_3C_4R_4\right)}{C_1C_2C_3C_4C_6R_1R_4R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$ 10.1768 X-INVALID-ORDER-1768 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_4C_6R_1R_4R_6s^3 + C_3 + s^2\left(C_1C_3C_4R_1R_4 + C_1C_3C_6R_1R_6 + C_3C_4C_6R_4R_6\right) + s\left(C_1C_3R_1 + C_3C_4R_4 + C_3C_6R_6\right)}{C_1C_2C_3C_4C_6R_1R_4R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$

10.1769 X-INVALID-ORDER-1769 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_4R_1R_4R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_3C_4R_4R_6\right)}{C_1C_2C_3C_4C_6R_1R_4R_5R_6s^4 - C_1 + s^3\left(C_1C_2C_3C_4R_1R_4R_5 + C_1C_2C_4C_6R_4R_5R_6 + C_1C_3C_4C_6R_4R_5R_6 + C_1C_3C_4R_4R_5 + C_1C_2C_4R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_5R_5 + C_1C_3C_4R_5R_5 + C_1C_3C_4R_5R_5 + C_1C_3C_4R_5R_5 + C_1C_3C_4R_5R_5$

10.1770 X-INVALID-ORDER-1770 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $C_1 C_3 C_4 C_5 R_1 R_4 s^2 + C_3 C_5 + s \left(C_1 C_3 C_5 R_1 + C_3 C_4 C_5 R_4\right)$

$$H(s) = \frac{C_1C_3C_4C_5R_1R_4s^2 + C_3C_5 + s\left(C_1C_3C_5R_1 + C_3C_4C_5R_4\right)}{C_1C_2C_3C_4C_6R_1R_4s^3 + s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_4C_6R_4 + C_1C_3C_4C_6R_4 + C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

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10.1771 X-INVALID-ORDER-1771 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                   H(s) = \frac{C_1C_3C_4C_5C_6R_1R_4R_6s^3 + C_3C_5 + s^2\left(C_1C_3C_4C_5R_1R_4 + C_1C_3C_5C_6R_1R_6 + C_3C_4C_5C_6R_4R_6\right) + s\left(C_1C_3C_5R_1 + C_3C_4C_5R_4 + C_3C_5C_6R_6\right)}{C_1C_2C_3C_4C_6R_1R_4s^3 + s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_4C_6R_4 + C_1C_3C_4C_6R_4 - C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
10.1772 X-INVALID-ORDER-1772 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_3C_4C_5R_4R_6\right)}{C_1C_2C_3C_4C_6R_1R_4R_6s^3 + C_1C_2 + C_1C_3 + C_1C_4 + C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_1R_4 + C_1C_2C_4C_6R_4R_6 + C_1C_3C_4C_6R_4R_6 + C_1C_3C_4C_6R_4R_6\right) + s\left(C_1C_2C_3R_1 + C_1C_2C_4R_4 + C_1C_2C_6R_6 + C_1C_3C_4R_4 + C_1C_3C_6R_6 + C_1C_3C_4C_6R_4R_6\right)}
10.1773 X-INVALID-ORDER-1773 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_3C_4C_5R_4R_6\right)}{C_1C_2C_3C_4C_5R_1R_4R_5s^3 + C_1C_2 + C_1C_3 + C_1C_4 + C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_1R_4 + C_1C_2C_3C_5R_1R_5 + C_1C_3C_4C_5R_4R_5\right) + s\left(C_1C_2C_3R_1 + C_1C_2C_4R_4 + C_1C_2C_5R_5 + C_1C_3C_4R_4 + C_1C_3C_5R_5 - C_1C_4C_5R_4 + C_1C_4C_
10.1774 X-INVALID-ORDER-1774 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_4s^2 + C_3C_5 + s\left(C_1C_3C_5R_1 + C_3C_4C_5R_4\right)}{C_1C_2C_3C_4C_5C_6R_1R_4R_5s^4 + s^3\left(C_1C_2C_3C_4C_6R_1R_4 + C_1C_2C_3C_5C_6R_1R_5 + C_1C_3C_4C_5C_6R_4R_5 + C_2C_3C_4C_5C_6R_4 + C_1C_2C_3C_6R_4 + C_1C_2C_5C_6R_5 + C_1C_3C_4C_6R_4 + C_1C_3C_5C_6R_5 + C_1C_4C_5C_6R_4 + C
10.1775 X-INVALID-ORDER-1775 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5C_6R_1R_4R_6s^3 + C_3C_5 + s^2\left(C_1C_3C_4C_5R_1R_4 + C_1C_3C_5C_6R_1R_6 + C_3C_4C_5C_6R_4R_6\right) + s\left(C_1C_3C_5R_1 + C_3C_4C_5R_4 + C_3C_5C_6R_6\right)}{C_1C_2C_3C_4C_5C_6R_1R_4R_5s^4 + s^3\left(C_1C_2C_3C_4C_6R_1R_4 + C_1C_2C_3C_5C_6R_1R_5 + C_1C_3C_4C_5C_6R_4R_5\right) + s^2\left(C_1C_2C_3C_4C_5R_4 + C_1C_2C_5C_6R_5 + C_1C_3C_4C_5R_4 + C_1C_3C_5C_6R_4 + C_1C_3C_5C_6R_4 + C_1C_3C_5C_6R_4 + C_1C_3C_5C_6R_5 + C_1C_3C_5C_5C_6R_5 + C_1C_3C_5C_5C_6R_5 + C_1C_
10.1776 X-INVALID-ORDER-1776 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1777 X-INVALID-ORDER-1777 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                     H(s) = \frac{C_1C_3C_4C_5R_1R_4R_5R_6s^3 + C_3R_6 + s^2\left(C_1C_3C_4R_1R_4R_6 + C_1C_3C_5R_1R_5R_6 + C_3C_4C_5R_4R_5R_6\right) + s\left(C_1C_3R_1R_6 + C_3C_4R_4R_6 + C_3C_5R_5R_6\right)}{C_1C_2C_3C_4R_1R_4R_5s^3 - C_1 + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_4R_4R_5 + C_1C_3C_4R_4R_5 - C_1C_4C_5R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_1C_2R_5 + C_1C_3R_5 - C_1C_4R_4 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}
10.1778 X-INVALID-ORDER-1778 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                      H(s) = \frac{C_1C_3C_4C_5R_1R_4R_5s^3 + C_3 + s^2\left(C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_3C_4C_5R_4R_5\right) + s\left(C_1C_3R_1 + C_3C_4R_4 + C_3C_5R_5\right)}{C_1C_2C_3C_4C_6R_1R_4R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_3C_4C_6R_4R_5 - C_1C_4C_5C_6R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 + C_1C_3C_6R_5 - C_1C_4C_6R_4 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}
10.1779 X-INVALID-ORDER-1779 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_5C_6R_1R_4R_5R_6s^4 + C_3 + s^3\left(C_1C_3C_4C_5R_1R_4R_5 + C_1C_3C_4C_6R_1R_4R_6 + C_3C_4C_5R_4R_5 + C_1C_3C_6R_1R_5R_6 + C_3C_4C_5R_4R_5 + C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_1C_3C_4R_1R_6 + C_3C_4C_5R_4R_5 + C_3C_4C_6R_4R_6 + C_3C_4C_6R_4R_6 + C_3C_5C_6R_5R_6\right) + s\left(C_1C_3R_1 + C_3C_4R_4 + C_1C_3C_5R_1R_5 + C_1C_3C_4R_4R_5 + C_1
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 $C_{1}C_{3}C_{4}C_{5}R_{1}R_{4}R_{5}R_{6}s^{3} + C_{3}R_{6} + s^{2}\left(C_{1}C_{3}C_{4}R_{1}R_{4}R_{6} + C_{1}C_{3}C_{5}R_{1}R_{5}R_{6} + C_{3}C_{4}C_{5}R_{4}R_{5}R_{6}\right) + s\left(C_{1}C_{3}R_{1}R_{6} + C_{1}C_{3}C_{5}R_{1}R_{5}R_{6}\right) + s\left(C_{1}C_{3}R_{1}R_{5}R_{6} + C_{2}C_{5}R_{1}R_{5}R_{6}\right) + s\left(C_{1}C_{3}R_{1}R_{5}R_{6} + C_{2}C_{5}R_{5}R_{6}\right) + s\left(C_{1}C_{3}R_{1}R_{5}R_{6}\right) + s\left(C_{1}C_{3}R_{1}R_{5}R_{6}\right) + s\left(C_{1}C_{3}R_{1}R_{5}R_{6}\right) + s\left(C_{1}C_{3}R_{1}R_{5}R_{6}\right) + s\left(C_{1}C_{3}R_{1$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_4R_5R_6s^4 - C_1 + s^3\left(C_1C_2C_3C_4R_1R_4R_5 + C_1C_3C_4R_1R_4R_5 + C_1C_3C_4R_1R_4R_5 + C_1C_3C_4R_4R_5 + C_$

10.1780 X-INVALID-ORDER-1780 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.1781 X-INVALID-ORDER-1781 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3R_1R_4s + C_3R_4}{C_1C_2C_3C_6R_1R_4R_5s^3 + s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$ 10.1782 X-INVALID-ORDER-1782 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_6R_1R_4R_6s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_3C_6R_4R_6\right)}{C_1C_2C_3C_6R_1R_4R_5s^3 + s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$ 10.1783 X-INVALID-ORDER-1783 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_1C_3R_1R_4R_6s + C_3R_4R_6}{C_1C_2C_3C_6R_1R_4R_5R_6s^3 - C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_6R_4R_5R_6 + C_1C_4C_6R_4R_5R_6 + C_1C_4C_6R_4R_5R_6 + C_1C_4C_6R_4R_5 + C_1C_4R_4R_5 + C_1C_$ 10.1784 X-INVALID-ORDER-1784 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3C_6R_1R_4R_6s^3 + C_1 + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_1C_4C_6R_4R_6 - C_1C_5C_6R_4R_6 + C_2C_3C_6R_4R_6\right) + s\left(C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_1C_6R_6 + C_2C_3R_4\right)}$ 10.1785 X-INVALID-ORDER-1785 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1C_2C_3C_5R_1R_4R_5s^3 + C_1 + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5 + C_1C_4C_5R_4R_5 + C_2C_3C_5R_4R_5\right) + s\left(C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_1C_5R_5 + C_2C_3R_4\right)}$ 10.1786 X-INVALID-ORDER-1786 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_4s + C_3C_5R_4}{C_1C_2C_3C_5C_6R_1R_4R_5s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_2C_3C_5C_6R_4R_5 \right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4\right)}$ 10.1787 X-INVALID-ORDER-1787 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_2C_3C_5C_6R_1R_4R_5s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_3C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_5 + C_2C_3C_6R_4\right)}$ 10.1788 X-INVALID-ORDER-1788 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s$ $\frac{ \cup_{1} \cup_{3} \cup_{5} \pi_{1} \pi_{4} \pi_{6} s \ + \cup_{3} \cup_{5} \pi_{4} \pi_{6} s }{ C_{1} C_{2} C_{3} C_{5} R_{1} R_{4} R_{5} + C_{1} C_{2} C_{5} C_{6} R_{4} R_{5} R_{6} + C_{1} C_{3} C_{5} C_{6} R_{4} R_{5} R_{6} + C_{1} C_{2} C_{5} C_{6} R_{4} R_{5$ **10.1789** X-INVALID-ORDER-1789 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_4R_5s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_3C_5R_4R_5\right)}{C_1C_2C_3C_6R_1R_4R_5s^3 + s^2\left(C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

 $\textbf{10.1790} \quad \textbf{X-INVALID-ORDER-1790} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6 + \frac{1}{C_6 s} \right)$ $H(s) = \frac{C_1 C_3 C_5 C_6 R_1 R_4 R_5 R_6 s^3 + C_3 R_4 + s^2 \left(C_1 C_3 C_5 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_6 + C_3 C_5 C_6 R_4 R_5 R_6 \right) + s \left(C_1 C_3 R_1 R_4 + C_3 C_5 R_4 R_5 + C_3 C_6 R_4 R_6 \right) }{C_1 C_2 C_3 C_6 R_1 R_4 R_5 s^3 + s^2 \left(C_1 C_2 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5 + C_1 C_5 C_6 R_4 R_5 + C_2 C_3 C_6 R_4 R_5 \right) + s \left(-C_1 C_6 R_4 + C_1 C_6 R_5 \right) }$

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10.1791 X-INVALID-ORDER-1791 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_3C_5R_4R_5R_6\right)}{C_1C_2C_3C_6R_1R_4R_5R_6s^3 - C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_6R_4R_5R_6 + C_1C_4C_6R_4R_5R_6 + C_1C_5C_6R_4R_5R_6 + C_1C_3C_6R_4R_5R_6 + C_1C_5C_6R_4R_5R_6 + C_1C_5C_6R_4R
10.1792 X-INVALID-ORDER-1792 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                      H(s) = \frac{C_1C_3R_1R_4s + C_3R_4}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}
10.1793 X-INVALID-ORDER-1793 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                      H(s) = \frac{C_1C_3C_6R_1R_4R_6s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}
10.1794 X-INVALID-ORDER-1794 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_4R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_1R_4R_5R_6 + C_1C_2C_3C_6R_3R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_2C_6R_4R_5R_6 + C_1C_3C_6R_4R_5R_6 + C_1C_3C_6R_5R_5R_6 
10.1795 X-INVALID-ORDER-1795 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_6R_1R_4R_6 + C_1C_2C_3C_6R_3R_4R_6 - C_1C_3C_5C_6R_3R_4 + C_1C_2C_3R_1R_4 + C_1C_2C_3R_3R_4 + C_1C_3C_6R_4R_6 - C_1C_3C_6R_4R_6 + C_1C_3C_6R_4R_6 + C_2C_3C_6R_4R_6 + C_2C_3C_
10.1796 X-INVALID-ORDER-1796 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
                    H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_5R_1R_4R_5 + C_1C_2C_3C_5R_3R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_3R_3R_4 + C_1C_2C_5R_4R_5 - C_1C_3C_5R_3R_4 + C_1C_3C_5R_4R_5 + C_2C_3C_5R_4R_5\right) + s\left(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_1C_5R_5 + C_2C_3R_4\right)}
10.1797 X-INVALID-ORDER-1797 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
10.1798 X-INVALID-ORDER-1798 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_4R_5 + C_1C_2C_3C_5C_6R_3R_4 + C_1C_2C_3C_6R_3R_4 + C_1C_3C_5C_6R_3R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_3C_5C_6R_4R_5\right) 
10.1799 X-INVALID-ORDER-1799 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{1}{C_1 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_4 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_5 R_6 + C_1 C_5 C_5 C_6 R$

10.1800 X-INVALID-ORDER-1800 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_4R_5s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_3C_5R_4R_5\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_3R_4R_5 - C_1C_3C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

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10.1801 X-INVALID-ORDER-1801 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                           H(s) = \frac{C_1C_3C_5C_6R_1R_4R_5R_6s^3 + C_3R_4 + s^2\left(C_1C_3C_5R_1R_4R_5 + C_1C_3C_6R_1R_4R_6 + C_3C_5C_6R_4R_5R_6\right) + s\left(C_1C_3R_1R_4 + C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_3R_4R_5 - C_1C_3C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 - C_1C_5C_6R_4R_5\right) + s\left(C_1C_3R_1R_4 + C_3C_5R_4R_5 + C_3C_6R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_1C_3C_6R_4R_5 + C_3C_6R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_1C_3C_6R_4R_5\right) + s\left(C_1C_3R_4R_5 + C_1C_5C_6R_4R_5\right) + s\left(C_1C_3R_4R_5\right) + s\left(C_1C_3R_4R_5\right) + s\left(C_1C_3R_4R_5\right) + s
10.1802 X-INVALID-ORDER-1802 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_1R_4R_5R_6 + C_1C_2C_3C_6R_3R_4R_5R_6 - C_1C_3C_5R_3R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_3C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_5R_6 - C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + 
10.1803 X-INVALID-ORDER-1803 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                           H(s) = \frac{C_1C_3R_1s + C_3}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_3C_6R_3R_5 + C_1C_3C_4C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}
10.1804 X-INVALID-ORDER-1804 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                          H(s) = \frac{C_1C_3C_6R_1R_6s^2 + C_3 + s\left(C_1C_3R_1 + C_3C_6R_6\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_3C_6R_3R_5 + C_1C_3C_4C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}
10.1805 X-INVALID-ORDER-1805 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_6s + C_3R_6}{-C_1 + s^3\left(C_1C_2C_3C_6R_1R_5R_6 + C_1C_2C_3C_6R_3R_5R_6 + C_1C_3C_4R_3R_5 + C_1C_2C_3R_3R_5 + C_1C_2C_6R_5R_6 + C_1C_3C_6R_3R_6 + C_1C_3C_6R_5R_6 + C_1C_3C
10.1806 X-INVALID-ORDER-1806 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                         H(s) = \frac{C_1 C_3 C_5 R_1 R_6 s + C_3 C_5 R_6}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3 + s \left(C_1 C_2 C_3 R_1 + C_1 C_2 C_3 R_3 + C_1 C_3 C_4 R_3 - C_1 C_3 C_5 R_3\right)}
10.1807 X-INVALID-ORDER-1807 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                 H(s) = \frac{C_1C_3C_5R_1s + C_3C_5}{s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_3C_6R_3 + C_1C_3C_4C_6R_3 - C_1C_3C_5C_6R_3\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
```

10.1808 X-INVALID-ORDER-1808
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_6s^2 + C_3C_5 + s\left(C_1C_3C_5R_1 + C_3C_5C_6R_6\right)}{s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_3C_6R_3 + C_1C_3C_4C_6R_3 - C_1C_3C_5C_6R_3\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$$

10.1809 X-INVALID-ORDER-1809
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

10.1810 X-INVALID-ORDER-1810
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

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10.1811 X-INVALID-ORDER-1811 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
```

 $H(s) = \frac{C_1C_3C_5R_1R_6s}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(C_1C_2C_3C_5C_6R_1R_5R_6 + C_1C_2C_3C_5C_6R_3R_5R_6\right) + s^2\left(C_1C_2C_3C_5R_1R_5 + C_1C_2C_3C_6R_1R_6 + C_1C_2C_3C_6R_3R_6 + C_1C_3C_4C_5R_3R_5 + C_1C_3C_5R_3R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C$

10.1812 X-INVALID-ORDER-1812 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_5s^2 + C_3 + s\left(C_1C_3R_1 + C_3C_5R_5\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_3C_6R_3R_5 + C_1C_3C_6R_3R_5 - C_1C_3C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$

10.1813 X-INVALID-ORDER-1813 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_5R_6s^3 + C_3 + s^2\left(C_1C_3C_5R_1R_5 + C_1C_3C_6R_1R_6 + C_3C_5C_6R_5R_6\right) + s\left(C_1C_3R_1 + C_3C_5R_5 + C_3C_6R_6\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_3C_6R_3R_5 + C_1C_3C_4C_6R_3R_5 - C_1C_3C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 - C_1C_5C_6R_5 + C_2C_3C_6R_5\right)}$

10.1814 X-INVALID-ORDER-1814 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_5R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_6R_1R_5R_6 + C_1C_2C_3C_6R_3R_5R_6 + C_1C_3C_4C_6R_3R_5R_6 + C_1C_3C_4R_3R_5 + C_1C_2C_3R_3R_5 + C_1C_3C_4R_3R_5 - C_1C_3C_6R_3R_6 + C_1C_3C_6R_5R_6 + C_1C_3C_6R_5$

10.1815 X-INVALID-ORDER-1815 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_3C_4R_1R_4R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_3C_4R_4R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_4R_1R_4R_5 + C_1C_2C_3C_4R_3R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_3R_3R_5 + C_1C_2C_4R_4R_5 - C_1C_3C_4R_3R_4 + C_1C_3C_4R_4R_5\right) + s\left(C_1C_2R_5 - C_1C_3R_3 + C_1C_3R_5 - C_1C_4R_4 + C_1C_4R_5 + C_2C_3R_5\right)}$

10.1816 X-INVALID-ORDER-1816 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4R_1R_4s^2 + C_3 + s\left(C_1C_3R_1 + C_3C_4R_4\right)}{-C_1C_6s + s^4\left(C_1C_2C_3C_4C_6R_1R_4R_5 + C_1C_2C_3C_4C_6R_3R_4 + C_1C_2C_3C_6R_3R_5 + C_1C_2C_4C_6R_4R_5 - C_1C_3C_4C_6R_3R_4 + C_1C_3C_4C_6R_4R_5 + C_2C_3C_4C_6R_4R_5 + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 - C_1C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5$

10.1817 X-INVALID-ORDER-1817 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_6R_1R_4R_6s^3 + C_3 + s^2\left(C_1C_3C_4R_1R_4 + C_1C_3C_6R_1R_6 + C_3C_4C_6R_4R_6\right) + s\left(C_1C_3R_1 + C_3C_4R_4 + C_3C_6R_6\right)}{-C_1C_6s + s^4\left(C_1C_2C_3C_4C_6R_1R_4R_5 + C_1C_2C_3C_4C_6R_3R_4 + C_1C_3C_4C_6R_3R_4 + C_1C_3C_4C_6R_3R_5 + C_1C_3C_4C_6R_3R_5 + C_1C_3C_4C_6R_3R_5 + C_1C_3C_4C_6R_4R_5 + C_2C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 - C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5\right) + s^2\left(C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_4C_6R_4R_5 + C_$

10.1818 X-INVALID-ORDER-1818 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3}{-C_1 + s^4 \left(C_1C_2C_3C_4C_6R_1R_4R_5R_6 + C_1C_2C_3C_4R_3R_4R_5R_6 + C_1C_2C_3C_4R_3R_4R_5 + C_1C_2C_3C_6R_1R_5R_6 + C_1C_2C_3C_6R_3R_5R_6 + C_1C_2C_4C_6R_4R_5R_6 - C_1C_3C_4C_6R_3R_4R_6 + C_1C_3C_4C_6R_4R_6R_6 + C_1C_3C_4C_6R_4R_6R_6 + C_1C_3C_4C_6R_4R_6R_6 + C_1C_3C_4C_6R_4R_6 + C_1C_3C$

10.1819 X-INVALID-ORDER-1819 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.1820 X-INVALID-ORDER-1820 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_4R_6s^3 + C_3C_5 + s^2\left(C_1C_3C_4C_5R_1R_4 + C_1C_3C_5C_6R_1R_6 + C_3C_4C_5R_4R_6\right) + s\left(C_1C_3C_5R_1 + C_3C_4C_5R_4 + C_3C_5C_6R_6\right)}{s^3\left(C_1C_2C_3C_4C_6R_1R_4 + C_1C_2C_3C_4C_6R_3 + C_1C_2C_4C_6R_4 + C_1C_3C_4C_6R_3 + C_1C_3C_4C_6R_4 + C_1C_3C_5C_6R_3 - C_1C_4C_5C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6R_4\right)}$

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10.1821 X-INVALID-ORDER-1821 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
\frac{C_1 C_3 C_4 C_5 R_1 R_4 R_6 s^2 + C_3 C_5 R_6 + s}{C_1 C_2 C_3 C_4 C_6 R_1 R_4 R_6 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 R_6 - C_1 C_3 C_4 C_5 R_3 R_4 R_6) + s^2 \left(C_1 C_2 C_3 C_4 R_1 R_4 + C_1 C_2 C_3 C_6 R_1 R_6 + C_1 C_2 C_3 C_6 R_3 R_6 + C_1 C_2 C_4 C_6 R_3 R_6 + C_1 C_4 C_4 C_5 R_4 R_6 + C_1 C_4 C_4 C_5 R_4 R_6
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10.1825 **A-INVALID-ORDER-1825** $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $C_1 C_3 C_4 C_5 R_1 R_4 s^2 + C_3 C_5 + s$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_4s^2 + C_3C_5 + s_3}{s^4\left(C_1C_2C_3C_4C_5C_6R_1R_4R_5 + C_1C_2C_3C_4C_5R_3R_4 + C_1C_2C_3C_4C_6R_3R_4 + C_1C_2C_3C_5C_6R_3R_5 + C_1C_2C_4C_5C_6R_3R_5 + C_1C_2C_4C_5C_6R_3R_4 + C_1C_3C_4C_5C_6R_3R_5 + C_1C_3C_4C_5C_6R_5R_5 + C_1C_3C_4C_5C_6R_5R_5 + C_1C_3C_4C_5C_5C_6R_5R_5 + C_1C_3C_4C_5C_5$

10.1824 X-INVALID-ORDER-1824 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_4R_6s^3 + C_3C_5 + s^2\left(C_1C_3C_4C_5R_1R_4 + C_1C_3C_5C_6R_1R_4\right)}{s^4\left(C_1C_2C_3C_4C_5C_6R_1R_4R_5 + C_1C_2C_3C_4C_5C_6R_3R_4 + C_1C_2C_3C_5C_6R_3R_5 + C_1C_2C_3C_5C_6R_3R_5 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_3C_4C_5C_6R_4R_5 + C_1C_3C_4C_5C_6R_3R_4 + C_1C_3C_4C_5C_6R_4R_5 + C_1C_3C_4C_5C_$

10.1825 X-INVALID-ORDER-1825 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^4(C_1C_2C_3C_4C_5C_6R_1R_4R_5R_6 + C_1C_2C_3C_4C_5R_3R_4R_5 + C_1C_2C_3C_4C_5R_3R_4R_5 + C_1C_2C_3C_4C_6R_1R_4R_6 + C_1C_2C_3C_4C_6R_3R_4R_6 + C_1C_2C_3C_4C_6R_3R_4R_6 + C_1C_2C_3C_4C_6R_3R_4R_5 + C_1C_2C_3C_4C_5R_3R_4R_5 + C_1C_2C_3C_4C_6R_3R_4R_6 + C_1C_2C_3C_4C_6R_3R_4R_6 + C_1C_2C_3C_4C_5R_3R_4R_5 + C_1C_2C_3C_4C_5R_3R_4R_5 + C_1C_2C_3C_4C_6R_3R_4R_6 + C_1C_2C_3C_4C_6R_3R_4R_6 + C_1C_2C_3C_4C_5R_3R_4R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2$

10.1826 X-INVALID-ORDER-1826 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_4R_5R_6s^3 + C_3R_6 + s^2\left(C_1C_3C_4R_1R_4R_6 + C_1C_3C_5R_1R_5R_6 + C_3C_4C_5R_4R_5R_6\right) + s\left(C_1C_3R_1R_6 + C_3C_4R_4R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_4R_1R_4R_5 + C_1C_2C_3C_4R_3R_4R_5 - C_1C_3C_4R_3R_4R_5 - C_1C_3C_4R_3R_4 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_$

10.1827 X-INVALID-ORDER-1827 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_4R_5s^3 + C_3 + s^2\left(C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_3C_4C_5R_4R_5\right) + s\left(C_1C_3R_1 + C_3C_4R_4 + C_3C_5R_5\right)}{-C_1C_6s + s^4\left(C_1C_2C_3C_4C_6R_1R_4R_5 + C_1C_2C_3C_4C_6R_3R_4R_5\right) + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_4C_6R_4R_5 - C_1C_3C_4C_6R_3R_4 + C_1C_3C_4C_6R_4R_5 - C_1C_3C_4C_6R_4R_5$

10.1828 X-INVALID-ORDER-1828 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_4R_5R_6s^4 + C_3 + s^3\left(C_1C_3C_4C_5R_1R_4R_5 + C_1C_3C_4C_6R_1R_4R_6 + C_1C_3C_5C_6R_1R_5R_6 + C_3C_4C_5R_4R_5 + C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_1C_3C_4R_1R_4 + C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_1C_3C_4R_1R_4 + C_1C_3C_4R_$

10.1829 X-INVALID-ORDER-1829 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-}{-C_1 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_3 R_4 R_5 R_6 - C_1 C_3 C_4 C_5 C_6 R_3 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_2 C_3 C_4 R_3 R_4 R_5 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 - C_1 C_3 C_4 C_6 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_$

10.1830 X-INVALID-ORDER-1830 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3R_1R_4s + C_3R_4}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

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10.1831 X-INVALID-ORDER-1831 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                          H(s) = \frac{C_1C_3C_6R_1R_4R_6s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_4R_5 - C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}
10.1832 X-INVALID-ORDER-1832 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_4R_6s + C_3R_4R_6}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_1R_4R_5R_6 + C_1C_2C_3C_6R_3R_4R_5R_6 + C_1C_2C_3R_1R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_3C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_5R_6 + C_1C_3C_6R_3R_4R_5R_6 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5 + C_1C_3C_6R
10.1833 X-INVALID-ORDER-1833 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_6R_1R_4R_6 + C_1C_2C_3C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_6 + C_1C_3C_6R_3R_4 + C_1C_3C_
10.1834 X-INVALID-ORDER-1834 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_5R_1R_4R_6s^2 + C_3C_5R_4R_6s}{C_1 + s^3\left(C_1C_2C_3C_5R_1R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_3C_4R_3R_4 + C_1C_2C_3R_3R_4 + C_1C_2C_5R_4R_5 + C_1C_3C_5R_3R_4 + C_1C_3C_5R_3R_5 + C_1C_3C_5R_3R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R_
10.1835 X-INVALID-ORDER-1835 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_4s + C_3C_5R_4}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_4R_5 + C_1C_2C_3C_5C_6R_3R_4R_5 + C_1C_3C_5C_6R_3R_4 + C_1C_2C_3C_6R_3R_4 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_4R_5 + C_1C_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_1C_3C_5R_1R_4s + C_3C_5R_4
10.1836 X-INVALID-ORDER-1836 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_4R_5 + C_1C_2C_3C_5C_6R_3R_4R_5 + C_1C_3C_5C_6R_3R_4 + C_1C_3C_5C_6R_4R_5 
10.1837 X-INVALID-ORDER-1837 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 + s^4 \left( C_1 C_2 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_3 R_4 R_5 + C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_4 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_3 R_4 R_6 + C_1 C_2 C_3 C_6 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_3 R_4 R_5 + C_1 C_3 C_6 R_5 R_5 + C_1 C_5 C_6 R_5 R_5 + C_1 C
10.1838 X-INVALID-ORDER-1838 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                      H(s) = \frac{C_1C_3C_5R_1R_4R_5s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_3C_5R_4R_5\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_4R_5 + C_1C
10.1839 X-INVALID-ORDER-1839 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                      H(s) = \frac{C_1C_3C_5C_6R_1R_4R_5R_6s^3 + C_3R_4 + s^2\left(C_1C_3C_5R_1R_4R_5 + C_1C_3C_6R_1R_4R_6 + C_3C_5C_6R_4R_5R_6\right) + s\left(C_1C_3R_1R_4 + C_3C_5R_4R_5 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_4R_5 + C_1C_3
10.1840 X-INVALID-ORDER-1840 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $\frac{C_1C_3C_5R_1R_4R_5R_6 + C_1C_3C_6R_3R_4R_5R_6 + C_1C_3R_1R_4R_6 + C_3C_5R_3R_4R_5 + C_3R_4R_6 + C_3C_5R_3R_4R_5 + C_3R_4R_6 + C_3R_3R_4R_5 + C_3R_4R_5R_6 + C_3R_3R_4R_5 + C_3R_3R_4R_$

 $C_1C_3C_5R_1R_4R_5R_6s^2 + C_3R_4R_6 + s(C_1C_3R_1R_4R_6 + C_3C_5R_4R_6)$

 $H(s) = \frac{C_1C_3R_1R_3R_4s^2 + R_4 + s\left(C_1R_1R_4 + C_3R_3R_4\right)}{C_1C_2C_3C_6R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$ **10.1843** X-INVALID-ORDER-1843 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_6R_1R_3R_4R_6s^3 + R_4 + s^2\left(C_1C_3R_1R_3R_4 + C_1C_6R_1R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_1R_1R_4 + C_3R_3R_4 + C_6R_4R_6\right)}{C_1C_2C_3C_6R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$ **10.1844** X-INVALID-ORDER-1844 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_1C_3R_1R_3R_4R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_6\right)}{C_1C_2C_3C_6R_1R_3R_4R_5R_6s^4 + s^3\left(C_1C_2C_3R_1R_3R_4R_5 + C_1C_2C_6R_1R_4R_5R_6 + C_1C_3C_6R_3R_4R_5R_6 + C_2C_3C_6R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_6R_3R_4R_6 + C_1C_6R_3R_4R_6 + C_1C_6R_3R_4R_6 + C_1C_6R_3R_4R_6\right)}$ **10.1845** X-INVALID-ORDER-1845 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_3R_4s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_3C_5R_3R_4\right)}{C_1C_2C_3C_6R_1R_3R_4s^3 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}$ **10.1846** X-INVALID-ORDER-1846 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5C_6R_1R_3R_4R_6s^3 + C_5R_4 + s^2\left(C_1C_3C_5R_1R_3R_4 + C_1C_5C_6R_1R_4R_6 + C_3C_5C_6R_3R_4R_6\right) + s\left(C_1C_5R_1R_4 + C_3C_5R_3R_4 + C_5C_6R_4R_6\right)}{C_4C_5C_6C_6R_1R_2R_4s^3 + s^2\left(C_4C_2C_6R_1R_4 + C_4C_2C_6R_3R_4 + C_4C_3C_6R_3R_4 + C_4C_3C_5C_6R_3R_4 + C_4C_3C_5C_6R_3R_4 + C_4C_3C_5C_6R_3R_4 + C_4C_5C_6R_3R_4 + C_4C_5C_5C_6R_3R_4 + C_4C_5C_5C_6R_3R_4 + C_4C_5C_5C_6$ 10.1847 X-INVALID-ORDER-1847 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1C_2C_3C_6R_1R_3R_4R_6s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_6R_1R_4R_6 + C_1C_3C_6R_3R_4R_6 + C_1C_3C_6R_3R_4R_6\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 + C_1C_5R_3R_4 + C_1C_6R_3R_6 + C_1C_6R_4R_6 + C_2C_3C_6R_3R_4R_6\right)}$ **10.1848** X-INVALID-ORDER-1848 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_1C_3C_5R_1R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1C_2C_3C_5R_1R_3R_4R_5s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_5R_1R_4R_5 + C_1C_3C_5R_3R_4R_5 + C_1C_3C_5R_3R_4R_5\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_3R_5 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_3R_4 + C_1C_$ **10.1849** X-INVALID-ORDER-1849 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5R_1R_3R_4s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_3C_5R_3R_4\right)}{C_1C_2C_3C_5C_6R_1R_3R_4 + S^4 + s^3\left(C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_3R_4R_5 + C_2C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6$ **10.1850** X-INVALID-ORDER-1850 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1C_3C_5C_6R_1R_3R_4R_6s^3 + C_5R_4 + s^2\left(C_1C_3C_5R_1R_3R_4 + C_1C_5C_6R_3R_4R_6\right) + s\left(C_1C_5R_1R_4 + C_3C_5R_3R_4 + C_5C_6R_4R_6\right)}{C_1C_2C_3C_5C_6R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_5C_6R_3R_4 +$ 395

 $H(s) = \frac{C_1C_3R_1R_3R_4R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_6\right)}{C_1C_2C_3R_1R_3R_4R_5s^3 + s^2\left(C_1C_2R_1R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$

10.1841 X-INVALID-ORDER-1841 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)$

10.1842 X-INVALID-ORDER-1842 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)$

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10.1851 X-INVALID-ORDER-1851 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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10.1852 X-INVALID-ORDER-1852 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_3R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_1C_3R_1R_3R_4R_6 + C_1C_5R_1R_4R_5R_6 + C_3C_5R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_6 + C_5R_4R_5R_6\right)}{C_1C_2C_3R_1R_3R_4R_5s^3 + s^2\left(C_1C_2R_1R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 - C_1C_5R_3R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$

10.1853 X-INVALID-ORDER-1853 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_3R_4R_5s^3 + R_4 + s^2\left(C_1C_3R_1R_3R_4 + C_1C_5R_1R_4R_5 + C_3C_5R_3R_4R_5\right) + s\left(C_1R_1R_4 + C_3R_3R_4 + C_5R_4R_5\right)}{C_1C_2C_3C_6R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1854 X-INVALID-ORDER-1854 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_3R_4R_5R_6s^4 + R_4 + s^3\left(C_1C_3C_5R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_6 + C_1C_5C_6R_1R_4R_5R_6 + C_3C_5C_6R_3R_4R_5 + C_1C_5R_1R_4R_5 + C_1C_5R_1R_4R_5 + C_1C_5R_1R_4R_5 + C_1C_5R_1R_4R_5 + C_1C_5R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_3C_6R_$

10.1855 X-INVALID-ORDER-1855 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_3R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_1C_3R_1R_3R_4R_5 + C_1C_5R_1R_4R_5R_6 + C_3C_5R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_6 + C_5R_4R_5R_6\right)}{C_1C_2C_3C_6R_1R_3R_4R_5R_6s^4 + s^3\left(C_1C_2C_3R_1R_3R_4R_5 + C_1C_2C_6R_1R_4R_5R_6 + C_1C_5C_6R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_5R_3R_4R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_$

10.1856 X-INVALID-ORDER-1856 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1C_3R_1R_3R_6s^2 + R_6 + s\left(C_1R_1R_6 + C_3R_3R_6\right)}{C_1C_2C_3R_1R_3R_5s^3 + s^2\left(C_1C_2R_1R_5 + C_1C_2R_3R_5 + C_1C_3R_3R_5 + C_1C_4R_3R_5 + C_2C_3R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$$

10.1857 X-INVALID-ORDER-1857 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3R_1R_3s^2 + s\left(C_1R_1 + C_3R_3\right) + 1}{C_1C_2C_3C_6R_1R_3R_5s^4 + s^3\left(C_1C_2C_6R_1R_5 + C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_2C_3C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1858 X-INVALID-ORDER-1858 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_6R_1R_3R_6s^3 + s^2\left(C_1C_3R_1R_3 + C_1C_6R_1R_6 + C_3C_6R_3R_6\right) + s\left(C_1R_1 + C_3R_3 + C_6R_6\right) + 1}{C_1C_2C_3C_6R_1R_3R_5s^4 + s^3\left(C_1C_2C_6R_1R_5 + C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_2C_3C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$$

10.1859 X-INVALID-ORDER-1859 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3R_1R_3R_6s^2 + R_6 + s\left(C_1R_1R_6 + C_3R_3R_6\right)}{C_1C_2C_3C_6R_1R_3R_5R_6s^4 + s^3\left(C_1C_2C_3R_1R_3R_5 + C_1C_2C_6R_1R_5R_6 + C_1C_3C_6R_3R_5R_6 + C_1C_4C_6R_3R_5R_6 + C_1C_4C_6R_3R_5R_6 + C_1C_4C_6R_3R_5R_6 + C_1C_4C_6R_3R_5R_6 + C_1C_4R_3R_5 + C_1C_4R_3R_5$

10.1860 X-INVALID-ORDER-1860 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_3s^2 + C_5 + s\left(C_1C_5R_1 + C_3C_5R_3\right)}{C_1C_2C_3C_6R_1R_3s^3 + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_2C_3C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}$$

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10.1861 X-INVALID-ORDER-1861 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                         H(s) = \frac{C_1C_3C_5C_6R_1R_3R_6s^3 + C_5 + s^2\left(C_1C_3C_5R_1R_3 + C_1C_5C_6R_1R_6 + C_3C_5C_6R_3R_6\right) + s\left(C_1C_5R_1 + C_3C_5R_3 + C_5C_6R_6\right)}{C_1C_2C_3C_6R_1R_3s^3 + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_3C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_2C_3C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}
10.1862 X-INVALID-ORDER-1862 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
            H(s) = \frac{C_1C_3C_5R_1R_3R_6s^2 + C_5R_6 + s\left(C_1C_5R_1R_6 + C_3C_5R_3R_6\right)}{C_1C_2C_3C_6R_1R_3R_6s^3 + C_1 + C_2 + s^2\left(C_1C_2C_3R_1R_3 + C_1C_2C_6R_1R_6 + C_1C_3C_6R_3R_6 + C_1C_4C_6R_3R_6 + C_1C_5C_6R_3R_6 + C_2C_3C_6R_3R_6\right) + s\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_3R_3 + C_1C_5R_3 + C_1C_6R_6 + C_2C_3R_3 + C_2C_6R_6\right)}
10.1863 X-INVALID-ORDER-1863 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                      H(s) = \frac{C_1C_3C_5R_1R_3R_6s^2 + C_5R_6 + s\left(C_1C_5R_1R_6 + C_3C_5R_3R_6\right)}{C_1C_2C_3C_5R_1R_3R_5s^3 + C_1 + C_2 + s^2\left(C_1C_2C_3R_1R_3 + C_1C_2C_5R_1R_5 + C_1C_2C_5R_3R_5 + C_1C_4C_5R_3R_5 + C_2C_3C_5R_3R_5\right) + s\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_3R_3 + C_1C_5R_3 + C_1C_5R_3 + C_1C_5R_3 + C_2C_5R_5\right)}
10.1864 X-INVALID-ORDER-1864 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_3s^2 + C_5 + s\left(C_1C_5R_1 + C_3C_5R_3\right)}{C_1C_2C_3C_5C_6R_1R_3R_5s^4 + s^3\left(C_1C_2C_3C_6R_1R_3 + C_1C_2C_5C_6R_1R_5 + C_1C_3C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5 + C_2C_3C_5C_6R_3R_5 + C_1C_4C_6R_3 + C_1C_4C_6R_3 + C_1C_4C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R
10.1865 X-INVALID-ORDER-1865 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_3R_6s^3 + C_5 + s^2\left(C_1C_3C_5R_1R_3 + C_1C_5C_6R_1R_6 + C_3C_5C_6R_3R_6\right) + s\left(C_1C_5R_1 + C_3C_5R_3 + C_5C_6R_6\right)}{C_1C_2C_3C_5C_6R_1R_3R_5s^4 + s^3\left(C_1C_2C_3C_6R_1R_3 + C_1C_2C_5C_6R_1R_5 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_1C_5C_6R_3 +
10.1866 X-INVALID-ORDER-1866 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                          10.1867 X-INVALID-ORDER-1867 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                                                        H(s) = \frac{C_1C_3C_5R_1R_3R_5R_6s^3 + R_6 + s^2\left(C_1C_3R_1R_3R_6 + C_1C_5R_1R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_1R_1R_6 + C_3R_3R_6 + C_5R_5R_6\right)}{C_1C_2C_3R_1R_3R_5s^3 + s^2\left(C_1C_2R_1R_5 + C_1C_2R_3R_5 + C_1C_3R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5 + C_2C_3R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}
10.1868 X-INVALID-ORDER-1868 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                          H(s) = \frac{C_1C_3C_5R_1R_3R_5s^3 + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_5 + C_3C_5R_3R_5\right) + s\left(C_1R_1 + C_3R_3 + C_5R_5\right) + 1}{C_1C_2C_3C_6R_1R_3R_5s^4 + s^3\left(C_1C_2C_6R_1R_5 + C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 - C_1C_5C_6R_3R_5 + C_2C_3C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}
10.1869 X-INVALID-ORDER-1869 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                           H(s) = \frac{C_1C_3C_5C_6R_1R_3R_5R_6s^4 + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3C_6R_1R_3R_6 + C_1C_5C_6R_1R_5R_6 + C_3C_5C_6R_3R_5R_6\right) + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_5 + C_1C_6R_1R_6 + C_3C_5R_3R_5 + C_3C_6R_3R_6 + C_5C_6R_3R_6\right) + s\left(C_1R_1 + C_3R_3 + C_5R_5 + C_6R_6\right) + s\left(C_1R_1 + C_3R_3 + C_5R_5 + C_6R_5\right) + s\left(C_1R_1 + C_3R_3 + C_5R_5 + C_5R_5\right) + s\left(C_1R_1 + C_3R_3 + C_5R_5\right) + s\left(C_1R_1 + C_3R_5\right) + s\left(C_1R_1 + C_3R_5\right) + s\left(C_1R_1 
10.1870 X-INVALID-ORDER-1870 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_1C_3C_5R_1R_3R_5R_6s^3 + R_6 + s^2\left(C_1C_3R_1R_3R_6 + C_1C_5R_1R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_1R_1R_6 + C_3R_3R_6 + C_5R_5R_6\right)}{C_1C_2C_3C_6R_1R_3R_5R_6s^4 + s^3\left(C_1C_2C_3R_1R_3R_5 + C_1C_2C_6R_1R_5R_6 + C_1C_2C_6R_3R_5R_6 + C_1C_4C_6R_3R_5R_6 + C_1C_4C_6R_3R_5R_6\right) + s^2\left(C_1C_2R_1R_5 + C_1C_2R_3R_5 + C_1C_3R_3R_5 + C_1C_5R_3R_5 - C_1C_5R_3R_5 + C_1C_5R_3R_5 + C_1C_4R_3R_5 +$

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10.1871 X-INVALID-ORDER-1871 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_1C_3C_4R_1R_3R_4R_6s^3 + R_6 + s^2\left(C_1C_3R_1R_3R_6 + C_1C_4R_1R_4R_6 + C_3C_4R_3R_4R_6\right) + s\left(C_1R_1R_6 + C_3R_3R_6 + C_4R_4R_6\right)}{C_1C_2C_3C_4R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_3R_1R_3R_5 + C_1C_2C_4R_1R_4R_5 + C_1C_2C_4R_3R_4R_5 + C_1C_3C_4R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_4R_5 + C_2C_3R_3R_5 + C_2C_4R_4R_5\right) + s\left(C_1R_1R_6 + C_3R_3R_6 + C_4R_4R_6\right)}
10.1872 X-INVALID-ORDER-1872 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4R_1R_3R_4s^3 + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_3C_4R_3R_4\right) + s\left(C_1R_1 + C_3R_3 + C_4R_4\right) + 1}{C_1C_2C_3C_4C_6R_1R_3R_4R_5s^5 + s^4\left(C_1C_2C_3C_6R_1R_3R_5 + C_1C_2C_4C_6R_1R_4R_5 + C_1C_3C_4C_6R_3R_4R_5\right) + s^3\left(C_1C_2C_6R_1R_5 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5R_5 + C_1C_4C_6R_5 + C_1C_4C_6R
10.1873 X-INVALID-ORDER-1873 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_6R_1R_3R_4R_6s^4 + s^3\left(C_1C_3C_4R_1R_3R_4 + C_1C_3C_6R_1R_3R_6 + C_1C_4C_6R_1R_4R_6 + C_3C_4C_6R_3R_4R_6\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_6R_1R_6 + C_3C_4R_3R_4 + C_3C_6R_3R_6 + C_4C_6R_4R_6\right) + s\left(C_1R_1 + C_3R_3 + C_4R_4R_6\right) + s\left(C_1R_1 + C_3R_3R_4R_6\right) + s\left(C_1R_1 + C_3R_3R_4\right) + s\left(C_1R_1 + C_3R_3R_4\right) + s\left(C_1R_1 + C_3R_3R_4\right) + s\left(C_1R_1 + C_3R_3R_4\right) + s\left(C_1R_1 + C_3R_4R_4\right) + s\left(C_1R_1 + C_3R_4R_4\right) + s\left(C_1R_1 + C_3R_4R_4\right) + s\left(C_
10.1874 X-INVALID-ORDER-1874 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1875 X-INVALID-ORDER-1875 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                         H(s) = \frac{C_1C_3C_4C_5R_1R_3R_4R_6s^3 + C_5R_6 + s^2\left(C_1C_3C_5R_1R_3R_6 + C_1C_4C_5R_1R_4R_6 + C_3C_4C_5R_3R_4R_6\right) + s\left(C_1C_5R_1R_6 + C_3C_5R_3R_6 + C_4C_5R_4R_6\right)}{C_1C_2C_3C_4R_1R_3R_4s^3 + C_1 + C_2s^2\left(C_1C_2C_3R_1R_3 + C_1C_2C_4R_1R_4 + C_1C_2C_4R_3R_4 + C_1C_4C_5R_3R_4 + C_2C_3C_4R_3R_4\right) + s\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_3R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_2C_3R_4\right)}
10.1876 X-INVALID-ORDER-1876 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                            \frac{C_{1}C_{3}C_{4}C_{5}R_{1}R_{3}R_{4}s^{3}+C_{5}+s^{2}\left(C_{1}C_{3}C_{5}R_{1}R_{3}+C_{1}C_{4}C_{5}R_{1}R_{4}+C_{3}C_{4}C_{5}R_{3}R_{4}\right)+s\left(C_{1}C_{5}R_{1}+C_{3}C_{5}R_{3}+C_{4}C_{5}R_{4}\right)}{C_{1}C_{2}C_{3}C_{4}C_{6}R_{1}R_{3}+C_{1}C_{2}C_{4}C_{6}R_{1}R_{4}+C_{1}C_{2}C_{4}C_{6}R_{3}R_{4}+C_{1}C_{4}C_{5}C_{6}R_{3}R_{4}+C_{2}C_{3}C_{4}C_{6}R_{3}R_{4}+C_{2}C_{3}C_{4}C_{6}R_{3}R_{4}+C_{2}C_{3}C_{4}C_{6}R_{3}R_{4}+C_{2}C_{3}C_{4}C_{6}R_{3}R_{4}+C_{2}C_{3}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}C_{4}C_{6}R_{3}+C_{1}
10.1877 X-INVALID-ORDER-1877 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                           \frac{C_1C_3C_4C_5C_6R_1R_3R_4R_6s^4 + C_5 + s^3\left(C_1C_3C_4C_5R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_6 + C_1C_4C_5C_6R_1R_4R_6 + C_3C_4C_5R_1R_3 + C_1C_4C_5R_1R_4 + C_1C_5C_6R_1R_4 + 
10.1878 X-INVALID-ORDER-1878 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_1C_3C_4C_5R_1R_3R_4R_6s^3 + C_5R_6 + s^2(C_1C_3C_5R_1R_3R_6 + s^2)
10.1879 X-INVALID-ORDER-1879 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
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10.1880 X-INVALID-ORDER-1880 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_3R_4R_6s^5 + C_5R_6 + s^2\left(C_1C_3C_5R_1R_3R_6 + C_1C_4C_5R_1R_4R_6 + C_1C_4C_5R_1R_4R_$

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10.1881 X-INVALID-ORDER-1881 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
```

 $C_1C_3C_4C_5C_6R_1R_3R_4R_6s^4 + C_5 + s^3(C_1C_3C_4C_5R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_6 + C_1C_4C_5C_6R_1R_4$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_3R_4R_6s^4 + C_5 + s^3\left(C_1C_3C_4C_5R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_6 + C_1C_4C_5C_6R_1R_4R_5 + C_1C_2C_4C_5C_6R_1R_3R_4 + C_1C_2C_4C_5C_6R_1R_4R_5 + C_1C_4C_5C_6R_1R_4R_5 + C_1C_4C_5C_6R_1R_4R_$

10.1882 X-INVALID-ORDER-1882 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.1883 X-INVALID-ORDER-1883 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_3R_4R_5R_6s^4 + R_6 + s^3\left(C_1C_3C_4R_1R_3R_4R_6 + C_1C_3C_5R_1R_3R_5R_6 + C_1C_4C_5R_1R_4R_5R_6 + C_3C_4R_3R_4R_5 + C_1C_4R_3R_4R_6 + C_3C_5R_3R_5R_6 + C_4C_5R_4R_5R_6\right) + s^2\left(C_1C_3R_1R_3R_6 + C_1C_4R_1R_4R_6 + C_1C_5R_1R_5R_6 + C_3C_4R_3R_4R_6 + C_3C_5R_3R_5R_6 + C_4C_5R_4R_5R_6\right) + s^2\left(C_1C_3R_1R_3R_4R_5 + C_1C_4R_3R_4R_5 + C_1C_4R_3R_4R_5 + C_1C_4R_3R_5 + C_1C_4R_5R_5 + C_1$

10.1884 X-INVALID-ORDER-1884 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_3R_4R_5s^4 + s^3\left(C_1C_3C_4R_1R_3R_4 + C_1C_3C_5R_1R_3R_5 + C_1C_4C_5R_1R_4R_5 + C_3C_4C_5R_3R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_3C_4R_3R_4 + C_3C_5R_3R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3R_4R_5 + C_4C_5R_4R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_3R_4 + C_4C_5R_4R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_4R_3R_4 + C_4C_5R_4R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_1R_3 + C_4C_5R_4R_5 + C_4C_5R_4R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_4R_5 + C_4C_5R_4R_5\right) + s^2\left(C_1C_3R_4R_5$

10.1885 X-INVALID-ORDER-1885 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_3R_4R_5R_6s^5 + s^4\left(C_1C_3C_4C_5R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_6 + C_1C_4C_5C_6R_1R_4R_5R_6 + C_3C_4C_5C_6R_3R_4R_5R_6\right) + s^3\left(C_1C_3C_4R_1R_3R_4 + C_1C_3C_5R_1R_3R_5 + C_1C_3C_6R_1R_3R_6 + C_1C_4C_5R_1R_4R_5 + C_1C_4C_6R_1R_4R_6 + C_1C_4C_5R_1R_4R_5 + C_1C_4C_5R$

10.1886 X-INVALID-ORDER-1886 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_1C_3C_4C_5R_1R_3R_4R_5R_6s^4 + R_6 + s^3\left(C_1C_3C_4C_6R_1R_3R_4R_5R_6s^4 + R_6 + s^3\left(C_1C_3C_4C_6R_1R_3R_4R_5R_6s^5 + s^4\left(C_1C_2C_3C_4R_1R_3R_4R_5 + C_1C_2C_4C_6R_1R_4R_5R_6 + C_1C_3C_4C_6R_3R_4R_5R_6 + C_2C_3C_4C_6R_3R_4R_5R_6 +$

10.1887 X-INVALID-ORDER-1887 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_3R_1R_3R_4R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_6\right)}{C_1C_2C_3R_1R_3R_4R_5s^3 + s^2\left(C_1C_2R_1R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_4R_3R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$

10.1888 X-INVALID-ORDER-1888 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3R_1R_3R_4s^2 + R_4 + s\left(C_1R_1R_4 + C_3R_3R_4\right)}{C_1C_2C_3C_6R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1889 X-INVALID-ORDER-1889 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_6R_1R_3R_4R_6s^3 + R_4 + s^2\left(C_1C_3R_1R_3R_4 + C_1C_6R_1R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_1R_1R_4 + C_3R_3R_4 + C_6R_4R_6\right)}{C_1C_2C_3C_6R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1890 X-INVALID-ORDER-1890 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_3R_1R_3R_4R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_6\right)$

 $\frac{C_1C_3R_1R_3R_4R_5}{C_1C_2C_3C_6R_1R_3R_4R_5R_6s^4 + s^3\left(C_1C_2C_3R_1R_3R_4R_5 + C_1C_2C_6R_1R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6 + C_1C_4C_6R_3R_4R_5R_6 + C_1C_4C_6R_3R_4R_5R_6 + C_1C_4C_6R_3R_4R_5R_6 + C_1C_4C_6R_3R_4R_5 + C_1C_4R_3R_4R_5 + C$

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10.1891 X-INVALID-ORDER-1891 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                  H(s) = \frac{C_1C_3C_5R_1R_3R_4s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_3C_5R_3R_4\right)}{C_1C_2C_3C_6R_1R_3R_4s^3 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}
10.1892 X-INVALID-ORDER-1892 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                 H(s) = \frac{C_1C_3C_5C_6R_1R_3R_4R_6s^3 + C_5R_4 + s^2\left(C_1C_3C_5R_1R_3R_4 + C_1C_5C_6R_1R_4R_6 + C_3C_5C_6R_3R_4R_6\right) + s\left(C_1C_5R_1R_4 + C_3C_5R_3R_4 + C_5C_6R_4R_6\right)}{C_1C_2C_3C_6R_1R_3R_4s^3 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_3R_4 + C_1C_4C_6R_3R_4 + C_1C_5C_6R_3R_4 + C_2C_3C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}
10.1893 X-INVALID-ORDER-1893 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1C_2C_3C_6R_1R_3R_4R_6s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_4R_6 + C_1C_4C_6R_4R_6 + C_1C_4C_6R
10.1894 X-INVALID-ORDER-1894 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_5R_1R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1C_2C_3C_5R_1R_3R_4R_5s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_5R_3R_4R_5 + C_1C_3C_5R_3R_4R_5 + C_1C_4C_5R_3R_4R_5 + C_1C_4C_5R_3R_4R_5 + C_1C_4C_5R_3R_4R_5 + C_1C_4C_5R_3R_4 + C_1C_4R_3R_4 + C_1C_4R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5 + C_1C
10.1895 X-INVALID-ORDER-1895 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_3R_4s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_3C_5R_3R_4\right)}{C_1C_2C_3C_5C_6R_1R_3R_4 + S_3\left(C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_5C_6R_3R_4R_5 + C_1C_3C_5C_6R_3R_4R_5 + C_1C_4C_5C_6R_3R_4R_5 + C_2C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_3R_4 + C_1C_4C_6
10.1896 X-INVALID-ORDER-1896 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                             \frac{C_{1}C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}R_{6}s^{3}+C_{5}R_{4}+s^{2}\left(C_{1}C_{3}C_{5}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{3}R_{4}R_{6}\right)+s\left(C_{1}C_{5}R_{1}R_{4}+C_{3}C_{5}R_{3}R_{4}+C_{5}C_{6}R_{4}R_{6}\right)}{C_{1}C_{2}C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{1}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{3}R_{4}+C_{1}C_{
10.1897 X-INVALID-ORDER-1897 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1898 X-INVALID-ORDER-1898 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                       H(s) = \frac{C_1C_3C_5R_1R_3R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_1C_3R_1R_3R_4R_6 + C_1C_5R_1R_4R_5R_6 + C_3C_5R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_6 + C_5R_4R_5R_6\right)}{C_1C_2C_3R_1R_3R_4R_5s^3 + s^2\left(C_1C_2R_1R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_4R_3R_4R_5 + C_1C_5R_3R_4R_5 + C_2C_3R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}
10.1899 X-INVALID-ORDER-1899 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                 H(s) = \frac{C_1C_3C_5R_1R_3R_4R_5s^3 + R_4 + s^2\left(C_1C_3R_1R_3R_4 + C_1C_5R_1R_4R_5 + C_3C_5R_3R_4R_5\right) + s\left(C_1R_1R_4 + C_3R_3R_4 + C_5R_4R_5\right)}{C_1C_2C_3C_6R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_1C_5C_6R_3R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}
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 $H(s) = \frac{C_1C_3C_5C_6R_1R_3R_4R_5R_6s^4 + R_4 + s^3\left(C_1C_3C_5R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_6 + C_3C_5C_6R_3R_4R_5R_6\right) + s^2\left(C_1C_3R_1R_3R_4 + C_1C_5R_1R_4R_5 + C_1C_6R_1R_4R_6 + C_3C_5R_3R_4R_5 + C_3C_6R_3R_4R_6 + C_5C_6R_4R_5R_6\right) + s\left(C_1R_1R_4 + C_3R_3R_4 + C_1C_5R_1R_4R_5 + C_1C_6R_1R_4R_5 + C_1C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 + C_3C_6R_3R_$

10.1900 X-INVALID-ORDER-1900 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

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10.1901 X-INVALID-ORDER-1901 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)
H(s) = \frac{C_1C_3C_5R_1R_3R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_1C_3R_1R_3R_4R_6 + C_1C_5R_1R_4R_5R_6 + C_3C_5R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_6 + C_1C_2C_3R_1R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_3R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6 + C_1C_2C_3R_1R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6 + C_1C_2C_3R_1R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6\right) + s\left(C_1R_1R_4R_5R_6\right) + s\left(C_1R_1R_4R_
10.1902 X-INVALID-ORDER-1902 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, R_6\right)
                                                                                                                                                                              H(s) = \frac{C_1C_2R_1R_2R_4R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6\right)}{s^2\left(C_1C_2R_1R_4R_5 - C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}
10.1903 X-INVALID-ORDER-1903 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                         H(s) = \frac{C_1C_2R_1R_2R_4s^2 + R_4 + s\left(C_1R_1R_4 + C_2R_2R_4\right)}{s^3\left(C_1C_2C_6R_1R_4R_5 - C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}
10.1904 X-INVALID-ORDER-1904 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                        H(s) = \frac{C_1C_2C_6R_1R_2R_4R_6s^3 + R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_6R_1R_4R_6 + C_2C_6R_2R_4R_6\right) + s\left(C_1R_1R_4 + C_2R_2R_4 + C_6R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_4R_5 - C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}
10.1905 X-INVALID-ORDER-1905 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2R_1R_2R_4R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_4R_5R_6 - C_1C_2C_6R_2R_3R_4R_6 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_4R_5 - C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_3R_4R_5 - C_1C_6R_3R_4R_6 + C_1C_6R_3R_5R_6 + C_1C_6R_4R_5R_6 + C_2C_6R_4R_5R_6\right)}
10.1906 X-INVALID-ORDER-1906 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                            H(s) = \frac{C_1C_2C_5R_1R_2R_4s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4\right)}{-C_1C_2C_5C_6R_2R_3R_4s^3 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}
10.1907 X-INVALID-ORDER-1907 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                           H(s) = \frac{C_1C_2C_5C_6R_1R_2R_4R_6s^3 + C_5R_4 + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_5C_6R_1R_4R_6 + C_2C_5C_6R_2R_4R_6\right) + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4 + C_5C_6R_4R_6\right)}{-C_1C_2C_5C_6R_2R_3R_4s^3 + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}
10.1908 X-INVALID-ORDER-1908 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_5R_1R_2R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6\right)}{-C_1C_2C_5C_6R_2R_3R_4R_6s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(-C_1C_2C_5R_2R_3R_4 + C_1C_2C_6R_2R_3R_6 + C_1C_2C_6R_2R_4R_6 + C_1C_2C_6R_3R_4R_6\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_5R_3R_4 + C_1
10.1909 X-INVALID-ORDER-1909 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_2C_5R_1R_2R_4s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4\right)}{s^3\left(C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 - C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R_5 + C_1C_5C_6R_4R_5\right) + s\left(C_1C_6R_4R_5\right) + s\left(C_1C_6R$

 $H(s) = \frac{C_1C_2C_5C_6R_1R_2R_4R_6s^3 + C_5R_4 + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_5C_6R_1R_4R_6 + C_2C_5C_6R_2R_4R_6\right) + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4 + C_5C_6R_4R_6\right)}{s^3\left(C_1C_2C_5C_6R_1R_4R_5 - C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_2R_4 + C_1C_5C_6R_3R_4 + C_1C_$

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10.1911 X-INVALID-ORDER-1911 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_1C_2C_5R_1R_2}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_5C_6R_1R_4R_5R_6 - C_1C_2C_5C_6R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_2C_5C_6R_2R_4R_5R_6 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_5R_5 + C_1C_2C_5C_6R_2R_5R_5 + C_1C_2C_5C_6$

10.1912 X-INVALID-ORDER-1912 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_2C_5R_1R_2R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_5R_1R_4R_5R_6 + C_2C_5R_2R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6 + C_5R_4R_5R_6\right)}{-C_1C_2C_5R_2R_3R_4R_5s^3 + s^2\left(C_1C_2R_1R_4R_5 - C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 - C_1C_5R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$

10.1913 X-INVALID-ORDER-1913 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_5R_1R_2R_4R_5s^3 + R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_5R_1R_4R_5 + C_2C_5R_2R_4R_5\right) + s\left(C_1R_1R_4 + C_2R_2R_4 + C_5R_4R_5\right)}{-C_1C_2C_5C_6R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 - C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1914 X-INVALID-ORDER-1914 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_5C_6R_1R_2R_4R_5R_6s^4 + R_4 + s^3\left(C_1C_2C_5R_1R_2R_4R_5 + C_1C_2C_6R_1R_2R_4R_6 + C_2C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_5R_1R_4R_5 + C_1C_6R_1R_4R_6 + C_2C_5R_2R_4R_5 + C_2C_6R_2R_4R_6 + C_5C_6R_4R_5R_6\right) + s\left(C_1R_1R_4 + C_2R_2R_4 + C_1C_5R_1R_4R_5 + C_1C_5R_1R_4R_5 + C_1C_5R_1R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_2R_$

10.1915 X-INVALID-ORDER-1915 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_2C_5R_1R_2R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_5R_1R_4R_5R_6 + C_2C_5R_2R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6\right)}{-C_1C_2C_5C_6R_2R_3R_4R_5R_6s^4 + s^3\left(-C_1C_2C_5R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4R_5R_6 + C_1C_2C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_4R_5 - C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_3R_4R_5R_6\right)}$

10.1916 X-INVALID-ORDER-1916 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_2R_1R_2R_6s^2 + R_6 + s\left(C_1R_1R_6 + C_2R_2R_6\right)}{C_1C_2C_4R_2R_3R_5s^3 + s^2\left(C_1C_2R_1R_5 - C_1C_2R_2R_3 + C_1C_2R_2R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}$

10.1917 X-INVALID-ORDER-1917 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2R_1R_2s^2 + s\left(C_1R_1 + C_2R_2\right) + 1}{C_1C_2C_4C_6R_2R_3R_5s^4 + s^3\left(C_1C_2C_6R_1R_5 - C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$

10.1918 X-INVALID-ORDER-1918 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_6R_1R_2R_6s^3 + s^2\left(C_1C_2R_1R_2 + C_1C_6R_1R_6 + C_2C_6R_2R_6\right) + s\left(C_1R_1 + C_2R_2 + C_6R_6\right) + 1}{C_1C_2C_4C_6R_2R_3R_5s^4 + s^3\left(C_1C_2C_6R_1R_5 - C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}$

10.1919 X-INVALID-ORDER-1919 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_2R_1R_2R_6s^2 + R_6 + s\left(C_1R_1R_6 + C_2R_2R_6\right)}{C_1C_2C_4C_6R_2R_3R_5R_6s^4 + s^3\left(C_1C_2C_4R_2R_3R_5 + C_1C_2C_6R_1R_5R_6 - C_1C_2C_6R_2R_3R_6 + C_1C_2C_6R_2R_5R_6 + C_1C_2C_6R_3R_5R_6\right) + s^2\left(C_1C_2R_1R_5 - C_1C_2R_2R_3 + C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_6R_3R_6 + C_1C_6R_5R_6 + C_2C_6R_5R_6\right)}$

10.1920 X-INVALID-ORDER-1920 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_5R_1R_2s^2 + C_5 + s\left(C_1C_5R_1 + C_2C_5R_2\right)}{s^3\left(C_1C_2C_4C_6R_2R_3 - C_1C_2C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}$

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10.1921 X-INVALID-ORDER-1921 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                    H(s) = \frac{C_1C_2C_5C_6R_1R_2R_6s^3 + C_5 + s^2\left(C_1C_2C_5R_1R_2 + C_1C_5C_6R_1R_6 + C_2C_5C_6R_2R_6\right) + s\left(C_1C_5R_1 + C_2C_5R_2 + C_5C_6R_6\right)}{s^3\left(C_1C_2C_4C_6R_2R_3 - C_1C_2C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_2 + C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3\right) + s\left(C_1C_6 + C_2C_6\right)}
10.1922 X-INVALID-ORDER-1922 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_5R_1R_2R_6s^2 + C_5R_6 + s\left(C_1C_5R_1R_6 + C_2C_5R_2R_6\right)}{C_1 + C_2 + s^3\left(C_1C_2C_4C_6R_2R_3R_6 - C_1C_2C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3 + C_1C_2C_6R_1R_6 + C_1C_2C_6R_3R_6 + C_1C_4C_6R_3R_6 - C_1C_5C_6R_3R_6\right) + s\left(C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 - C_1C_5R_3 + C_1C_6R_6 + C_2C_6R_6\right)}
10.1923 X-INVALID-ORDER-1923 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                          H(s) = \frac{C_1C_2C_5R_1R_2R_6s^2 + C_5R_6 + s\left(C_1C_5R_1R_6 + C_2C_5R_2R_6\right)}{C_1C_2C_4C_5R_2R_3R_5s^3 + C_1 + C_2 + s^2\left(C_1C_2C_4R_2R_3 + C_1C_2C_5R_1R_5 - C_1C_2C_5R_2R_3 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_3R_5 + C_1C_4C_5R_3R_5\right) + s\left(C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 - C_1C_5R_3 + C_1C_5R_5 + C_2C_5R_5\right)}
10.1924 X-INVALID-ORDER-1924 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_5R_1R_2s^2 + C_5 + s\left(C_1C_5R_1 + C_2C_5R_2\right)}{C_1C_2C_4C_5C_6R_2R_3R_5s^4 + s^3\left(C_1C_2C_4C_6R_2R_3 + C_1C_2C_5C_6R_1R_5 - C_1C_2C_5C_6R_2R_3 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5 + C_1C_4C_6R_3 + C_1C_4C_6R_3 + C_1C_5C_6R_3 + C_1C
10.1925 X-INVALID-ORDER-1925 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_5C_6R_1R_2R_6s^3 + C_5 + s^2\left(C_1C_2C_5R_1R_2 + C_1C_5C_6R_1R_6 + C_2C_5C_6R_2R_6\right) + s\left(C_1C_5R_1 + C_2C_5R_2 + C_5C_6R_6\right)}{C_1C_2C_4C_5C_6R_2R_3R_5s^4 + s^3\left(C_1C_2C_4C_6R_2R_3 + C_1C_2C_5C_6R_1R_5 - C_1C_2C_5C_6R_2R_3 + C_1C_2C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_4C_6R_3 - C_1C_5C_6R_3 + C_1C_5C_6R_5\right) + s\left(C_1C_5C_6R_3R_5 + C_1C_4C_5C_6R_3R_5\right) + s^2\left(C_1C_2C_6R_3 + C_1C_4C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_5\right) + s\left(C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_5\right) + s\left(C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3\right) + s\left(C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3\right) + s\left(C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3 + C_1C_5C_6R_3\right) + s\left(C_1C_5C_6R_3 + C_1C_5C_6R_3\right) + s\left(C_1C_5C_6R_3\right) + s\left(C_1C_5C_
10.1926 X-INVALID-ORDER-1926 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.1927 X-INVALID-ORDER-1927 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                          H(s) = \frac{C_1C_2C_5R_1R_2R_5R_6s^3 + R_6 + s^2\left(C_1C_2R_1R_2R_6 + C_1C_5R_1R_5R_6 + C_2C_5R_2R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_6 + C_5R_5R_6\right)}{s^3\left(C_1C_2C_4R_2R_3R_5 - C_1C_2C_5R_2R_3R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_2R_2R_3 + C_1C_2R_2R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_5 - C_1C_5R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_5\right)}
10.1928 X-INVALID-ORDER-1928 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                         H(s) = \frac{C_1C_2C_5R_1R_2R_5s^3 + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_5 + C_2C_5R_2R_5\right) + s\left(C_1R_1 + C_2R_2 + C_5R_5\right) + 1}{s^4\left(C_1C_2C_4C_6R_2R_3R_5 - C_1C_2C_5C_6R_2R_3R_5\right) + s^3\left(C_1C_2C_6R_1R_5 - C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5 - C_1C_5C_6R_3R_5\right) + s^2\left(-C_1C_6R_3 + C_1C_6R_5 + C_2C_6R_5\right)}
10.1929 X-INVALID-ORDER-1929 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                            H(s) = \frac{C_1C_2C_5C_6R_1R_2R_5R_6s^4 + s^3\left(C_1C_2C_5R_1R_2R_5 + C_1C_2C_6R_1R_2R_6 + C_1C_5C_6R_1R_5R_6 + C_2C_5C_6R_2R_5R_6\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_5 + C_1C_6R_1R_6 + C_2C_5R_2R_5 + C_2C_6R_2R_6 + C_5C_6R_2R_6\right) + s\left(C_1R_1 + C_2R_2 + C_5R_5 + C_6R_6\right) + s\left(C_1R_1 + C_2R_2 + C_5R_5 + C_6R_5\right) + s\left(C_1R_1 + C_2R_2 + C_5R_5 + C_6R_5\right) + s\left(C_1R_1 + C_2R_2 + C_5R_5\right) + s\left(C_1R_1 + C_2R_5\right) + s\left(C_1R_1
\textbf{10.1930} \quad \textbf{X-INVALID-ORDER-1930} \ \ Z(s) = \left(R_1 + \tfrac{1}{C_1 s}, \ R_2 + \tfrac{1}{C_2 s}, \ R_3, \ \tfrac{1}{C_4 s}, \ \tfrac{R_5}{C_5 R_5 s + 1}, \ \tfrac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_1C_2C_5R_1R_2R_5R_6s^3 + R_6 + s^2\left(C_1C_2R_1R_2R_6 + C_1C_5R_1R_5R_6 + C_2C_5R_2R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_6 + C_5R_5R_6\right)}{s^4\left(C_1C_2C_4C_6R_2R_3R_5R_6 - C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_2R_3R_5 + C_1C_2C_6R_2R_3R_5 +$

```
10.1932 X-INVALID-ORDER-1932 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_4R_1R_2R_4s^3 + s^2\left(C_1C_2R_1R_2 + C_1C_4R_1R_4 + C_2C_4R_2R_4\right) + s\left(C_1R_1 + C_2R_2 + C_4R_4\right) + 1}{s^4\left(C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_3R_5 - C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5 + C_2C_4C_6R_4R_5\right) + s^3\left(C_1C_2C_4C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_3R_5 - C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5 + C_2C_4C_6R_4R_5\right) + s^3\left(C_1C_2C_4C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_3R_5 - C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_2C_4C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_3R_5 - C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_2C_4C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_3R_5\right) + s^3\left(C_1C_2C_6R_2R_3 + C_1C_2C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_2C_6R_2R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_4C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_4C_6R_4R_5\right) + s^3\left(C_1C_4C_6R
10.1933 X-INVALID-ORDER-1933 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_4C_6R_1R_2R_4R_6s^4 + s^3\left(C_1C_2C_4R_1R_2R_4 + C_1C_2C_6R_1R_2R_6 + C_1C_4C_6R_1R_4R_6 + C_2C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2R_1R_2 + C_1C_4R_1R_4 + C_1C_6R_1R_6 + C_2C_4R_2R_4 + C_2C_6R_2R_6 + C_4C_6R_4R_6\right) + s\left(C_1R_1 + C_2R_2 + C_4R_4 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_4C_6R_1R_4R_5 - C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_2C_4C_6R_2R_4R_5\right) + s^3\left(C_1C_2C_6R_1R_5 - C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 - C_1C_4C_6R_3R_4 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_4R_5\right) + s^2\left(C_1C_2R_1R_4 + C_1C_4R_1R_4 + C_1C_
10.1934 X-INVALID-ORDER-1934 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_4R_1R_2R_4R_6s^3 + R_6 + s^2\left(C_1C_2C_4C_6R_1R_4R_5R_6 - C_1C_2C_4C_6R_2R_3R_4R_6 + C_1C_2C_4C_6R_2R_3R_4R_5 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_
10.1935 X-INVALID-ORDER-1935 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                    H(s) = \frac{C_1C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_6 + s^2\left(C_1C_2C_5R_1R_2R_6 + C_1C_4C_5R_1R_4R_6 + C_2C_4C_5R_2R_4R_6\right) + s\left(C_1C_5R_1R_6 + C_2C_5R_2R_6 + C_4C_5R_4R_6\right)}{-C_1C_2C_4C_5R_2R_3R_4s^3 + C_1 + C_2 + s^2\left(C_1C_2C_4R_1R_4 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_3R_4 - C_1C_2C_5R_2R_3 - C_1C_4C_5R_3R_4\right) + s\left(C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_2C_4R_4\right)}
10.1936 X-INVALID-ORDER-1936 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_4C_5R_1R_2R_4s^3 + C_5 + s^2\left(C_1C_2C_5R_1R_2 + C_1C_4C_5R_1R_4 + C_2C_4C_5R_2R_4\right) + s\left(C_1C_5R_1 + C_2C_5R_2 + C_4C_5R_4\right)}{-C_1C_2C_4C_5R_2R_3R_4s^4 + s^3\left(C_1C_2C_4C_6R_1R_4 + C_1C_2C_4C_6R_2R_4 + C_1C_2C_4C_6R_3R_4 - C_1C_2C_5C_6R_2R_3 - C_1C_4C_5C_6R_3R_4\right) + s^2\left(C_1C_2C_6R_1 + C_1C_2C_6R_3 + C_1C_4C_6R_3 + C
10.1937 X-INVALID-ORDER-1937 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_4C_5C_6R_1R_2R_4R_6s^4 + C_5 + s^3\left(C_1C_2C_4C_5R_1R_2R_4 + C_1C_2C_5C_6R_1R_2R_4 + C_1C_4C_5C_6R_1R_4R_6 + C_2C_4C_5R_2R_4 + C_1C_5C_6R_1R_4 + C_1C_5C_6R_
10.1938 X-INVALID-ORDER-1938 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_6 + s^2(C_1C_2C_5R_1R_2R_6 + C_1C_4C_5R_1
H(s) = \frac{C_1C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_6 + s^2\left(C_1C_2C_5R_1R_2R_6 + C_1C_4C_5R_1\right)}{-C_1C_2C_4C_5C_6R_2R_3R_4R_6s^4 + C_1 + C_2 + s^3\left(-C_1C_2C_4C_5R_1R_4R_6 + C_1C_2C_4C_6R_2R_3R_6 + C_1C_2C_4C_6R_2R_3R_6 + C_1C_4C_5C_6R_2R_3R_6 - C_1C_4C_5C_6R_3R_4R_6\right) + s^2\left(C_1C_2C_4R_1R_4 + C_1C_2C_4R_2R_3 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_
10.1939 X-INVALID-ORDER-1939 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_6 + s^2\left(C_1C_2C_5R_1R_2R_6 + C_1C_4C_5R_1R_4R_6 + C_2C_4C_5R_2R_4R_6\right) + s\left(C_1C_5R_1R_6 + C_1C_4C_5R_1R_4R_5 - C_1C_2C_4C_5R_2R_3R_4 + C_1C_2C_4C_5R_2R_3R_4 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_3R_4 + C_1C_2C_5R_1R_5 - C_1C_2C_5R_2R_3 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_3R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_5 + C_1C_2C_5R_5R_5 + C_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10.1940 X-INVALID-ORDER-1940 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_1C_2C_4C_5R_1R_2R_4s^3 + C_5 + s^2(C_1C_2C_5R_1R_2 + C_1C_4C_5R_1R_4 + C_1C_4C_5R_1R_4)
H(s) = \frac{1}{s^4 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6
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 $H(s) = \frac{C_1C_2C_4R_1R_2R_4R_6s^3 + R_6 + s^2\left(C_1C_2R_1R_2R_6 + C_1C_4R_1R_4R_6 + C_2C_4R_2R_4R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_6 + C_4R_4R_6\right)}{s^3\left(C_1C_2C_4R_1R_4R_5 - C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_5 + C_1C_2R_4R_3R_4 + C_1C_2C_4R_2R_3R_5 + C_1C_2R_4R_3R_4 + C_1C_2R_2R_5 + C_1C_2R_2R_3 + C_1C_2R_2R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_4R_5 + C_2C_4R_4R_5\right) + s\left(C_1R_1R_6 + C_2R_2R_6 + C_4R_4R_6\right)}{s^3\left(C_1C_2C_4R_1R_4R_5 - C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_5 + C_1C_2R_4R_3R_4 + C_1C_2C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_3R_4 + C_1C_4R_3R_5 + C_1C_4R_5 + C_1C_4R_5$

10.1931 X-INVALID-ORDER-1931 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

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10.1941 X-INVALID-ORDER-1941 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_4C_5C_6R_1R_2R_4R_6s^4 + C_5 + s^3\left(C_1C_2C_4C_5R_1R_2R_4 + C_1C_2C_5C_6R_1R_2R_6 + C_1C_4C_5C_6R_1R_4R_6 + C_2C_4C_5C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_2C_4C_5C_6R_1R_4R_5 - C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_4C_5R_1R_4R_5 - C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_4C_5C_6R_1R_4R_5 - C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_2C_4C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_4C
10.1942 X-INVALID-ORDER-1942 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 + C_2 + s^4 \left( C_1 C_2 C_4 C_5 C_6 R_1 R_4 R_5 R_6 - C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_1 R_4 R_5 - C_1 C_2 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_1 R_4 R_5 - C_1 C_2 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_1 R_4 R_5 - C_1 C_2 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_1 R_4 R_5 - C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_1 R_4 R_5 - C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_1 R_4 R_5 - C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_3 R_4 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_4 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_3 R_4 + C_1 C_2 C_4 C_5 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_3 R_4 + C_1 C_2 C_4 C_5 R_3 R_5 + C_1 C_2 C_4 C_5 R_3 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_3 R_4 + C_1 C_2 C_4 C_5 R_3 R_5 + C_1 C_2 C_4 C_5 R_5 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_3 R_4 + C_1 C_2 C_4 C_5 R_5 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_5 R_5 + C_1 C_2 C_4 C_5 R_5 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_5 R_5 + C_1 C_2 C_4 C_5 R_5 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_5 R_5 + C_1 C_2 C_4 C_5 R_5 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_5 R_5 + C_1 C_5 R_5 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_5 R_5 + C_1 C_5 R_5 R_5 \right) \\ + s^3 \left( C_1 C_2 C_4 C_5 R_5 R_5 +
10.1943 X-INVALID-ORDER-1943 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
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 $H(s) = \frac{C_1C_2C_4C_5R_1R_2R_4R_5R_6s^4 + R_6 + s^3\left(C_1C_2C_4R_1R_2R_4R_6 + C_1C_4C_5R_1R_4R_5R_6 + C_2C_4C_5R_2R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_2R_6 + C_1C_4R_1R_4R_6 + C_1C_5R_1R_5R_6 + C_2C_4R_2R_4R_6 + C_2C_5R_2R_5R_6 + C_4C_5R_4R_5R_6\right) + s\left(C_1C_2C_4C_5R_2R_4R_5R_6 + C_4C_5R_4R_5R_6 + C_4C_5R_4R_5R_6\right) + s\left(C_1C_2R_1R_2R_6 + C_1C_4R_1R_4R_6 + C_1C_5R_1R_5R_6 + C_2C_4R_2R_4R_6 + C_2C_5R_2R_5R_6 + C_4C_5R_4R_5R_6\right) + s\left(C_1C_2C_4R_3R_4R_5s^4 + s^3\left(C_1C_2C_4R_1R_4R_5 - C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_4R_5 + C_1C_2C_4R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_2R_2R_3 + C_1C_2R_3R_5 + C_1C_4R_3R_5 + C_1C_4R_3R_4 + C_1C_4R_3R_4$

10.1944 X-INVALID-ORDER-1944 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_4C_5R_1R_2R_4R_5s^4 + s^3\left(C_1C_2C_4R_1R_2R_4 + C_1C_2C_5R_1R_2R_5 + C_1C_4C_5R_1R_4R_5 + C_2C_4C_5R_2R_4R_5\right) + s^2\left(C_1C_2R_1R_2 + C_1C_4R_1R_4 + C_1C_5R_1R_5 + C_2C_4R_2R_4 + C_2C_5R_2R_5 + C_4C_5R_2R_5\right)}{-C_1C_2C_4C_5R_2R_3R_4R_5s^5 + s^4\left(C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_3R_5 + C_1C_2C_4C_4R_3R_5 + C_1C_2C_4C_4R_3R_5 + C_1C_2C_4C_4R_3R_5 + C_1C_2C_4C_4R_3R_5 + C_1C_2C_4C_4C_4R_3R_5 + C_1C_2C_4C_4C_4R_3R_5 + C_1C_2C_4C_4C_4R_3$

10.1945 X-INVALID-ORDER-1945 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_4C_5C_6R_1R_2R_4R_5R_6s^5 + s^4\left(C_1C_2C_4C_5R_1R_2R_4R_5 + C_1C_2C_4C_6R_1R_2R_4R_6 + C_1C_4C_5C_6R_1R_4R_5R_6 + C_2C_4C_5C_6R_2R_4R_5R_6\right) + s^3\left(C_1C_2C_4R_1R_2R_4 + C_1C_2C_5R_1R_2R_5 + C_1C_2C_6R_1R_2R_6 + C_1C_4C_5R_1R_4R_5 + C_1C_4C_6R_1R_4R_6 + C_1C_4C_5R_1R_4R_5 + C_1C_4C_5R$

10.1946 X-INVALID-ORDER-1946 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_2C_4C_5R_1R_2R_4R_5R_5$ $H(s) = \frac{C_1C_2C_4C_5R_1R_2R_4R_5}{-C_1C_2C_4C_5R_2R_3R_4R_5R_6s^5 + s^4\left(-C_1C_2C_4C_5R_2R_3R_4R_5 + C_1C_2C_4C_6R_2R_3R_4R_6 + C_1C_2C_4C_6R_2R_3R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5 + C_1C_2C_4C_6R_2R_3R_4R_5$

10.1947 X-INVALID-ORDER-1947 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_2R_1R_2R_4R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6\right)}{C_1C_2C_4R_2R_3R_4R_5s^3 + s^2\left(C_1C_2R_1R_4R_5 - C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_4R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}$

10.1948 X-INVALID-ORDER-1948 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2R_1R_2R_4s^2 + R_4 + s\left(C_1R_1R_4 + C_2R_2R_4\right)}{C_1C_2C_4C_6R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 - C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_4C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1949 X-INVALID-ORDER-1949 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_6R_1R_2R_4R_6s^3 + R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_6R_1R_4R_6 + C_2C_6R_2R_4R_6\right) + s\left(C_1R_1R_4 + C_2R_2R_4 + C_6R_4R_6\right)}{C_1C_2C_4C_6R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_4R_5 - C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}$

10.1950 X-INVALID-ORDER-1950 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_2R_1R_2R_4R_6s^2 + R_4R_6 + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6\right)$

 $H(s) = \frac{C_1C_2R_1R_2R_4R_6s^4 + s^3(C_1C_2C_4R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4R_6 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_2C_6R_2R_4R_5 +$

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10.1951 X-INVALID-ORDER-1951 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, R_2 + \frac{1}{C_{2s}}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                          H(s) = \frac{C_1C_2C_5R_1R_2R_4s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4\right)}{s^3\left(C_1C_2C_4C_6R_2R_3R_4 - C_1C_2C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4\right)}
10.1952 X-INVALID-ORDER-1952 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                          H(s) = \frac{C_1C_2C_5C_6R_1R_2R_4R_6s^3 + C_5R_4 + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_5C_6R_1R_4R_6 + C_2C_5C_6R_2R_4R_6\right) + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4 + C_5C_6R_4R_6\right)}{s^3\left(C_1C_2C_4C_6R_2R_3R_4 - C_1C_2C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_4C_6R_3R_4 - C_1C_5C_6R_3R_4\right) + s\left(C_1C_6R_3 + C_1C_6R_4 + C_2C_6R_4R_6\right)}
10.1953 X-INVALID-ORDER-1953 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_5R_1R_2R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_4C_6R_2R_3R_4R_6 - C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_6R_2R_3R_6 + C_1C_2C_6R_2R_4R_6 + C_1C_2C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 - C_1C_5C_6R_3R_4R_6\right) + s\left(C_1C_2R_1R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_3R_4R_6 + C_1C_2C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6\right) + s\left(C_1C_2R_1R_4 + C_1C_2C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6\right) + s\left(C_1C_2R_1R_4 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6\right) + s\left(C_1C_4R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6\right) + s\left(C_1C_4R_4R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6\right) + s\left(C_1C_4R_4R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_3R_4R_6\right) + s\left(C_1C_4R_4R_4R_6 + C_1C_4C_6R_3R_4R_6 + C_1C_4C_6R_4R_4R_6 +
10.1954 X-INVALID-ORDER-1954 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_2C_5R_1R_2R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6\right)}{C_1C_2C_4C_5R_2R_3R_4R_5s^3 + C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_4R_2R_3R_4 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_2R_4R_5 + C_1C_2C_5R_3R_4R_5 + C_1C_2C_5R_3R_4R_5\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_2R_
10.1955 X-INVALID-ORDER-1955 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_5R_1R_2R_4s^2 + C_5R_4 + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4\right)}{C_1C_2C_4C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_5 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4
10.1956 X-INVALID-ORDER-1956 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_5C_6R_1R_2R_4R_6s^3 + C_5R_4 + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_5C_6R_1R_4R_6 + C_2C_5C_6R_2R_4R_6\right) + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4 + C_5C_6R_4R_6\right)}{C_1C_2C_4C_5C_6R_2R_3R_4 + S^2\left(C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_4 + C_1
10.1957 X-INVALID-ORDER-1957 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1C_2C_4C_5C_6R_2R_3R_4R_5R_6s^4 + C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_4C_5R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_4R_5R_6 + C_1C_2C_5C_6R_2R_4R_5R_6 + C_1C_2C_5C_6R_3R_4R_5R_6 + C_1C_2C_5C_6R_3R_4R_5R_6 + C_1C_2C_5C_6R_3R_4R_5R_6 + C_1C_2C_5C_6R_2R_4R_5R_6 + C_1C_2C_5C_6R_2R_4R_5R_6 + C_1C_2C_5C_6R_2R_4R_5R_5 + C_1C_2C_5C_6R_2R_4R_5R_5 + C_1C_2C_5C_6R_2R_4R_5R_5 + C_1C_2C_5C_6R_2R_4R_5R_5 + C_1C_2C_5C_6R_2R_4R_5R_5 + C_1C_2C_5C_6R_2R_4R_5R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_2C_5C_6R_2R_5R_5 + C_1C_2C_5C_6R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5 + C_1C_2C_5C_6R_5R_5R_5 + C_1C_2C_5C_6R_
10.1958 X-INVALID-ORDER-1958 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                           H(s) = \frac{C_1C_2C_5R_1R_2R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_5R_1R_4R_5R_6 + C_2C_5R_2R_4R_5R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6 + C_5R_4R_5R_6\right)}{s^3\left(C_1C_2C_4R_2R_3R_4R_5 - C_1C_2C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_4R_5 - C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_5 + C_1C_2R_2R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_4R_3R_4R_5 - C_1C_5R_3R_4R_5\right) + s\left(-C_1R_3R_4 + C_1R_3R_5 + C_1R_4R_5 + C_2R_4R_5\right)}
10.1959 X-INVALID-ORDER-1959 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_5R_1R_2R_4R_5s^3 + R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_5R_1R_4R_5 + C_2C_5R_2R_4R_5\right) + s\left(C_1R_1R_4 + C_2R_2R_4 + C_5R_4R_5\right)}{s^4\left(C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_2C_5C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_2C_6R_1R_4R_5 - C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_2C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_3R_4 + C_1C_6R_3R_5 + C_1C_6R_4R_5 + C_2C_6R_4R_5\right)}
10.1960 X-INVALID-ORDER-1960 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_5C_6R_1R_2R_4R_5R_6s^4 + R_4 + s^3\left(C_1C_2C_5R_1R_2R_4R_5 + C_1C_2C_6R_1R_2R_4R_6 + C_2C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_5R_1R_4R_5 + C_1C_6R_1R_4R_6 + C_2C_5R_2R_4R_5 + C_2C_6R_2R_4R_6 + C_5C_6R_4R_5R_6\right) + s\left(C_1R_1R_4 + C_2R_2R_4 + C_1C_5R_1R_4R_5 + C_1C_6R_1R_4R_5 + C_1C_6R_2R_4R_5 + C_2C_6R_2R_4R_5 + C_2C_6R_2R_
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10.1961 X-INVALID-ORDER-1961 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{C_1C_2C_5R_1R_2R_4R_5R_6s^3 + R_4R_6 + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_5R_1R_4R_5R_6 + C_2C_5R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4R_5R_6 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4R_5R_6 + C_1C_2C_6R_2R_3R_4R_5R_6 + C_1C_2C_6R_2R_3R_4R_5R_6 + C_1C_2C_6R_3R_4R_5R_6 + C_1C_2C_6R_3R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_2C_6R_3R_4R_5 + C_1C_2C_6R_5R_5R_5 + C_1C_2C_6R_5R_5R_5 + C_1C_2C_6R_5R_5R_5 + C_1C_2C_6R_5R_5R_
10.1962 X-INVALID-ORDER-1962 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                H(s) = \frac{C_1C_2C_3R_1R_2R_4s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}
10.1963 X-INVALID-ORDER-1963 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                H(s) = \frac{C_1C_2C_3C_6R_1R_2R_4R_6s^3 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_1R_4R_6 + C_2C_3C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}
10.1964 X-INVALID-ORDER-1964 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_3R_1R_2R_4R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6\right)}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_1R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_3R_2R_4R_5 + C_1C_2C_6R_2R_4R_6 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_2C_6R_4R_5R_6 + C_1C_2C_6
10.1965 X-INVALID-ORDER-1965 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                   H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6 + C_2C_3C_5R_2R_4R_6\right)}{C_1 + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_3R_2R_4 - C_1C_2C_5R_2R_4\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4\right)}
10.1966 X-INVALID-ORDER-1966 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_4 + s^2\left(C_1C_2C_3C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_4R_6 + C_2C_3C_5C_6R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_2R_4 - C_1C_2C_5C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}
10.1967 X-INVALID-ORDER-1967 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ R_4, \ \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6 + C_2C_3C_5R_2R_4R_6\right)}{C_1 + s^3\left(C_1C_2C_3C_6R_2R_4R_6 + C_1C_2C_5R_2R_4 + C_1C_2C_5R_2R_4 + C_1C_2C_6R_2R_6 + C_1C_3C_6R_4R_6 + C_1C_5C_6R_4R_6 
10.1968 X-INVALID-ORDER-1968 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
                    H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6 + C_2C_3C_5R_2R_4R_6\right)}{C_1 + s^3\left(C_1C_2C_3C_5R_1R_4R_5 + C_1C_2C_3C_5R_2R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_4R_5 + C_1C_3C_5R_4R_5\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_1C_5R_5 + C_2C_3R_4\right)}
10.1969 X-INVALID-ORDER-1969 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4\right)}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_4R_5 + C_1C_2C_3C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4 + C_1C_3C_5C_6R_4 + C_1C_3C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_3C_5C_5C_6R_5 + C_1C_3C_5C_5C_6R_5 + C_1C_5C_5C_5C_5
10.1970 X-INVALID-ORDER-1970 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_4 + s^2\left(C_1C_2C_3C_5R_1R_2R_4 + C_1C_3C_5C_6R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_4R_5 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_4R_5\right) + s\left(C_1C_3C_5R_4R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_2C_5C_6R_4R_5\right) + s\left(C_1C_3C_5R_4R_5 + C_1C_2C_5C_6R_4R_5 + C_1C_$

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10.1971 X-INVALID-ORDER-1971 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_1}{C_1 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_2 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_2 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_1 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_1 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left(C$

10.1972 X-INVALID-ORDER-1972 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ R_4, \ \frac{R_5}{C_5 R_5 s + 1}, \ R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_4R_6 + s^2\left(C_1C_2C_3R_1R_2R_4R_6 + C_1C_3C_5R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_3R_2R_4R_5 - C_1C_2C_5R_2R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 + C_1C_3R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$

10.1973 X-INVALID-ORDER-1973 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5s^3 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4 + C_3C_5R_4R_5\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s\left(-C_1C_6R_4 + C_1C_6R_5\right)}$

10.1974 X-INVALID-ORDER-1974 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_4 + s^3\left(C_1C_2C_3C_5R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_1R_4R_5 + C_1C_3C_6R_1R_4R_6 + C_2C_3C_5R_2R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_1R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_2C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_2C_3R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_3C_5R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_3C_5R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s^2\left(C_1C_3C_6R_4R_5\right) + s$

10.1975 X-INVALID-ORDER-1975 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_4R_6 + s^2\left(C_1C_2C_3R_1R_2R_4R_6 + C_1C_3C_5R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_2C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_2C_3R_2R_4R_6\right) + s\left(C_1C_3C_3R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3C_3R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 + C_2C_3R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_1C_2C_3R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_1C_3C_3R_2R_4R_5\right) + s\left(C_1C_3C_3R_1R_4R_5 + C_1C_3C_3R_4R_5\right) + s\left(C_1C_3C_3R_4R_5\right) + s\left(C_1C_3C_3R_4R$

10.1976 X-INVALID-ORDER-1976 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3R_1R_2s^2 + C_3 + s\left(C_1C_3R_1 + C_2C_3R_2\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$

10.1977 X-INVALID-ORDER-1977 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_6R_1R_2R_6s^3 + C_3 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_6R_1R_6 + C_2C_3C_6R_2R_6\right) + s\left(C_1C_3R_1 + C_2C_3R_2 + C_3C_6R_6\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}$

10.1978 X-INVALID-ORDER-1978 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \frac{1}{C_4 s}, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_2C_3R_1R_2R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_6R_1R_5R_6 + C_1C_2C_3C_6R_2R_5R_6 + C_1C_2C_4R_2R_5 + C_1C_2C_4R_2R_5 - C_1C_2C_6R_2R_6 + C_1C_2C_6R_5R_6 + C_1C_4C_6R_5R_6 +$

10.1979 X-INVALID-ORDER-1979 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6\right)}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_3R_1 + C_1C_2C_3R_2 + C_1C_2C_4R_2 - C_1C_2C_5R_2\right)}$

10.1980 X-INVALID-ORDER-1980 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2s^2 + C_3C_5 + s\left(C_1C_3C_5R_1 + C_2C_3C_5R_2\right)}{s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_3C_6R_2 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}$

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10.1981 X-INVALID-ORDER-1981 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                            H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_6s^3 + C_3C_5 + s^2\left(C_1C_2C_3C_5R_1R_2 + C_1C_3C_5C_6R_1R_6 + C_2C_3C_5C_6R_2R_6\right) + s\left(C_1C_3C_5R_1 + C_2C_3C_5R_2 + C_3C_5C_6R_6\right)}{s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_3C_6R_2 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
10.1982 X-INVALID-ORDER-1982 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
10.1983 X-INVALID-ORDER-1983 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_6s^3 + C_3C_5 + s^2\left(C_1C_2C_3C_5R_1R_2 + C_1C_3C_5C_6R_1R_6 + C_2C_3C_5C_6R_2R_6\right) + s\left(C_1C_3C_5R_1 + C_2C_3C_5R_2 + C_3C_5C_6R_6\right)}{s^3\left(C_1C_2C_3C_5C_6R_1R_5 + C_1C_2C_3C_5C_6R_2 + C_1C_2C_3C_6R_2 + C_1C_2C_5C_6R_2 + C_1C_2C_5C_6R_5 + C_1C_3C_5C_6R_5 + C_1C_3C_5C_6R_5\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6R_5\right)}
10.1984 X-INVALID-ORDER-1984 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s\left(\frac{C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s\left(\frac{C_1C_2C_3C_5R_1R_2R_6s^2 + C_1C_2C_3C_5R_1R_5 + C_1C_2C_3
10.1985 X-INVALID-ORDER-1985 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                                               H(s) = \frac{C_1C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_6 + s^2\left(C_1C_2C_3R_1R_2R_6 + C_1C_3C_5R_1R_5R_6 + C_2C_3C_5R_2R_5R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_3R_2R_5 + C_1C_2C_4R_2R_5 - C_1C_2C_5R_2R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}
10.1986 X-INVALID-ORDER-1986 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                          H(s) = \frac{C_1C_2C_3C_5R_1R_2R_5s^3 + C_3 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_5R_1R_5 + C_2C_3C_5R_2R_5\right) + s\left(C_1C_3R_1 + C_2C_3R_2 + C_3C_5R_5\right)}{-C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_5C_6R_2R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5\right)}
10.1987 X-INVALID-ORDER-1987 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_5R_6s^4 + C_3 + s^3\left(C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_6R_1R_2R_6 + C_2C_3C_5C_6R_2R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_5R_1R_5 + C_1C_3C_5R_1R_5 + C_2C_3C_6R_2R_6 + C_3C_5C_6R_2R_6\right) + s\left(C_1C_3R_1 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_5R_1R_5 + C_1C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 
10.1988 X-INVALID-ORDER-1988 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_6 + s^2\left(C_1C_2C_3R_1R_2R_6 + C_1C_3C_5R_1R_5R_6 + C_2C_3C_5R_2R_5R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_6R_1R_5R_6 + C_1C_2C_3C_6R_2R_5R_6 + C_1C_2C_5C_6R_2R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_3R_2R_5 + C_1C_2C_6R_2R_6 + C_1C_2C_6R_5R_6 + C_1C_3C_6R_5R_6 + C_1C
10.1989 X-INVALID-ORDER-1989 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
             H(s) = \frac{C_1C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_6 + s^2\left(C_1C_2C_3R_1R_2R_6 + C_1C_3C_4R_1R_4R_6 + C_2C_3C_4R_2R_4R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6 + C_3C_4R_4R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_4R_1R_4R_5 + C_1C_2C_3C_4R_2R_4 + C_1C_2C_4R_2R_4 + C_1C_2C_4R_2R_5 + C_1C_2C_4R_4R_5 + C_1C_3C_4R_4R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_4 + C_1C_4R_5 + C_2C_3R_5\right)}
10.1990 X-INVALID-ORDER-1990 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_4R_1R_2R_4s^3 + C_3 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_4R_2R_4\right) + s\left(C_1C_3R_1 + C_2C_3R_2 + C_3C_4R_4\right)}{-C_1C_6s + s^4\left(C_1C_2C_3C_4C_6R_1R_4R_5 + C_1C_2C_3C_4C_6R_2R_5 + C_1C_2C_4C_6R_2R_4 + C_1C_2C_4C_6R_2R_5 + C_1C_2C_4C_6R_4R_5 + C_2C_3C_4C_6R_4R_5 + C_2C
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10.1991 X-INVALID-ORDER-1991 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_2C_3C_4C_6R_1R_2R_4R_6s^4 + C_3 + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_6R_1R_2R_6 + C_1C_3C_4C_6R_1R_4R_6 + C_2C_3C_4R_1R_2 + C_1C_3C_4R_1R_4 + C_1C_3C_6R_1R_6 + C_2C_3C_4R_2R_4 + C_2C_3C_6R_2R_6 + C_3C_4C_6R_4R_6\right) + s\left(C_1C_3R_1 + C_2C_3C_4R_1R_4 + C_1C_3C_4R_1R_4 + C_1C_3C_4R_1$

10.1992 X-INVALID-ORDER-1992 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_6 + s^2(C_1C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_6 + s^2(C_1C_2C_4R_4R_6s^3 + c_3R_6 + c_3R_6$

 $H(s) = \frac{C_1C_2C_3C_4R_1R_2R_4R_6s + C_3R_6 + s \cdot (C_1C_2C_3C_4R_1R_4R_5R_6 + C_1C_2C_3C_4R_1R_4R_6s + C_3R_6 + s \cdot (C_1C_2C_3C_4R_1R_4R_5R_6 + C_1C_2C_3C_4R_1R_4R_5 + C_1C$

10.1993 X-INVALID-ORDER-1993 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_6 + s^2\left(C_1C_2C_3C_5R_1R_2R_6 + C_1C_3C_4C_5R_1R_4R_6 + C_2C_3C_4C_5R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6 + C_3C_4C_5R_4R_6\right)}{C_1C_2 + C_1C_3 + C_1C_4 + C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_1R_4 + C_1C_2C_3C_4R_2R_4 - C_1C_2C_4C_5R_2R_4\right) + s\left(C_1C_2C_3R_1 + C_1C_2C_4R_2 + C_1C_2C_4R_4 - C_1C_2C_5R_2 + C_1C_3C_4R_4 - C_1C_4C_5R_4 + C_2C_3C_4R_4\right)}$

10.1994 X-INVALID-ORDER-1994 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4s^3 + C_3C_5 + s^2\left(C_1C_2C_3C_5R_1R_2 + C_1C_3C_4C_5R_1R_4 + C_2C_3C_4C_5R_2R_4\right) + s\left(C_1C_3C_5R_1 + C_2C_3C_5R_2 + C_3C_4C_5R_4\right)}{s^3\left(C_1C_2C_3C_4C_6R_1R_4 + C_1C_2C_3C_4C_5R_2R_4\right) + s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_4C_6R_2 + C_1C_2C_4C_6R_4 - C_1C_2C_5C_6R_2 + C_1C_3C_4C_6R_4 + C_2C_3C_4C_6R_4\right) + s\left(C_1C_2C_3C_4C_6R_4 + C_1C_2C_4C_6R_4 + C_1C_2C_4C_6R_4 + C_1C_4C_5C_6R_4 + C_1C_4C_5C_5C_6R_4 + C_1C_4C_5C_6R_4 + C_1C_4C_5C_5C_6R_4 + C_1C_4C_5C_5C_6R_4 + C_1C_4C_5C_5C_6R_4$

10.1995 X-INVALID-ORDER-1995 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5C_6R_1R_2R_4R_6s^4 + C_3C_5 + s^3\left(C_1C_2C_3C_4C_5R_1R_2R_4 + C_1C_2C_3C_5C_6R_1R_4R_6 + C_2C_3C_4C_5R_2R_4 + C_1C_3C_4C_5C_6R_1R_4R_6 + C_2C_3C_4C_5R_1R_2 + C_1C_3C_4C_5R_1R_4 + C_1C_3C_5C_6R_1R_4 + C_1C_3C_5C_6R_4 + C_1C_$

10.1996 X-INVALID-ORDER-1996 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_6 + s^2\left(C_1C_2C_3C_5R_1R_2R_6 + C_1C_3C_4C_5R_1R_4R_6s^2\right) + c_3C_5R_6s^2 + c_3C_5R_5R_6s^2 + c_3C_5R_6s^2 + c_3$

 $H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_6 + s^2\left(C_1C_2C_3C_5R_1R_2R_6 + C_1C_3C_4C_5R_1R_4R_6\right)}{C_1C_2 + C_1C_3 + C_1C_3 + C_1C_3 + C_1C_3 + C_1C_3C_4C_6R_2R_4R_6 + C_1C_2C_3C_4R_1R_4 + C_1C_2C_3C_4R_1R_6 + C_1C_2C_3C_4R_1R_6 + C_1C_2C_3C_4R_1R_4 + C_1C_2C_3C_4R_1R_6 + C_1C_3C_4C_4R_1R_6 + C_1C_3C_4C_4R_1R_4 + C_1C_3C_4C_4C_4R_1R_4 + C_1C_3C_4C_4C_4R_1R_4 + C_1C_3C_4C_4C$

10.1997 X-INVALID-ORDER-1997 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

10.1998 X-INVALID-ORDER-1998 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_1C_2C_3C_4C_5R_1R_2R_4s^3 + C_3C_5 + s^2(C_1C_2C_3C_5R_1R_2 + C_1C_3C_4C_5R_1R_2)$

 $H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4s^5 + C_3C_5 + s^2 (C_1C_2C_3C_5R_1R_2 + C_1C_3C_4C_5R_1R_2 + C_1C_3C_4C_5R_1R_$

10.1999 X-INVALID-ORDER-1999 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5C_6R_1R_2R_4R_6s^4 + C_3C_5 + s^3\left(C_1C_2C_3C_4C_5R_1R_2R_4 + C_1C_2C_3C_5C_6R_1R_2R_6 + C_1C_3C_4C_5C_6R_1R_4R_6 + C_2C_3C_4C_5C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_5C_6R_1R_4R_5 + C_1C_2C_3C_4C_5C_6R_1R_4R_5 + C_1C_2C_3C_4C_5C_6R_2R_4 + C_1C_2C_4C_5C_6R_2R_4 + C_1C_2C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_5C_6R_4R_5 + C_1C$

10.2000 X-INVALID-ORDER-2000 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{H(s)}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^4(C_1C_2C_3C_4C_5C_6R_1R_4R_5R_6 + C_1C_2C_3C_4C_5R_2R_4R_5 + C_1C_2C_3C_4C_5R_1R_4R_5 + C_1C_2C_3C_4C_6R_1R_4R_6 + C_1C_2C_3C_4C_6R_2R_4R_6 + C_1C_2C_3C_4C_6R_1R_4R_6 + C_1$

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10.2001 X-INVALID-ORDER-2001 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4R_5R_6s^4 + C_3R_6 + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_6 + C_1C_3C_5R_1R_2R_6 + C_1C_3C_4R_1R_4R_6 + C_1C_
10.2002 X-INVALID-ORDER-2002 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4R_5s^4 + C_3 + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_5R_1R_2R_5 + C_1C_3C_4C_5R_2R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_2C_3C_4R_2R_4 + C_2C_3C_5R_2R_5 + C_2C_3C_4R_2R_4 + C_2C_3C_5R_2R_5 + C_2C_3C_4C_5R_2R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_2C_3C_4R_2R_4 + C_2C_3C_5R_2R_5 + C_2C_3C_4R_2R_4 + C_2C_3C_5R_2R_5 + C_2C_3C_4C_5R_2R_4 + C_2C_3C_4C_5R_2R_4 + C_2C_3C_4C_5R_2R_4 + C_2C_3C_4C_5R_2R_5 + C_2C_3C_4C_5R_4R_5 + C_2C_3C_4C_5
10.2003 X-INVALID-ORDER-2003 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_4C_5C_6R_1R_2R_4R_5R_6s^5 + C_3 + s^4\left(C_1C_2C_3C_4C_5R_1R_2R_4R_5 + C_1C_2C_3C_4C_6R_1R_2R_4R_6 + C_1C_2C_3C_5C_6R_1R_2R_5R_6 + C_1C_3C_4C_5C_6R_1R_4R_5R_6 + C_2C_3C_4C_5C_6R_2R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_6R_1R_2R_6 + C_1C_3C_4C_5C_6R_1R_4R_5R_6 + C_2C_3C_4C_5C_6R_2R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_6R_1R_2R_6 + C_1C_3C_4C_5C_6R_1R_4R_5R_6 + C_2C_3C_4C_5C_6R_2R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_3C_4C_5R_1R_4R_5 + C_1C_2C_3C_4C_5R_4R_5 + C_1C_2C_3C_4C_5C_5R_4R_5 + C_1C_2C_3C_4C_5C_5R_4R_5 + C_1C_2C_3C_4C_5C_5R_4R_5 + C_1C_2C_3C_4C_5C_5R_4R_5 + C_1C_2C_3C_4C_5C_5R_
10.2004 X-INVALID-ORDER-2004 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4R_5R_6s^4 + C_3R_6 + s^3\left(C_1C_2C_3C_4R_1R_4R_5R_6 + C_1C_2C_3C_4R_1R_4R_5R_6 + C_1C_2C_3C_4R_1R_4R_5 + C_1C_2C_3C_
10.2005 X-INVALID-ORDER-2005 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                         H(s) = \frac{C_1C_2C_3R_1R_2R_4s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C
10.2006 X-INVALID-ORDER-2006 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                         H(s) = \frac{C_1C_2C_3C_6R_1R_2R_4R_6s^3 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_1R_4R_6 + C_2C_3C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4 + C_3C_6R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3C_6R_4R_5\right) + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4 + C_3C_6R_4R_6\right)}
10.2007 X-INVALID-ORDER-2007 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_3R_1R_2R_4R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6\right)}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_1R_4R_5R_6 + C_1C_2C_4C_6R_2R_4R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_4R_2R_4R_5 + C_1C_2C_6R_2R_4R_6 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_2C_6R_4R_5R_6 + C_1C_4C_6R_4R_5R_6 +
10.2008 X-INVALID-ORDER-2008 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6 + C_2C_3C_5R_2R_4R_6\right)}{C_1 + s^2\left(C_1C_2C_3R_1R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_4R_2R_4 - C_1C_2C_5R_2R_4\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_2C_3R_4\right)}
10.2009 X-INVALID-ORDER-2009 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                         H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_4 + s^2\left(C_1C_2C_3C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_4R_6 + C_2C_3C_5C_6R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_6R_2R_4 - C_1C_2C_5C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}
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 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6 + C_2C_3C_5R_2R_4R_6\right)}{C_1 + s^3\left(C_1C_2C_3C_6R_1R_4R_6 + C_1C_2C_3C_6R_2R_4R_6 + C_1C_2C_5C_6R_2R_4R_6 + C_1C_2C_3R_2R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_6R_2R_6 + C_1C_2C_6R_2R_6 + C_1C_3C_6R_4R_6 + C_1C$

10.2010 X-INVALID-ORDER-2010 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

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10.2011 X-INVALID-ORDER-2011 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6 + C_2C_3C_5R_2R_4R_6\right)}{C_1 + s^3\left(C_1C_2C_3C_5R_1R_4R_5 + C_1C_2C_3C_5R_2R_4R_5 + C_1C_2C_3R_2R_4 + C_1C_2C_5R_2R_4 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_2R_5 + C_1C_3C_5R_4R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R_5R_5 + C_1C_3C_5R_5R_5 + C_1C
10.2012 X-INVALID-ORDER-2012 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4\right)}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_4R_5 + C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 
10.2013 X-INVALID-ORDER-2013 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_4 + s^2\left(C_1C_2C_3C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_4R_6 + C_2C_3C_5C_6R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_4R_5 + C_1C_2C_3C_5C_6R_2R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 + C_1C_2C_5C_6R_4R_5 + C_1
10.2014 X-INVALID-ORDER-2014 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 + s^4 \left( C_1 C_2 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_2 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_5 R_1 R_4 R_6 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_5 C_5 R_5 R_4 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_5 C_5 R_5 R_5 R_5 R_5 R_5 \right) + s^3 \left( C_1 C_2 C_5 C_5 R_5 R_5 R_5 R_5 \right) + s^3 \left( C_1 C_2 C_5 C_5 R_5
10.2015 X-INVALID-ORDER-2015 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                           H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_4R_6 + s^2\left(C_1C_2C_3R_1R_2R_4R_6 + C_1C_3C_5R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_3R_2R_4R_5 + C_1C_2C_4R_2R_4R_5 - C_1C_2C_5R_2R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}
10.2016 X-INVALID-ORDER-2016 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                    H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5s^3 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4 + C_3C_5R_4R_5\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_5 + C_1C_3C_6R_4R_5 + C_1
10.2017 X-INVALID-ORDER-2017 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_4 + s^3\left(C_1C_2C_3C_5R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_4R_5 + C_1C_3C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_1R_4R_5 + C_1C_3C_5R_1R_4R_5 + C_1C_3C_5R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_5R_2R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_
10.2018 X-INVALID-ORDER-2018 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{4}R_{5}R_{6}s^{3} + C_{3}R_{4}R_{6} + s^{2}\left(C_{1}C_{2}C_{3}R_{1}R_{2}R_{4}R_{6} + C_{1}C_{3}C_{5}R_{1}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{2}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{5}R_{6} + C_{2}C_{3}C_{5}R_{5}R_{6}R_{6} + C_{2}C_{5}R_{5}R_{6} + C_{2}C_{5}R_{5}R_{5}R_{6} + C_{2}C_{5}R_{5}R_{5}R_{5}R_{5}R_
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_4R_6 + s^2\left(C_1C_2C_3R_1R_2R_4R_6 + C_1C_3C_5R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_6R_1R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_4R_2R_4R_5 - C_1C_2C_5R_2R_4R_5 - C_1C_2C_6R_2R_4R_5 + C_1C_2C_6R_2R_4R_5R_6\right)}
10.2019 X-INVALID-ORDER-2019 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3R_1R_2R_4s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4\right)}{s^3\left(C_1C_2C_3C_6R_1R_4R_5 - C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R
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 $\textbf{10.2020 X-INVALID-ORDER-2020} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ R_4, \ R_5, \ R_6 + \frac{1}{C_6 s}\right) \\ H(s) = \frac{C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 s^3 + C_3 R_4 + s^2 \left(C_1 C_2 C_3 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_4 R_6 + C_2 C_3 C_6 R_2 R_4 R_6\right) + s \left(C_1 C_3 R_1 R_4 + C_2 C_3 R_2 R_4 + C_3 C_6 R_4 R_6\right)}{s^3 \left(C_1 C_2 C_3 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_4 R_5\right) + s^2 \left(-C_1 C_2 C_6 R_2 R_4 + C_1 C_2 C_6 R_2 R_4 + C_1 C_3 C_6 R_3 R_4 + C_1 C_3 C_6 R_3 R_5 + C_1 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_2 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5 + C_1 C_3 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_4 R_5\right) + s \left(-C_1 C_6 R_5 R_5 R_5 + C_1 C_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5\right) + s \left(-C_1 C_5 R_5 R_5 R_5\right) + s \left$

10.2023 X-INVALID-ORDER-2023 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4\right)}{-C_1C_2C_3C_5C_6R_2R_3R_4s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 + C_2C_3C_6R_4\right)}$

10.2024 X-INVALID-ORDER-2024 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_4 + s^2\left(C_1C_2C_3C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_4R_6 + C_2C_3C_5C_6R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{-C_1C_2C_3C_5C_6R_2R_3R_4s^3 + C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_5C_6R_2R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1$

10.2025 X-INVALID-ORDER-2025 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6s + c_1C_2C_3C_6R_2R_4R_6s + c_1C_2C_3C_6R_3R_4R_6s + c_1C_2C_3C_6R_3$

10.2026 X-INVALID-ORDER-2026 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6 + C_2C_3C_5R_2R_4R_6\right)}{C_1 + s^3\left(C_1C_2C_3C_5R_1R_4R_5 - C_1C_2C_3C_5R_2R_3R_4 + C_1C_2C_3C_5R_2R_4R_5 + C_1C_2C_3C_5R_2R_4R_5 + C_1C_2C_3R_2R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_5R_2R_4 + C_1C_2C_5R_2R_4$

10.2027 X-INVALID-ORDER-2027 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.2028 X-INVALID-ORDER-2028 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_4 + s^2\left(C_1C_2C_3C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_4R_6 + C_2C_3C_5C_6R_2R_4R_6\right) + s\left(C_1C_2C_3C_5C_6R_1R_4R_5 - C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2C_3C_5C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2C_3C_5C_6R_2R_4 + C_1C_2C_5C_5C_6R_2R_4 + C_1C_2C_5C_5C_6R_2R_4 + C_1C_2C_5C_5C_6R_2R_4 + C_1C_2C_5C_$

10.2029 X-INVALID-ORDER-2029 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2030 X-INVALID-ORDER-2030 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_4R_6 + s^2\left(C_1C_2C_3R_1R_2R_4R_6 + C_1C_3C_5R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1C_2C_3C_5R_2R_3R_4R_5s^3 - C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 - C_1C_2C_3R_2R_4R_5 + C_1C_2C_3R_2R_4R_5 - C_1C_2R_2R_4 + C_1C_2R_2R_5 + +$

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10.2031 X-INVALID-ORDER-2031 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5s^3 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4 + C_3C_5R_4R_5\right)}{-C_1C_2C_3C_6R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_4R_5 - C_1C_2C_5C_6R_2R_4R_5 - C_1C_2C_5C_6R_2R_4R_5\right) + s^2\left(-C_1C_2C_6R_2R_4 + C_1C_2C_6R_2R_4 + C_1
 10.2032 X-INVALID-ORDER-2032 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_4 + s^3\left(C_1C_2C_3C_5R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_4R_5 + C_1C_2C_3C_6R_1R_4R_5 + C_1C_3C_5C_6R_1R_4R_5 + C_1C_3C_5R_1R_4R_5 + C_1C_3C_5R_1R_4R_
10.2033 X-INVALID-ORDER-2033 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6s^4 - C_1R_4 + C_1R_5 + s^3\left(-C_1C_2C_3C_5R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_5 + C_1C_2C_3C_6R_2R_4R_5R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2
10.2034 X-INVALID-ORDER-2034 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)
                                                                                                H(s) = \frac{C_1C_2C_3R_1R_2R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6\right)}{C_1C_2C_3C_4R_2R_3R_5s^3 - C_1 + s^2\left(C_1C_2C_3R_1R_5 - C_1C_2C_3R_2R_3 + C_1C_2C_3R_2R_5 + C_1C_2C_3R_3R_5 + C_1C_2C_4R_2R_5 + C_1C_3C_4R_3R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 - C_1C_3R_3 + C_1C_3R_5 + C_1C_4R_5 + C_2C_3R_5\right)}
10.2035 X-INVALID-ORDER-2035 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                  H(s) = \frac{C_1C_2C_3R_1R_2s^2 + C_3 + s\left(C_1C_3R_1 + C_2C_3R_2\right)}{C_1C_2C_3C_4C_6R_2R_3R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 - C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_2R_5 + C_1C_2C_4C_6R_2R_5 + C_1C_3C_4C_6R_3R_5\right) + s^2\left(-C_1C_2C_6R_2 + C_1C_2C_6R_5 - C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1C_4C_6R_5 + C_2C_3C_6R_5\right)}
10.2036 X-INVALID-ORDER-2036 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                  H(s) = \frac{C_1C_2C_3C_6R_1R_2R_6s^3 + C_3 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_6R_1R_6 + C_2C_3C_6R_2R_6\right) + s\left(C_1C_3R_1 + C_2C_3R_2 + C_3C_6R_6\right)}{C_1C_2C_3C_4C_6R_2R_3R_5s^4 - C_1C_6s + s^3\left(C_1C_2C_3C_6R_1R_5 - C_1C_2C_3C_6R_2R_3 + C_1C_2C_3C_6R_3R_5 + C_1C_2C_4C_6R_2R_5 + C_1C_3C_4C_6R_3R_5\right) + s^2\left(-C_1C_2C_6R_5 + C_1C_3C_6R_3 + C_1C_3C_6R_3 + C_1C_3C_6R_5 + C_1
10.2037 X-INVALID-ORDER-2037 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_3R_1R_2R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_2C_3C_4R_2R_3R_5 + C_1C_2C_3C_4R_2R_3R_5 + C_1C_2C_3C_6R_2R_3R_6 + C_1C_2C_3C_4R_2R_3R_6 + C_1C_2C_3C_4R_2R_3R_5 + C_1C_2C_3C_4R_2R_3C
10.2038 X-INVALID-ORDER-2038 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                        H(s) = \frac{C_1C_2C_3C_5R_1R_2s^2 + C_3C_5 + s\left(C_1C_3C_5R_1 + C_2C_3C_5R_2\right)}{s^3\left(C_1C_2C_3C_4C_6R_2R_3 - C_1C_2C_3C_5C_6R_2 + C_1C_2C_3C_6R_1 + C_1C_2C_3C_6R_2 + C_1C_2C_3C_6R_3 + C_1C_2C_5C_6R_2 + C_1C_3C_4C_6R_3 - C_1C_3C_5C_6R_3\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
10.2039 X-INVALID-ORDER-2039 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                       H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_6s^3 + C_3C_5 + s^2\left(C_1C_2C_3C_5R_1R_2 + C_1C_3C_5C_6R_1R_6 + C_2C_3C_5C_6R_2R_6\right) + s\left(C_1C_3C_5R_1 + C_2C_3C_5R_2 + C_3C_5C_6R_6\right)}{s^3\left(C_1C_2C_3C_4C_6R_2R_3 - C_1C_2C_3C_5C_6R_2R_3\right) + s^2\left(C_1C_2C_3C_6R_1 + C_1C_2C_3C_6R_2 + C_1C_2C_3C_6R_3 + C_1C_2C_4C_6R_2 - C_1C_2C_5C_6R_2 + C_1C_3C_4C_6R_3 - C_1C_3C_5C_6R_3\right) + s\left(C_1C_2C_6 + C_1C_3C_6 + C_1C_4C_6 - C_1C_5C_6 + C_2C_3C_6\right)}
10.2040 X-INVALID-ORDER-2040 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_6s + C_3C_5R_6 + s (C_1C_3C_5R_1R_6 + C_2C_3C_5R_1R_6 + C_2C_3C_5R_1R_6 + C_2C_3C_5R_1R_6 + C_2C_3C_5R_1R_6 + C_2C_3C_5R_1R_6 + C_2C_3C_5R_1R_6 + C_2C_3C_5R_2R_3 + C_1C_2C_3C_6R_2R_6 + C_1C_2C_3C_4R_2R_6 + C_1C_2C_3C_4R_4R_4 + C_1C_3C_4C_4R_4R_4 + C_1C_3C_4C_4R_4 + C_1$

 $C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6)$

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10.2042 X-INVALID-ORDER-2042 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_1C_2C_3C_5R_1R_2s^2 + C_3C_5 + s\left(C_1C_3C_5R_1 + C_2C_3C_5R_2\right)
10.2043 X-INVALID-ORDER-2043 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_{1}C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{6}s^{3} + C_{3}C_{5} + s^{2}\left(C_{1}C_{2}C_{3}C_{5}R_{1}R_{2} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{6} + C_{2}C_{3}C_{5}C_{6}R_{2}R_{6}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}C_{6}R_{1}R_{6} + C_{2}C_{3}C_{5}C_{6}R_{2}R_{6}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}C_{6}R_{1}R_{6} + C_{2}C_{3}C_{5}C_{6}R_{2}R_{6}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}C_{6}R_{1}R_{6}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}R_{1}R_{6}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}R_{1}R_{6}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}R_{1}R_{1}R_{2}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}R_{1}R_{1}R_{2}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}R_{1}R_{2}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}R_{1}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{2}C_{3}C_{5}R_{1}\right) + s\left(C_{1}C_{3}C_{5}R_{1}
H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_6s^3 + C_3C_5 + s^2\left(C_1C_2C_3C_5R_1R_2 + C_1C_3C_5C_6R_1R_6 + C_2C_3C_5C_6R_2R_6\right) + s\left(C_1C_3C_5R_1 + C_2C_3C_5C_6R_2R_3 + C_1C_2C_3C_5C_6R_2R_3 + C_1C_2C_3C_5C_6R_2R_5 + C_1C_2C_3C_5C_6R_3R_5 + C_1C_2C_3C_5C_6R_3 + C_1C_2C_3C_5C_6R_3 + C_1C_2C_3C_5C_6R_3 + C_1C_2C_3C_5C_6R_3 + C_1
10.2044 X-INVALID-ORDER-2044 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.2045 X-INVALID-ORDER-2045 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_6 + s^2\left(C_1C_2C_3R_1R_2R_6 + C_1C_3C_5R_1R_5R_6 + C_2C_3C_5R_2R_5R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^3\left(C_1C_2C_3C_4R_2R_3R_5 - C_1C_2C_3C_5R_2R_3 + C_1C_2C_3R_2R_5 + C_
10.2046 X-INVALID-ORDER-2046 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
10.2047 X-INVALID-ORDER-2047 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_5R_6s^4 + C_3 + s^3\left(C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_6R_1R_2R_6 + C_1C_3C_5C_6R_1R_5R_6 + C_2C_3C_5C_6R_2R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_5R_1R_5 + C_1C_3C_6R_1R_6 + C_2C_3C_5R_2R_5 + C_2C_3C_6R_2R_6 + C_3C_5C_6R_2R_6\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_5R_1R_5 + C_1C_3C_5R_1R_5 + C_1C_3C_5R_2R_5 + C_2C_3C_6R_2R_6 + C_3C_5C_6R_2R_6\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_5R_1R_5 + C_1C_3C_5R_1R_5 + C_1C_3C_5R_2R_5 + C_2C_3C_6R_2R_5 + C_
10.2048 X-INVALID-ORDER-2048 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2C_3C_5R}{-C_1 + s^4\left(C_1C_2C_3C_4C_6R_2R_3R_5R_6 - C_1C_2C_3C_5C_6R_2R_3R_5R_6 + C_1C_2C_3C_5R_2R_3R_5 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_3C_6R_2R_3R_6 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_3C_4R_3R_5 + C_1C_2C_3C_4R_3R_5 + C_1C_2C_3C_4R_3R_5 + C_1C_2C_3C_4R_3R_5 + C_1C_2C_3C_4R_3R
10.2049 X-INVALID-ORDER-2049 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_1C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_6 + s^2\left(C_1C_2C_3R_1R_2R_6 + C_1C_3C_4R_1R_4R_6 + C_2C_3C_4R_2R_4R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6 + C_3C_4R_4R_4R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6 + C_3C_4R_4R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6 + C_3C_4R_4R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_4R_4R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_4R_4R_6\right) + s\left(C_1C_3R_1R_6 + C_2C_3R_4R_4R_6\right) + s\left(C_1C_3R_4R_4R_6 + C_2C_3R_4R_4R_6\right) + s\left(C_1C_3R_4R_4R_6\right) + s\left(
10.2050 X-INVALID-ORDER-2050 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_2C_3C_4R_1R_2R_4s^3 + C_3 + s^2(C_1C_2C_3R_1R_2 + C_1C_3C_4R_1R_4 + C_2C_3C_4R_2R_4) + s(C_1C_3C_4R_1R_4 + C_2C_3C_4R_4R_4) + s(C_1C_3C_4R_4R_4 + C_2C_3C_4R_4R_4 + C_2C_3C_4R_4 + C_2C_3C_4R_4
H(s) = \frac{-c_1c_2c_3c_4c_6R_1R_4R_5 - c_1c_2c_3c_4c_6R_2R_3R_4 + c_1c_2c_3c_4c_6R_2R_3R_5 + c_1c_2c_3c_4c_6R_3R_4R_5) + s^3\left(c_1c_2c_3c_4c_6R_2R_3 + c_1c_2c_3c_4c_6R_2R_3 + c_1c_3c_4c_6R_2R_3 + c_1c_3c_4c_6R_2R_3 + c_1c_3c_4c_6R_3 + c_1c_3c_4c_6
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 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6\right)}{C_1C_2C_3C_4C_5R_2R_3R_5s^3 + C_1C_2 + C_1C_3 + c_1C_4 + c_1C_5 + c_2C_3 + c_3C_5R_1R_5 - c_1C_2C_3C_5R_2R_3 + c_1C_2C_3C_5R_2R_5 + c_1C_2C_4C_5R_2R_5 + c_1C_3C_4C_5R_3R_5) + s\left(C_1C_2C_3R_1 + C_1C_2C_3R_2 + c_1C_2C_3R_3 + c_1C_2C_4R_5R_5\right)}$

 $C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6)$

10.2041 X-INVALID-ORDER-2041 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

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10.2051 X-INVALID-ORDER-2051 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_4C_6R_1R_2R_4R_6s^4 + C_3 + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_6R_1R_2R_6 + C_1C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_4R_1R_4 + C_1C_3C_4C_6R_1R_4R_6 + C_2C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_4R_1R_4 + C_1C_3C_4R_1R_4 + C_1C_3C_4C_6R_1R_4R_6\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_3C_4R_1R_4 + C_1C_3C_4R_1R_4 + C_1C_3C_4C_6R_1R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4R_6 + C_1C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4 + C_1C_2C_3C_4C_6R_2R_4\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4\right) + s^2\left(C_1C_2C_3C_4C_6R_2R_4\right) + s^2\left(C_1C_2C_3C_4C_4C_4R_4\right) + s^2\left(C_1C_2C_3C_4C_4C_4R_4\right) + s^2\left(C_1C_2C_3C_4C_4C_4R_4\right) + 
10.2052 X-INVALID-ORDER-2052 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-C_1 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_4 R_5 R_6 - C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 R_5 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 R_5 R_5 R_5 R_6 + C_1 C_2 C_3 C_4 R_5 R_5 R_6 + C_1 C_2 C_3 C_4 R_5 R_5 R_
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10.2053 X-INVALID-ORDER-2053 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_6 + s^2\left(C_1C_2C_3C_5R_1R_2R_6 + C_1C_3C_4C_5R_1R_4R_6 + C_2C_3C_4C_5R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6 + C_3C_4C_5R_4R_6\right)}{-C_1C_2C_3C_4C_5R_2R_3R_4s^3 + C_1C_2 + C_1C_3C_4C_5R_2R_4 + C_1C_2C_3C_4R_2R_4 + C_1C_2C$

10.2054 X-INVALID-ORDER-2054 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \frac{1}{C_6 s}\right)$

 $C_{1}C_{2}C_{3}C_{4}C_{5}R_{1}R_{2}R_{4}s^{3} + C_{3}C_{5} + s^{2}\left(C_{1}C_{2}C_{3}C_{5}R_{1}R_{2} + C_{1}C_{3}C_{4}C_{5}R_{1}R_{4} + C_{2}C_{3}C_{4}C_{5}R_{2}R_{4}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{1}C_{3}C_{5}R_{1}R_{2} + C_{1}C_{3}C_{4}C_{5}R_{1}R_{4} + C_{2}C_{3}C_{4}C_{5}R_{2}R_{4}\right) + s\left(C_{1}C_{3}C_{5}R_{1} + C_{1}C_{3}C_{5}R_{1}R_{2} + C_{1}C_{5}R_{1}R_{2} + C_{1}C_{5}R_{1}R_{2} + C_{1}C_{5}R_{1}R_{2} + C_{1}C_{5}R_{1}R_{2} + C_{1}C_{5}R_{1}R_{2} + C_{1}C_{5}R_{1}R$

10.2055 X-INVALID-ORDER-2055 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

10.2056 X-INVALID-ORDER-2056 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-C_1C_2C_3C_4C_5C_6R_2R_3R_4R_6s^4 + C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^3\left(-C_1C_2C_3C_4C_5R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_3R_6 + C_1C_2C_3C_4C_6R_2R_4R_6 + C_1C_2C_3C_4C_6R_3R_4R_6 - C_1C_2C_3C_4C_5R_2R_3R_6 - C_1C_2C_3C_4C_5R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_4R_6 + C_1C_2C_3C_4C_6R_2R_4R_6 + C_1C_2C_3C_4C_6R_2R_4R_6 - C_1C_2C_3C_4C_5R_2R_4R_6 - C_1C_2C_3C_4C_5R_4R_4R_6 - C_1$

10.2057 X-INVALID-ORDER-2057 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1 C_2 C_3}{C_1 C_2 + C_1 C_3 + C_1 C_4 - C_1 C_5 + C_2 C_3 + s^3 \left(C_1 C_2 C_3 C_4 C_5 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_5 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 R_3 R_4 R_5 \right) + s^2 \left(C_1 C_2 C_3 C_4 R_1 R_4 + C_1 C_2 C_3 C_4 R_2 R_3 + C_1 C_2 C_3 C_4 R_3 R_4 + C_1 C_2 C_3 C_4 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 R_3 R_4 R_5 \right) + s^2 \left(C_1 C_2 C_3 C_4 R_1 R_4 + C_1 C_2 C_3 C_4 R_2 R_4 + C_1 C_2 C_3 C_4 R_3 R_4 + C_$

10.2058 X-INVALID-ORDER-2058 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 - C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_3 C_4 C_5 C_6$

10.2059 X-INVALID-ORDER-2059 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_1C_2C_3C_4C_5C_6R_1R_2R_4R_6s^4$

 $H(s) = \frac{C_1C_2C_3C_4C_5C_6R_1R_2R_4R_6s^4}{s^4\left(C_1C_2C_3C_4C_5C_6R_1R_4R_5 - C_1C_2C_3C_4C_5C_6R_2R_3R_4 + C_1C_2C_3C_4C_5C_6R_2R_4R_5 + C_1C_2C_3C_4C_5C_6R_3R_4R_5\right) + s^3\left(C_1C_2C_3C_4C_6R_2R_3 + C_1C_2C_3C_4C_6R_2R_4 + C_1C_2C_3C_4C_6R_2R_4 + C_1C_2C_3C_4C_5C_6R_2R_4R_5 + C_1C_2C_3C_4C_5C_6R_3R_4R_5\right) + s^3\left(C_1C_2C_3C_4C_6R_2R_4 + C_1C_2C_3C_4C_6R_2R_4 + C_1C_2C_3C_4C_5C_6R_2R_4 + C_1C_2C_3C_4C_5C_6R_2R_4 + C_1C_2C_3C_4C_5C_6R_2R_4 + C_1C_2C_3C_4C_5C_6R_2R_4R_5 + C_1C_2C_3C_4C_5C_6R_2R_4 + C_1C$

10.2060 X-INVALID-ORDER-2060 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^4(C_1C_2C_3C_4C_5C_6R_1R_4R_5R_6 - C_1C_2C_3C_4C_5C_6R_2R_3R_4R_6 + C_1C_2C_3C_4C_5C_6R_2R_3R_5R_6 + C_1C_2C_3C_4C_5C_6R_2R_4R_5R_6 + C_1C_2C_3C_4C_5C_6R_3R_4R_5R_6) + s^3(C_1C_2C_3C_4C_5R_1R_4R_5 - C_1C_2C_3C_4C_5R_2R_3R_4 + C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_3C_4C_5C_6R_3R_4R_5R_6) + s^3(C_1C_2C_3C_4C_5R_1R_4R_5 - C_1C_2C_3C_4C_5R_2R_3R_4 + C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_3C_4C_5C_6R_3R_4R_5R_6) + s^3(C_1C_2C_3C_4C_5R_1R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_6 + C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_3C_4C_5C_6R_3R_4R_5R_6) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5 - C_1C_2C_3C_4C_5C_6R_2R_3R_4R_6 + C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5 - C_1C_2C_3C_4C_5R_3R_4R_5R_6) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5R_6 + C_1C_2C_3C_4C_5R_3R_4R_6) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5R_6) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5R_5) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5R_5) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5R_5) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5R_5) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5R_5) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5) + s^3(C_1C_2C_3C_4C_5R_3R_4R_5) + s^3(C_1C_2C_3C_4C_5R_5R_5R_5) + s^3(C_1C_2C_3C_4C_5R_5R_5R_5R_5) + s^3(C_1C_2C_3C_4C_5R_5R_5R_5R_5) + s^3(C_1C_2C_3C_4C_5R_5R_5R_5) + s^3(C_1C_2C_3C_4C_5R_5R_5R_5R_5) + s^3(C_1C_2C_3C_4C_5R_5R_5R_5) + s^3(C_1C_2C_3C_4C_5R_5R_5R_5) + s$

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10.2061 X-INVALID-ORDER-2061 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4R_5R_6s^4 + C_3R_6 + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_6 + C_1C_2C_3C_5R_1R_2R_5R_6 + C_1C_3C_4C_5R_1R_4R_5R_6 + C_2C_3C_4C_5R_2R_4R_5R_6\right) + s^2\left(C_1C_2C_3C_4C_5R_2R_3R_4R_5s^4 - C_1 + s^3\left(C_1C_2C_3C_4R_1R_4R_5 - C_1C_2C_3C_4R_2R_3R_4 + C_1C_2C_3C_4R_2R_4R_5 + C_1C_2C_3C_4R_2R_4R_5 - C_1C_2C_3C_4R_2R_4R_5 - C_1C_2C_3C_4R_2R_4R_5 + C_1C_2C_3C_4R_2R_4R_5 + C_1C_2C_3C_4R_2R_4R_5 - C_
10.2062 X-INVALID-ORDER-2062 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_4R_5s^4 + C_3 + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_3C_4C_6R_2R_3R_5 + C_1C_2C_3C_4C_6R_2R_3R_5 - C_1C_2C_3C_4C_6R_2R_4R_5 - C_1C_2C_3C_4C_6R_4R_4R_5 - C_1C_2C_
10.2063 X-INVALID-ORDER-2063 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                        \frac{C_{1}C_{2}C_{3}C_{4}C_{5}C_{6}R_{1}R_{2}R_{4}R_{5}R_{6}s^{5} + C_{3} + s^{4}\left(C_{1}C_{2}C_{3}C_{4}C_{5}R_{1}R_{2}R_{4}R_{5} + C_{1}C_{2}C_{3}C_{4}C_{6}R_{1}R_{2}R_{4}R_{6} + C_{1}C_{2}C_{3}C_{4}C_{6}R_{1}R_{2}R_{5}R_{6} + C_{1}C_{3}C_{4}C_{5}C_{6}R_{1}R_{4}R_{5}R_{6} + C_{2}C_{3}C_{4}C_{5}C_{6}R_{2}R_{4}R_{5}R_{6}\right) + s^{3}\left(C_{1}C_{2}C_{3}C_{4}R_{1}R_{2}R_{4} + C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{5} + C_{1}C_{2}C_{3}C_{4}C_{6}R_{1}R_{4}R_{5} + C_{1}C_{2}C_{3}C_{4}C_{6}R_{1}R_{4}R_{5} + C_{1}C_{2}C_{3}C_{4}C_{6}R_{2}R_{4}R_{5} + C_{1}C_{2}C_{3}C_{4}
10.2064 X-INVALID-ORDER-2064 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6s^5 - C_1 + s^4\left(-C_1C_2C_3C_4C_5R_2R_3R_4R_5 + C_1C_2C_3C_4C_6R_2R_3R_4R_6 + C_1C_2C_3C_4C_6R_2R_3R_5R_6 + C_1C_2C_3C_4C_6R_2R_4R_5R_6 + C_1C_2C_3C_4C_6R_4R_4R_5R_6 + C_1C_2C_3C_4C_6R_4R_5R_5R_5 + C_1C_2C_3C_4C_6R_5R_5R_5R_5 + C_1C_2C_3C_4C_6R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_4C_5R_5R_5R_5 + C_1C_2C_3C_5C_5
10.2065 X-INVALID-ORDER-2065 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)
H(s) = \frac{C_1C_2C_3R_1R_2R_4R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6\right)}{C_1C_2C_3C_4R_2R_3R_4R_5s^3 - C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 - C_1C_2C_3R_2R_3R_4 + C_1C_2C_3R_2R_3R_5 + C_1C_2C_3R_2R_4R_5 + C_1C_2C_3R_2R
10.2066 X-INVALID-ORDER-2066 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
C_1C_2C_3R_1R_2R_4s^2 + C_3R_4 + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4\right)
10.2067 X-INVALID-ORDER-2067 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_6R_1R_2R_4R_6s^3 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_1R_4R_6 + C_2C_3C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_4 + C_2C_3R_2R_4 + C_3C_6R_4R_6\right)}{C_1C_2C_3C_4C_6R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_4R_5 + C_1C_2C_3C_3C_4R_4R_5 + C_1C_2C_3C_4R_4R_5 + C_1C_2C_3C_4R_4R_5 + C_1C_2C_3C_4R_4R_5 + C_1C_2C_3C_4R_4R_5 + C_1
10.2068 X-INVALID-ORDER-2068 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1C_2C_3C_4C_6R_2R_3R_4R_5R_6s^4 - C_1R_4 + C_1R_5 + s^3\left(C_1C_2C_3C_4R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_6 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_3C_6R_2R_4R_5R_6 + C_1C_2C_3C_6R_4R_5R_5R_5 + C_1C_2C_3C_6R_4R_5R_5R_5 + C_1C_2C_3C_6R_5R_5R_5R_5 + C_1C_2C_3C_6R_5R_5R_5R_5 + C_1C_2C_3C_6R_5R_5R_5R_5 + C_1C_2C_3C_6R_5R_5R_5 + C_1C_
10.2069 X-INVALID-ORDER-2069 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_4R_6s + s^2\left(C_1C_3C_5R_1R_4R_6 + C_2C_3C_5R_2R_4R_6\right)}{C_1 + s^3\left(C_1C_2C_3C_4R_2R_3R_4 - C_1C_2C_3R_2R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_4R_2R_4 - C_1C_2C_5R_2R_4 + C_1C_3C_5R_3R_4\right) + s\left(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_3 + C_1C_4R_4 - C_1C_5R_4 + C_1C_4R_4 - C_1C_5R_4 + C_1C_4R_4 - C_1C_4R_4 + C_1C_
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 $C_1C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4\right)$

10.2070 X-INVALID-ORDER-2070 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

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10.2071 X-INVALID-ORDER-2071 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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10.2072 X-INVALID-ORDER-2072 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_6 - C_1 C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_2 R_3 R_4 - C_1 C_2 C_3 C_6 R_1 R_4 R_6 + C_1 C_2 C_3 C_6 R_2 R_4 R_6 + C_1 C_2 C_3 C$

10.2073 X-INVALID-ORDER-2073 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_3C_5R_1R_2R_4R_6s^3 + C_3C_3C_5R_2R_3R_4R_5 + C_1C_2C_3C_5R_2R_3R_4 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_3R_4 + C_1C_2C_3C$ $C_1C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_6$

10.2074 X-INVALID-ORDER-2074 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5s^4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_3R_4 + C_1C_2C_3C_5C$

10.2075 X-INVALID-ORDER-2075 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_1C_2C_3C_5C_6R_1R_2R_4R_6s^3$

 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_6s^3}{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5s^4 + C_1C_6 + s^3\left(C_1C_2C_3C_4C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_4R_5 + C_1C_2C_3$

10.2076 X-INVALID-ORDER-2076 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{C_1C_2C_3C_4C_5C_6R_2R_3R_4R_5R_6s^5 + C_1 + s^4\left(C_1C_2C_3C_4C_5R_2R_3R_4R_5 + C_1C_2C_3C_4C_6R_2R_3R_4R_6 + C_1C_2C_3C_5C_6R_2R_3R_4R_6 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_5R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_5R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_5R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_5R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_5R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5 + C_1C_2C_3C_5C_6R_2R_3R_4R_5 + C_1C_2C_3C_5C_6R_3R_4R_5R_5 + C_1C_2C_3C_5C_6R_5R_5R_5R_5C_5C_6R_5R_5R_5R_5C_5C_5R_5R_5R_5C_5C_5R_5R_5R_5C_5C_5R_5C_5R_5C_5R_5C_5R_5C_5C_5R_5C_5R_5C_5$

10.2077 X-INVALID-ORDER-2077 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_4R_6 + s^2\left(C_1C_2C_3R_1R_2R_4R_6 + C_1C_3C_5R_1R_4R_5R_6 + C_2C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6 + C_3C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_4R_6 + C_3C_3R_2R_4R_6 + C_3C_3R_2R_4R_5\right) + s\left(C_1C_3R_1R_4R_6 + C_3C_3R_2R_4R_6 + C_3C_3R_2R_4R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_3C_3R_3R_4R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_3C_3R_3R_4R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_3C_3R_4R_6\right) + s\left(C_1C_3R_1R_4R_6 + C_3C_3R_4R_6\right) + s\left$

10.2078 X-INVALID-ORDER-2078 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{4}R_{5}s^{3} + C_{3}R_{4} + s^{2}\left(C_{1}C_{2}C_{3}R_{1}R_{2}R_{4} + C_{1}C_{3}C_{5}R_{1}R_{4}R_{5} + C_{2}C_{3}C_{5}R_{2}R_{4}R_{5}\right) + s\left(C_{1}C_{3}R_{1}R_{2}R_{4} + C_{1}C_{3}C_{5}R_{1}R_{4}R_{5}\right) + s\left(C_{1}C_{3}R_{1}R_{2}R_{4} + C_{1}C_{3}R_{1}R_{4}R_{5}\right) + s\left(C_{1}C_{3}R_{1}R_{2}R_{4} + C_{1}C_{3}R_{1}R_{4}R_{5}\right) + s\left(C_{1}C_{3}R_{1}R_{2}R_{4} + C_{1}C_{3}R_{1}R_{4}R_{5}\right) + s\left(C_{1}C_{3}R_{1}R_{2}R_{4} + C_{1}C_{3}R$ $\frac{C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{4}R_{5}s^{3}+C_{3}R_{4}+s^{2}\left(C_{1}C_{2}C_{3}R_{1}R_{2}R_{4}+C_{1}C_{3}C_{5}R_{1}R_{4}R_{5}+C_{2}C_{3}C_{5}R_{2}R_{4}R_{5}\right)+s\left(C_{1}C_{3}R_{1}R_{2}R_{4}+C_{1}C_{2}C_{3}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{3}C_{$

10.2079 X-INVALID-ORDER-2079 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_4 + s^3\left(C_1C_2C_3C_5R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_5R_1R_4R_5 + C_1C_3C$

10.2080 X-INVALID-ORDER-2080 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $-C_1R_4 + C_1R_5 + s^4 \left(C_1C_2C_3C_4C_6R_2R_3R_4R_5R_6 - C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_2C_3C_6R_3R_4R_5 + C_1C_2C_3C_6$

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10.2081 X-INVALID-ORDER-2081 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)
                                                                                              H(s) = \frac{C_1C_2C_3R_1R_2R_3R_4R_6s^3 + R_4R_6 + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_3R_1R_3R_4R_6 + C_2C_3R_2R_3R_4R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6 + C_3R_3R_4R_6\right)}{s^3\left(C_1C_2C_3R_1R_3R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_3R_3R_4R_5\right) + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6 + C_3R_3R_4R_6\right)}
10.2082 X-INVALID-ORDER-2082 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)
                                            \frac{C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}R_{4}s^{3}+R_{4}+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{4}+C_{1}C_{3}R_{1}R_{3}R_{4}+C_{2}C_{3}R_{2}R_{3}R_{4}\right)+s\left(C_{1}R_{1}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{3}R_{4}\right)}{s^{4}\left(C_{1}C_{2}C_{3}C_{6}R_{1}R_{3}R_{4}F_{5}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}F_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{4}R_{5}-C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}
10.2083 X-INVALID-ORDER-2083 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_6R_1R_2R_3R_4R_6s^4 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_4R_6 + C_2C_3C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_3R_1R_3R_4 + C_1C_6R_1R_4R_6 + C_2C_3R_2R_3R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_1R_1R_4 + C_2R_2R_4 + C_1C_3R_1R_3R_4 + C_1C_3R_1R_
10.2084 X-INVALID-ORDER-2084 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ R_4, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \frac{C_1C_2C_3R_1R_2R_3R_4R_6s^6 + R_4R_6 + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_3R_1R_3R_4R_6 + C_2C_3R_1R_3R_4R_6 + C_1C_2C_3R_1R_3R_4R_6 + C_1C_2C_3R_1R_3R_4R_6 + C_1C_2C_3R_1R_3R_4R_6 + C_1C_2C_3R_1R_3R_4R_5 + C_1C_2C_3R_1R_3
10.2085 X-INVALID-ORDER-2085 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                 H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_4R_6 + s^2\left(C_1C_2C_5R_1R_2R_4R_6 + C_1C_3C_5R_1R_3R_4R_6 + C_2C_3C_5R_2R_3R_4R_6\right) + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_3R_2R_3R_4 - C_1C_2C_5R_2R_3R_4\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_3R_3R_4 
10.2086 X-INVALID-ORDER-2086 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                           H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4s^3 + C_5R_4 + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_3C_5R_1R_3R_4 + C_2C_3C_5R_2R_3R_4\right) + s\left(C_1C_5R_1R_4 + C_2C_5R_2R_4 + C_3C_5R_3R_4\right)}{s^3\left(C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_2C_6R_2R_4 + C_1C_2C_6R_3R_4 + C_1C_3C_6R_3R_4 +
10.2087 X-INVALID-ORDER-2087 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_4 + s^3\left(C_1C_2C_3C_5R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_4R_6 + C_1C_3C_5C_6R_1R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_5C_6R_1R_4R_6 + C_2C_3C_5R_2R_3R_4 + C_2C_5C_6R_2R_4R_6 + C_3C_5C_6R_2R_3R_4\right) + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_5C_6R_1R_4R_6 + C_2C_3C_5R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6
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10.2088 X-INVALID-ORDER-2088 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ R_4, \ \frac{1}{C_5 s}, \ \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_4R_6 + s^2\left(C_1C_2C_5R_1R_2R_4R_6 + C_1C_3C_5R_1R_3R_4R_6 + C_2C_3C_5R_2R_3R_4R_6\right) + s\left(C_1C_5R_2R_3R_4R_6 + C_1C_2C_5R_2R_3R_4R_6 + C_1C_2C_3R_3R_4R_6 + C_1C_2C_3R_3R_4R_6 + C_1C_2C_3R_3R_4R_6 + C_1C_2C_3R_3R_4R_6 + C_1C_2C_3R_3R_4R_6 + C_1C_2C_3R_3R_4R_6 + C_1C_2C_3$

10.2089 X-INVALID-ORDER-2089 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_4R_6 + s^2\left(C_1C_2C_5R_1R_2R_4R_6 + C_1C_3C_5R_1R_3R_4R_6 + C_2C_3C_5R_2R_3R_4R_6\right) + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_2R_4R_5 + C_1$

10.2090 X-INVALID-ORDER-2090 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}s^{3} + C_{5}R_{4} + s^{2}\left(C_{1}C_{2}C_{5}R_{1}R_{2}R_{4} + C_{1}C_{3}C_{5}R_{1}R_{3}R_{4} + C_{2}C_{3}C_{5}R_{2}R_{3}R_{4}\right) + c_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4} + c_{2}C_{3}C_{5}R_{2}R_{3}R_{4} + c_{3}C_{5}R_{1}R_{3}R_{4} + c_{4}C_{5}C_{5}R_{1}R_{3}R_{4} + c_{5}C_{5}R_{1}R_{3}R_{4} + c_{5}C_{5}R_{1}R_{2}R_{3}R_{4} + c_{5}C_{5}R_{1}R_{3}R_{4} + c_$ $\frac{s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_2 C_3 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_4 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_$

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10.2091 X-INVALID-ORDER-2091 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_4 + s^3\left(C_1C_2C_3C_5R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_2C_5C_6R_1R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_2C_5C_6R_1R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2C_5R_1R_2R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_3R_4 + C_1C_2C_5C_6R$

10.2092 X-INVALID-ORDER-2092 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1R_3 + C_1R_4 + C_2R_4 + s^4\left(C_1C_2C_3C_5C_6R_1R_3R_4R_5R_6 + C_1C_2C_3C_5C_6R_2R_3R_4R_5 + C_1C_2C_3C_5R_1R_3R_4R_5 + C_1C_2C_3C_5R_2R_3R_4R_6 + C_1C_2C_3C_6R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_3R_4R_6 + C_1C_2C_5C_6R_2R_3R_$

10.2093 X-INVALID-ORDER-2093 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_5R_6s^4 + R_4R_6 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_6 + C_1C_3C_5R_1R_3R_4R_5R_6 + C_2C_3C_5R_2R_3R_4R_5 + C_1C_3C_5R_1R_3R_4R_5R_6 + C_2C_3C_5R_2R_3R_4R_5 + C_1C_2R_1R_2R_4R_6 + C_1C_3R_1R_3R_4R_6 + C_1C_3R_1R_3R_4R_6 + C_2C_3R_2R_3R_4R_6 + C_2C_3R_2R_3R_4R_6 + C_2C_3R_2R_3R_4R_6 + C_2C_3R_2R_3R_4R_6 + C_2C_3R_2R_3R_4R_5 + C_2C_3R_2R_3R_4R_6 + C_2C_3R_3R_4R_6 + C_2C_3R_$

10.2094 X-INVALID-ORDER-2094 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}s^{4} + R_{4} + s^{3}\left(C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{5}R_{1}R_{2}R_{4}R_{5} + C_{1}C_{3}C_{5}R_{1}R_{3}R_{4}R_{5} + C_{2}C_{3}C_{5}R_{2}R_{3}R_{4} + C_{1}C_{5}R_{1}R_{3}R_{4} + C_{1}C_{5}R_{1}R_{4}R_{5} + C_{2}C_{3}R_{2}R_{3}R_{4} + C_{2}C_{5}R_{2}R_{3}R_{4} + C_{2}C_{5}R_{2}R_{3}R_{4}R_{5} \right) + s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{4} + C_{1}C_{3}R_{1}R_{3}R_{4} + C_{1}C_{5}R_{1}R_{4}R_{5} + C_{2}C_{3}R_{2}R_{3}R_{4} + C_{2}C_{5}R_{2}R_{3}R_{4}R_{5} \right) + s^{2}\left(C_{1}R_{1}R_{4} + C_{2}C_{5}R_{2}R_{3}R_{4} + C_{1}C_{5}R_{1}R_{3}R_{4} + C_{1}C_{5}R_{1}R_$

10.2095 X-INVALID-ORDER-2095 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $s^{4}\left(C_{1}C_{2}C_{3}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{2}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}C_{6}R_{2}R_{4}R_{5}\right)+s^{3}\left(C_{1}C_{2}$

10.2096 X-INVALID-ORDER-2096 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_1C_2C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_4R_6 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_6 + C_1C_2C_5R_1R_2R_4R_5R_6 + C_1C_3C_5R_1R_3R_4R_5R_6 + C_2C_3C_5}{s^4\left(C_1C_2C_3C_6R_1R_3R_4R_5R_6 + C_1C_2C_5R_2R_3R_4R_5 + C_1C_2C_5R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_2C_6R_2R_4R_5R_5 + C_1C_2C_6R_2R_4R_$

10.2097 X-INVALID-ORDER-2097 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_2C_3R_1R_2R_3R_6s^3 + R_6 + s^2\left(C_1C_2R_1R_2R_6 + C_1C_3R_1R_3R_6 + C_2C_3R_2R_3R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_6 + C_3R_3R_6\right)}{s^3\left(C_1C_2C_3R_1R_3R_5 + C_1C_2C_3R_2R_3R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_2R_2R_3 + C_1C_2R_2R_5 + C_1C_2R_3R_5 + C_1C_4R_3R_5 + C_2C_3R_3R_5\right) + s\left(-C_1R_3 + C_1R_5 + C_2R_3R_5\right)}$

10.2098 X-INVALID-ORDER-2098 $Z(s) = \left(R_1 + \frac{1}{C_{1s}}, R_2 + \frac{1}{C_{2s}}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_1C_2C_3R_1R_2R_3s^3 + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_3 + C_2C_3R_2R_3\right) + s\left(C_1R_1 + C_2R_2 + C_3R_3\right) + 1}{s^4\left(C_1C_2C_3C_6R_1R_3R_5 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_4C_6R_2R_3 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_4C_6R_3R_5 + C_1C_4C_6R_5 + C_1C_$

10.2099 X-INVALID-ORDER-2099 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_6R_1R_2R_3R_6s^4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_6R_1R_2R_6 + C_1C_3C_6R_1R_3R_6 + C_2C_3C_6R_2R_3R_6\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_3 + C_1C_6R_1R_6 + C_2C_3R_2R_3 + C_2C_6R_2R_6 + C_3C_6R_3R_6\right) + s\left(C_1R_1 + C_2R_2 + C_3R_3 + C_6R_6\right) + 1}{s^4\left(C_1C_2C_3C_6R_1R_3R_5 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_6R_2R_3R_5\right) + s^3\left(C_1C_2C_6R_1R_5 - C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_3 + C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_3 + C_1C_2C_6R_3R_5 + C_1C_3C_6R_3R_5\right) + s^2\left(C_1C_2R_1R_3 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_3R_5\right) + s^2\left(C_1C_2R_1R_3 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_3R_5\right) + s^2\left(C_1C_2R_1R_3 + C_1C_3C_6R_3R_5\right) + s^2\left(C_1C_3R_3R_5\right) + s^2\left(C_1$

10.2100 X-INVALID-ORDER-2100 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{s^4 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 R_2 R_3 R_5 + C_1 C_2 C_4 R_2 R_3 R_5 + C_1 C_2 C_6 R_2 R_3 R_6 + C_1 C_2 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_6 R_3$

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10.2101 X-INVALID-ORDER-2101 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, R_2 + \frac{1}{C_{2s}}, \frac{R_3}{C_{2R3+1}}, \frac{1}{C_{4s}}, \frac{1}{C_{5s}}, \frac{1}{C_{5s}}, R_6\right)
H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_3^3 + C_5R_6 + s^2(C_1C_2C_3R_1R_2R_6 + C_1C_3C_5R_1R_2R_6 + C_2C_3C_5R_2R_3R_6) + s(C_1C_3R_1R_6 + C_2C_3R_2R_6 + C_3C_5R_3R_6)}{C_1C_1C_2C_2R_1R_3 + C_1C_2C_2R_2R_3 - C_1C_2C_3R_2R_3 - C_1C_2C_3R_2R_6) + s(C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 - C_1C_3R_3R_6)}
10.2102 \quad X-INVALID-ORDER-2102 \quad Z(s) = \left(R_1 + \frac{1}{C_{1s}}, R_2 + \frac{1}{C_{2s}}, \frac{R_3}{C_{2R3+1}}, \frac{1}{C_{4s}}, \frac{1}{C_{5s}}, \frac{1}{C_{5s}}\right)
H(s) = \frac{C_1C_2C_3C_3R_1R_2R_3s^3 + C_1S_3 + C_1C_2C_3R_1R_3 + C_2C_3C_3R_2R_3) + s(C_1C_3R_1 + C_2C_3R_2 + C_1C_3R_3 + C_1C_3R_3 + C_2C_3C_3R_3)}{s^3(C_1C_2C_3C_3R_1R_3 + C_1C_2C_3C_3R_3R_3 + S^2(C_1C_2C_3R_1R_3 + C_2C_3C_3R_2R_3) + s(C_1C_3R_1 + C_2C_3R_2 + C_3C_3R_3)}
H(s) = \frac{C_1C_2C_3C_3R_1R_2R_3s^3 + C_1S_3 + C_1C_2C_3C_3R_1R_2R_3 + C_1C_3C_3R_1R_3 + C_2C_3C_3R_2R_3) + s(C_1C_3R_1 + C_2C_3R_2 + C_3C_3R_3 + C_2C_3C_3R_3)}{s^3(C_1C_2C_3C_3R_1R_3 + C_1C_2C_3C_3R_3R_3 + C_1C_3C_3R_1R_3 + C_2C_3C_3R_3R_3 + C_2C_3C_3R_3) + s(C_1C_3R_1 + C_2C_3R_3 + C_2C_3C_3R_3 + C_2C_3C_3R_3) + s(C_1C_3R_1R_3 + C_2C_3C_3R_3 + C_2C_3C_3R_3) + s(C_1C_3R_1R_3 + C_2C_3C_3R_3 + C_2C_3C_3R_3
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 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_6s^3 + C_5R_6 + s^2\left(C_1C_2C_5R_1R_2R_6 + C_1C_3C_5R_1R_3R_6 + C_2C_3C_5R_2R_3R_6\right) + s\left(C_1C_5R_1R_6 + C_2C_5R_2R_6 + C_3C_5R_2R_3R_6\right) + s\left(C_1C_5R_1R_6 + C_2C_5R_2R_3R_6\right) + s\left(C_1C_5R_1R_6 + C_2C_5R_2R_3R_6\right) + s\left(C_1C_5R_1R_3R_6 + C_1C_2C_3R_2R_3 + C_1C_2C_3R_2$

10.2105 X-INVALID-ORDER-2105 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_6s^3 + C_5R_6 + s^2\left(C_1C_2C_5R_1R_2R_6 + C_1C_3C_5R_1R_3R_6 + C_2C_3C_5R_2R_3R_6\right) + s\left(C_1C_5R_1R_6 + C_2C_5R_2R_6 + C_3C_5R_3R_6\right)}{C_1 + C_2 + s^3\left(C_1C_2C_3C_5R_1R_3R_5 + C_1C_2C_3C_5R_2R_3R_5 + C_1C_2C_4R_2R_3 + C_1C_2C_5R_2R_3 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_2R_5 + C_1C_2C_5R_3R_5 + C_1C_3C_5R_3R_5 + C_1C_4C_5R_3R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5$

10.2106 X-INVALID-ORDER-2106 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3s^3 + C_5 + s^2\left(C_1C_2C_5R_1R_2 + C_1C_3C_5R_1R_3 + C_2C_3C_5R_2R_3\right) + s\left(C_1C_5R_1 + C_2C_5R_2R_3 + C_1C_2C_5C_6R_2R_3 +$

10.2107 X-INVALID-ORDER-2107 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_3R_6s^4 + C_5 + s^3\left(C_1C_2C_3C_5R_1R_2R_3 + C_1C_2C_5C_6R_1R_3R_6 + C_2C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_2C_5R_1R_2 + C_1C_3C_5R_1R_3 + C_1C_5C_6R_1R_6 + C_2C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_2C_5R_1R_2 + C_1C_3C_5R_1R_3 + C_1C_5C_6R_1R_3 + C_1C_5C_6R_1R_3 + C_1C_2C_5C_6R_2R_3 + C_1C_2C_5C_6$

10.2108 X-INVALID-ORDER-2108 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 + C_2 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_6 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_6 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_6 + C_1 C_2 C_4 C_5 R_2 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_5 R_1$

10.2109 X-INVALID-ORDER-2109 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_5R_6s^4 + R_6 + s^3\left(C_1C_2C_3R_1R_2R_3R_6 + C_1C_2C_5R_1R_2R_5R_6 + C_1C_3C_5R_1R_3R_5R_6 + C_2C_3C_5R_2R_3R_5R_6\right) + s^2\left(C_1C_2R_1R_2R_6 + C_1C_3R_1R_3R_6 + C_1C_5R_1R_5R_6 + C_2C_3R_2R_3R_6 + C_2C_5R_2R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_5R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_6 + C_3C_5R_3R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_5 + C_1R_2R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_5R_6\right) + s\left(C_1R_1R_6 + C_2R_2R_5 + C_1R_2R_5\right) + s\left(C_1R_1R_6 + C_2R_2R_5\right) + s\left(C_1R_1R_5 + C_1R_5\right) + s\left(C_1R_1R_5 + C_1R_$

10.2110 X-INVALID-ORDER-2110 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_5s^4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_5R_1R_2R_5 + C_1C_3C_5R_1R_3R_5 + C_2C_3C_5R_2R_3R_5\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_3 + C_1C_5R_1R_5 + C_2C_3R_2R_3 + C_2C_5R_2R_5 + C_3C_5R_3R_5\right) + s\left(C_1R_1 + C_2R_2 + C_3R_3 + C_5R_5\right) + 1}{s^4\left(C_1C_2C_3C_6R_1R_3R_5 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_2C_5C_6R_2R_3R_5\right) + s^3\left(C_1C_2C_6R_1R_5 + C_1C_2C_6R_2R_3 + C_1C_2C_6R_2R_5 + C_1C_2C_6R_3R_5 + C_1C_2C_6R_3R_5$

- 10.2111 X-INVALID-ORDER-2111 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_3R_5R_6s^5 + s^4\left(C_1C_2C_3C_5R_1R_2R_3R_5 + C_1C_2C_3C_6R_1R_2R_3R_6 + C_1C_2C_5C_6R_1R_2R_5R_6 + C_1C_3C_5C_6R_1R_3R_5R_6 + C_2C_3C_5C_6R_2R_3R_5R_6\right) + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_5R_1R_2R_5 + C_1C_2C_6R_1R_2R_6 + C_1C_3C_5R_1R_3R_5 + C_1C_2C_5R_1R_2R_5 + C_1C$
- 10.2112 X-INVALID-ORDER-2112 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_5R_6s^4 + R_6 + s^3\left(C_1C_2C_3R_1R_2R_3R_6 + C_1C_2C_5R_1R_2R_5R_6 + C_1C_3C_5R_1R_3R_5R_6 + C_2C_3C_5R_2R_3R_5R_6\right) + s^2\left(C_1C_2C_3C_6R_1R_3R_5R_6 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_3C_6R_2R_3R_5R_6\right) + s^2\left(C_1C_2C_3C_6R_1R_3R_5R_6 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_3C_6R_2R_3R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_3R_5R_6 + C_1C_2C_3R_2R_3R_5 + C_1C_2C_$
- **10.2113** X-INVALID-ORDER-2113 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$
- $H(s) = \frac{C_1C_2C_3C_4R_1R_2R_3R_4R_6s^4 + R_6 + s^3\left(C_1C_2C_3R_1R_2R_3R_6 + C_1C_2C_4R_1R_2R_4R_6 + C_1C_3C_4R_1R_3R_4R_6 + C_2C_3C_4R_2R_3R_4R_6\right) + s^2\left(C_1C_2R_1R_2R_6 + C_1C_3R_1R_3R_6 + C_1C_4R_1R_4R_6 + C_2C_3R_2R_3R_6 + C_1C_2C_4R_2R_3R_4R_5 + C_1C_2C_4R_2R_3R_4 + C_1C_2C_4R_2R_3R_4$
- **10.2114** X-INVALID-ORDER-2114 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_2C_3C_4R_1R_2R_3R_4s^4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_4R_1R_2R_4 + C_1C_3C_4R_1R_3R_4 + C_2C_3C_4R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_3 + C_1C_2C_4C_6R_1R_3R_4 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_2C$
- 10.2115 X-INVALID-ORDER-2115 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_2C_3C_4C_6R_1R_2R_3R_4R_6s^5 + s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_3R_6 + C_1C_2C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_3R_4R_6 + C_2C_3C_4C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_4R_1R_2R_4 + C_1C_2C_6R_1R_2R_6 + C_1C_3C_4R_1R_3R_4 + C_1C_3C_6R_1R_3R_6 + C_1C_3C_4R_1R_3R_4 + C_1C$
- **10.2116** X-INVALID-ORDER-2116 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_4 R_1 R_3 R_4 R_5 + C_1 C_2 C_3 C_4 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_3 R_5 R_6 + C_1 C_2 C_4 C_6 R_1 R_4 R_5 R_6 C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_4 R_6 + C_1 C_2 C_4 C_6 R_2 R_4 R_6 + C_1 C_2 C_4 C_6$
- 10.2117 X-INVALID-ORDER-2117 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_3R_4R_6s^4 + C_5R_6 + s^3\left(C_1C_2C_3C_5R_1R_2R_3R_6 + C_1C_2C_4C_5R_1R_2R_4R_6 + C_1C_3C_4C_5R_1R_3R_4R_6 + C_2C_3C_5R_1R_2R_6 + C_1C_3C_5R_1R_3R_6 + C_1C_4C_5R_1R_3R_6 + C_1C_4C_5R_1R_4R_6 + C_2C_3C_5R_2R_3R_6 + C_2C_4C_5R_2R_4R_6 + C_2C_4C_5R_2R_3R_4R_6 + C_2C_4C_5R_2R_3R_4R_6 + C_2C_4C_5R_2R_3R_4R_6 + C_2C_4C_5R_2R_3R_4 + C_2C_$
- **10.2118** X-INVALID-ORDER-2118 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- 10.2119 X-INVALID-ORDER-2119 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_6s^5 + C_5 + s^4\left(C_1C_2C_3C_4C_5R_1R_2R_3R_4 + C_1C_2C_3C_5C_6R_1R_2R_3R_6 + C_1C_2C_4C_5C_6R_1R_2R_4R_6 + C_1C_3C_4C_5C_6R_1R_3R_4R_6 + C_2C_3C_4C_5C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_2C_3C_5R_1R_2R_3 + C_1C_2C_4C_5R_1R_2R_4 + C_1C_2C_5C_6R_1R_2R_4 + C_1C_2C_4C_5R_1R_2R_4 + C_1C_2C_4C_5R_1R_4 + C_1C_4C_4C_5R_1R_4 + C_1C_4C_5R_1R_4 + C_1C_4C_4C_5R_1R_4 + C_1C_4C_4C_5R_1R_4 + C_1C_4C_4C_5R_1R$
- 10.2120 X-INVALID-ORDER-2120 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2121 X-INVALID-ORDER-2121 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_3R_4R_6s^4 + C_5R_6 + s^3\left(C_1C_2C_3C_4C_5R_1R_3R_4R_5 + C_1C_2C_3C_4C_5R_1R_3R_4 + C_1C_2C_3C_5R_1R_3R_5 + C_1C_2C_4C_5R_2R_3R_4 + C_1C_2C_4C_5R_4R_4 + C_1C_2C_$

10.2122 X-INVALID-ORDER-2122 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\overline{s^5 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_3 R_4 + C_1 C_2 C_3 C_5 C_6 R_1 R_3 R_5 + C_1 C_2 C_3 C_5 C_6 R_1 R_3 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_5 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_5 R_5 + C_1$

10.2123 X-INVALID-ORDER-2123 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_6s^5 + C_5 + s^4\left(C_1C_2C_3C_4C_5R_1R_2R_3R_4 + C_1C_2C_3C_5C_6R_1R_2R_3R_6 + C_1C_2C_4C_5C_6R_1R_2R_4R_6 + C_1C_3C_4C_5C_6R_1R_2R_4R_6 + C_1C_3C_4C_5C_6R_1R_3R_4 + C_1C_2C_3C_4C_5C_6R_1R_3R_4 + C_1C_2C_3C_5C_6R_1R_3R_4 +$

10.2124 X-INVALID-ORDER-2124 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{C_1 + C_2 + s^5 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_1 C_2 C_3 C_4 C_6 R$

10.2125 X-INVALID-ORDER-2125 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5R_6s^5 + R_6 + s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4R_6 + C_1C_2C_4C_5R_1R_2R_4R_5R_6 + C_1C_3C_4C_5R_1R_3R_4R_5R_6 + C_2C_3C_4C_5R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3R_1R_2R_3R_6 + C_1C_2C_4R_1R_2R_4R_6 + C_1C_2C_5R_1R_2R_5R_6 + C_1C_3C_4C_5R_1R_3R_4R_5 + C_1C_2C_3R_1R_3R_4R_5\right) + s^3\left(C_1C_2C_3R_1R_2R_3R_6 + C_1C_2C_4R_1R_2R_4R_6 + C_1C_2C_5R_1R_2R_5R_6 + C_1C_3C_4C_5R_1R_3R_4R_5 + C_1C_2C_3R_1R_3R_5 + C_1C_2C_3R_1R_3R_5 + C_1C_2C_4R_1R_4R_5 - C_1C_2C_4R_1R_4R_5 - C_1C_2C_4R_1R_4R_5 + C_1C_2C_4R_1$

10.2126 X-INVALID-ORDER-2126 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $\frac{C_{1}C_{2}C_{3}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}s^{5} + s^{4}\left(C_{1}C_{2}C_{3}C_{4}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{2}C_{4}C_{5}R_{1}R_{2}R_{4}R_{5} + C_{1}C_{3}C_{4}C_{5}R_{1}R_{3}R_{4}R_{5} + C_{1}C_{2}C_{3}C_{4}R_{1}R_{2}R_{3} + C_{1}C_{2}C_{4}C_{5}R_{1}R_{2}R_{3} + C_{1}C_{2}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{5}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{2}C_{5$

10.2127 X-INVALID-ORDER-2127 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^6 + s^5\left(C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5 + C_1C_2C_3C_4C_6R_1R_2R_3R_4R_6 + C_1C_2C_4C_5C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5R_5 + C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_3R_5 + C_1C_3C_4C_5C_6R_1R_3R_5 + C_1C_3C_5C_5C_6R_1R_3R_5 +$

10.2128 X-INVALID-ORDER-2128 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2129 X-INVALID-ORDER-2129 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_2C_3R_1R_2R_3R_4R_6s^3 + R_4R_6 + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_3R_1R_3R_4R_6 + C_2C_3R_2R_3R_4R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_2R_4R_6 + C_3R_3R_4R_6\right)}{s^3\left(C_1C_2C_3R_1R_3R_4R_5 + C_1C_2C_4R_2R_3R_4R_5 + C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_4 + C_1C_2R_2R_3R_4R_5 + C_1C_2R_3R_4R_5 + C_1$

10.2130 X-INVALID-ORDER-2130 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $\frac{C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}R_{4}s^{3}+R_{4}+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{4}+C_{1}C_{3}R_{1}R_{3}R_{4}+C_{2}C_{3}R_{2}R_{3}R_{4}\right)+s\left(C_{1}R_{1}R_{4}+C_{2}R_{2}R_{4}+C_{3}R_{3}R_{4}\right)}{s^{4}\left(C_{1}C_{2}C_{3}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{6}R_{3}R_{4}R_{5}+C_{1}C_{2$

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10.2131 X-INVALID-ORDER-2131 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_2C_3C_6R_1R_2R_3R_4R_6s^4 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_4R_6 + C_2C_3C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_3R_1R_3R_4 + C_1C_6R_1R_4R_6 + C_2C_3R_2R_3R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_3R_4R_6\right) + s\left(C_1R_1R_4 + C_2R_3R_4R_6 + C_2R_3R_4R_6 + C_2R_3R_4R_6 + C_2R_3R_4R_6\right) + s\left(C_1R_1R_4 + C_2R_3R_4R_6 + C_2R_3R_4R_6 + C_2R_3R_4R_6 + C_2R_3R_4R_6\right) + s\left(C_1R_1R_4 + C_2R_3R_4R_6 + C_2R_3R_4R_6 + C_2R_3R_4R_6 + C_2R_3R_4R_6\right) + s\left(C_1R_1R_4 + C_1R_4R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_4R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_4R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_4R_6\right) + s\left(C_1R_1R_4R_6 + C_1R_4R_6\right) + s\left(C_1R_1R_4R_6 + C_2R_4R_6\right) + s\left(C_1R_1R_4R_6 + C_1R_4R_6\right) + s\left(C_1R_1R_4R_6\right) + s\left(C_1R_1R_4R_$

10.2132 X-INVALID-ORDER-2132
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $C_1C_2C_3R_1R_2R_3R_4R_6s^3 + R_4R_6 + s^2$

 $C_1C_2C_3R_1R_2R_3R_4R_6s^\circ + R_4R_6 + s^- \\ \overline{s^4(C_1C_2C_3C_6R_1R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_2R_3R_4R_5R_6 + C_1C_2C_4R_2R_3R_4R_5 + C_1C_2C_4R_2R_3R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_2C$

10.2133 X-INVALID-ORDER-2133
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_4R_6 + s^2\left(C_1C_2C_5R_1R_2R_4R_6 + C_1C_3C_5R_1R_3R_4R_6 + C_2C_3C_5R_2R_3R_4R_6\right) + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_2C_5R_2R_3R_4\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_3R_3R_4 + C_1C_4R_3R_4 + C_1C_5R_3R_4 + C_1C_4R_3R_4 + C_1C_4R_4R_4 + C_1C_4R_4R_4$

10.2134 X-INVALID-ORDER-2134 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\frac{C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}s^{3}+C_{5}R_{4}+s^{2}\left(C_{1}C_{2}C_{5}R_{1}R_{2}R_{4}+C_{1}C_{3}C_{5}R_{1}R_{3}R_{4}+C_{2}C_{3}C_{5}R_{2}R_{3}R_{4}\right)+s\left(C_{1}C_{5}R_{1}R_{4}+C_{2}C_{5}R_{2}R_{3}R_{4}+C_{3}C_{5}R_{3}R_{4}\right)}{s^{3}\left(C_{1}C_{2}C_{3}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{2}C_{6}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{$

10.2135 X-INVALID-ORDER-2135 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_4 + s^3\left(C_1C_2C_3C_5R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R_1R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_5R_1R_2R_4 + C_1C_2C_5R_1R_4R_6 + C_2C_3C_5R_2R_3R_4 + C_1C_2C_5R_3R_4 + C_1C_$

10.2136 X-INVALID-ORDER-2136 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_4R_6 + s^2\left(C_1C_2C_5R_1R_2R_4R_6 + C_1C_3C_5R_1R_3R_4R_6\right) + s^2\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_3R_4R_5 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_3R_4R_5 + C_1C_2C_5R_3R_4R_5$

10.2137 X-INVALID-ORDER-2137 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_4R_6 + s^2\left(C_1C_2C_5R_1R_2R_4R_6 + C_1C_3C_5R_1R_3R_4R_6 + C_2C_3C_5R_2R_3R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^3\left(C_1C_2C_3C_5R_1R_3R_4R_5 + C_1C_2C_3C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_2C_5R_2R_3R_4 + C_1C_2C_3R_2R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_2C_3R_2R_3R$ $C_1C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_4R_6 + s^2\left(C_1C_2C_5R_1R_2R_4R_6 + C_1C_3C_5R_1R_3R_4R_6 + C_2C_3C_5R_2R_3R_4R_6\right)$

10.2138 X-INVALID-ORDER-2138 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\frac{C_1C_2C_3C_5R_1R_2R_3R_4s^3 + C_5R_4 + s^2\left(C_1C_2C_5R_1R_2R_3R_4s^3 + C_5R_4 + s^2\left(C_1C_2C_5R_1R_2R_3R_4s^3 + C_5R_4 + s^2\left(C_1C_2C_5R_1R_2R_3R_4s^3 + C_5R_4R_3R_4 + C_1C_2C_5C_6R_2R_3R_4 + C_$

10.2139 X-INVALID-ORDER-2139 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_4 + s^3\left(C_1C_2C_3C_5R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_4R_6 + C_1C_3C_5C_6R_1R_3R_4R_6 + C_2C_3C_5C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_2C_3C_5C_6R_1R_3R_4R_5 + C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_2C_5C_6R$

10.2140 X-INVALID-ORDER-2140 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1R_3 + C_1R_4 + C_2R_4 + s^4\left(C_1C_2C_3C_5C_6R_1R_3R_4R_5R_6 + C_1C_2C_3C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_4C_5C_6R_2R_3R_4R_5R_6 + C_1C_2C_3C_5R_1R_3R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_5R_5R_5 + C_1C_2C_3C_5R_5R_5R_5 + C_$

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10.2141 X-INVALID-ORDER-2141 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
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 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_5R_6s^4 + R_4R_6 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_6 + C_1C_2C_5R_1R_2R_4R_5R_6 + C_2C_3C_5R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_3R_1R_3R_4R_6 + C_1C_5R_1R_4R_5R_6 + C_2C_3R_2R_3R_4R_6 + C_2C_5R_2R_4R_5R_6 + C_3C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_4R_6 + C_1C_3R_1R_3R_4R_6 + C_1C_3R_1R_3R_4R_6 + C_2C_3R_2R_3R_4R_6 + C_2C_5R_2R_4R_5R_6 + C_2C_3R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_4R_5 - C_1C_2R_2R_3R_4R_5 + C_1C_2R_3R_4R_5 + C_1C_2R_$

10.2142 X-INVALID-ORDER-2142
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_3R_4R_5s^4 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_4R_5 + C_1C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_3R_1R_3R_4 + C_1C_5R_1R_4R_5 + C_2C_3R_2R_3R_4 + C_2C_5R_2R_4R_5 + C_3C_5R_3R_4R_5 \right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_3R_1R_3R_4 + C_1C_5R_1R_4R_5 + C_2C_3R_2R_3R_4 + C_2C_5R_2R_4R_5 + C_3C_5R_3R_4R_5 \right) + s^2\left(C_1C_2C_3C_6R_1R_3R_4R_5 + C_1C_2C_6R_2R_3R_4 + C_1C_2C_6R_$

10.2143 X-INVALID-ORDER-2143 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $s^{4} \left(C_{1} C_{2} C_{3} C_{6} R_{1} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{4} C_{6} R_{2} R_{3} R_{4} R_{5}-C_{1} C_{2} C_{5} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}+C_{1} C_{2} C_{3} C_{6} R_{2} R_{3} R_{4} R_{5}\right)+s^{3} \left(C_{1} C_{2} C_{3} C_{6} R_{2} R_$

 $\textbf{10.2144} \quad \textbf{X-INVALID-ORDER-2144} \ \ Z(s) = \left(R_1 + \tfrac{1}{C_1 s}, \ R_2 + \tfrac{1}{C_2 s}, \ \tfrac{R_3}{C_3 R_3 s + 1}, \ \tfrac{R_4}{C_4 R_4 s + 1}, \ \tfrac{R_5}{C_5 R_5 s + 1}, \ \tfrac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_1C_2C_3C_5R_1R_2R_3R_4R_5R_6s^4 + R_4R_6 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_6 + C_1C_2C_5R_1R_2R_3R_4R_6 + C_1C_2C_5R_1R_2R_3R_4R_6 + C_1C_2C_5R_1R_2R_3R_4R_6 + C_1C_2C_5R_1R_2R_3R_4R_5 + C_1C_2C_3C_6R_1R_3R_4R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6 + C_1C_2C_5R_2R_3R_4R_5R_6 + C_1C_2C_5R_2R_3R_4R_5 + C_1C_2C_3R_2R_3R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_2C_3$

10.2145 X-INVALID-ORDER-2145 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1R_1R_2R_4s + R_2R_4}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5\right)}$

10.2146 X-INVALID-ORDER-2146 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_6R_1R_2R_4R_6s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5\right)}$

10.2147 X-INVALID-ORDER-2147 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1 R_1 R_2 R_4 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 R_2 R_3 R_4 R_5 + C_1 C_6 R_1 R_4 R_5 R_6 - C_1 C_6 R_2 R_3 R_4 R_6 + C_1 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_6 R_2 R_4 R_5 R_6 + C_1 C_6 R_5 R_5 R_6 + C_$

10.2148 X-INVALID-ORDER-2148 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^3\left(C_1C_2C_6R_1R_2R_4R_6 + C_1C_2C_6R_2R_3R_4R_6 - C_1C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_2R_2R_3R_4 - C_1C_5R_2R_3R_4 + C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_6\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_1C_6R_2R_4R_6\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_1C_6R_2R_4R_6\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_3R_4 + C_1C_6R_2R_3R_4 + C_1C_6R_2R_4R_6\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_3R_4 + C_1R_3R_4 + C_1R_3R_4 + C_1R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_3R_4 + C_1R_3R_4 + C_1R_3R_4 + C_1R_3R_4 + C_1R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_3R_$

10.2149 X-INVALID-ORDER-2149 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^3\left(C_1C_2C_5R_1R_2R_4R_5 + C_1C_2C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_2R_2R_3R_4 + C_1C_5R_1R_4R_5 - C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_5 + C_1C_5R_2R_4R_5\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_2R_2R_4 + C_2R_2R_4 + C_2R_2R_4R_5\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_2R_2R_4$

10.2150 X-INVALID-ORDER-2150 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\frac{C_1C_5R_1R_2R_4S + C_5R_2R_4}{C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_3R_4R_5 + C_1C_5C_6R_3R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1$

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10.2151 X-INVALID-ORDER-2151 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_5C_6R_1R_2R_4R_6s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_2C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R_5R_5R_5 + C_1C_5C_6R
10.2152 X-INVALID-ORDER-2152 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{R_4 + s^4 \left( C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_6 R_2 R_3 R_4 R_6 + C_1 C_5 C_6 R_2 R_3 R_4 R_6
10.2153 X-INVALID-ORDER-2153 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                  H(s) = \frac{C_1C_5R_1R_2R_4R_5s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5\right)}
10.2154 X-INVALID-ORDER-2154 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                  H(s) = \frac{C_1C_5C_6R_1R_2R_4R_5R_6s^3 + R_2R_4 + s^2\left(C_1C_5R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_6 + C_5C_6R_2R_4R_5R_6\right) + s\left(C_1R_1R_2R_4 + C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5\right)}
10.2155 X-INVALID-ORDER-2155 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_5R_1R_2R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^3\left(C_1C_2C_6R_1R_2R_4R_5R_6 + C_1C_2C_6R_2R_3R_4R_5R_6 + C_1C_5R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_4R_4R_5 + C_1C_6R_4R_5 + C_1C_6R_4R_5 + C_1C_6R_5R_5 + C_1C_6R_5R_5 + C_1C_6R_5R_5 + C_1C
10.2156 X-INVALID-ORDER-2156 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                           H(s) = \frac{C_1 R_1 R_2 s + R_2}{C_6 R_5 s + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_5 + C_1 C_2 C_6 R_2 R_3 R_5 + C_1 C_4 C_6 R_2 R_3 R_5\right) + s^2 \left(C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 + C_2 C_6 R_2 R_5\right)}
10.2157 X-INVALID-ORDER-2157 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                           H(s) = \frac{C_1C_6R_1R_2R_6s^2 + R_2 + s\left(C_1R_1R_2 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_2C_6R_1R_2R_5 + C_1C_2C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5\right)}
10.2158 X-INVALID-ORDER-2158 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1 R_1 R_2 R_6 s + R_2 R_6}{R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 R_2 R_3 R_5 + C_1 C_2 R_2 R_3 R_5 + C_1 C_4 R_2 R_3 R_5 + C_1 C_6 R_1 R_5 R_6 - C_1 C_6 R_2 R_3 R_6 + C_1 C_6 R_2 R_5 R_6 + C_2 C_6 R_2 R_5 R_6 \right) + s \left(C_1 R_1 R_5 - C_1 R_2 R_3 + C_1 R_2 R_5 R_6 \right) + s \left(C_1 R_1 R_5 - C_1 R_2 R_5 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_2 R_5 R_6 + C_1 C_6 R_2 R_5 R_6 \right) + s \left(C_1 R_1 R_5 - C_1 R_2 R_5 + C_1 R_2 R_5 \right) + s \left(C_1 R_1 R_5 - C_1 R_2 R_5 + C_1 R_2 R_5 \right) + s \left(C_1 R_1 R_5 - C_1 R_2 R_5 + C_1 R_2 R_5 \right) + s \left(C_1 R_1 R_5 - C_1 R_2 R_5 + C_1 R_2 R_5 
10.2159 X-INVALID-ORDER-2159 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
               H(s) = \frac{C_1C_5R_1R_2R_6s^2 + C_5R_2R_6s}{s^3\left(C_1C_2C_6R_1R_2R_6 + C_1C_2C_6R_2R_3R_6 + C_1C_4C_6R_2R_3R_6 - C_1C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3 + C_1C_6R_2R_6 + C_1C_6R_3R_6 + C_2C_6R_2R_6\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_2R_2 + C_6R_6\right) + 1}
10.2160 X-INVALID-ORDER-2160 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                H(s) = \frac{C_1C_5R_1R_2R_6s^2 + C_5R_2R_6s}{s^3\left(C_1C_2C_5R_1R_2R_5 + C_1C_2C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_5\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_5R_1R_5 - C_1C_5R_2R_3 + C_1C_5R_2R_5 + C_1C_5R_2R_5 + C_1C_5R_2R_5\right) + s\left(C_1R_1 + C_1R_2 + C_1R_3 + C_2R_2 + C_5R_5\right) + 1}
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H(s) = \frac{C_1C_5R_1R_2s + C_5R_2}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_2R_5 + C_1C_2C_5C_6R_2R_3R_5 + C_1C_4C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_2R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_3R_5\right) + s\left(C_1C_6R_1 + C_1C_6R_3 + C_2C_6R_3 + C_2C_6R_3\right) + s\left(C_1C_6R_1 + C_1C_6R_3 + C_2C_6
10.2162 X-INVALID-ORDER-2162 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_5C_6R_1R_2R_6s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_5C_6R_2R_6\right)}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_2R_5 + C_1C_2C_5C_6R_2R_3R_5 + C_1C_4C_5R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_3 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_5 
10.2163 X-INVALID-ORDER-2163 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1 C_5 R_1}{s^4 \left(C_1 C_2 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_2 C_5 R_1 R_2 R_5 + C_1 C_2 C_6 R_1 R_2 R_6 + C_1 C_2 C_6 R_1 R_2 R_6 + C_1 C_4 C_5 R_2 R_3 R_6 + C_1 C_5 C_6 R_2 R_5 R_6 + C_1 C_5 C_6 R_5 
10.2164 X-INVALID-ORDER-2164 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                         H(s) = \frac{C_1C_5R_1R_2R_5s^2 + R_2 + s\left(C_1R_1R_2 + C_5R_2R_5\right)}{C_6R_5s + s^3\left(C_1C_2C_6R_1R_2R_5 + C_1C_2C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5\right)}
10.2165 X-INVALID-ORDER-2165 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                         H(s) = \frac{C_1C_5C_6R_1R_2R_5R_6s^3 + R_2 + s^2\left(C_1C_5R_1R_2R_5 + C_1C_6R_1R_2R_6 + C_5C_6R_2R_5R_6\right) + s\left(C_1R_1R_2 + C_5R_2R_5 + C_6R_2R_6\right)}{C_6R_5s + s^3\left(C_1C_2C_6R_1R_2R_5 + C_1C_2C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 - C_1C_5C_6R_2R_3R_5\right) + s^2\left(C_1C_6R_1R_5 - C_1C_6R_2R_3 + C_1C_6R_2R_5 + C_1C_6R_3R_5 + C_2C_6R_2R_5\right)}
10.2166 X-INVALID-ORDER-2166 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_5R_1R_2R_5R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_2C_6R_1R_2R_5R_6 + C_1C_2C_6R_2R_3R_5R_6 + C_1C_5C_6R_2R_3R_5R_6 + C_1C_5R_2R_3R_5 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_3R_5 + C_1C_6R_2R_3R_6 + C_1C_6R_2R_3R
10.2167 X-INVALID-ORDER-2167 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_1C_4R_1R_2R_4R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_4R_2R_4R_6\right)}{R_5 + s^3\left(C_1C_2C_4R_1R_2R_4R_5 + C_1C_2C_4R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_5 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_4R_5\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_2R_2R_5 + C_4R_4R_5\right)}
10.2168 X-INVALID-ORDER-2168 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_4R_1R_2R_4s^2 + R_2 + s\left(C_1R_1R_2 + C_4R_2R_4\right)}{C_6R_5s + s^4\left(C_1C_2C_4C_6R_1R_2R_4R_5 + C_1C_2C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_2C_6R_1R_2R_5 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_3R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_
10.2169 X-INVALID-ORDER-2169 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_4C_6R_1R_2R_4R_6s^3 + R_2 + s^2\left(C_1C_4R_1R_2R_4 + C_1C_6R_1R_2R_6 + C_4C_6R_2R_4R_6\right) + s\left(C_1R_1R_2 + C_4R_2R_4 + C_6R_2R_6\right)}{C_6R_5s + s^4\left(C_1C_2C_4C_6R_1R_2R_4 + C_1C_2C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_3R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_4R_5 + C_1C_4C_6R_5R_5 + C_1C_4C_6R_5R_5 + C_1C_4C_6R_
10.2170 X-INVALID-ORDER-2170 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                        \overline{R_5 + s^4 \left( C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_2 C_4 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 R_2 R_3 R_4 R_5 + C_1 C_2 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_2 R_3 R_4 R_6 + C_1 C_4 C_6 R_2 R_4 R_6 + C_1 C_4 C_6 R_4 R_6 + C_1 C_4 C_6 R_4 R_6 + C_1 C_4 C_6 R
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10.2161 X-INVALID-ORDER-2161 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

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10.2171 X-INVALID-ORDER-2171 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                              H(s) = \frac{C_1C_4C_5R_1R_2R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_4C_5R_2R_4R_6\right)}{s^3\left(C_1C_2C_4R_1R_2R_4 + C_1C_2C_4R_2R_3R_4 - C_1C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_1R_4 + C_1C_4R_2R_3 + C_1C_4R_2R_4 + C_1C_4R_4R_4 + C_1
10.2172 X-INVALID-ORDER-2172 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_4C_5R_1R_2R_4s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_4C_5R_2R_4\right)}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_2R_4 + C_1C_2C_4C_6R_2R_3R_4 - C_1C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_3 + C_2C_4C_6R_2R_4\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_4R_4 + C_1C_4C
10.2173 X-INVALID-ORDER-2173 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_4C_5C_6R_1R_2R_4R_6s^3 + C_5R_2 + s^2\left(C_1C_4C_5R_1R_2R_4 + C_1C_5C_6R_1R_2R_6 + C_4C_5C_6R_2R_4R_6\right) + s\left(C_1C_5R_1R_2 + C_4C_5R_2R_4 + C_5C_6R_2R_4\right)}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_2R_4 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_3 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_5C_6R_2R_3 + C_2C_4C_6R_2R_4\right) + s\left(C_1C_5R_1R_2 + C_4C_5R_2R_4 + C_1C_4C_6R_2R_4 + C_1C_4C_6R_4 + C_1C_4C
10.2174 X-INVALID-ORDER-2174 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_4C_5R_1R_2R_4R_6s^3 + C_5A_6s^3 + C_5A
10.2175 X-INVALID-ORDER-2175 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_4C_5R_1R_2R_4R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2\right)}{s^4\left(C_1C_2C_4C_5R_1R_2R_4R_5 + C_1C_2C_4C_5R_2R_3R_4 + C_1C_2C_5R_1R_2R_5 + C_1C_4C_5R_2R_3R_4 + C_1C_4C_5R_2R_3R_4 + C_1C_4C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_4 + C_1C_4C_5R_3R_4R_5 + C_1C_4C_5R_3R_4R_5 + C_1C_4C_5R_3R_4R_5 + C_1C_4C_5R_4R_5R_5 + C_1C_4C_5R_4R_5R_5 + C_1C_4C_5R_4R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_4C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R
10.2176 X-INVALID-ORDER-2176 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C}{C_6 + s^4 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_2 C_4 C_6 R_1 R_2 R_4 + C_1 C_2 C_5 C_6 R_1 R_2 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 + C_1 C_4 C_5 C_6 R_2 R_3 R_5 + C_1 C_4 C_5 C_6 R_5 R_5 R_5 + C_1 C_4 C_5 C_6 R_5 R_5 R_5 
10.2177 X-INVALID-ORDER-2177 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_4C_5C_6R_1R_2R_4R_6s^3 + C_5R_2 + s^2 (C_1C_2C_4C_5C_6R_1R_2R_4R_5 + C_1C_2C_4C_5R_1R_2R_4R_5 + C_1C_4C_5C_6R_1R_2R_4 + C_1C_2C_4C_6R_1R_2R_4 + C_1C_2C_4C_6R_1R_2R_4 + C_1C_2C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_5C_6R_4R_4 + C_1C_4C_5C_6R_4R_4 + C_1C_4C_5C_6R_4R_4 + C_1C_4C_5C_6R_4R_4 + C_
10.2178 X-INVALID-ORDER-2178 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $\overline{s^5 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_4 R_5 R_6 - C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_3 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_5 R_5 + C_1 C_2 C_5 C_6 R_2 R_5 R_5 + C_1 C_2 C_5 C_6 R_5 R_5 R_5 + C_1 C_2 C_5 C_6 R_5 R_5 R_5 + C_1 C_2 C_5 C_6 R_5 R_5 R_5 + C_1 C_5 C_6 R_5 R_5 R_5 + C_1$

10.2179 X-INVALID-ORDER-2179 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4R_5R_6s^3 + R_2R_6 + s^2\left(C_1C_4R_1R_2R_4R_6 + C_1C_5R_1R_2R_5R_6 + C_4C_5R_2R_4R_5R_6\right) + s\left(C_1R_1R_2R_6 + C_4R_2R_4R_6 + C_5R_2R_5R_6\right)}{R_5 + s^3\left(C_1C_2C_4R_1R_2R_4R_5 + C_1C_4R_2R_3R_4R_5 - C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_4R_2R_4R_5 + C_1C_4R_4R_4R_5 + C_1$

10.2180 X-INVALID-ORDER-2180 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_4C_5R_1R_2R_4R_5s^3 + R_2 + s^2\left(C_1C_4R_1R_2R_4 + C_1C_5R_1R_2R_5 + C_4C_5R_2R_4R_5\right) + s\left(C_1R_1R_2 + C_4R_2R_4 + C_5R_2R_5\right)}{C_6R_5s + s^4\left(C_1C_2C_4C_6R_1R_2R_4 + C_1C_2C_4C_6R_2R_3R_4R_5 - C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_1C_4C_6R_3R_4R_5 + C_1C_4C_$

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10.2181 X-INVALID-ORDER-2181 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_4C_5C_6R_1R_2R_4R_5R_6s^4 + R_2 + s^3\left(C_1C_4C_5R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_6 + C_1C_5C_6R_1R_2R_5R_6 + C_4C_5C_6R_2R_4R_5R_6\right) + s^2\left(C_1C_4R_1R_2R_4 + C_1C_5R_1R_2R_5 + C_1C_6R_1R_2R_6 + C_4C_5R_2R_4R_5 + C_4C_6R_2R_4R_6 + C_5C_6R_2R_4R_5 + C_4C_5R_2R_4R_5 + C_4C_5R_4R_4R_5 + C_4C_5R_4R_4R_5$

10.2182 X-INVALID-ORDER-2182
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{1}{R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 R_5 R_6 - C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 R_2 R_3 R_4 R_5 + C_1 C_2 C_6 R_2 R_3$

10.2183 X-INVALID-ORDER-2183 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1 R_1 R_2 R_4 s + R_2 R_4}{C_6 R_4 R_5 s + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_6 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(C_1 C_6 R_1 R_4 R_5 - C_1 C_6 R_2 R_3 R_4 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_2 R_4 R_5\right)}$

10.2184 X-INVALID-ORDER-2184 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_6R_1R_2R_4R_6s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_3R_4R_5 + C_2C_6R_2R_4R_5\right)}$

10.2185 X-INVALID-ORDER-2185 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1 R_1 R_2 R_4 R_6 s + R_2 R_4 R_6}{R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 R_2 R_3 R_4 R_5 + C_1 C_4 R_2 R_3 R_4 R_5 + C_1 C_6 R_2 R_4 R_5 + C_1 C_6 R_4 R_5 + C_1 C_6 R_5 R_5$

10.2186 X-INVALID-ORDER-2186 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_{1}C_{5}R_{1}R_{2}R_{4}R_{6}s^{2}+C_{5}R_{2}R_{4}R_{6}s}{R_{4}+s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{4}R_{6}+C_{1}C_{2}C_{6}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}R_{6}\right)+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{4}+C_{1}C_{2}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{2}R_{3}R_{6}+C_{1}C_$

10.2187 X-INVALID-ORDER-2187 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_5R_1R_2R_4R_6s^2 + C_5R_2R_4R_6s}{R_4 + s^3\left(C_1C_2C_5R_1R_2R_4R_5 + C_1C_2C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_2R_2R_3R_4 + C_1C_5R_1R_4R_5 - C_1C_5R_2R_3R_5 + C_1C_5R_2R_4R_5 + C_1C_5R_3R_4R_5 + C_2C_5R_2R_4R_5\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_4R_5 + C_1C_5R_2R_3R_4 + C_1C_5R_3R_4R_5 + C_1C_5R_5R_5R_5R_5 + C_1C_5R_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_5R_5R_5R_5 + C_1C_$

10.2188 X-INVALID-ORDER-2188 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_1C_5R_1R_2R_4s + C_5R_2R_4$

 $H(s) = \frac{C_1C_5R_1R_2R_4s + C_5R_2R_4}{C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_3R_4 +$

10.2189 X-INVALID-ORDER-2189 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_5C_6R_1R_2R_4R_6s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_2C_5C_6R_2R_3R_4R_5 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_3R_4 + C_1C_5C_6R_3R$

10.2190 X-INVALID-ORDER-2190 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{R_4 + s^4 \left(C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_2 R_3 R_4 R_5 + C_1 C_2 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_6 R_2 R_3 R_4 R_5 +$

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H(s) = \frac{C_1C_5C_6R_1R_2R_4R_5R_6s^3 + R_2R_4 + s^2\left(C_1C_5R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_6 + C_5C_6R_2R_4R_5R_6\right) + s\left(C_1R_1R_2R_4 + C_5R_2R_4R_5 + C_6R_2R_4R_6\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5\right)}
10.2193 X-INVALID-ORDER-2193 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_5R_1R_2R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^3\left(C_1C_2C_6R_1R_2R_4R_5R_6 + C_1C_2C_6R_2R_3R_4R_5R_6 - C_1C_5C_6R_2R_3R_4R_5 + C_1C_2R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R
10.2194 X-INVALID-ORDER-2194 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                        H(s) = \frac{C_1C_3R_1R_2R_4s + C_3R_2R_4}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.2195 X-INVALID-ORDER-2195 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                        H(s) = \frac{C_1C_3C_6R_1R_2R_4R_6s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.2196 X-INVALID-ORDER-2196 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{C_1C_2C_3C_6R_1R_2R_4R_5R_6s^3 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + c_1C_2C_6R_2R_4R_5R_6 + C_1C_3C_6R_1R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5 + C_1C
10.2197 X-INVALID-ORDER-2197 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1C_2C_3C_6R_1R_2R_4R_6s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_
10.2198 X-INVALID-ORDER-2198 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1C_2C_3C_5R_1R_2R_4R_5s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3R_2R_4 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_2R_5 + C_1C_5R_4R_5 + C_2C_3R_2R_4 + C_3C_5R_4R_5 + C_3C_5R_5R_4R_5 + C_3C_5R_5R_4R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 +
10.2199 X-INVALID-ORDER-2199 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_2C_3C_5C_6R_1R_2R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_4 + C_1C_3C_6R_4 + C_1C_3C_6R_4 + C_1C_3C_6R_4 + C_1C_3C_6R_4 + C_1C_
10.2200 X-INVALID-ORDER-2200 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_2C_3C_5C_6R_1R_2R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + c_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5\right) + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           430
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 $H(s) = \frac{C_1C_5R_1R_2R_4R_5s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_5R_2R_4R_5\right)}{C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 - C_1C_5C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_3R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5 + C_1C_6R_2R_4R_5\right)}$

10.2191 X-INVALID-ORDER-2191 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

10.2192 X-INVALID-ORDER-2192 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

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10.2201 X-INVALID-ORDER-2201 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
10.2202 X-INVALID-ORDER-2202 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                 H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5\right)}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.2203 X-INVALID-ORDER-2203 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                 H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 - C_1C_5C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_4R_5 + C_3C_6R_4R_6\right)}
10.2204 X-INVALID-ORDER-2204 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{C_1C_2C_3C_6R_1R_2R_4R_5R_6s^3 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + c_3R_4R_5 + s^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6\right) + s\left(C_1C_2R_2R_4R_5 + C_1C_3R_4R_5 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6\right)}
10.2205 X-INVALID-ORDER-2205 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                   H(s) = \frac{C_1C_3R_1R_2s + C_3R_2}{C_1C_2C_3C_6R_1R_2R_5s^3 + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}
10.2206 X-INVALID-ORDER-2206 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                  H(s) = \frac{C_1C_3C_6R_1R_2R_6s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_6R_2R_6\right)}{C_1C_2C_3C_6R_1R_2R_5s^3 + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}
10.2207 X-INVALID-ORDER-2207 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_2R_6s + C_3R_2R_6}{C_1C_2C_3C_6R_1R_2R_5R_6s^3 - C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_3R_1R_2R_5 + C_1C_3C_6R_2R_5R_6 + C_1C_3C_6R_2R_5R_6 + C_1C_4C_6R_2R_5R_6 + C_1C_4C_6R_4R_5R_5 + C_1C_4C_6R_4R_5R_5 + C_1C_4C_6R_5R_5R_6 + C_1C_4C_6R_5R_5 + C_1C_4C_6R_5R_5R_6 + C_1C_4C_6R_5R_5R_5 + C_1C_4C_6R_5R_
10.2208 X-INVALID-ORDER-2208 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                              \frac{C_{1}C_{3}C_{5}R_{1}R_{2}R_{6}s^{2}+C_{3}C_{5}R_{2}R_{6}s}{C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{6}s^{3}+C_{1}+C_{3}+s^{2}\left(C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{6}R_{2}R_{6}+C_{1}C_{3}C_{6}R_{2}R_{6}+C_{1}C_{3}C_{6}R_{2}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{6}+C_{1}C_{5}C_{6}R_{2}R_{6}+C_{1}C_{3}C_{6}R_{2}R_{6}+C_{2}C_{3}C_{6}R_{2}R_{6}\right)+s\left(C_{1}C_{2}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{3}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2}+C_{1}C_{5}R_{2
10.2209 X-INVALID-ORDER-2209 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
                              H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1C_2C_3C_5R_1R_2R_5s^3 + C_1 + C_3 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_2C_5R_2R_5 + C_1C_3C_5R_1R_5 + C_1C_4C_5R_2R_5 + C_2C_3C_5R_2R_5\right) + s\left(C_1C_2R_2 + C_1C_3R_1 + C_1C_3R_2 + C_1C_5R_2 + C_1C_5R_2 + C_1C_5R_5 + C_2C_3R_5 + C_1C_3C_5R_2R_5\right)}
10.2210 X-INVALID-ORDER-2210 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_3C_5R_1R_2s + C_3C_5R_2}{C_1C_2C_3C_5C_6R_1R_2R_5s^3 + C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_3C_6R_1R_2 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5\right) + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1$

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10.2211 X-INVALID-ORDER-2211 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_5C_6R_2R_6\right)}{C_1C_2C_3C_5C_6R_1R_2R_5s^3 + C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_3C_6R_1R_2 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_3C_6R_2 + C_1C
10.2212 X-INVALID-ORDER-2212 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_2}{C_1C_2C_3C_5C_6R_1R_2R_5R_6s^4 + C_1 + C_3 + s^3\left(C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_6R_1R_2R_6 + C_1C_3C_5C_6R_2R_5R_6 + C_1C_3C_5C_6R_2R_5R_5R_6 + C_1C_3C_5C_6R_2R_5R_5R_5 + C_1C_3C_5C_6R_5R_5R_5 + C_1C_3C_5C_5C_6R_5R_5R_5 + C_1C_3C_5C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5 + C_1
10.2213 X-INVALID-ORDER-2213 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                  H(s) = \frac{C_1C_3C_5R_1R_2R_5s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_5R_2R_5\right)}{C_1C_2C_3C_6R_1R_2R_5s^3 + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}
10.2214 X-INVALID-ORDER-2214 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                 H(s) = \frac{C_1C_3C_5C_6R_1R_2R_5R_6s^3 + C_3R_2 + s^2\left(C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_3C_5C_6R_2R_5R_6\right) + s\left(C_1C_3R_1R_2 + C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{C_1C_2C_3C_6R_1R_2R_5s^3 + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 + C_1C_4C_6R_2R_5 - C_1C_5C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_2 + C_1C_6R_5 + C_3C_6R_5\right)}
10.2215 X-INVALID-ORDER-2215 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_5R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_5R_2R_5R_6\right)}{C_1C_2C_3C_6R_1R_2R_5R_6s^3 - C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_3R_1R_2R_5 + C_1C_3C_6R_1R_5R_6 + C_1C_3C_6R_2R_5R_6 + C_1C_4C_6R_2R_5R_6 + C_1C
10.2216 X-INVALID-ORDER-2216 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_1C_3C_4R_1R_2R_4R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6\right)}{C_1C_2C_3C_4R_1R_2R_4R_5s^3 - C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_3R_1R_2R_5 + C_1C_2C_4R_2R_4R_5 + C_1C_3C_4R_2R_4R_5 + C_1C_3C_4R_2R_4R_5\right) + s\left(C_1C_2R_2R_5 + C_1C_3R_1R_5 + C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 + C_2C_3R_2R_5 + C_3C_4R_4R_5\right)}
10.2217 X-INVALID-ORDER-2217 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4R_1R_2R_4s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4\right)}{C_1C_2C_3C_4C_6R_1R_2R_4S^4 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_2C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2
10.2218 X-INVALID-ORDER-2218 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_4C_6R_1R_2R_4R_6s^3 + C_3R_2 + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_6R_2R_4R_6\right) + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4 + C_3C_6R_2R_6\right)}{C_1C_2C_3C_4C_6R_1R_2R_4R_5s^4 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_
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10.2219 X-INVALID-ORDER-2219 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2220 X-INVALID-ORDER-2220 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2\left(C_1C_3C_5R_1R_2R_6 + C_3C_4C_5R_2R_4R_6\right)}{C_1C_2C_3C_4R_1R_2R_4s^3 + C_1 + C_3 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_2C_4R_2R_4 + C_1C_3C_4R_1R_4 + C_1C_3C_4R_2R_4 + C_1C_4C_5R_2R_4 + C_2C_3C_4R_2R_4\right) + s\left(C_1C_2R_2 + C_1C_3R_1 + C_1C_3R_2 + C_1C_4R_4 - C_1C_5R_2 + C_2C_3R_2 + C_3C_4R_4\right)}$$

- 10.2223 X-INVALID-ORDER-2223 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_1C_2C_3C_4C_6R_1R_2R_4R_6s^4 + C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_6R_1R_2R_6s^3 + C_1C_2C_3C_4C_6R_2R_4R_6 + C_1C_3C_4C_6R_2R_4R_6 + C_1C_3C_4C_6R_2R_4R_6$
- 10.2224 X-INVALID-ORDER-2224 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2\left(C_1C_2C_3C_4C_5R_1R_2R_4R_5s^4 + C_1 + C_3 + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_5R_1R_2R_5 + C_1C_3C_4C_5R_2R_4R_5 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_3R_4 + C_$
- 10.2225 X-INVALID-ORDER-2225 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- **10.2226** X-INVALID-ORDER-2226 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_2 + s^2}{C_1C_2C_3C_4C_5C_6R_1R_2R_4R_5s^4 + C_1C_6 + C_3C_6 + s^3\left(C_1C_2C_3C_4C_6R_1R_2R_4 + C_1C_2C_3C_5C_6R_1R_2R_5 + C_1C_3C_4C_5C_6R_1R_4R_5 + C_1C_3C_4C_5C_6R_2R_4R_5 + C_2C_3C_4C_5C_6R_2R_4R_5 + s^2\left(C_1C_2C_3C_6R_1R_2 + C_1C_2C_4C_6R_2R_4 + C_1C_2C_5C_6R_2R_4R_5 + C_1C_3C_4C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C_6R_4R_5 + C_1C_3C_5C$
- 10.2227 X-INVALID-ORDER-2227 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- 10.2228 X-INVALID-ORDER-2228 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$
- $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_2R_6 + s^2\left(C_1C_3C_4R_1R_2R_4R_6 + C_1C_3C_5R_1R_2R_5R_6 + C_3C_4C_5R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6 + C_3C_5R_2R_5R_6\right)}{C_1C_2C_3C_4R_1R_2R_4R_5s^3 C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_3R_1R_2R_5 + C_1C_3C_4R_2R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_4R_5$
- 10.2229 X-INVALID-ORDER-2229 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_5s^3 + C_3R_2 + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_3C_4C_5R_2R_4R_5\right) + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_4 + C_3C_5R_2R_5\right)}{C_1C_2C_3C_4C_6R_1R_2R_4R_5s^4 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_5\right) + s^2\left(C_1C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_6R_2R_5 + C_1C_3C_6R_2R_5\right) + s^2\left(C_1C_3C_6R_2R_4R_5\right) +$
- 10.2230 X-INVALID-ORDER-2230 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_2 + s^3\left(C_1C_3C_4C_5R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_5C_6R_1R_2R_5R_6 + C_3C_4C_5R_2R_4R_5R_6\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_5R_2R_4R_5 + C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_5R_2R_4R_5 + C_3C_4C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5\right) + s^2\left(C_1C_3C_4R_1R_2R_5 + C_1C_3C_6R_1R_2R_5\right) + s^2\left(C_1C_3C_4R_1R_3R_5 + C_1C_3C_6R_1R_3R_5\right) + s^2\left(C_1C_3C_4R_1R_3R_5 + C_1C_3C_6R_1R_3R_5\right) + s^2\left(C_1C_3C_4R_1R_3R_5 + C_1C_3C_4R_3R_5\right) + s^2\left(C_1C_3C_4R_1R_3R_5 + C_1C_3C_4R_3R_5\right) + s^2\left(C_1C_3C_4R_1R_3R_5 + C_1C_3C_4R_3R_5\right) + s^2\left(C_1C_3C_4R_3R_5\right) + s^2\left(C_1C_3C_4R_3R_5\right) + s^2\left(C_1C_3C_4R_3$

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10.2231 X-INVALID-ORDER-2231 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 s^4 - C_1 R_2 + C_1 R_5 + C_3 R_5 + s^3 \left( C_1 C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_2 R_4 R_5 R_6 + C_1 C_3 C_4
10.2232 X-INVALID-ORDER-2232 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                 H(s) = \frac{C_1C_3R_1R_2R_4s + C_3R_2R_4}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.2233 X-INVALID-ORDER-2233 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_{3s}}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_{6s}}\right)
                                                                                                                                                                                 H(s) = \frac{C_1C_3C_6R_1R_2R_4R_6s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_4C_6R_2R_4R_5 + C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_1C_6R_5R_5 + C_1C_6R
10.2234 X-INVALID-ORDER-2234 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_6}{C_1C_2C_3C_6R_1R_2R_4R_5R_6s^3 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_3C_6R_1R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 + C_1C_3C_6R_2R_4R_5 + C_1C
10.2235 X-INVALID-ORDER-2235 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1C_2C_3C_6R_1R_2R_4R_6s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6 + C_1C_4C_6R_2R_4R_6 + C_1C_5C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_6 + C_1C_3C_6R_2R_4R_
10.2236 X-INVALID-ORDER-2236 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1C_2C_3C_5R_1R_2R_4R_5s^3 + C_1R_2 + C_1R_4 + C_3R_4 + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_4C_5R_2R_4R_5 + C_1C_4C_5R_2R_4R_5 + C_1C_3R_2R_4 + C_1C_3R_2R_4 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_1C_5R_4 +
10.2237 X-INVALID-ORDER-2237 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_2C_3C_5C_6R_1R_2R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_2R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_4R_5 + C_1C_4C_5C_6R_5R_5 + C_1C_5C_6R_5R_5 + C_1C_5C_5C_6R_5R_5 + C_1C_5C_5C_6R_5R_5 + C_1C_5C_5C_6R_5R_5 + C_1C_5C_5C_6R_5R_5 + C_1C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_
10.2238 X-INVALID-ORDER-2238 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_2C_3C_5C_6R_1R_2R_4R_5s^3 + C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_3C_5C_6R_2R_4R_5 + C_1C_3C_5C_6R_2R_4R_5
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10.2239 X-INVALID-ORDER-2239 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2240 X-INVALID-ORDER-2240 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5\right)}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}$

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10.2241 X-INVALID-ORDER-2241 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                            H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_4R_5 + C_1C_3
10.2242 X-INVALID-ORDER-2242 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{C_1C_2C_3C_6R_1R_2R_4R_5R_6s^3 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + s^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_3C_6R_2R_4R_5R_6 
10.2243 X-INVALID-ORDER-2243 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
 H(s) = \frac{C_1C_3R_1R_2R_4s + C_3R_2R_4}{s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_5 + C_1C_6R_4R_5 + C_3C_6R_4R_5\right)}
10.2244 X-INVALID-ORDER-2244 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
 H(s) = \frac{C_1C_3C_6R_1R_2R_4R_6s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_6R_2R_4R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_2R_4R_5 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_4R_5 + C_1C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_4R_5 + C_1C_3C_6R_4R_5\right)}
10.2245 X-INVALID-ORDER-2245 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_2R_4R_6s + C_3R_2R_4R_5}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + S^3\left(C_1C_2C_3C_6R_1R_2R_4R_5R_6 + C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_3R_1R_2R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_5R_5 + C_1C_3C_6R_5R_5R_5 + C_1C_3C_6R_5R_5R_5 + C_1C_3C_6R_5R_5R
10.2246 X-INVALID-ORDER-2246 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s}{C_1R_2 + C_1R_4 + C_3R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_4R_6 + C_1C_3C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s
10.2247 X-INVALID-ORDER-2247 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
10.2248 X-INVALID-ORDER-2248 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4
H(s) = \frac{C_1C_3C_5R_1R_2R_4s + C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^3\left(C_1C_2C_3C_5C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_6R_2R_3R_4 + C_1C_3C_5C_6R_2R_3R_4 + C_1C_5C_5C_6R_2R_3R_4 + C_1C_5C_5C_6R_2R_3R_4 + C_1C_5C_5C_5C_5C_5C_5C_5C_5C_5C_
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10.2250 X-INVALID-ORDER-2250 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_4 + c\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_4 + c\left(C_1C_3C_5C_6R_1R_2R_4 + c\left(C_1C_3C_5C_6R_1R_2R_4 + c\left(C_1C_3C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_2R_3R_4 + c\left(C_1C_3C_5C_6R_2R_3R_4 + c\left(C_1C_3C_5C_5C_6R_2R_3R_4 + c\left(C_1C_3C$

 $H(s) = \frac{1}{C_1R_2 + C_1R_4 + C_3R_4 + s^4\left(C_1C_2C_3C_5C_6R_1R_2R_4R_5R_6 + C_1C_2C_3C_5C_6R_2R_3R_4R_5 + C_1C_2C_3C_5R_2R_3R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_3R_4R_5 + C_1C_2C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_$

10.2249 X-INVALID-ORDER-2249 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

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H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5\right)}{s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5 - C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5 + C_1C
10.2252 X-INVALID-ORDER-2252 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5 + C_3C_6R_2R_4R_5 + 
10.2253 X-INVALID-ORDER-2253 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_4}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_3R_2R_3R_4R_5 + C_1C_2C_6R_2R_4R_5R_6 - C_1C_3C_5R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C
10.2254 X-INVALID-ORDER-2254 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                            H(s) = \frac{C_1C_3R_1R_2s + C_3R_2}{s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_5\right) + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C
10.2255 X-INVALID-ORDER-2255 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                            H(s) = \frac{C_1C_3C_6R_1R_2R_6s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_5\right) + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_1R_5 - C_1C_3C_6R_2R_5 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_3
10.2256 X-INVALID-ORDER-2256 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3R_1R_2R_6s + C_3R_2R_6}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_5R_6 + C_1C_3C_4R_2R_3R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2R_5 + C_1C_2C_3R_2R_3R_5 + C_1C_2C_3R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_3R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2R_5 + C_1C_2C_3R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_3R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_5 + C_1C_3C_6R_
10.2257 X-INVALID-ORDER-2257 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_2C_3C_6R_1R_2R_6 + C_1C_3C_4C_6R_2R_3R_6 + C_1C_3C_5R_2R_3 + C_1C_2C_3R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_6 + C_1C_3C_6R_3R_6 + C_1C_
10.2258 X-INVALID-ORDER-2258 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_6s^2 + C_3C_5R_2R_6s}{C_1 + C_3 + s^3\left(C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_5R_2R_3R_5 + C_1C_3C_4R_2R_3 + C_1C_2C_3R_2R_3 + C_1C_3C_5R_2R_3 + C_1C_3C_5R_3R_3 + C_1C_
10.2259 X-INVALID-ORDER-2259 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_1C_3C_5R_1R_2s + C_3C_5R_2
H(s) = \frac{C_1C_3C_5R_1R_2s + C_3C_5R_2}{C_1C_6 + C_3C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_2R_5 + C_1C_2C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_3 + C_1C_2C_3C_6R_2R_3 + C_1C_3C_5C_6R_2R_3 + C_1C_3C_5C_6R_3R_3 + C_1C_3C_5C_6R_3R_3 + C_1C_3C_5C_6R_
10.2260 X-INVALID-ORDER-2260 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_1C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_2 + s(C_1C_3C_5R_1R_2 + C_3C_5C_6R_2R_6)
H(s) = \frac{C_1C_3C_5C_6R_1R_2R_6s + C_3C_5C_6R_1R_2R_6s + C_3C_5R_2R_3R_5 + C_1C_3C_5R_1R_2 + S_3C_5C_6R_2R_3R_5 + C_1C_3C_5R_1R_2 + S_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C_5C_6R_2R_3 + C_1C_5C_5C_6R_2R_3 + C_1C_5C_5C_6R_2R_3 + C_1C_5C_5C_6R_2R_3 + C_1C_5C_5C_6R_2R_3 +
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10.2251 X-INVALID-ORDER-2251 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

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10.2261 X-INVALID-ORDER-2261 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1 + C_3 + s^4 \left( C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_5 R_2 R_3 R_5 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_5 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_5 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_5 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_2 R_3 R_5 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_3 R_5 + C_1 C_2 C_3 C_5 R_5 R_5 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_3 R_5 + C_1 C_2 C_3 C_5 R_5 R_5 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_5 R_5 + C_1 C_2 C_5 C_5 R_5 R_5 \right) + s^3 \left( C_1 C_2 C_3 C_5 R_5 R_5 + C_1 C_2 C_5 C_5 R_5 R_5 \right) + s^3 \left( C_1 C_2 C_5 C_5 R_5 R_5 + C_1 C_2 C_5 C_5 R_5 R_5 \right) + s^3 \left( C_1
10.2262 X-INVALID-ORDER-2262 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_5s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_5R_2R_5\right)}{s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 - C_1C_3C_6R_2R_3R_5\right) + s^2\left(C_1C_2C_6R_2R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1C_3C_6R_2
10.2263 X-INVALID-ORDER-2263 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5C_6R_1R_2R_5R_6s^3 + C_3R_2 + s^2\left(C_1C_3C_5R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_3C_5C_6R_2R_5R_6\right) + s\left(C_1C_3R_1R_2 + C_3C_5R_2R_5 + C_3C_6R_2R_6\right)}{s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_5 + C_1
10.2264 X-INVALID-ORDER-2264 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_1C_3C_5R_1R_2R_5R_6s^2 + C_3R_2R_6 +
10.2265 X-INVALID-ORDER-2265 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_1C_3C_4R_1R_2R_4R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3R_1R_2R_5 + C_1C_2C_3R_2R_3R_5 + C_1C_2C_4R_2R_4R_5 + C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_4R_3R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_5 + C_1C_3C_4R_3R_5 + 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_1C_3C_4R_1R_2R_4R_6s^2 + C_3R_2R_6 + s(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6)
10.2266 X-INVALID-ORDER-2266 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_1C_3C_4R_1R_2R_4s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_2R_3R_3\right)
                                      \frac{C_1C_3C_4R_1R_2R_4s^2 + C_3R_2 + s\left(C_1C_3R_1R_2 + C_3C_4R_2R_3 + C_1C_3C_4R_1R_2R_4s^2 + C_3R_4R_5 + C_1C_3C_4R_2R_4R_5 + C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_5 + C_1C_3C_4C_6R_2R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_6R_4R_5 + C_1C_3C_4C_
10.2267 X-INVALID-ORDER-2267 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_1C_3C_4C_6R_1R_2R_4R_6s^3 + C_3R_2 + s^2(C_1C_3C_4R_1R_2R_4 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_6R_2R_4R_6)
H(s) = \frac{C_1C_3C_4C_6R_1R_2R_4R_6s^3 + C_3R_2 + s^2\left(C_1C_3C_4R_1R_2R_4 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_3C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_2R_4R_5 
10.2268 X-INVALID-ORDER-2268 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-}{-C_1R_2 + C_1R_5 + C_3R_5 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_4R_5R_6 + C_1C_2C_3C_4C_6R_2R_3R_4R_5 + C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_5R_6 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_3C_4C_6R_2R_4R_5R_6 + C_1C_3C_4C_6R_1R_4R_5R_6 - C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_2C_3C_4R_2R_3R_4R_5 + C_1C_2C_3C_4R_3R_4R_5 + C_1C_2C_3C_4R_3R_4R_5 + C_1C_2C_3C_4R_4R_5R_5 + C_1C_2C_3C_4R_5R_5 
10.2269 X-INVALID-ORDER-2269 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_2R_6s + s^2\left(C_1C_3C_5R_1R_2R_6 + C_3C_4C_5R_2R_4R_6\right)}{C_1 + C_3 + s^3\left(C_1C_2C_3C_4R_1R_2R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_4R_4 + C_1C_3C_4R_4 + C_1C_3C_4R_4
```

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4\right)}{C_1C_6 + C_3C_6 + s^3\left(C_1C_2C_3C_4C_6R_1R_2 + C_1C_2C_3C_4C_6R_2R_3 + C_1C_2C_3C_6R_2R_3 + C_1C_2C_4C_6R_2R_4 + C_1C_3C_4C_6R_2R_4 + C_1C_3C_4C_6R_2R$

10.2270 X-INVALID-ORDER-2270 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

```
10.2271 X-INVALID-ORDER-2271 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
```

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_2 + s^2\left(C_1C_3C_4C_5R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_6 + C_3C_4C_5C_6R_2R_4R_6\right) + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4 + C_1C_3C_5C_6R_1R_2R_4 + C_1C_3C_4C_6R_2R_4 + C_1C_3C_4C_6R_4R_4 +$

10.2272 X-INVALID-ORDER-2272
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{1}{C_1 + C_3 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_4 C_6 R_2 R_3 R_4 R_6 - C_1 C_3 C_4 C_5 C_6 R_2 R_3 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_4 C_6 R_2 R_3 R_4 + C_1 C_3 C_4 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_2 R_3 R_6 +$

10.2273 X-INVALID-ORDER-2273
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{1}{C_1 + C_3 + s^4 \left(C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 R_2 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_4 + C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_3 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 R_5 R_5 + C_1 C_5 C_5 C_5 R_5 R_5 + C_1 C_5 C$

10.2274 X-INVALID-ORDER-2274
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

10.2275 X-INVALID-ORDER-2275
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

10.2276 X-INVALID-ORDER-2276
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{1}{C_1 + C_3 + s^5 \left(C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_4 C_6 R_1 R_2 R$

10.2277 X-INVALID-ORDER-2277
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_2R_6 + s^2\left(C_1C_3C_4R_1R_2R_4R_6 + C_1C_3C_5R_1R_2R_5R_6 + C_3C_4C_5R_2R_4R_5\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 + C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_3R_4R_5 + C_1C$

10.2278 X-INVALID-ORDER-2278
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

 $\frac{C_1C_3C_4C_5R_1R_2R_4R_5s^3 + C_3R_2 + s^2\left(C_1C_3C_4R_1R_2R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 - C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C_6R_3R_4 + C_1$

10.2279 X-INVALID-ORDER-2279
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_2 + s^3\left(C_1C_3C_4C_5R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_5C_6R_1R_2R_5R_6 + C_3C_4C_5C_6R_2R_4R_5R_6\right) - s^4\left(C_1C_2C_3C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4 + C_1C_3C_4C$

10.2280 X-INVALID-ORDER-2280
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{-C_1R_2 + C_1R_5 + C_3R_5 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_4R_5R_6 + C_1C_2C_3C_4C_6R_2R_3R_4R_5R_6 - C_1C_3C_4C_5C_6R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_5R_6 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_4C_6R_2R_4R_5R_6 - C_1C_3C_4C_5R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_5R_6 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_3C_4R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_3R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_2R_3R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_4R_5R_6\right) + s^3\left(C_1C_2C_3C_4R_5R_5R_5\right) + s^3\left(C_1C_2C_3C_4R_5R_5R_5\right) + s^3\left(C_1C_2C_3C_4R_5R_5R_5\right) + s^3\left(C_1C_2C_3C_4R_5R_5R_5\right) + s^3\left(C_1C_2C_3C_4R_5R_5R_5\right) + s^3\left(C_1C_2C_3$

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10.2281 X-INVALID-ORDER-2281 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_3R_1R_2R_4s + C_3R_2R_4
H(s) = \frac{C_1C_3R_1R_2R_4s + C_3R_2R_4}{s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_4R_5 + C_1C_3C_6R_
10.2282 X-INVALID-ORDER-2282 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                             \frac{C_{1}C_{3}C_{6}R_{1}R_{2}R_{4}R_{6}s^{2}+C_{3}R_{2}R_{4}+s\left(C_{1}C_{3}R_{1}R_{2}R_{4}+C_{3}C_{6}R_{2}R_{4}R_{6}\right)}{s^{3}\left(C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2
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10.2283 X-INVALID-ORDER-2283 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_3R_2R_3R_4R_5 + C_1C_2C_6R_2R_4R_5R_6 + C_1C_3C_4R_2R_3R_4R_5 + C_1C_3C_4R_3R_4R_5 + C_1C_3C_4R_4R_5 + C_1C_3C_4R_5 + C_1C_3C_4R_5$

10.2284 X-INVALID-ORDER-2284 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_1C_3C_5\pi_1\pi_2\pi_4\pi_6s_3}{C_1R_2+C_1R_4+C_3R_4+s^3\left(C_1C_2C_3C_6R_1R_2R_4R_6+C_1C_3C_4C_6R_2R_3R_4R_6+C_1C_3C_6R_2R_3R_4R_6\right)+s^2\left(C_1C_2C_3R_1R_2R_4+C_1C_2C_6R_2R_4R_6+C_1C_3C_4R_2R_3R_4+C_1C_3C_6R_$

10.2285 X-INVALID-ORDER-2285 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_1C_3C_5R_1R_2R_4R_6s^2 + C_3C_5R_2R_4R_6s$

10.2286 X-INVALID-ORDER-2286 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\frac{1}{C_{1}C_{6}R_{2}+C_{1}C_{6}R_{4}+C_{3}C_{6}R_{4}+s^{3}\left(C_{1}C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{4}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{2}C_{3}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{5}C_{6}R_{2}R_{3}R_{4}+C_{1}C$

10.2287 X-INVALID-ORDER-2287 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_1C_3C_5C_6R_1R_2R_4 + C_1C_2C_3C_5C_6R_1R_2R_4 + C_1C_2C_3C_5C_6R_1R_2R_4 + C_1C_2C_3C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R_4 + C_1C_2C_3C_5C_6R_2R_3R$

10.2288 X-INVALID-ORDER-2288 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{C_{1}R_{2} + C_{1}R_{4} + C_{3}R_{4} + s^{4}\left(C_{1}C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{4}R_{5}R_{6} + C_{1}C_{2}C_{3}C_{5}C_{6}R_{2}R_{3}R_{4}R_{5}R_{6} + C_{1}C_{2}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{2}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{2}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{2}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}$

10.2289 X-INVALID-ORDER-2289 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5s^2 + C_3R_2R_4 + s\left(C_1C_3R_1R_2R_4 + C_3C_5R_2R_4R_5\right)}{s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_3R_4R_5 + C_1C_3C$

10.2290 X-INVALID-ORDER-2290 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{4}R_{5}R_{6}s^{3}+C_{3}R_{2}R_{4}+s^{2}\left(C_{1}C_{3}C_{5}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{2}R_{4}R_$

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10.2291 X-INVALID-ORDER-2291 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5R_6 + C_1C_2C_3C_6R_2R_3R_4R_5R_6 - C_1C_3C_5C_6R_2R_3R_4R_5R_6\right) + s^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_3R_2R_3R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_2C_3R_4R_5 + C_1C_2C_3R_5 + C_1
10.2292 X-INVALID-ORDER-2292 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)
                            H(s) = \frac{C_1C_3R_1R_2R_3R_4R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6\right)}{C_1C_2C_3R_1R_2R_3R_4R_5s^3 + R_4R_5 + s^2\left(C_1C_2R_1R_2R_4R_5 + C_1C_2R_2R_3R_4R_5 + C_1C_3R_1R_3R_4R_5 + C_2C_3R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5 + C_3R_3R_4R_5\right)}
10.2293 X-INVALID-ORDER-2293 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3R_1R_2R_3R_4s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4\right)}{C_1C_2C_3C_6R_1R_2R_3R_4R_5s^4 + C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 + C_1C_6R_2R_3R_4 + C_1
10.2294 X-INVALID-ORDER-2294 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_6R_1R_2R_3R_4R_6s^3 + R_2R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_6R_1R_2R_4R_6 + C_3C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4 + C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_3R_4R_5s^4 + C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_2R_4R_5 + C
10.2295 X-INVALID-ORDER-2295 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
10.2296 X-INVALID-ORDER-2296 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                     H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_6\right)}{C_1C_2C_3R_1R_2R_3R_4s^3 + R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_2R_2R_3R_4 + C_1C_3R_1R_3R_4 + C_1C_3R_2R_3R_4 + C_2C_3R_2R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_3R_3R_4\right)}
10.2297 X-INVALID-ORDER-2297 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                     H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4\right)}{C_1C_2C_3C_6R_1R_2R_3R_4s^3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_3C_6R_2R_4\right)}
10.2298 X-INVALID-ORDER-2298 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                     H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_2R_3R_4R_6\right) + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_3R_4s^3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_2R_4 + C_1C_6R_2R_4\right)}
10.2299 X-INVALID-ORDER-2299 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6s + s^2\left(C_1C_5R_1R_4R_4R_6s + s^2\left(C_1C_5R_1R_4R
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 $\frac{C_{1}C_{3}C_{5}n_{1}n_{2}n_{3}n_{4}n_{6}s^{*} + C_{5}n_{2}n_{4}n_{6}s + s^{*}}{C_{1}C_{5}n_{1}n_{2}n_{4}n_{6}s + s^{*}} + C_{5}n_{2}n_{4}n_{6}s + s^{*}} \frac{(C_{1}C_{5}n_{1}n_{2}n_{4}n_{6} + c_{3}C_{5}n_{2}n_{4}n_{6}s + s^{*})}{(C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{5}R_{1}R_{2}R_{4}R_{5} + C_{1}C_{2}C_{5}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{5}R_{1}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}R_{2}R_{3}R_{4} + C_{1}C_{3}R_{3}R_{4} +$

440

10.2300 X-INVALID-ORDER-2300 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_4R_6s^3)$

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10.2301 X-INVALID-ORDER-2301 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $C_1C_3C_5R_1R_2R_3R_4s^2 + C_5R_2R_3$

10.2302 X-INVALID-ORDER-2302 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_1C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2(C_1C_3C_5R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_5C_6R_1R_5C_6R_5$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_3R_4R_5 + C_1C_3C_5C_6R_1R_3R_4R_5 + C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_$

10.2303 X-INVALID-ORDER-2303 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6s^5 + R_4 + s^4(C_1C_2C_3C_5R_1R_2R_3R_4R_5 + C_1C_2C_3C_6R_1R_2R_3R_4R_5 + C_1C_2C_5C_6R_1R_2R_4R_5R_6 + C_1C_3C_5C_6R_1R_3R_4R_5R_6 + C_1C_3C_5C_6R_2R_3R_4R_5R_6 + C_1C_3C_5C_6R_2R_3R_4R_5R_5 + C_1C_3C_5C_6R_2R_3R_4R_5R_5 + C_1C_3C_5C_6R_2R_3R_4R_5R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_5R_5 + C_1C_3C_5C_5R_5R_5R_5R_5 + C_1C_5C_5C_5R_5R_5R_5R_5$

10.2304 X-INVALID-ORDER-2304 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $\frac{C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}s^{3}+R_{2}R_{4}R_{6}+s^{2}\left(C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}+C_{1}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{$

10.2305 X-INVALID-ORDER-2305 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5s^3 + R_2R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_5R_1R_2R_4R_5 + C_3C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4 + C_5R_2R_4R_5\right)}{C_1C_2C_3C_6R_1R_2R_3R_4R_5s^4 + C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5\right) + s^2\left(C_1C_6R_1R_4R_5 - C_1C_6R_2R_3R_4 + C_1C_6R_3R_4 + C_1C_6R$

10.2306 X-INVALID-ORDER-2306 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_2R_4 + s^3\left(C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_5 + C_1C_5C_6R_1R_2R_3R_4R_5 + C_1C_5C_6R_1R_2R_4R_5 + C_1C_5C_6R_1R_2R_4R_5 + C_1C_5R_1R_2R_4R_5 + C_1C_5R_2R_3R_4R_5 + C_1C_5R_$

10.2307 X-INVALID-ORDER-2307 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_1C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_2R_4R_6 + s^2$ (C

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_2R_4R_6 + s^2\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6s^4 + R_4R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5R_6 + C_1C_3C_6R_2R_3R_4R_5R_6 + C_1C_3C_6R_3R_4R_5R_5 + C_1C_3C_6R_3R_4R_5R_5 + C_1C_3C_6R_3R_4R_5R_5 + C_1C_3C_6R_3R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5R_5 + C_1C_3C_6R_5$

10.2308 X-INVALID-ORDER-2308 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_3R_1R_2R_3R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_3R_2R_3R_6\right)}{C_1C_2C_3R_1R_2R_3R_5s^3 + R_5 + s^2\left(C_1C_2R_1R_2R_5 + C_1C_2R_2R_3R_5 + C_1C_3R_1R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5 + C_2C_3R_2R_3R_5\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_2R_2R_5 + C_3R_3R_5\right)}$

10.2309 X-INVALID-ORDER-2309 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3R_1R_2R_3s^2 + R_2 + s\left(C_1R_1R_2 + C_3R_2R_3\right)}{C_1C_2C_3C_6R_1R_2R_3R_5s^4 + C_6R_5s + s^3\left(C_1C_2C_6R_1R_2R_5 + C_1C_2C_6R_2R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 + C_1C_6R_2R_3 + C_1C_6R_2R_3 + C_1C_6R_2R_5 +$

10.2310 X-INVALID-ORDER-2310 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_6R_1R_2R_3R_6s^3 + R_2 + s^2\left(C_1C_3R_1R_2R_3 + C_1C_6R_1R_2R_6 + C_3C_6R_2R_3R_6\right) + s\left(C_1R_1R_2 + C_3R_2R_3 + C_6R_2R_6\right)}{C_1C_2C_3C_6R_1R_2R_3R_5s^4 + C_6R_5s + s^3\left(C_1C_2C_6R_1R_2R_5 + C_1C_2C_6R_2R_3R_5 + C_1C_3C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 + C_1C_4C_6R_2R_3R_5 + C_1C_6R_2R_3 + C_1C_6R_3R_3 + C_1C_6R_3R_$

 $\textbf{10.2314} \quad \textbf{X-INVALID-ORDER-2314} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_6 s^3 + C_5 R_2 + s^2 \left(C_1 C_3 C_5 R_1 R_2 R_3 + C_1 C_5 C_6 R_1 R_2 R_6 + C_3 C_5 C_6 R_2 R_3 R_6\right) + s \left(C_1 C_5 R_1 R_2 + C_3 C_5 R_2 R_3 + C_5 C_6 R_2 R_6\right)}{C_1 C_2 C_3 C_6 R_1 R_2 R_3 s^3 + C_6 + s^2 \left(C_1 C_2 C_6 R_1 R_2 + C_1 C_2 C_6 R_2 R_3 + C_1 C_3 C_6 R_1 R_3 + C_1 C_3 C_6 R_2 R_3 + C_1 C_4 C_6 R_2 R_3 + C_1 C_5 C_6 R_2 R_3$

10.2315 X-INVALID-ORDER-2315 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_3C_5R_2R_3R_6\right)}{C_1C_2C_3C_6R_1R_2R_3R_6s^4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_6R_1R_2R_6 + C_1C_3C_6R_1R_3R_6 + C_1C_3C_6R_2R_3R_6 + C_1C_3C_6R_2R_3R_6\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_3R_1R_3 + C_1C_3R_2R_3 + C_1C_3R_2R_3 + C_1C_3R_2R_3 + C_1C_3R_2R_3 + C_1C_3R_2R_3 + C_1C_3R_2R_3 + C_1C_3R_3R_6\right)}$

10.2316 X-INVALID-ORDER-2316 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_6s^3 + C_5R_2R_6s + s^2\left(C_1C_5R_1R_2R_6 + C_3C_5R_2R_3R_6\right)}{C_1C_2C_3C_5R_1R_2R_3R_5s^4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_5R_1R_2R_5 + C_1C_3C_5R_1R_3R_5 + C_1C_3C_5R_2R_3R_5 + C_1C_4C_5R_2R_3R_5 + C_1C_4C$

10.2317 X-INVALID-ORDER-2317 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.2318 X-INVALID-ORDER-2318 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_6s^3 + C_5R_2 + s^2\left(C_1C_3C_5R_1R_2R_3 + C_1C_5C_6R_1R_2R_6 + C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_3C_5C_6R_1R_2R_3 + C_1C_5C_6R_1R_2R_3 + C_1C_5C_6R_1R_2R_3 + C_1C_3C_5C_6R_1R_2R_3 + C_1C_3C_5C_6R_1R_2R_3 + C_1C_3C_5C_6R_1R_3R_5 + C_1C_3C_5C_6R_2R_3R_5 + C_1C_3C$

10.2319 X-INVALID-ORDER-2319 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_1R_2R_3R_5R_6s^5 + s^4\left(C_1C_2C_3C_5R_1R_2R_3R_5 + C_1C_2C_3C_6R_1R_2R_3R_6 + C_1C_2C_5C_6R_2R_3R_5R_6 + C_1C_3C_5C_6R_2R_3R_5R_6 + C_1C_3C_5C_6R_3R_5R_5R_5 + C_1C_3C_5C_6R_3R_5R_5R_5 + C_1C_3C_5C_6R_5R_5R_5R_5 + C_1C_3C_5C_5C_6R_5R_5R_5R_5 + C_1C_5C_5C_6R_5R_5R_5R_5 + C_1C_5C_5C_6R_5R_5R_5R_5 + C_1C_5C_5C_6R_5R_$

10.2320 X-INVALID-ORDER-2320 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_5R_6s^3 + R_2R_6 + s^2\left(C_1C_3R_1R_2R_3R_6 + C_1C_5R_1R_2R_5R_6 + C_3C_5R_2R_3R_5R_6\right) + s\left(C_1R_1R_2R_6 + C_3R_2R_3R_6 + C_5R_2R_5R_6\right)}{C_1C_2C_3R_1R_2R_3R_5s^3 + R_5 + s^2\left(C_1C_2R_1R_2R_5 + C_1C_2R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_3R_5 +$

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 10.2321 \quad \textbf{X-INVALID-ORDER-2321} \quad Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{d_4}s, \frac{R_5}{C_3 R_3 s + 1}, \frac{1}{d_6}s, \frac{R_5}{C_3 R_3 R_5 s + 1} + R_2 + s^2 (C_1 C_3 R_1 R_2 R_3 + C_1 C_5 R_1 R_2 R_5 + C_3 C_5 R_2 R_3 R_5) + s (C_1 R_1 R_2 + C_3 R_2 R_3 + C_5 R_2 R_3 + C_5 R_2 R_3 R_5) + s (C_1 R_1 R_2 + C_2 R_2 R_3 + C_3 C_5 R_2 R_3 R_5) + s (C_1 R_1 R_2 + C_2 R_2 R_3 + C_3 C_5 R_2 R_3 R_5) + s (C_1 R_1 R_2 + C_2 R_2 R_3 + C_3 C_5 R_2 R_3 R_5) + s (C_1 R_1 R_2 + C_2 R_2 R_3 + C_3 C_5 R_2 R_3 R_5) + s (C_1 C_6 R_1 R_2 - C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_3 R_5) + s (C_1 R_1 R_2 + C_2 R_2 R_3 R_5) + s (C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_3 R_5) + s (C_1 R_1 R_2 + C_2 R_2 R_3 R_5) + s (C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 R_5) + s (C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 R_5) + s (C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_5 + C_1 C_6 R_3 R_5 + C_2 C_6 R_2 R_3 R_5) + s (C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_3 R_5) + s (C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 R_5) + s (C_1 C_6 R_1 R_5 - C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_3 R_5) + s (C_1 R_1 R_2 R_5 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_3 R_5) + s (C_1 R_1 R_2 R_5 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_3 R_5) + s (C_1 R_1 R_2 R_3 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_3 R_5) + s (C_1 R_1 R_2 R_3 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_3 R_5) + s (C_1 R_1 R_2 R_3 R_5 + C_1 C_6 R_2 R_3 R_5 + C_1 C_6 R_2 R_3 R_5) + s (C_1 R_1 R_2 R_3 R_5 + C_1 C_6 R_2 R_3 R_5 R_5 + C_1 C_6 R_2 R_3 R_5 R_5 + C_1 C_6 R_2 R_3 R_5 R_5 + C_1 C_6 R_2 R_3 R_5
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10.2324 X-INVALID-ORDER-2324 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_3C_4R_1R_2R_3R_4R_6s^3 + R_2R_6 + s^2\left(C_1C_3R_1R_2R_3R_6 + C_1C_4R_1R_2R_4R_6 + C_3C_4R_2R_3R_4R_6\right) + s\left(C_1C_2C_3C_4R_1R_2R_3R_4R_5s^4 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_5 + C_1C_2C_4R_1R_2R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_5 + C_1C_2R_2R_3R_5 + C_1C_3R_1R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_3R_4R_5s^4 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_5 + C_1C_2C_4R_1R_2R_4R_5 + C_1C_3C_4R_2R_3R_4R_5\right) + s^2\left(C_1C_3R_1R_2R_3R_4R_5 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_4R_5\right) + s^2\left(C_1C_3R_1R_2R_3R_4R_5 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_4R_5\right) + s^2\left(C_1C_3R_1R_2R_3R_4R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_4R_5\right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_5\right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_5\right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_5\right) + s^2\left(C_1C_3R_1R_3R_5 + C_1C_3R_3R_5\right) + s^2\left(C_1C_3R_3R_3R_5 + C_1C_3R_3R_5\right) + s^2\left(C_1C_3R_3R_3R_5\right) + s^2\left(C_1C_3R_3R_5\right) + s^2\left(C_1C_3R_3$

10.2325 X-INVALID-ORDER-2325 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4R_1R_2R_3R_4s^3 + R_2 + s^2\left(C_1C_3R_1R_2R_3 + C_1C_2C_4C_6R_1R_2R_3R_4 + S_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 +$

10.2326 X-INVALID-ORDER-2326 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_6R_1R_2R_3R_4R_6s^4 + R_2 + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_6 + C_1C_4C_6R_1R_2R_4R_6 + C_3C_4C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5s^5 + C_6R_5s + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_3C_4R_1R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_3C_4R_1R_2R_3R_5 + C_1C_3C_4C_6R_2R_3R_4R_5\right) + s^3\left(C_1C_3C_4R_3R_4R_5 + C_1C_3C_4R_3R_4R_5\right) + s^3\left(C_1C_3C_4R_3R_4R_5\right) + s^3\left(C_1C_$

10.2327 X-INVALID-ORDER-2327 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2328 X-INVALID-ORDER-2328 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4R_6s^4 + C_5R_2R_6s + s^3\left(C_1C_3C_5R_1R_2R_3R_6 + C_1C_4C_5R_1R_2R_4R_6 + C_3C_4C_5R_2R_3R_4R_6\right) + s^2\left(C_1C_5R_1R_2R_6 + C_3C_5R_2R_3R_6\right)}{C_1C_2C_3C_4R_1R_2R_3R_4s^4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_4R_1R_2R_4 + C_1C_3C_4R_1R_3R_4 + C_1C_3C_4R_1R_3R_4 + C_1C_3C_4R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_3R_1R_3 + C_1C_3R_2R_3 + C_1C_4R_1R_2R_4 + C_1C_4R_2R_3 + C_1C_4R_1R_3R_4 + C_1C_4R_2R_3R_4 + C_1C_4R_$

10.2329 X-INVALID-ORDER-2329 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4s^3 + C_5R_2 + s^2\left(C_1C_3C_5R_1R_2R_3 + C_1C_4C_5R_1R_2R_4 + C_3C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_3C_3C_4C_6R_1R_2R_3R_4 + C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_4R_3R_4 + C_4C_5C_6R_4R_3R_4 + C_4C_5C_6R_4R_4 + C_4C_5C_6R_4R_4R_5C_5C_5C_6R_4R_4 + C_4C_5C_5C_6R_4R_5C_5C_5C_5C_6R_4R_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C$

10.2330 X-INVALID-ORDER-2330 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_2 + s^3\left(C_1C_3C_4C_5R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_6 + C_1C_4C_5C_6R_1R_2R_4R_6 + C_3C_4C_5C_6R_2R_3R_4R_6\right) + s^2\left(C_1C_3C_5R_1R_2R_3 + C_1C_4C_5R_1R_2R_4 + C_1C_4C_5R_1R_2R_4 + C_1C_4C_5C_6R_2R_3R_4 + C_1C_4C$

- 10.2331 X-INVALID-ORDER-2331 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_2R_3R_4R_6s^5 + s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_3R_6 + C_1C_2C_4C_6R_2R_3R_4R_6 + C_1C_3C_4C_6R_2R_3R_4R_6 + C_1C_3C_4C_6R_3R_4R_6 + C_1C_3C_4C_6R_3R_4R_6 + C_1C_3C_4C_6R_3R_4R_6 + C_1C_3C_4C_6R_3R_4R_6 + C_1C_3C_4C_6R_3R_4R_6 + C_1C_3C_4C_6R_3R_4R_6 + C_1C_3C_4C_$
- 10.2332 X-INVALID-ORDER-2332 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5s^5 + s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_5R_1R_2R_3R_5 + C_1C_2C_4C_5R_1R_2R_4R_5 + C_1C_3C_4C_5R_2R_3R_4R_5 + C_1C_3C_4C_5R_3R_4R_5 + C_1C_3C_4C_5R_3R_5R_5 + C_1C_3C_4C_5R_3R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_5R_5R_5R_5 + C_1C_3C_$
- 10.2333 X-INVALID-ORDER-2333 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 + C_6 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_3R_4 + C_1C_2C_4C_5C_6R_1R_2R_3R_4 + C_1C_2C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_3R_4R_5 + C_1C_3C_4C_5C_6R_2R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_5C_6R_3R_3R_5 + C_1C_3C_5C_5C_6R_3R_5C_5C_6R_3R_5C_5C_6R_5C_5C_6R_5C_5C_5C_5C_5C_$
- **10.2334** X-INVALID-ORDER-2334 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 + C_6 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_3R_4 + C_1C_2C_3C_5C_6R_1R_2R_3R_5 + C_1C_2C_4C_5C_6R_1R_2R_4R_5 + C_1C_3C_4C_5C_6R_1R_3R_4R_5 + C_1C_3C_4C_5C_6R_2R_3R_4R_5 + C_1C_3C_4C_5C_6R_3R_3R_4C_5C_6R_3R_3R_5 + C_1C_3C_4C_5C_6R_3R_3R_4C_5C_5C_6R_3R_3R_5 + C_1C_3C_5C_5C_6R_3R_5C_5C_6R_3R_5C_5C_6R_3R_5C_5C_5C_5C_5C_5C_5C_$
- 10.2335 X-INVALID-ORDER-2335 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- **10.2336** X-INVALID-ORDER-2336 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$
- $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4R_5R_6s^4 + R_2R_6 + s^3\left(C_1C_3C_4R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_5R_6 + C_1C_4C_5R_1R_2R_3R_4R_5R_6 + C_3C_4C_5R_2R_3R_4R_5R_6 \right) + s^2\left(C_1C_3R_1R_2R_3R_6 + C_1C_4C_5R_1R_2R_3R_4R_5 + C_1C_4C_5R_1R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_6 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_2R_1R_2R_5 + C_1C_2R_2R_3R_5 + C_1C_3R_4R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_3R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 + C_1C_4C_5R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_3R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_3R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_3R_3R_4R_5 + C_1C_3C_4R_2R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_3R_3R_4R_5 + C_1C_3C_4R_3R_4R_5 \right) + s^2\left(C_1C_3R_1R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_3R_3R_4R_5 \right) + s^2\left(C_1C_3R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_3R_3R_4R_5 \right) + s^2\left(C_1C_3R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_3R_3R_4R_5 \right) + s^2\left(C_1C_3R_$
- **10.2337** X-INVALID-ORDER-2337 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_3C_4C_5R_1R_2R_3R_4R_5s^4 + R_2 + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_5R_1R_2R_3R_5 + C_1C_4C_5R_1R_2R_4R_5 + C_3C_4C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_2R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_1C_3C_4C_6R_3R_4R_5 + C_1C_3C_4C_6R_$
- **10.2338** X-INVALID-ORDER-2338 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^5 + R_2 + s^4\left(C_1C_3C_4C_5R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_1R_2R_3R_4R_6 + C_1C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_1R_2R_3R_4R_5 + C_1C_$
- 10.2339 X-INVALID-ORDER-2339 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- 10.2340 X-INVALID-ORDER-2340 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$
- $H(s) = \frac{C_1C_3R_1R_2R_3R_4R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6\right)}{C_1C_2C_3R_1R_2R_3R_4R_5s^3 + R_4R_5 + s^2\left(C_1C_2R_1R_2R_4R_5 + C_1C_2R_2R_3R_4R_5 + C_1C_3R_1R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 + C_1R_2R_3R_4 + C_1R$

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10.2341 X-INVALID-ORDER-2341 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3R_1R_2R_3R_4s^2 + R_2R_4 + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4\right)}{C_1C_2C_3C_6R_1R_2R_3R_4R_5s^4 + C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_4C_6R_2R_3R_4R_5 + C_1C_6R_2R_3R_4R_5 + C_1C_6R_2R_3
10.2342 X-INVALID-ORDER-2342 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_6R_1R_2R_3R_4R_6s^3 + R_2R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_6R_1R_2R_4R_6 + C_3C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4 + C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_3R_4R_5s^4 + C_6R_4R_5s + s^3\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_
10.2343 X-INVALID-ORDER-2343 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6s^4 + R_4R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_4R_5R_6 + C_1C_3C_6R_2R_3R_4R_5R_6 + C_1C_3C_6R_3R_4R_5R_5 + C_1C_3C_6R_3R_4R_5R_5 + C_1C_3C_6R_3R_5R_5 + C_1C_3C_6R_3R_5R_5 + C_1C_3C_6R_5R_5R_5 + C_1C_3C_6R_5R_5R_5 + C_1C_3C_6R_5R_5R_5 + C_1C_3C_6R_5R_5R_5 +
10.2344 X-INVALID-ORDER-2344 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)
                                                                                H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2\left(C_1C_5R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_6\right)}{C_1C_2C_3R_1R_2R_3R_4s^3 + R_4 + s^2\left(C_1C_2R_1R_2R_4 + C_1C_2R_2R_3R_4 + C_1C_3R_2R_3R_4 + C_1C_4R_2R_3R_4 - C_1C_5R_2R_3R_4 + C_2C_3R_2R_3R_4\right) + s\left(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_2R_3R_4\right)}
10.2345 X-INVALID-ORDER-2345 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4\right)}{C_1C_2C_3C_6R_1R_2R_3R_4s^3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_1C_5C_5R_3R_4 + C_1C_5C_5R_3R_4 + C_1C_5C_5R_3R_4 + C_1C_5C_5R
10.2346 X-INVALID-ORDER-2346 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                      \frac{C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}s^{3}+C_{5}R_{2}R_{4}+s^{2}\left(C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2
10.2347 X-INVALID-ORDER-2347 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4R_6s + s^2}{C_1C_2C_3C_6R_1R_2R_3R_4R_6s^4 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_4R_6 + C_1C_3C_6R_2R_3R_4R_6 + C_1C_4C_6R_2R_3R_4R_6 + C_1C_5C_6R_2R_3R_4R_6 + C_1C_5C_6R_2R_3R_4R_
10.2348 X-INVALID-ORDER-2348 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
                                      \frac{C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{6}s^{3}+C_{5}R_{2}R_{4}R_{6}s+s^{2}\left(C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}s^{4}+R_{4}+s^{3}\left(C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{5}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{5}R_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}R_{5}R_{5}R_{5}+C_{1}C_{5}R_{5}R_{5}R_{5}R_{5}
10.2349 X-INVALID-ORDER-2349 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_2R_4 + s^2\left(C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_3C_5C_6R_1R_2R_3R_4R_5 + C_1C_3C_5C_6R_2R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3$

10.2350 X-INVALID-ORDER-2350 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

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10.2351 X-INVALID-ORDER-2351 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
```

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6s^5 + R_4 + s^4\left(C_1C_2C_3C_5R_1R_2R_3R_4R_5 + C_1C_2C_5C_6R_1R_2R_4R_5R_6 + C_1C_3C_5C_6R_2R_3R_4R_5R_6 + C_1C_3C_5C_6R_2R_3R_4R_5R_5 + C_1C_3C_5C_6R_2R_3R_4R_5R_5 + C_1C_3C_5C_6R_2R_3R_4R_5R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_4R_5 + C_1C_3C_5C_6R_3R_3R_5 + C_1C_3C_5C_6R_3R_5C_5C_5C_6R_5R_5C_5C_5C_6R_5C_5C_5C_$

10.2352 X-INVALID-ORDER-2352 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $\frac{C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}s^{3}+R_{2}R_{4}R_{6}+s^{2}\left(C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}R_{1}R_{2}R_{4}R_{5}R_{6}\right)+s\left(C_{1}R_{1}R_{2}R_{4}R_{6}+C_{3}R_{2}R_{3}R_{4}R_{6}+C_{5}R_{2}R_{4}R_{5}R_{6}\right)}{C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+c_{1}C_{2}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{3}R_{4}R_{5}+C_{1$

10.2353 X-INVALID-ORDER-2353 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4R_5s^3 + R_2R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_5R_1R_2R_4R_5 + C_3C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_2R_4 + C_3R_2R_3R_4 + C_5R_2R_4R_5\right)}{C_1C_2C_3C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4R_5 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_$

10.2354 X-INVALID-ORDER-2354 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_2R_4 + s^3\left(C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_6 + C_1C_5C_6R_1R_2R_4R_5R_6 + C_3C_5C_6R_2R_3R_4R_5 + C_1C_5R_1R_2R_4R_5 + C_1C_6R_1R_2R_4R_6 + C_3C_5R_2R_3R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_5C_6R_2R_3R_4R_5 + C_1C_5C_6R_2R_3R_4R_$

10.2355 X-INVALID-ORDER-2355 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2356 X-INVALID-ORDER-2356 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, R_5, R_6\right)$

 $H(s) = \frac{R_1 R_2 R_4 R_6}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + s \left(-C_1 R_1 R_2 R_3 R_4 + C_1 R_1 R_2 R_3 R_5 + C_1 R_1 R_2 R_4 R_5 + C_1 R_1 R_3 R_4 R_5\right)}$

10.2357 X-INVALID-ORDER-2357 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_1 R_2 R_4}{s^2 \left(-C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_4 R_5 + C_1 C_6 R_1 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$

10.2358 X-INVALID-ORDER-2358 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_6R_1R_2R_4R_6s + R_1R_2R_4}{s^2\left(-C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$

10.2359 X-INVALID-ORDER-2359 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{-C_1 C_5 C_6 R_1 R_2 R_3 R_4 R_6 s^3 + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(-C_1 C_5 R_1 R_2 R_3 R_6 + C_1 C_6 R_1 R_2 R_4 R_6 + C_1 C_6 R_1 R_2 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 - C_5 R_2 R_3 R_4 + C_6 R_1 R_4 R_6 + C_6 R_2 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_6 R_1 R_4 R_6 + C_6 R_2 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_6 R_1 R_4 R_6 + C_6 R_2 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_3 R_4 + C_1 R_4 R_6 + C_6 R_2 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_4 R_6 + C_6 R_4 R_4 R_6 + C_6 R_4 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_4 R_6 + C_6 R_4 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_4 + C_1 R_4 R_6 + C_6 R_4 R_4 R_6\right) + s \left(C_1 R_4 R_4 R_6 + C_6 R_4 R_4 R_6\right) + s \left(C_1 R_4 R_4 R_6 + C_6 R_4 R_4 R_6\right) + s \left(C_1 R_4 R_4 R_6 + C_6 R_4 R_4 R_6\right) + s \left(C_1 R_4 R_4 R_6 + C_6 R_4 R_4 R_6\right) + s \left(C_1 R_4 R_4 R_6 R_4 R_6\right) + s \left(C_1 R_4 R_4 R_6\right) + s \left(C_1 R_4 R_6 R_4 R_6\right) + s \left(C_1 R_4 R_6 R_4 R_6\right) + s \left(C_1 R_4 R_6 R_6\right) + s \left(C_1 R_4 R_6 R_6\right) + s \left(C_1 R_4 R_6 R_6\right) + s \left(C_1 R_4 R_6\right) + s \left($

10.2360 X-INVALID-ORDER-2360 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{R_{1}R_{4} + R_{2}R_{3} + R_{2}R_{4} + R_{3}R_{4} + s^{3}\left(-C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}R_{6} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}\right) + s^{2}\left(-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{$

10.2361 X-INVALID-ORDER-2361 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_5 R_1 R_2 R_4 R_5 s + R_1 R_2 R_4}{-C_1 C_5 C_6 R_1 R_2 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_4 R_5 + C_1 C_6 R_1 R_3 R_4 R_5 - C_5 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$ **10.2362** X-INVALID-ORDER-2362 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_5C_6R_1R_2R_4R_5R_6s^2 + R_1R_2R_4 + s\left(C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{-C_1C_5C_6R_1R_2R_3R_4R_5s^3 + s^2\left(-C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$ **10.2363** X-INVALID-ORDER-2363 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $C_5R_1R_2R_4R_5R_6s + R_1R_2R_4R_6$ 10.2364 X-INVALID-ORDER-2364 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$ $H(s) = \frac{R_1 R_2}{C_1 C_4 C_6 R_1 R_2 R_3 R_5 s^3 + s^2 \left(-C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_5 + C_1 C_6 R_1 R_3 R_5 + C_4 C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5\right)}$ **10.2365** X-INVALID-ORDER-2365 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_6 R_1 R_2 R_6 s + R_1 R_2}{C_1 C_4 C_6 R_1 R_2 R_3 R_5 s^3 + s^2 \left(-C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_5 + C_1 C_6 R_1 R_3 R_5 + C_4 C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5\right)}$ **10.2366** X-INVALID-ORDER-2366 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{R_1 R_2 R_6}{C_1 C_4 C_6 R_1 R_2 R_3 R_5 R_6 s^3 + R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^2 \left(C_1 C_4 R_1 R_2 R_3 R_6 + C_1 C_6 R_1 R_2 R_3 R_6 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 R_1 R_2 R_3 + C_1 R_$ **10.2367** X-INVALID-ORDER-2367 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$ $H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s^3 \left(C_1 C_4 C_6 R_1 R_2 R_3 R_6 - C_1 C_5 C_6 R_1 R_2 R_3 R_6 \right) + s^2 \left(C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_6 + C_1 C_6 R_1 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3 + C_6 R_1 R_6 + C_6 R_2 R_6 + C_6 R_3 R_6 \right)}$ 10.2368 X-INVALID-ORDER-2368 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$ $H(s) = \frac{C_5 R_1 R_2 R_6 s}{C_1 C_4 C_5 R_1 R_2 R_3 R_5 s^3 + R_1 + R_2 + R_3 + s^2 \left(C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3 + C_1 C_5 R_1 R_2 R_5 + C_1 C_5 R_1 R_3 R_5 + C_4 C_5 R_2 R_3 R_5\right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_3 + C_4 R_2 R_3 + C_5 R_1 R_5 - C_5 R_2 R_3 + C_5 R_2 R_5 + C_5 R_3 R_5\right)}$ **10.2369** X-INVALID-ORDER-2369 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$ $H(s) = \frac{C_5 R_1 R_2}{C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 s^3 + C_6 R_1 + C_6 R_2 + C_6 R_3 + s^2 \left(C_1 C_4 C_6 R_1 R_2 R_3 - C_1 C_5 C_6 R_1 R_2 R_3 + C_1 C_5 C_6 R_1 R_2 R_5 + C_1 C_5 C_6 R_1 R_3 R_5 + C_4 C_5 C_6 R_2 R_3 R_5\right) + s \left(C_1 C_6 R_1 R_3 + C_4 C_6 R_2 R_3 + C_5 C_6 R_1 R_3 + C_5 C_6 R_2 R_3 + C_5 C_6 R_3 +$ 10.2370 X-INVALID-ORDER-2370 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

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 $\frac{C_5C_6R_1R_2R_6s + C_5R_1R_2}{C_1C_4C_5C_6R_1R_2R_3R_5s^3 + C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_1C_4C_6R_1R_2R_3 - C_1C_5C_6R_1R_2R_3 + C_1C_5C_6R_1R_3R_5 + C_4C_5C_6R_2R_3R_5\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_3 + C_4C_6R_2R_3 + C_5C_6R_1R_3 + C_5C_6R_1R_3 + C_5C_6R_2R_3 + C_5C_6R_3R_3 + C$

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10.2371 X-INVALID-ORDER-2371 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_5 R_1 R_2 R_3 R_5}{C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 F_6 s^4 + R_1 + R_2 + R_3 + s^3 \left(C_1 C_4 C_5 R_1 R_2 R_3 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_6 + C_1 C_5 C_6 R_1 R_2 R_3 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_4 C_5 C_6 R_2 R_3 R_5 R_6\right) + s^2 \left(C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3 + C_1 C_5$

10.2372 X-INVALID-ORDER-2372 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_5 s + R_1 R_2}{s^3 \left(C_1 C_4 C_6 R_1 R_2 R_3 R_5 - C_1 C_5 C_6 R_1 R_2 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_5 + C_1 C_6 R_1 R_3 R_5 + C_4 C_6 R_2 R_3 R_5 - C_5 C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_5 + C_6 R_3 R_5\right)}$

10.2373 X-INVALID-ORDER-2373 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_5R_6s^2 + R_1R_2 + s\left(C_5R_1R_2R_5 + C_6R_1R_2R_6\right)}{s^3\left(C_1C_4C_6R_1R_2R_3R_5 - C_1C_5C_6R_1R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_3R_5 + C_4C_6R_2R_3R_5 - C_5C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$

10.2374 X-INVALID-ORDER-2374 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_5R_1R_2R_5R_6s + R_1R_2R_6$ $H(s) = \frac{C_5 R_1 R_2 R_5 R_6 s + R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^3 \left(C_1 C_4 C_6 R_1 R_2 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_2 R_3 R_5 R_6\right) + s^2 \left(C_1 C_4 R_1 R_2 R_3 R_5 - C_1 C_5 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_3 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_5 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_3 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_5 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_3 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_5 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_3 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 R_2 R_3\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 R_2 R_3\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 R_2 R_3\right) + s \left(-C_1 R_1 R_2 R_3 R_5 - C_1 R_2 R_3\right) + s \left(-C_1 R_1 R_2 R$

10.2375 X-INVALID-ORDER-2375 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4 R_1 R_2 R_4 s + R_1 R_2}{s^3 \left(-C_1 C_4 C_6 R_1 R_2 R_3 R_4 + C_1 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_3$

10.2376 X-INVALID-ORDER-2376 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_4C_6R_1R_2R_4R_6s^2 + R_1R_2 + s\left(C_4R_1R_2R_4 + C_6R_1R_2R_6\right)}{s^3\left(-C_1C_4C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_4C_6R_2R_3R_4 + C_4C_6R_2R_3R_5 + C_4C_6R_3R_3R_5 + C_4C$

10.2377 X-INVALID-ORDER-2377 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(-C_1C_4C_6R_1R_2R_3R_4R_6 + C_1C_4C_6R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_3R_4R_5R_6\right) + s^2\left(-C_1C_4R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_5 + C_1C_4R_$

10.2378 X-INVALID-ORDER-2378 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s}{-C_1C_4C_5R_1R_2R_3R_4s^3 + R_1 + R_2 + R_3 + s^2\left(C_1C_4R_1R_2R_3 + C_1C_4R_1R_2R_4 + C_1C_4R_1R_3R_4 - C_1C_5R_1R_2R_3 - C_4C_5R_2R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3\right)}$

10.2379 X-INVALID-ORDER-2379 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4s + C_5R_1R_2}{-C_1C_4C_5C_6R_1R_2R_3R_4s^3 + C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_1C_4C_6R_1R_2R_3 + C_1C_4C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_3 - C_4C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_3 + C_4C_6R_1R_4 + C_4C_6R_2R_3 + C_4C_6R_2R_4 + C_4C_6R_2R_4 + C_4C_6R_2R_3 + C_4C_6R_3R_3 + C_4C_6R_$

10.2380 X-INVALID-ORDER-2380 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_6\right)}{-C_1C_4C_5C_6R_1R_2R_3 + C_4C_5C_6R_1R_2R_3 + C_4C_5C_6R_1R_2R_3 + C_4C_5C_6R_1R_2R_3 + C_4C_5C_6R_1R_2R_3 + C_4C_5C_6R_1R_2R_3 + C_4C_6R_1R_3R_4 + C_4C_6R_1R_3 +$

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10.2381 X-INVALID-ORDER-2381 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_3R_4R_5s^2 + C_5R_1R_2R_3R_4R_5s^2 + C_5R_1R_2R_3R_5s^2 + C_5R_1R_2R_3R_5s^2 + C_5R_1R_2R_3R_5s^2 + C_5R_1R_2R$

10.2382 X-INVALID-ORDER-2382 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^3\left(-C_1C_4C_5R_1R_2R_3R_4 + C_1C_4C_5R_1R_2R_3R_5 + C_1C_4C_5R_1R_2R_4R_5 + C_1C_4C_5R_1R_2R_3 + C_1C_4R_1R_2R_4 + C_1C_4R_1R_3R_4 - C_1C_5R_1R_2R_3 + C_1C_5R_1R_2R_5 + C_1C_5R_1R_3R_5 + C_4C_5R_1R_4R_5 - C_4C_5R_2R_3R_4 + C_4C_5R_3R_3R_4 + C_4C_5R$

10.2383 X-INVALID-ORDER-2383 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4 C_5 R_1 R_2 R_4 s + C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s^3 \left(-C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_4 C_6 R_1 R_2 R_3 + C_1 C_5 C$

10.2384 X-INVALID-ORDER-2384 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s(C_4C_5R_1R_2R_4)$

 $H(s) = \frac{C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_4 + C_4C_5C_6R_1R_2R_4 + C_4C_5C_6R_1R_4 + C_4C_5C_6R$

10.2385 X-INVALID-ORDER-2385 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_1 + R_2 + R_3 + s^4 \left(-C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 R_1 R_$

10.2386 X-INVALID-ORDER-2386 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $\frac{C_4C_5R_1R_2R_4R_5R_6s^2 + R_1R_2R_6 + s\left(C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)}{-C_1C_4C_5R_1R_2R_3R_4R_5s^3 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(-C_1C_4R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_5 +$

10.2387 X-INVALID-ORDER-2387 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_4C_5R_1R_2R_4R_5s^2 + R_1R_2 + s\left(C_4R_1R_2R_4 + C_5R_1R_2R_5\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4R_5s^2 + R_1R_2 + s\left(C_4R_1R_2R_4 + C_5R_1R_2R_5\right)}{-C_1C_4C_5C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_5C_6R_1R_2R_3R_5 - C_4C_5C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_3R_5 + C_$

10.2388 X-INVALID-ORDER-2388 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_4C_5C_6R_1R_2R_4R_5R_6s^3 + R_1R_2 + s^2\left(C_4C_5R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_6 + C_5C_6R_1R_2R_5R_6\right) + s\left(C_4R_1R_2R_4 + C_5R_1R_2R_5 + C_6R_1R_2R_6\right) + s\left(C_4R_1R_2R_4 + C_5R_1R_2R_5 + C_6R_1R_2R_6\right) + s\left(C_4R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_5 + C_4C_6R_1R_4R_5 + C_4C_6R_1R_4R_5$

10.2389 X-INVALID-ORDER-2389 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-C_1C_4C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(-C_1C_4C_5R_1R_2R_3R_4R_5 - C_1C_4C_6R_1R_2R_3R_4R_6 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5R_6 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_5 + C_1C_4C_6R_1$

10.2390 X-INVALID-ORDER-2390 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_1 R_2 R_4}{C_1 C_4 C_6 R_1 R_2 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_4 R_5 + C_1 C_6 R_1 R_3 R_4 R_5 + C_4 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$

10.2391 X-INVALID-ORDER-2391 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_6R_1R_2R_4R_6s + R_1R_2R_4}{C_1C_4C_6R_1R_2R_3R_4R_5s^3 + s^2\left(-C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_3R_4R_5 + C_4C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$

10.2392 X-INVALID-ORDER-2392 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $R_1 R_2 R_4 R_6$

 $\frac{R_{1}R_{2}R_{4}R_{6}}{C_{1}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}s^{3}+R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+s^{2}\left(C_{1}C_{4}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}R_{6}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{$

10.2393 X-INVALID-ORDER-2393 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^3 \left(C_1 C_4 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_5 C_6 R_1 R_2 R_3 R_4 R_6\right) + s^2 \left(C_1 C_4 R_1 R_2 R_3 R_4 - C_1 C_5 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_6 + C_1 C_6 R_1 R_3 R_4 R_6 + C_4 C_6 R_2 R_3 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_4 R_6\right) + s \left(C_1 R_1 R_2 R_3 R_4 R_6 - C_1 C_5 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_4 + C_1$

10.2394 X-INVALID-ORDER-2394 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_5R_1R_2R_4R_6s$

 $H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{C_1 C_4 C_5 R_1 R_2 R_3 R_4 R_5 s^3 + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_1 C_4 R_1 R_2 R_3 R_4 + C_1 C_5 R_1 R_2 R_3 R_5 + C_1 C_5 R_1 R_2 R_3 R_4 + C_1$

10.2395 X-INVALID-ORDER-2395 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4}{C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 s^3 + C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s^2 \left(C_1 C_4 C_6 R_1 R_2 R_3 R_4 + C_1 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_4 C_5 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_5 C_6 R_1 R_2 R_4 +$

10.2396 X-INVALID-ORDER-2396 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4$

 $H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_1C_4C_5C_6R_1R_2R_3R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_4C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_5 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_1C_5C_$

10.2397 X-INVALID-ORDER-2397 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2398 X-INVALID-ORDER-2398 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

10.2399 X-INVALID-ORDER-2399 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_4R_5R_6s^2 + R_1R_2R_4 + s\left(C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{s^3\left(C_1C_4C_6R_1R_2R_3R_4R_5 - C_1C_5C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_4R_5 + C_1C_6R_1R$

10.2400 X-INVALID-ORDER-2400 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $C_5R_1R_2R_4R_5R_6s + R_1R_2R_4R_6$

 $H(s) = \frac{C_5 R_1 R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + R_3 R_4 R_5 + R_1 R_2 R_4 R_5}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + R_3 R_4 R_5 + R_1 R_2 R_3 R_4 R_5 - C_1 C_5 R_1 R_2 R_3 R_4 R_5 - C_1$

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10.2401 X-INVALID-ORDER-2401 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{C_1 C_3 C_6 R_1 R_2 R_4 R_5 R_6 s^3 - R_2 R_4 + R_2 R_5 + R_4 R_5 + s^2 \left(C_1 C_3 R_1 R_2 R_4 R_6 + C_1 C_6 R_1 R_2 R_4 R_6 + C_1 C_6 R_1 R_4 R_5 R_6 + C_3 C_6 R_2 R_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 R_4 + C_1 R_1 R_2 R_5 + C_1 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 - C_6 R_2 R_4 R_6 + C_3 R_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 R_4 + C_1 R_1 R_2 R_5 + C_1 R_1 R_4 R_5 + C_3 R_2 R_4 R_5 - C_6 R_2 R_4 R_6 + C_3 R_4 R_5 R_6 + C_3 R_5 R_5$

10.2402 X-INVALID-ORDER-2402 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_1C_3C_6R_1R_2R_4R_6 - C_1C_5C_6R_1R_2R_4R_6\right) + s^2\left(C_1C_3R_1R_2R_4 - C_1C_5R_1R_2R_4 + C_1C_6R_1R_2R_6 + C_1C_6R_1R_4R_6 + C_3C_6R_2R_4R_6\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4 + C_6R_2R_6 + C_6R_4R_6\right)}$

10.2403 X-INVALID-ORDER-2403 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{C_1C_3C_5R_1R_2R_4R_5s^3 + R_2 + R_4 + s^2\left(C_1C_3R_1R_2R_4 - C_1C_5R_1R_2R_4 + C_1C_5R_1R_2R_5 + C_1C_5R_1R_4R_5 + C_3C_5R_1R_4R_5 + C_3C_5R_2R_4R_5\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_3R_2R_4 - C_5R_2R_4 + C_5R_2R_5 + C_5R_4R_5\right)}$

10.2404 X-INVALID-ORDER-2404 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_1C_3C_5C_6R_1R_2R_4R_5s^3 + C_6R_2 + C_6R_4 + s^2\left(C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_5 + C_1C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4 + C_3C_6R_1R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_5C_6R_2R_4 + C_5C_6R_4R_4 + C_5C_$

10.2405 X-INVALID-ORDER-2405 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_1C_3C_5C_6R_1R_2R_4R_5s^3 + C_6R_2 + C_6R_4 + s^2\left(C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_5 + C_1C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4 + C_3C_6R_1R_4 + C_3C_6R_1R_4 + C_3C_6R_2R_4 + C_5C_6R_2R_4 + C_5C_6R_4R_4 +$

10.2406 X-INVALID-ORDER-2406 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2407 X-INVALID-ORDER-2407 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_1C_3C_6R_1R_2R_4R_5R_6 - C_1C_5C_6R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_6 + C_1C_6R_1R_2R_4R_5 + C_3C_6R_1R_4R_5R_6 + C_3C_6R_2R_4R_5R_6 - C_5C_6R_2R_4R_5R_6\right) + s\left(-C_1R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5 - C_1C_5R_1R_2R_4 - C_1C_5R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5 - C_1C_5R_1R_2R_4 - C_1C_5R_1R_2R_4 - C_1C_5R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5 - C$

10.2408 X-INVALID-ORDER-2408 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s^3 \left(C_1 C_3 C_6 R_1 R_2 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_5 + C_1 C_4 R_1 R_2 R_5 - C_1 C_6 R_1 R_2 R_6 + C_1 C_6 R_1 R_5 R_6 + C_3 C_6 R_2 R_5 R_6 + C_4 C_6 R_2 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_3 R_1 R_5 + C_4 R_2 R_5 - C_6 R_2 R_6 + C_6 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_3 R_1 R_5 + C_4 R_2 R_5 - C_6 R_2 R_6 + C_6 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_3 R_1 R_5 + C_4 R_2 R_5 - C_6 R_2 R_6 + C_6 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_3 R_1 R_5 + C_4 R_2 R_5 - C_6 R_2 R_6 + C_6 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_3 R_4 R_5 + C_4 R_2 R_5 - C_6 R_2 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 + C_1 R_4 R_5 R_6 + C_4 R_4 R_5 R_6 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_2 R_5 + C_4 R_4 R_5 R_6 + C_4 R_5 R_6 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 + C_3 R_4 R_5 R_6 + C_4 R_5 R_6 + C_4 R_5 R_6 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 R_6 + C_4 R_5 R_6 + C_4 R_5 R_6 + C_4 R_5 R_6 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 R_6 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 R_6 + C_4 R_5 R_6 +$

10.2409 X-INVALID-ORDER-2409 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_1C_3C_6R_1R_2R_6 + C_1C_4C_6R_1R_2R_6 - C_1C_5C_6R_1R_2R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_4R_1R_2 - C_1C_5R_1R_2 + C_1C_6R_1R_6 + C_3C_6R_2R_6 + C_4C_6R_2R_6 - C_5C_6R_2R_6\right) + s\left(C_1R_1 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_6R_6\right) + 1}$

10.2410 X-INVALID-ORDER-2410 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_1C_3C_5R_1R_2R_5 + C_1C_4C_5R_1R_2R_5\right) + s^2\left(C_1C_3R_1R_2 + C_1C_4R_1R_2 - C_1C_5R_1R_2 + C_1C_5R_1R_5 + C_3C_5R_1R_5 + C_3C_5R_2R_5 + C_4C_5R_2R_5\right) + s\left(C_1R_1 + C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2 + C_5R_5\right) + 1}$

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10.2411 X-INVALID-ORDER-2411 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3C_5R_1R_2s}{C_6 + s^3\left(C_1C_3C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2R_5\right) + s^2\left(C_1C_3C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_1C_5C_6R_1R_5 + C_3C_5C_6R_1R_5 + C_3C_5C_6R_2R_5\right) + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 + C_5C_6R_2\right)}{c_6 + s^3\left(C_1C_3C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_1C_5C_6R_1R_2 + C_1C_5C_6R_1R_5 + C_3C_5C_6R_1R_5 + C_3C_5C_6R_2R_5\right) + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 + C_5C_6R_2\right)}$

10.2412 X-INVALID-ORDER-2412 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_6 + s^3\left(C_1C_3C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_1C_5C_6R_1R_2 + C_1C_5C_6R_1R_5 + C_3C_5C_6R_1R_5 + C_3C_5C_6R_2R_5 + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_1 + C_3C_6R_2 + C_5C_6R_2 +$

10.2413 X-INVALID-ORDER-2413 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^4\left(C_1C_3C_5C_6R_1R_2R_5R_6 + C_1C_4C_5C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_6 + C_1C_4C_5R_1R_2R_6 + C_1C_5C_6R_1R_5R_6 + C_3C_5C_6R_1R_5R_6 + C_3C_5C_6R_1R_5R_5 + C_3C_5C_6R_5R_5 + C_3C_5C_5R_5R_5 + C_3C_5C_5$

10.2414 X-INVALID-ORDER-2414 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_5s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_1C_3C_6R_1R_2R_5R_6 + C_1C_4C_6R_1R_2R_5R_6 - C_1C_5C_6R_1R_2R_5R_6\right) + s^2\left(C_1C_3R_1R_2R_5 - C_1C_5R_1R_2R_5 - C_1C_6R_1R_2R_6 + C_3C_6R_1R_5R_6 + C_3C_6R_2R_5R_6 + C_4C_6R_2R_5R_6\right) + s\left(-C_1R_1R_2 + C_1R_1R_2R_5 - C_1C_5R_1R_2R_5 - C_1C_6R_1R_2R_5 - C_1C_6R_1R_5 - C_1C_6R_1R_5$

10.2415 X-INVALID-ORDER-2415 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{C_1C_3C_4R_1R_2R_4R_5s^3 - R_2 + R_5 + s^2\left(C_1C_3R_1R_2R_5 - C_1C_4R_1R_2R_4 + C_1C_4R_1R_2R_5 + C_1C_4R_1R_4R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_1R_5 + C_3R_2R_5 - C_4R_2R_4 + C_4R_2R_5 + C_4R_4R_5\right)}$

10.2416 X-INVALID-ORDER-2416 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4R_1R_2R_4s + C_3R_1R_2}{C_1C_3C_4C_6R_1R_2R_4s + C_3C_4C_6R_1R_2R_5 - C_1C_4C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_5 + C_1C_4C_6R_1R_4R_5 + C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_1R_5 + C_3C_6R_1R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_4R_5 +$

10.2417 X-INVALID-ORDER-2417 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6\right)}{C_1C_3C_4C_6R_1R_2R_4R_5s^3 - C_6R_2 + C_6R_5 + s^2\left(C_1C_3C_6R_1R_2R_5 - C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_4R_5 + C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_1R_2 + C_1C_6R_1R_5 + C_3C_6R_1R_5 + C$

10.2418 X-INVALID-ORDER-2418 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_4R_1R_2R_4}{C_1C_3C_4C_6R_1R_2R_4R_5R_6s^4 - R_2 + R_5 + s^3\left(C_1C_3C_4R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_6 + C_1C_4C_6R_1R_4R_5R_6 + C_3C_4C_6R_1R_4R_5R_6 + C_3C_4C_6R_1R_4R_5R_5 + C_3C_4C_6R_1R_4C_6R_1R_5R_5 + C_3C_4C_6R_1R_4R_5R_5 + C_3C_4C_6R_1R_4R_5R_5 + C_3C_4C_6R_1R_4R_5R_5 + C_3C_4C_6R_1R_4R_5R_5 + C_3C_4C_6R_1R_4R_5R_5 + C_3C_4C_6R_1R_4R_5R_5 + C_3C_4C_6R_1R_5R_5 + C_3C_4C_6R_1R_5R_5 + C_3C_4C_6R_1R_5R_5 + C_3C_4C_6R_1R_5R_5 + C_3C_4C_6R_5R_5 + C_3C_4C_6R_5R_5 + C_3C_4C_6R_5R_5 + C_3C_5C_5C_5C_5C_5C_5C_5$

10.2419 X-INVALID-ORDER-2419 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^3\left(C_1C_3C_4R_1R_2R_4 - C_1C_4C_5R_1R_2R_4\right) + s^2\left(C_1C_3R_1R_2 + C_1C_4R_1R_2 + C_1C_4R_1R_4 - C_1C_5R_1R_2 + C_3C_4R_1R_4 + C_3C_4R_2R_4 - C_4C_5R_2R_4\right) + s\left(C_1R_1 + C_3R_1 + C_3R_2 + C_4R_2 + C_4R_4 - C_5R_2\right) + 1}$

10.2420 X-INVALID-ORDER-2420 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{C_6 + s^3\left(C_1C_3C_4C_6R_1R_2R_4 - C_1C_4C_5C_6R_1R_2R_4\right) + s^2\left(C_1C_3C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_4 - C_4C_5C_6R_2R_4\right) + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_4 - C_5C_6R_2\right)}$

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10.2421 X-INVALID-ORDER-2421 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
        H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{C_6 + s^3\left(C_1C_3C_4C_6R_1R_2R_4 - C_1C_4C_5C_6R_1R_2R_4\right) + s^2\left(C_1C_3C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_1C_4C_6R_1R_4 + C_3C_4C_6R_1R_4 + C_3C_4C_6R_2R_4\right) + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_4 - C_5C_6R_2\right)}
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10.2422 X-INVALID-ORDER-2422 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2$ $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^4\left(C_1C_3C_4C_6R_1R_2R_4R_6 - C_1C_4C_5R_1R_2R_4 + C_1C_4C_6R_1R_2R_6 + C_1C_4C_6R_1R_2R_6 + C_3C_4C_6R_1R_4R_6 - C_4C_5C_6R_2R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_4 + C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_4R_6 - C_1C_5C_6R_1R_2R_6 + C_3C_4C_6R_1R_4R_6 + C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_3R_1R_2R_4 + C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_4R_6 - C_1C_5C_6R_1R_4R_6 + C_3C_4C_6R_2R_4R_6 - C_4C_5C_6R_2R_4R_6\right) + s^2\left(C_1C_3R_1R_2R_4 + C_1C_4C_6R_1R_4R_6 + C_3C_4C_6R_1R_4R_6 + C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_3R_1R_2R_4 + C_1C_4C_6R_1R_4R_6 + C_3C_4C_6R_1R_4R_6 + C_3C_4C_6R_2R_4R_6\right) + s^2\left(C_1C_3R_1R_2R_4 + C_1C_4C_6R_1R_4R_6 + C_3C_4C_6R_1R_4R_6\right) + s^2\left(C_1C_3R_1R_2R_4 + C_1C_4C_6R_1R_4R_6 + C_3C_4C_6R_1R_4R_6\right) + s^2\left(C_1C_3R_1R_2R_4 + C_1C_4C_6R_1R_4R_6\right) + s^2\left(C_1C_3R_1R_4R_6\right) + s^2\left(C_1C_3R_4R_6\right) +$

10.2423 X-INVALID-ORDER-2423 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{C_1C_3C_4C_5R_1R_2R_4C_5r_1R_2R_4 + C_1C_3C_5R_1R_2R_5 + C_1C_4C_5R_1R_2R_5 + C_1C_4C_5R_1R_4R_5 + C_3C_4C_5R_1R_4R_5 + C_3C_4C_5R_1R_2 + C_1C_4R_1R_2 + C_1C_4R_1R_2 + C_1C_5R_1R_2 + C_1C_$

10.2424 X-INVALID-ORDER-2424 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s$ $H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{C_1C_3C_4C_5C_6R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_4 + C_1C_4C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_4R_5 + C_3C_4C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C$

10.2425 X-INVALID-ORDER-2425 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + S^2\left(C_3C_4C_5R_1R_4R_5 + S^2\left(C_3C_4C_$

10.2426 X-INVALID-ORDER-2426 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 s^5 + s^4 (C_1 C_3 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_4 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_6 + C_1 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_3 C_4 C$

10.2427 X-INVALID-ORDER-2427 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_6s + s^2\left(C_3C_4R_1R_2R_4R_6 + C_3C_5R_1R_2R_5R_6\right)}{-R_2 + R_5 + s^3\left(C_1C_3C_4R_1R_2R_4R_5 - C_1C_4C_5R_1R_2R_4R_5\right) + s^2\left(C_1C_3R_1R_2R_5 - C_1C_4R_1R_2R_4 + C_1C_4R_1R_2R_5 + C_1C_4R_1R_4R_5 - C_1C_5R_1R_2R_5 + C_3C_4R_1R_4R_5 - C_4C_5R_2R_4R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_1R_5 + C_3R_2R_5 - C_4R_2R_4 + C_3C_5R_1R_2R_5\right)}$

10.2428 X-INVALID-ORDER-2428 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5\right)}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_3C_4C_6R_1R_2R_4R_5 - C_1C_4C_5R_1R_2R_4 + C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_5 + C_1C_4C_6R_1R_2$

10.2429 X-INVALID-ORDER-2429 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_2 + s^2\left(C_3C_4C_5R_1R_2R_4R_5 + C_3C_4C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_2R_5R_6\right) + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_3C_4C_6R_1R_2R_4R_5 - C_1C_4C_5R_1R_2R_4 + C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_$

10.2430 X-INVALID-ORDER-2430 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $-R_2 + R_5 + s^4 \left(C_1 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 - C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 - C_1 C_4 C_6 R_1 R_2 R_4 R_6 + C_1 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_4 C_6 R_1 R_4 R_5 R_6 - C_1 C_5 C_6 R_1 R_2 R_5 R_6 + C_3 C_4 C_6 R_1 R_2 R_5 R_6 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_5 R_1 R_2 R_4 R_5 - C_1 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_5 R_6 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_5 R_6 + C_1 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_5 R_6 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1$

10.2433 X-INVALID-ORDER-2433 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_1C_3C_5R_1R_2R_4R_5 + C_1C_4C_5R_1R_2R_4 + C_1C_4R_1R_2R_4 - C_1C_5R_1R_2R_4 + C_1C_5R_1R_2R_5 + C_1C_5R_1R_4R_5 + C_3C_5R_2R_4R_5 + C_4C_5R_2R_4R_5 \right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_5R_3R_4R_5 + C_4C_5R_2R_4R_5 + C_4C_5R_2R_4R_5 + C_4C_5R_2R_4R_5 \right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_4R_2R_4 - C_5R_3R_4R_5 + C_4C_5R_2R_4R_5 \right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_2R_4 + C_4R_2R_4 - C_4R_3R_4R_5 + C_4C_5R_2R_4R_5 + C_4C_5R_4R_4R_5 + C_4C_5R_4R_5 + C_4C_5R_5R_5R_5 + C_4C_5R_5R_5R_5 + C_4C_5R_5R_5R_5 + C_4C_5R_5R_5R_5 + C_4C_5R_5R_5R_5 + C_4C_5R_5R_5R_5 + C_4$

10.2434 X-INVALID-ORDER-2434 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

10.2435 X-INVALID-ORDER-2435 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_3C_5C_6R_1R_2R_4R_5 + C_1C_4C_5C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4R_5 + C_4C_5C_6R_2R_4R_5 \right) + s\left(C_1C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4R_5 + C_4C_5C_6R_2R_4R_5 \right) + s\left(C_1C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_2R_4R_5 + C_4C_5C_6R_1R_4R_5 + C_4C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_5C_5C_$

10.2436 X-INVALID-ORDER-2436 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_2 + R_4 + s^4 \left(C_1 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_6 + C_1 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_5 C_6 R_1 R_4 R$

10.2437 X-INVALID-ORDER-2437 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_1C_3C_6R_1R_2R_4R_5R_6 + C_1C_4C_6R_1R_2R_4R_5R_6\right) + s^2\left(C_1C_3R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5 - C_1C_6R_1R_2R_4R_6 + C_1C_6R_1R_2R_4R_5R_6 + C_1C_6R_1R_2R_4R_5R_6 + C_3C_6R_1R_4R_5R_6 + C_3C_6R_1R_5R_5R_6 + C_3C_6R_1R_5R_5R_6 + C_3C_6R_5R_5R_5R_6 + C_3C_6R_5R_5R_5R_6 + C_3C_6R_5R_5R_5R_5R_5$

10.2438 X-INVALID-ORDER-2438 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(-C_1C_3C_6R_1R_2R_3R_4R_6 + C_1C_3C_6R_1R_2R_3R_5R_6 + C_1C_3C_6R_1R_2R_4R_5R_6 + C_1C_3C_6R_1R_3R_4R_5R_6\right) + s^2\left(-C_1C_3R_1R_2R_3R_5 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_1R_2R_3R_4R_5 + C_1C_3R_1R_2R_3R_4R_5 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_3R_3R_5 + C_1C_3R_3R_5 + C_1C_3R_3R_3R_$

10.2439 X-INVALID-ORDER-2439 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{-C_1C_3C_5R_1R_2R_3R_4s^3 + R_2 + R_4 + s^2\left(C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_4 + C_1C_3R_1R_3R_4 - C_1C_5R_1R_2R_4 - C_3C_5R_2R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_3R_3R_4 - C_5R_2R_4\right)}$

10.2440 X-INVALID-ORDER-2440 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{-C_1C_3C_5C_6R_1R_2R_3R_4s^3 + C_6R_2 + C_6R_4 + s^2\left(C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 - C_3C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_4 + C_3C_6R_2R_3 + C_3C_6R_2R_4 + C_3C_6R_2R_4 + C_3C_6R_2R_4\right)}$

10.2445 X-INVALID-ORDER-2445 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(-C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C$

10.2446 X-INVALID-ORDER-2446 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_2 + R_4 + s^4 \left(-C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_3 C_5 R_1 R_2 R_3 R_5 + C_1 C_3 C_5 R_1 R_2 R_4 R_5 +$

10.2447 X-INVALID-ORDER-2447 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-C_1C_3C_5R_1R_2R_3R_4R_5s^3 - R_2R_4 + R_2R_5 + R_4R_5 + s^2\left(-C_1C_3R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_1R_2R_4R_5 - C_1C_5R_1R_2R_4R_5\right) + s\left(-C_1R_1R_2R_4 + C_1R_1R_2R_5 + C_1R_1R_4R_5 + C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_4\right)}$

10.2448 X-INVALID-ORDER-2448 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{-C_1C_3C_5C_6R_1R_2R_3R_4R_5s^3 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(-C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_5C_6R_1R_2R_4R_5 - C_3C_5C_6R_2R_3R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_4R_4 + C_1C_6R_1R_4R_4$

10.2449 X-INVALID-ORDER-2449 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_1C_3C_5C_6R_1R_2R_3R_4R_5s^3 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(-C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_5C_6R_1R_2R_4R_5 - C_3C_5C_6R_2R_3R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4R_5 + C_1C_$

10.2450 X-INVALID-ORDER-2450 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2451 X-INVALID-ORDER-2451 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3R_1R_2R_6s}{C_1C_3C_4R_1R_2R_3R_5s^3 - R_2 + R_5 + s^2\left(-C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_5 + C_1C_3R_1R_3R_5 + C_1C_4R_1R_2R_5 + C_3C_4R_2R_3R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_4R_2R_5\right)}{c_1C_3C_4R_1R_2R_3R_5s^3 - R_2 + R_5 + s^2\left(-C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_5 + C_1C_3R_1R_3R_5 + C_1C_4R_1R_2R_5 + C_3C_4R_2R_3R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_4R_2R_5\right)}$

10.2452 X-INVALID-ORDER-2452 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1 R_2}{C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_5 s^3 - C_6 R_2 + C_6 R_5 + s^2 \left(-C_1 C_3 C_6 R_1 R_2 R_3 + C_1 C_3 C_6 R_1 R_2 R_5 + C_1 C_3 C_6 R_1 R_2 R_5 + C_1 C_4 C_6 R_1 R_2 R_5 + C_3 C_4 C_6 R_2 R_3 R_5\right) + s \left(-C_1 C_6 R_1 R_2 + C_1 C_6 R_1 R_5 + C_3 C_6 R_2 R_3 + C_3 C_6 R_2 R_5 + C_3 C_6 R_5 + C_3 C_6 R_5 + C_5 C_6 R_5 +$

10.2453 X-INVALID-ORDER-2453 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_2R_6s + C_3R_1R_2}{C_1C_3C_4C_6R_1R_2R_3R_5s^3 - C_6R_2 + C_6R_5 + s^2\left(-C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_5 + C_3C_4C_6R_2R_3R_5\right) + s\left(-C_1C_6R_1R_2 + C_1C_6R_1R_5 + C_3C_6R_2R_3 + C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_2R_3 + C_3C_6R_3R_3 + C$

10.2454 X-INVALID-ORDER-2454 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_6 s}{C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_5 R_6 s^4 - R_2 + R_5 + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_3 R_6 + C_1 C_3 C_6 R_1 R_2 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_$

10.2455 X-INVALID-ORDER-2455 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_1C_3C_4R_1R_2R_3 - C_1C_3C_5R_1R_2R_3\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3R_1R_3 + C_1C_4R_1R_2 - C_1C_5R_1R_2 + C_3C_4R_2R_3 - C_3C_5R_2R_3\right) + s\left(C_1R_1 + C_3R_1 + C_3R_2 + C_3R_3 + C_4R_2 - C_5R_2\right) + 1}$

10.2456 X-INVALID-ORDER-2456 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2s}{C_6 + s^3\left(C_1C_3C_4C_6R_1R_2R_3 - C_1C_3C_5C_6R_1R_2R_3\right) + s^2\left(C_1C_3C_6R_1R_2 + C_1C_3C_6R_1R_3 + C_1C_4C_6R_1R_2 - C_1C_5C_6R_1R_2 + C_3C_4C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_1 + C_3C_6R_2 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2\right)}$

10.2457 X-INVALID-ORDER-2457 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_6 + s^3\left(C_1C_3C_4C_6R_1R_2R_3 - C_1C_3C_5C_6R_1R_2R_3\right) + s^2\left(C_1C_3C_6R_1R_2 + C_1C_3C_6R_1R_3 + C_1C_4C_6R_1R_2 - C_1C_5C_6R_1R_2 + C_3C_4C_6R_2R_3 - C_3C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_3C_6R_1 + C_3C_6R_1 + C_3C_6R_3 + C_4C_6R_2 - C_5C_6R_2\right)}$

10.2458 X-INVALID-ORDER-2458 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^4\left(C_1C_3C_4C_6R_1R_2R_3R_6 - C_1C_3C_5C_6R_1R_2R_3R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_3 - C_1C_3C_5R_1R_2R_3 + C_1C_3C_6R_1R_3R_6 + C_1C_4C_6R_1R_2R_6 - C_1C_5C_6R_1R_2R_6 - C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_6R_2R_3R_6 - C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6 + C_3C_4C_6R_2R_3R_6 - C_3C_5C_6R_2R_3R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3C_6R_1R_2R_6\right) + s^2\left(C_1C_3C_4R_1R_2R_6\right) + s^2\left(C_1C_3C_4R_1$

10.2459 X-INVALID-ORDER-2459 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{C_1C_3C_4C_5R_1R_2R_3R_5s^4 + s^3\left(C_1C_3C_4R_1R_2R_3 - C_1C_3C_5R_1R_2R_3 + C_1C_3C_5R_1R_2R_5 + C_1C_4C_5R_1R_2R_5 + C_3C_4C_5R_2R_3R_5\right) + s^2\left(C_1C_3R_1R_2 + C_1C_3R_1R_3 + C_1C_4R_1R_2 - C_1C_5R_1R_2 + C_1C_5R_1R_5 + C_3C_4R_2R_3 + C_3C_5R_1R_3R_5 + C_3C_4R_2R_3 + C_3C_5R_1R_3R_5 + C_3C_4R_2R_3 + C_3C_5R_1R_3R_5 + C_3C_4R_2R_3 + C_3C_5R_1R_3R_5 + C_3C_4R_3R_3 + C_3C_4R_3R_$

10.2460 X-INVALID-ORDER-2460 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2s}{C_1C_3C_4C_5C_6R_1R_2R_3R_5s^4 + C_6 + s^3\left(C_1C_3C_4C_6R_1R_2R_3 - C_1C_3C_5C_6R_1R_2R_3 + C_1C_3C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2 + C_1C_3C_6R_1R_2 + C_1C_5C_6R_1R_2 + C_1C_5C_6R_$

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10.2461 X-INVALID-ORDER-2461 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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 $C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s}{C_1C_3C_4C_5C_6R_1R_2R_3 + C_1C_3C_5C_6R_1R_2R_3 + C_1C_3C_5C_6R_1R_2R_5 + C_1C_3C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2R_5 + C_1C_4C_5C_6R_1R_2 + C_1C_3C_6R_1R_2 + C_1C_3C_6R_1R_2$

10.2462 X-INVALID-ORDER-2462 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2463 X-INVALID-ORDER-2463 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_1C_3C_4R_1R_2R_3R_5 - C_1C_3C_5R_1R_2R_3R_5\right) + s^2\left(-C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_5 + C_1C_3R_1R_2R_5 + C_1C_5R_1R_2R_5 + C_3C_4R_2R_3R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_1R_5 - C_3R_2R_3 + C_3R_2R_5 + C_3R_3R_5 + C_3R_3R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_1R_5 + C_3R_3R_5 + C_3R_3R_5 + C_3R_3R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_1R_5 + C_3R_3R_5 + C_3R_3R_5 + C_3R_3R_5\right) + s\left(-C_1R_1R_2 + C_1R_1R_5 + C_3R_3R_5 + C_3R_3R_5 + C_3R_3R_5\right) + s\left(-C_1R_1R_2 + C_1R_3R_3R_5 + C_3R_3R_5 + C_3R_3R_5\right) + s\left(-C_1R_3R_3R_5 + C_3R_3R_5 + C_3R_3R_5\right) + s\left(-C_1R_3R_3R_5 + C_3R_3R_5 + C_3R_3R_5\right) + s\left(-C_1R_3R_3R_5 + C_3R_3R_5\right) + s\left(-C_1R_3R_3R_5\right) + s\left(-C_$

10.2464 X-INVALID-ORDER-2464 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_5s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_3C_5C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_5 + C_1C_3C$

10.2465 X-INVALID-ORDER-2465 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_5R_6s^2 + C_3R_1R_2 + s\left(C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_3C_5C_6R_1R_2R_3R_5\right) + s^2\left(-C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_5 + C_1C$

10.2466 X-INVALID-ORDER-2466 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

10.2467 X-INVALID-ORDER-2467 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(-C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_4R_1R_2R_3R_5 + C_1C_3C_4R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_5 + C_1C_4R_1R_2R_4 + C_1C_4R_1R_2R_5 +$

10.2468 X-INVALID-ORDER-2468 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $C_3C_4R_1R_2R_4s + C_3R_1R_2$ $\frac{C_3C_4R_1R_2R_4s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^3\left(-C_1C_3C_4C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_3R_4R_5\right) + s^2\left(-C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_4 + C_1C_4C_$

10.2469 X-INVALID-ORDER-2469 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)$

 $C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_4 + C_3C_6R_1R_4 + C_3C_6R_4 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_5R_5 +$

 $H(s) = \frac{C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_4 + C_3C_4R_1R_2R_4 + C_3C_4R_1R_2R$

10.2470 X-INVALID-ORDER-2470 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $-R_2 + R_5 + s^4 \left(-C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1$

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10.2471 X-INVALID-ORDER-2471 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
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 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{-C_1C_3C_4C_5R_1R_2R_3R_4s^4 + s^3\left(C_1C_3C_4R_1R_2R_3 + C_1C_3C_4R_1R_2R_4 + C_1C_3C_5R_1R_2R_3 - C_1C_4C_5R_1R_2R_4 - C_3C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_3R_1R_2 + C_1C_4R_1R_2 + C_1C_4R_1R_4 - C_1C_5R_1R_2 + C_3C_4R_1R_4 + C_3C_4R_2R_4 + C_3C_4R_4R_4 + C_3C_4R_4R$

10.2472 X-INVALID-ORDER-2472 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s}{-C_1C_3C_4C_5C_6R_1R_2R_3R_4s^4 + C_6 + s^3\left(C_1C_3C_4C_6R_1R_2R_3 + C_1C_3C_4C_6R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_3 - C_1C_4C_5C_6R_1R_2R_4 - C_3C_4C_5C_6R_1R_2 + C_1C_3C_6R_1R_2 + C_1C_3C_6R_1R_2$

10.2473 X-INVALID-ORDER-2473 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{-C_1C_3C_4C_5C_6R_1R_2R_3R_4s^4 + C_6 + s^3\left(C_1C_3C_4C_6R_1R_2R_3 + C_1C_3C_4C_6R_1R_2R_4 + C_1C_3C_5C_6R_1R_2R_3 - C_1C_4C_5C_6R_1R_2R_4 + C_3C_4C_5R_1R_2 + C_1C_3C_6R_1R_2 +$

10.2474 X-INVALID-ORDER-2474 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-C_1C_3C_4C_5C_6R_1R_2R_3R_4R_6s^5 + s^4\left(-C_1C_3C_4C_5R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_3R_6 + C_1C_3C_4C_6R_1R_3R_4R_6 - C_1C_3C_5C_6R_1R_2R_3R_6 - C_1C_4C_5C_6R_1R_2R_4R_6 - C_3C_4C_5C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 - C_1C_4C_5C_6R_1R_2R_4R_6 - C_3C_4C_5C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 - C_1C_3C_5C_6R_1R_2R_4R_6 - C_3C_4C_5C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 - C_1C_3C_5C_6R_1R_2R_4R_6 - C_3C_4C_5C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 - C_3C_4C_5C_6R_1R_2R_4R_6 + C_3C_4C_5C_6R_1R_2R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6\right) + s^3\left(C_1C_3C_4R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6\right) + s^3\left(C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_4R_4R_6\right) + s^3\left(C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_4R_4R_6\right) + s^3\left(C_1C_3C_4C_6R_1R_2R_4R_6 + C_1C_3C_4C_6R_1R_4R_4R_6\right) + s^3\left(C_1C_3C_4C_6R_1R_4R_4R_6 + C_1C_3C_4C_6R_1R_4R_4R_6\right) + s^3\left(C_1C_3C_4C_6R_1R_4R_4R_6\right) + s^3\left(C_1C_3C_4C_6R_4R_4R_4\right) + s^3\left(C_1C_3C_4C_6R_4R_4R_4\right) + s^3\left(C_1C_3C_4C_6R_4R_4R_4\right) + s^3\left(C$

10.2475 X-INVALID-ORDER-2475 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{1}{s^4 \left(-C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_2 R_4 + C_1 C_3 C_4 R_1 R_2 R$

10.2476 X-INVALID-ORDER-2476 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_6 + s^4 \left(-C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 + C_1 C_3$

10.2477 X-INVALID-ORDER-2477 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_6 + s^4 \left(-C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 + C_1 C_3 C_4$

10.2478 X-INVALID-ORDER-2478 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{s^5 \left(-C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 R_1 R_2 R_4 R_5$

10.2479 X-INVALID-ORDER-2479 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s}{-C_1C_3C_4C_5R_1R_2R_3R_4R_5s^4 - R_2 + R_5 + s^3\left(-C_1C_3C_4R_1R_2R_3R_4 + C_1C_3C_4R_1R_2R_3R_5 + C_1C_3C_4R_1R_2R_3R_5 - C_1C_4C_5R_1R_2R_4R_5 - C_3C_4C_5R_2R_3R_4R_5\right) + s^2\left(-C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3R_5 - C_1C_4C_5R_1R_2R_4R_5 - C_3C_4C_5R_2R_3R_4R_5\right) + s^2\left(-C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3R_5 + C_1C_3C_4R_1R_2R_4R_5 - C_1C_3C_4R_1R_2R_4R_$

10.2480 X-INVALID-ORDER-2480 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $-C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5s^4 - C_6R_2 + C_6R_5 + s^3\left(-C_1C_3C_4C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 - C_1C_3C_5C_6R_1R_2R_3R_5 - C_1C_4C_5C_6R_1R_2R_4R_5 - C_3C_4C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_3C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_4C_5C_6R_1R_2R_4R_5 - C_3C_4C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_4C_5C_6R_1R_2R_4R_5 - C_3C_4C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_4C_5C_6R_1R_2R_3R_5 - C_3C_4C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_4C_5C_6R_1R_2R_3R_5 - C_3C_4C_5C_6R_2R_3R_4R_5\right) + s^2\left(-C_1C_3C_4C_6R_1R_2R_3R_5 - C_1C_3C_4C_6R_1R_2R_3R_5 - C_$

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10.2481 X-INVALID-ORDER-2481 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_5s^4 - C_6R_2 + C_6R_5 + s^3\left(-C_1C_3C_4C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_3R_4 - C_1C_3C_5C_6R_1R_2R_4R_5 - C_1C_4C_5C_6R_1R_2R_4R_5 - C_1C_4C_5C_6R_1R_2R_4R_5 - C_1C_4C_5C_6R_1R_2R_4R_5 - C_1C_4C_5C_6R_1R_2R_4R_5 + s^2\left(-C_1C_3C_4C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_5 - C_1C_4C_5C_6R_1R_2R_4R_5 - C_1C_4C_5C_6R_1R_4R_4R_5 - C_1C_4C_5C_6R_4R_4R_5 - C_1C_4C_5C_6R_4R_4R_5 - C_1C_4C_5C_6R_4R_4R_5 - C_1C_4C_5C_6R_4R_4R_5 - C_1C_4C_5C_6R_4R_4R_5 - C_1C_4C_5C_6R_4R_4R_5 - C_1C_4C_5C_6R_4R_5 - C_1C_4C_5C_6R_5 - C_1C_4C_5C_6R_5 - C_1C_4C_5C_6R_5 - C_1C_4C_5C_6R_5 - C_1C_5C_5C_6R$

10.2482 X-INVALID-ORDER-2482 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2483 X-INVALID-ORDER-2483 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{C_1 C_3 C_4 R_1 R_2 R_3 R_4 R_5 s^3 - R_2 R_4 + R_2 R_5 + R_4 R_5 + s^2 \left(-C_1 C_3 R_1 R_2 R_3 R_4 + C_1 C_3 R_1 R_2 R_4 R_5 + C_1 C_3 R_1 R_2 R_4 R_5 + C_1 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 R_1 R_2 R_4 + C_1 R_1 R_2 R_5 + C_1 R_1 R_4 R_5 + C_3 R_1 R_4 R_5 - C_3 R_2 R_3 R_4 + C_3 R_2 R_3 R_5 + C_4 R_4 R_5 + C_4 R_5 R_5 +$

10.2484 X-INVALID-ORDER-2484 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_4}{C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 s^3 - C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s^2 \left(-C_1 C_3 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 + C_1 C_6 R_1 R_4 R$

10.2485 X-INVALID-ORDER-2485 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{C_1C_3C_4C_6R_1R_2R_3R_4F_5s^3 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(-C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_5 + C_3C_4C_6R_1R_2R_4R_5 + C_3C_4C_6R_1R_4R_5 + C_3C_4C$ $C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4$

10.2486 X-INVALID-ORDER-2486 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $\frac{1}{C_{1}C_{3}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}s^{4}-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}+s^{3}\left(C_{1}C_{3}C_{4}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}R$

10.2487 X-INVALID-ORDER-2487 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_1C_3C_4R_1R_2R_3R_4 - C_1C_3C_5R_1R_2R_3R_4\right) + s^2\left(C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_4 + C_1C_3R_1R_3R_4 + C_1C_4R_1R_2R_4 - C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_3R_1R_4 + C_3R_2R_3 + C_3R_2R_4 + C_3R_3R_4 + C_4R_2R_4\right)}$

10.2488 X-INVALID-ORDER-2488 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4 - C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_4 + C_3C_6R_1R_2R_4 + C_$

10.2489 X-INVALID-ORDER-2489 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4 - C_1C_3C_5C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_3C_6C_6R_1R_2R_4 + C_3C_$ $C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s$

10.2490 X-INVALID-ORDER-2490 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{R_2 + R_4 + s^4 \left(C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_6 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_3 R_4 - C_1 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_3 C_6 R_1 R$

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10.2491 X-INVALID-ORDER-2491 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)
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 $H(s) = \frac{1}{C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_4 R_5 s^4 + R_2 + R_4 + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_3 R_4 - C_1 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_3 C_5 R_1 R_2 R_4 R_5 + C_1 C_3 C_5 R_1 R_2 R_5 + C_1 C_3 C_5 R_1 R_2 R_5 + C_1 C_5 R_1 R_2 R_5 + C_1 C_5 R_1 R_2 R_5 + C_1 C_5 R_5 R_5 R_5 + C_1 C_5 R_5 R_5 R_5 + C$

10.2492 X-INVALID-ORDER-2492
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{1}{C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_2 + C_6R_4 + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4 - C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_3R_4R_5 + C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_5 + C_1C_3C_5C_6R_1R_3R_5 + C_1C_3C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_5C_5C_5C_5C_5C_5C_5C_$

10.2493 X-INVALID-ORDER-2493
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{1}{C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 s^4 + C_6 R_2 + C_6 R_4 + s^3 \left(C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 - C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_5 C_6 R_1 R$

10.2494 X-INVALID-ORDER-2494
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

10.2495 X-INVALID-ORDER-2495
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_1C_3C_4R_1R_2R_3R_4R_5 - C_1C_3C_5R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_1R_2R_4R_5 + C_1C_4R_1R_2R_4R_5 + C_1C_5R_1R_2R_4R_5 + C_3C_4R_2R_3R_4R_5 - C_3C_5R_2R_3R_4R_5 \right) + s\left(-C_1R_1R_2R_4 + C_1C_3R_1R_2R_4R_5 + C_1C_3R_1R_2R_4$

10.2496 X-INVALID-ORDER-2496
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$$

 $) = \frac{C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4}{-C_6R_2R_5 + C_6R_4R_5 + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4R_5 - C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5$

10.2497 X-INVALID-ORDER-2497
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_5 + C_3C_6R_1R_2R$

10.2498 X-INVALID-ORDER-2498
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{-R_2R_4 + R_2R_5 + R_4R_5 + s^4\left(C_1C_3C_4C_6R_1R_2R_3R_4R_5R_6 - C_1C_3C_5C_6R_1R_2R_3R_4R_5 - C_1C_3C_5R_1R_2R_3R_4R_5 - C_1C_3C_6R_1R_2R_3R_4R_5 - C_1C_3C_6R_1R_2R_3R_4R$

10.2499 X-INVALID-ORDER-2499
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3 R_1 R_2 R_3 R_4 s + R_1 R_2 R_4}{C_1 C_3 C_6 R_1 R_2 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_4 R_5 + C_1 C_6 R_1 R_3 R_4 R_5 + C_3 C_6 R_1 R_3 R_4 R_5 + C_3 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)}$

10.2500 X-INVALID-ORDER-2500
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_6R_1R_2R_3R_4R_6s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_6R_1R_2R_4R_6\right)}{C_1C_3C_6R_1R_2R_3R_4R_5s^3 + s^2\left(-C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_4R_5 + C_3C_6R_1R_3R_4R_5 + C_3C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$

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10.2501 X-INVALID-ORDER-2501 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_3R_1R_2R_3R_4R_6s + R_1R_2R_4R_6
10.2502 X-INVALID-ORDER-2502 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^3\left(C_1C_3C_6R_1R_2R_3R_4R_6 - C_1C_5C_6R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_6 + C_1C_6R_1R_2R_3R_4R_6 + C_3C_6R_1R_3R_4R_6 + C_3C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_3C_6R_1R_3R_4R_6 + C_3C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_3C_6R_1R_3R_4R_6 + C_3C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_3C_6R_1R_3R_4R_6 + C_3C_6R_2R_3R_4R_6 - C_5C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_3C_6R_1R_3R_4R_6 + C_3C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_3R_4 + C_3C_6R_1R_3R_4R_6 + C_3C_6R_1R_3R_4R_6\right) + s\left(C_1R_1R_2R_3R_4 + C_3C_6R_1R_3R_4R_6 + C_3C_6R_2R_3R_4R_6\right) + s\left(C_1R_1R_2R_3R_4 + C_3C_6R_1R_3R_4R_6\right) + s\left(C_1R_1R_2R_3R_4R_6\right) + s\left
10.2503 X-INVALID-ORDER-2503 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s
H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{C_1C_3C_5R_1R_2R_3R_4R_5s^3 + R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_5R_1R_2R_3R_5 + C_1C_5R_1R_2R_4R_5 + C_1C_5R_1R_3R_4R_5 + C_3C_5R_1R_3R_4R_5 + C_3C_5R_3R_4R_5 + C_3C_5R_3R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5R_
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10.2504 X-INVALID-ORDER-2504 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4$ $H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_4}{C_1C_3C_5C_6R_1R_2R_3R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_3C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_5 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_1R_3R_4 + C_3C_5C_6R_1R_$

10.2505 X-INVALID-ORDER-2505 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_1C_3C_5C_6R_1R_2R_3R_4 + C_6R_2R_3 + C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_3R_4R_5 + C_1C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_1R_3R_4 + C_3C_5$ $C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)$

10.2506 X-INVALID-ORDER-2506 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_5 R_6 s^4 + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^3 \left(C_1 C_3 C_5 R_1 R_2 R_3 R_4 R_5 + C_1 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_5 C_6 R$

10.2507 X-INVALID-ORDER-2507 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5\right)}{s^3\left(C_1C_3C_6R_1R_2R_3R_4R_5 - C_1C_5C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_3R_4 + C$

10.2508 X-INVALID-ORDER-2508 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_3C_5C_6R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_4 + s^2\left(C_3C_5R_1R_2R_3R_4R_5 + C_3C_6R_1R_2R_3R_4R_6 + C_5C_6R_1R_2R_4R_5R_6\right) + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{s^3\left(C_1C_3C_6R_1R_2R_3R_4R_5 - C_1C_5C_6R_1R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_4R_5 + C_1C_6R_1R_3R_4R_5 + C_3C_6R_1R_3R_4R_5 + C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_3R_3R_4 + C_6R_3R_3R_4$

10.2509 X-INVALID-ORDER-2509 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + s^3\left(C_1C_3C_6R_1R_2R_3R_4R_5R_6 - C_1C_5C_6R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4R_5 - C_1C_6R_1R_2R_3R_4R_5 - C_1C_6R_1$

10.2510 X-INVALID-ORDER-2510 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3R_1R_2R_3s + R_1R_2}{s^3\left(C_1C_3C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$

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10.2511 X-INVALID-ORDER-2511 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                               H(s) = \frac{C_3C_6R_1R_2R_3R_6s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_6R_1R_2R_6\right)}{s^3\left(C_1C_3C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}
10.2512 X-INVALID-ORDER-2512 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_3R_1R_2R_3R_6s + R_1R_2R_6
                                           \frac{C_3R_1R_2R_3R_6s + R_1R_2R_6}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(C_1C_3C_6R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5 - C_1C_6R_1R_2R_3R_6 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_3R_5R_6 + C_3C_6R_1R_3R_5R_6 + C_3C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_5R_6\right) + s\left(-C_1R_1R_2R_3R_5 - C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_3R_5 + C_3C_6R_1R_3R_5R_6 + C_3C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_5R_6\right) + s\left(-C_1R_1R_2R_3R_5 - C_1C_6R_1R_2R_3R_5 + C_3C_6R_1R_3R_5R_6 + C_3C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_5R_6\right) + s\left(-C_1R_1R_2R_3R_5 - C_1C_6R_1R_2R_3R_5 + C_3C_6R_1R_3R_5R_6 + C_3C_6R_2R_3R_5R_6\right) + s\left(-C_1R_1R_2R_3R_5 - C_1C_6R_1R_2R_3R_5 + C_3C_6R_1R_3R_5R_6\right) + s\left(-C_1R_1R_2R_3R_5 - C_1C_6R_1R_2R_3R_5 - C_1C_6R_1R_2R_3R_5\right) + s\left(-C_1R_1R_2R_3R_5 - C_1C_6R_1R_2R_3R_5\right) + s\left(-C_1R_1R_2R_3R_5\right) + s\left(-C_1R_1
10.2513 X-INVALID-ORDER-2513 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^3\left(C_1C_3C_6R_1R_2R_3R_6 + C_1C_4C_6R_1R_2R_3R_6 - C_1C_5C_6R_1R_2R_3R_6\right) + s^2\left(C_1C_3R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_3R_6 + C_3C_6R_1R_3R_6 + C_3C_6R_2R_3R_6 + C_4C_6R_2R_3R_6 - C_5C_6R_2R_3R_6\right) + s\left(C_1R_1R_2 + C_1R_3R_3R_6 + C_3C_6R_1R_3R_6 + C_3C_6R_1R_3R_6 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_3R_6\right) + s\left(C_1R_1R_2 + C_1R_3R_3R_6 + C_3C_6R_1R_3R_6 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_3R_6\right) + s\left(C_1R_3R_3R_6 + C_3C_6R_1R_3R_6 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_3R_6\right) + s\left(C_1R_3R_3R_6 + C_3C_6R_1R_3R_6 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_3R_6\right) + s\left(C_1R_3R_3R_6 + C_3C_6R_2R_3R_6 + C_3C_6R_2R_3R_6\right) + s\left(C_1R_3R_3R_6 + C_3C_6R_3R_3R_6\right) + s\left(C_1R_3R_3R_6\right) + s\left(C_1R_3R_3R_6
10.2514 X-INVALID-ORDER-2514 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_6s}{R_1 + R_2 + R_3 + s^3\left(C_1C_3C_5R_1R_2R_3R_5 + C_1C_4C_5R_1R_2R_3 + C_1C_4R_1R_2R_3 - C_1C_5R_1R_2R_3 + C_1C_5R_1R_2R_5 + C_1C_5R_1R_3R_5 + C_3C_5R_2R_3R_5 + C_4C_5R_2R_3R_5 \right) + s\left(C_1R_1R_2 + C_1R_1R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_2R_3 + C_4R_2R_3 + C_4R_3R_3 + C_4R_3R_3 + C_4R_3R_3R_5 + C_4R_3R_
10.2515 X-INVALID-ORDER-2515 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5R_1R_2R_3s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_1C_3C_5C_6R_1R_2R_3R_5 + C_1C_4C_5C_6R_1R_2R_3 + C_1C_5C_6R_1R_2R_3 + C_1C_5C_6R_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_3C_5R_1R_2R_3s + C_5R_1R_2
10.2516 X-INVALID-ORDER-2516 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5C_6R_1R_2R_3R_6s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_5C_6R_1R_2R_3 + C_5C_6R_1R_2R
10.2517 X-INVALID-ORDER-2517 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{1}{R_1 + R_2 + R_3 + s^4 \left( C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_3 C_6 R_1 R_2 R_3 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1
10.2518 X-INVALID-ORDER-2518 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
                                     H(s) = \frac{C_3C_5R_1R_2R_3R_5s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_5R_1R_2R_5\right)}{s^3\left(C_1C_3C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5 - C_1C_5C_6R_1R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_3R_3 + C_6R_3
10.2519 X-INVALID-ORDER-2519 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                                     H(s) = \frac{C_3C_5C_6R_1R_2R_3R_5R_6s^3 + R_1R_2 + s^2\left(C_3C_5R_1R_2R_3R_5 + C_3C_6R_1R_2R_3R_6 + C_5C_6R_1R_2R_3 + C_5R_1R_2R_3 + C_5R_1R_2R_5 + C_6R_1R_2R_6\right)}{s^3\left(C_1C_3C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_5C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_3C_6R_1R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_2R_3R_5 + C_4C_6R_2R_3R_5 + C_4C_6R_3R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_
10.2520 X-INVALID-ORDER-2520 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
```

 $\frac{C_3C_5R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_2R_3R_5R_6 + C_1C_5C_6R_1R_2R_3R_5R_6 + C_1C_5C_6R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5 + C_1C_5R_1R_2R_3R_5 + C_1C_6R_1R_2R_3R_5 + C_$

 $C_3C_5R_1R_2R_3R_5R_6s^2 + R_1R_2R_6 + s(C_3R_1R_2R_3R_6 + C_5R_1R_2R_3R_6 + C_5R_1R_2R_3R_5 + C_5R_1R_2R_5 + C_5R_1R_5 + C_5R_5 +$

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10.2521 X-INVALID-ORDER-2521 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
```

 $C_3C_4R_1R_2R_3R_4R_6s^2 + R_1R_2R_6 + s(C_3R_1R_2R_3R_6 + C_4R_1R_2R_4R_6)$ $H(s) = \frac{C_3C_4R_1R_2R_3R_4R_6s^2 + R_1R_2R_6 + s\left(C_3R_1R_2R_3R_6 + C_4R_1R_2R_4R_6\right)}{C_1C_3C_4R_1R_2R_3R_4R_5s^3 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5 + C_1C_4R_1R_3R_4R_5 + C_3C_4R_1R_3R_4R_5 + C_3C_4R_1R_3R_4 + C_3C_4R_1R_3R_4R_5 + C_3C_4R_1R_3R_5 + C_3C_4R_1R_3R_5 + C_3C_4R_1R_3R_5 + C_3C_4R_1R_3R_5 + C_3C_4R_1R_3R_5 + C_3C_4R_1R_3R$

10.2522 X-INVALID-ORDER-2522 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4R_1R_2R_3R_4s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_4R_1R_2R_4\right)}{C_1C_3C_4C_6R_1R_2R_3R_4F_5s^4 + s^3\left(C_1C_3C_6R_1R_2R_3R_5 - C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R_2R_3R_4F_5\right) + s^2\left(-C_1C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_3R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C_1C_$

10.2523 X-INVALID-ORDER-2523 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_6R_1R_2R_3R_4R_6s^3 + R_1R_2 + s^2\left(C_3C_4R_1R_2R_3R_4 + C_3C_6R_1R_2R_3R_6 + C_4C_6R_1R_2R_4R_6\right) + s\left(C_3R_1R_2R_3 + C_4R_1R_2R_4R_6\right) + s\left(C_3R_1R_2R_3R_4 + C_3C_6R_1R_2R_3R_4 + C_3C_6R_1R_2R_3R_4$

10.2524 X-INVALID-ORDER-2524 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_3C_4C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3(C_1C_3C_4R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_6 + C_1C_4C_6R_1R_2R_3R_4R_6 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_3R_4R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_5 + C_1C_4C_6R_1R_5 + C_1C_4C_6R_1R_5 + C_1C_4C_6R_1$

10.2525 X-INVALID-ORDER-2525 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_2R_6s + s^2\left(C_3C_5R_1R_2R_3R_6 + C_4C_5R_1R_2R_4R_6\right)}{R_1 + R_2 + R_3 + s^3\left(C_1C_3C_4R_1R_2R_3R_4 - C_1C_4C_5R_1R_2R_3R_4 + C_1C_4R_1R_2R_3 + C_1C_4R_1R_2R_4 + C_1C_4R_1R_3R_4 - C_1C_5R_1R_2R_3 + C_3C_4R_1R_3R_4 + C_3C_4R_2R_3R_4 - C_4C_5R_2R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + C_3R_1R_3 + C_3R_2R_3 + C_4R_1R_4R_4\right)}$

10.2526 X-INVALID-ORDER-2526 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $C_3C_4C_5R_1R_2R_3R_4s^2 + C_5R_1R_2 + s(C_3C_5R_1R_2R_3 + C_4C_5R_1R_2R_4)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_4C_5R_1R_2R_3 + C_4C_5R_1R_2R_4\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4 - C_1C_4C_5C_6R_1R_2R_3 + C_1C_4C_6R_1R_2R_3 + C_1C_4C$

10.2527 X-INVALID-ORDER-2527 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_2 + s^2\left(C_3C_4C_5R_1R_2R_3R_4 + C_3C_5C_6R_1R_2R_3R_6 + C_4C_5C_6R_1R_2R_4R_6\right) + s\left(C_3C_5R_1R_2R_3 + C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_4 +$

10.2528 X-INVALID-ORDER-2528 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $\frac{1}{R_1 + R_2 + R_3 + s^4 \left(C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_6 \right) + s^3 \left(C_1 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_4 C_6 R_1 R_2 R_3 R_6 + C_1 C_4 C_6 R_1 R_2 R_3 R_6 + C_1 C_4 C_6 R_1 R_2 R_3 R_4 + C_1 C_4 C_6 R_1 R_2 R_3 R_6 + C_1 C_4$

10.2529 X-INVALID-ORDER-2529 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

10.2530 X-INVALID-ORDER-2530 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

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10.2531 X-INVALID-ORDER-2531 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{1}{C_1C_3C_4C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_1C_3C_4C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_4C_5C_6R_1R_2R_3R_5 + C_1C_4C_5C_6R_1R_2R_3R_4 + C_1C_4C_5C_6R_1R_3R_4R_5 + C_1C_4C_5C_6R_1R_3R_$

10.2532 X-INVALID-ORDER-2532
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{1}{C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 R_6 s^5 + R_1 + R_2 + R_3 + s^4 \left(C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2$

10.2533 X-INVALID-ORDER-2533 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_6 + s^2\left(C_3C_4R_1R_2R_3R_4R_6 + C_3C_5R_1R_2R_3R_5R_6 + C_4C_5R_1R_2R_4R_5R_6\right) + s\left(C_3R_1R_2R_3R_6 + C_4C_5R_1R_2R_3R_4R_5 + C_4C_5R_1R_2R_3R_4R_5 + C_4C_5R_1R_2R_3R_4R_5 + C_4C_5R_1R_2R_3R_4R_5 + C_4C_5R_1R_2R_3R_4R_5 + C_4C_5R_1R_2R_3R_4 + C_4C_5$

10.2534 X-INVALID-ORDER-2534 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_3C_4C_5R_1R_2R_3R_4R_5s^3 + R_1R_2 + s^2(C_3C_4R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_4 + C_3C_5R_1R_2R_3R_5 + C_4C_5R_1R_2R_3R_5 + C_4C_5R_1R_5R_5 + C_4C_5R_5R_5 + C_5R_5R_5R_5 + C_5R_5R_5R_5 + C_5R_5R_5 + C_5R_5 + C_5R_5R_5 + C_5R_5 +$ $\frac{C_{3}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}s^{\circ} + R_{1}R_{2} + s^{\circ}\left(C_{3}C_{4}R_{1}R_{2}R_{3}R_{4} + C_{3}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{3}C_{5}R_{1}R_{2}R_{3}R_{5} + C_{3}C_{5}R_{1}R_{2}R_{3}R_$

10.2535 X-INVALID-ORDER-2535 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_2R_3R_4R_6 + C_3C_5C_6R_1R_2R_3R_5R_6 + C_4C_5C_6R_1R_2R_3R_4 + C_3C_5C_6R_1R_2R_3R_4 + C_3C_5C_6R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R$

10.2536 X-INVALID-ORDER-2536 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^4\left(C_1C_3C_4C_6R_1R_2R_3R_4R_5R_6 - C_1C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_5 - C_1C_4C_5R_1R_2R_3R_4R_5 - C_1C_4C_6R_1R_2R_3R_4R_6 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5 - C_1C_4C_6R_1R_2R_3R_4R_5 - C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5 - C_1C_4C_6R_$

10.2537 X-INVALID-ORDER-2537 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3R_1R_2R_3R_4s + R_1R_2R_4}{s^3\left(C_1C_3C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5 + C_6R_2R_3R_4 + C_6R_3R_3R_4 + C_6R_$

10.2538 X-INVALID-ORDER-2538 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_2R_2s+1}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_6s}\right)$

 $\frac{C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}s^{2}+R_{1}R_{2}R_{4}+s\left(C_{3}R_{1}R_{2}R_{3}R_{4}+C_{6}R_{1}R_{2}R_{4}R_{6}\right)}{s^{3}\left(C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}+C_{1}C_{6}R_$

10.2539 X-INVALID-ORDER-2539 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{c_3r_1r_2r_3r_4}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s^3\left(C_1C_3C_6R_1R_2R_3R_4R_5R_6 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_4R_5 - C_1C_6R_1R_2R_3R_4R_6 + C_1C_6R_1R_2R_3R_4R_5 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_2R_5 + C_1$

10.2540 X-INVALID-ORDER-2540 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s$ $\frac{-3C_{3}R_{1}R_{2}R_{3}R_{4}}{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}+S^{3}\left(C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{4}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{1}$

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10.2541 X-INVALID-ORDER-2541 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)
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 $C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4R_6s}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^3\left(C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_4 + C_1C_5R_1R_2R_3R_4 + C_1C_5R_1R_3R_4 + C_$

10.2542 X-INVALID-ORDER-2542 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_3R_4s + C_5R_1R_2R_3$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4s + C_5R_1R_2}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^3\left(C_1C_3C_5C_6R_1R_2R_3R_4R_5 + C_1C_4C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_$

10.2543 X-INVALID-ORDER-2543 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2\right)}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^3\left(C_1C_3C_5C_6R_1R_2R_3R_4R_5 + C_1C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R$

10.2544 X-INVALID-ORDER-2544 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^4\left(C_1C_3C_5C_6R_1R_2R_3R_4R_5R_6 + C_1C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_5 + C_1C_4C_5R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_$

10.2545 X-INVALID-ORDER-2545 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5\right)}{s^3\left(C_1C_3C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5 - C_1C_5C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4R_5 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R$

10.2546 X-INVALID-ORDER-2546 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_4 + s^2\left(C_3C_5R_1R_2R_3R_4R_5 + C_3C_6R_1R_2R_3R_4R_6 + C_5C_6R_1R_2R_3R_4 + C_5R_1R_2R_3R_4 + C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_5 + C_6R_1R_2R_4R_5 + C_6R_1R_2R_3R_4R_5 + C_6R_1R_2R_3R_4 +$

10.2547 X-INVALID-ORDER-2547 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + R_3 R_4 R_5 + R_3 R_4 R_5 + R_3 R_4 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_3 R_4 R_5 R_6 - C_1 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 R_1 R_2 R_3 R_4 R_5 - C_1 C_5 R_1 R_2 R_3 R_4 R_5 - C_1 C_5 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 R_1 R_2 R_3 R_4 R_5 - C_1 C_5 R_1 R_2 R_5 - C_1 C_5 R_1 R_2 R_5 - C_1 C_5 R_1 R_2 R_5 - C_1 C_5$

10.2548 X-INVALID-ORDER-2548 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_1 R_4}{C_1 C_2 C_6 R_1 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_5 + C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}$

10.2549 X-INVALID-ORDER-2549 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_6 R_1 R_4 R_6 s + R_1 R_4}{C_1 C_2 C_6 R_1 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_5 + C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}$

10.2550 X-INVALID-ORDER-2550 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{R_1R_4R_6}{C_1C_2C_6R_1R_3R_4R_5R_6s^3 - R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_1C_2R_1R_3R_4R_5 - C_1C_6R_1R_3R_4R_6 + C_1C_6R_1R_3R_4R_5 + C_2C_6R_1R_4R_5R_6 + C_2C_6R_3R_4R_5R_6\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5 - C_6R_3R_4R_6\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5 - C_6R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5 - C_6R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5 - C_6R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_2R_1R_4R_5 + C_2R_1R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_2R_1R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5\right) + s\left(-C_1R_1R_3R_5 + C_1R_1R_5\right) + s\left(-C_1R_1R_3R_5 + C_1R_1R_5\right) + s\left(-C_1R_1R_3R_5\right) + s\left(-C_1R$

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10.2551 X-INVALID-ORDER-2551 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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10.2552 X-INVALID-ORDER-2552 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_5 R_1 R_4 R_6 s}{C_1 C_2 C_5 R_1 R_3 R_4 R_5 s^3 + R_3 + R_4 + s^2 \left(C_1 C_2 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_1 C_5 R_1 R_3 R_5 + C_1 C_5 R_1 R_4 R_5 + C_2 C_5 R_1 R_4 R_5 \right) + s \left(C_1 R_1 R_3 + C_1 R_1 R_4 + C_2 R_1 R_4 + C_2 R_3 R_4 - C_5 R_3 R_4 + C_5 R_3 R_5 + C_5 R_4 R_5 \right)}$

10.2553 X-INVALID-ORDER-2553 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_1 R_4}{C_1 C_2 C_5 C_6 R_1 R_3 R_4 R_5 s^3 + C_6 R_3 + C_6 R_4 + s^2 \left(C_1 C_2 C_6 R_1 R_3 R_4 - C_1 C_5 C_6 R_1 R_3 R_5 + C_1 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_1 R_4 + C_2 C_6 R_1 R_4 + C_2 C_6 R_3 R_4 - C_5 C_6 R_3 R_4 + C_5 C_6 R_5 R_5 + C_5 C_$

10.2554 X-INVALID-ORDER-2554 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_4R_6s + C_5R_1R_4}{C_1C_2C_5C_6R_1R_3R_4R_5s^3 + C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_3R_4 - C_1C_5C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_5 + C_1C_5C_6R_1R_4R_5 + C_2C_5C_6R_1R_4R_5 + C_2C_5C_6R_1R_4 + C_2C_6R_3R_4 + C_5C_6R_3R_4 +$

10.2555 X-INVALID-ORDER-2555 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1}{C_1 C_2 C_5 C_6 R_1 R_3 R_4 R_5 R_6 s^4 + R_3 + R_4 + s^3 \left(C_1 C_2 C_5 R_1 R_3 R_4 R_5 + C_1 C_5 C_6 R_1 R_3 R_4 R_6 + C_1 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_5 C_6 R_3 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_1 C_5 R_1 R_3 R_4 R_5 + C_1 C_5 R_1 R_3 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_1 C_5 R_1 R_3 R_4 + C_1 C_5 R_1 R_3 R_4 + C_1 C_5 R_1 R_3 R_4 R_5 + C_1 C_5 R_1 R_3 R_4 R_5 \right)$

10.2556 X-INVALID-ORDER-2556 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_5 R_1 R_4 R_5 s + R_1 R_4}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_4 R_5 - C_1 C_5 C_6 R_1 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_5 + C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 - C_5 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}$

10.2557 X-INVALID-ORDER-2557 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_4R_5R_6s^2 + R_1R_4 + s\left(C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 - C_1C_5C_6R_1R_3R_4R_5\right) + s^2\left(-C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_5 + C_1C_6R_1R_4R_5 + C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 - C_5C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}$

10.2558 X-INVALID-ORDER-2558 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_5R_1R_4R_5R_6s + R_1R_4R_6}{-R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_1C_2C_6R_1R_3R_4R_5R_6 - C_1C_5C_6R_1R_3R_4R_5R_6\right) + s^2\left(C_1C_2R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5 - C_1C_6R_1R_3R_4R_6 + C_1C_6R_1R_3R_4R_5R_6 + C_2C_6R_1R_4R_5R_6 + C_2C_6R_3R_4R_5R_6 - C_5C_6R_3R_4R_5R_6\right) + s\left(-C_1R_1R_3R_4 + C_1C_6R_1R_3R_4R_5 + C_1C_6R_1R_4R_5R_6 + C_2C_6R_1R_4R_5R_6 + C_2C_6R_3R_4R_5R_6 + C_2C_6R_3R_4R_5R_6\right) + s\left(-C_1R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4\right) + s\left(-C_1R_1R_3R_4\right) + s\left(-C_1R_1R_3R_4\right) + s\left(-C_1R_1R_3R_4\right) + s\left(-C_1R_1R_3R_4\right) + s\left(-C_1R_1R_3R_4\right) + s\left(-C$

10.2559 X-INVALID-ORDER-2559 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_1}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_5 + C_1 C_4 C_6 R_1 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_3 + C_1 C_6 R_1 R_5 + C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_4 C_6 R_3 R_5\right) + s \left(-C_6 R_3 + C_6 R_5\right)}$

10.2560 X-INVALID-ORDER-2560 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_6 R_1 R_6 s + R_1}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_5 + C_1 C_4 C_6 R_1 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_3 + C_1 C_6 R_1 R_5 + C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_4 C_6 R_3 R_5\right) + s \left(-C_6 R_3 + C_6 R_5\right)}$

10.2561 X-INVALID-ORDER-2561 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{R_1 R_6}{-R_3 + R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 - C_1 C_6 R_1 R_3 R_6 + C_1 C_6 R_1 R_5 R_6 + C_2 C_6 R_1 R_5 R_6 + C_2 C_6 R_3 R_5 R_6\right) + s \left(-C_1 R_1 R_3 + C_1 R_1 R_5 + C_2 R_1 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_6 R_3 R_6 + C_6 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_3 R_5 + C_1 R_5 R_6 + C_2 R_5 R_5 R_6 + C_2 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_3 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_6 R_3 R_6 + C_6 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_3 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_6 R_3 R_6 + C_6 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_3 R_5 + C_2 R_3 R_5 + C_4 R_3 R_5 - C_6 R_3 R_6 + C_6 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_3 R_5 + C_2 R_5 R_5 R_6 + C_4 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_3 R_5 + C_2 R_5 R_5 R_6 + C_4 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_5 R_6 + C_2 R_5 R_5 R_6 + C_4 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_5 R_6 + C_2 R_5 R_5 R_6\right) + s \left(-C_1 R_1 R_5 R_6 +$

10.2562 X-INVALID-ORDER-2562 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_6 s}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_6 + C_1 C_4 C_6 R_1 R_3 R_6 - C_1 C_5 C_6 R_1 R_3 R_6\right) + s^2 \left(C_1 C_2 R_1 R_3 + C_1 C_4 R_1 R_3 - C_1 C_5 R_1 R_3 + C_1 C_6 R_1 R_6 + C_2 C_6 R_1 R_6 + C_2 C_6 R_3 R_6 + C_4 C_6 R_3 R_6\right) + s \left(C_1 R_1 + C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3 + C_6 R_6\right) + 1}$

10.2563 X-INVALID-ORDER-2563 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_5 R_1 R_6 s}{s^3 \left(C_1 C_2 C_5 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5\right) + s^2 \left(C_1 C_2 R_1 R_3 + C_1 C_4 R_1 R_3 - C_1 C_5 R_1 R_3 + C_1 C_5 R_1 R_5 + C_2 C_5 R_1 R_5 + C_2 C_5 R_3 R_5 + C_4 C_5 R_3 R_5\right) + s \left(C_1 R_1 + C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3 + C_5 R_5\right) + 1}$

10.2564 X-INVALID-ORDER-2564 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_5 R_1}{C_6 + s^3 \left(C_1 C_2 C_5 C_6 R_1 R_3 R_5 + C_1 C_4 C_5 C_6 R_1 R_3 R_5\right) + s^2 \left(C_1 C_2 C_6 R_1 R_3 + C_1 C_4 C_6 R_1 R_3 + C_1 C_5 C_6 R_1 R_5 + C_2 C_5 C_6 R_1 R_5 + C_2 C_5 C_6 R_3 R_5\right) + s \left(C_1 C_6 R_1 + C_2 C_6 R_1 + C_2 C_6 R_3 + C_4 C_6 R_3 + C_5 C_6 R_3\right)}$

10.2565 X-INVALID-ORDER-2565 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_6s + C_5R_1}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_3R_5 + C_1C_4C_5C_6R_1R_3R_5\right) + s^2\left(C_1C_2C_6R_1R_3 + C_1C_4C_6R_1R_3 - C_1C_5C_6R_1R_3 + C_1C_5C_6R_1R_5 + C_2C_5C_6R_3R_5 + C_4C_5C_6R_3R_5\right) + s\left(C_1C_6R_1 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3 + C_5C_6R_3\right)}$

10.2566 X-INVALID-ORDER-2566 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_6 s}{s^4 \left(C_1 C_2 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_5 R_1 R_3 R_5 + C_1 C_2 C_6 R_1 R_3 R_6 + C_1 C_4 C_5 R_1 R_3 R_6 + C_1 C_5 C_6 R_1 R_3 R_6 + C_1 C_5 C_6 R_1 R_5 R_6 + C_2 C_5 C_6 R_1 R_5 R_6 + C_2 C_5 C_6 R_3 R_5 R_6 + C_4 C_5 C_6 R_3 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 + C_1 C_5 C_6 R_1 R_3 R_6 + C_1 C_5 C_6 R_1 R_5 R_6 + C_2 C_5 C_6 R_3 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 + C_1 C_4 C_5 R_1 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 + C_1 C_5 C_6 R_1 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 R_4 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 + C_1 C_4 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_$

10.2567 X-INVALID-ORDER-2567 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_1 R_5 s + R_1}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_5 + C_1 C_4 C_6 R_1 R_3 R_5 - C_1 C_5 C_6 R_1 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_3 + C_1 C_6 R_1 R_5 + C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_4 C_6 R_3 R_5 - C_5 C_6 R_3 R_5\right) + s \left(-C_6 R_3 + C_6 R_5\right)}$

10.2568 X-INVALID-ORDER-2568 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_5R_6s^2 + R_1 + s\left(C_5R_1R_5 + C_6R_1R_6\right)}{s^3\left(C_1C_2C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 - C_1C_5C_6R_1R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_4C_6R_3R_5 - C_5C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

10.2569 X-INVALID-ORDER-2569 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_5 R_6 s + R_1 R_6}{-R_3 + R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_5 R_1 R_3 R_5 - C_1 C_5 R_1 R_3 R_5 - C_1 C_6 R_1 R_5 R_6 + C_2 C_6 R_1 R_5 R_6 + C_2 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 - C_5 C_6 R_3 R_5 R_6 \right) + s \left(-C_1 R_1 R_3 + C_1 R_5 R_6 + C_2 C_6 R_1 R_5 R_6 + C_2 C_6 R_3 R_5 R_6 + C_4 C_6 R_3 R_5 R_6 - C_5 C_6 R_3 R_5 R_6 \right) + s \left(-C_1 R_1 R_3 R_5 - C_1 C_5 R_1 R_3 R_5 - C_1 C_5 R_1 R_3 R_5 - C_1 C_5 R_1 R_5 R_6 \right) + s \left(-C_1 R_1 R_3 R_5 - C_1 C_5 R_1 R_3 R_5 - C_1 C_5 R_1 R_5 R_6 \right) + s \left(-C_1 R_1 R_3 R_5 - C_1 C_5 R_1 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 R_6 + C_2 C_6 R_1 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 R_6 + C_1 C_5 R_5 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 R_6 + C_1 R_5 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 R_6 + C_1 R_5 R_5 R_6 \right) + s \left(-C_1 R_1 R_5 R_6 + C_1 R_5 R_6 + C_$

10.2570 X-INVALID-ORDER-2570 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $\frac{C_4R_1R_4R_6s + R_1R_6}{C_1C_2C_4R_1R_3R_4R_5s^3 - R_3 + R_5 + s^2\left(C_1C_2R_1R_3R_5 - C_1C_4R_1R_3R_4 + C_1C_4R_1R_3R_5 + C_1C_4R_1R_4R_5 + C_2C_4R_1R_4R_5\right) + s\left(-C_1R_1R_3 + C_1R_1R_5 + C_2R_1R_5 + C_2R_3R_5 - C_4R_3R_4 + C_4R_3R_5 + C_4R_4R_5\right)}$

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10.2571 X-INVALID-ORDER-2571 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_4 R_1 R_4 s + R_1}{C_1 C_2 C_4 C_6 R_1 R_3 R_4 R_5 s^4 + s^3 \left(C_1 C_2 C_6 R_1 R_3 R_5 - C_1 C_4 C_6 R_1 R_3 R_5 + C_1 C_4 C_6 R_1 R_3 R_5 + C_1 C_4 C_6 R_1 R_4 R_5 + C_2 C_4 C_6 R_1 R_3 + C_1 C_6 R_1 R_5 + C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 - C_4 C_6 R_3 R_4 + C_4 C_6 R_3 R_5 + C_4 C_6 R_4 R_5 \right) + s \left(-C_6 R_3 R_4 R_5 + C_4 C_6 R_3 R_5 + C_4 C_6 R_5 R_5 + C_5 C_6 R_$

10.2572 X-INVALID-ORDER-2572 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_6R_1R_4R_6s^2 + R_1 + s\left(C_4R_1R_4 + C_6R_1R_6\right)}{C_1C_2C_4C_6R_1R_3R_4 + S^4 + s^3\left(C_1C_2C_6R_1R_3R_5 - C_1C_4C_6R_1R_3R_4 + C_1C_4C_6R_1R_3R_5 + C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_3R_5 - C_4C_6R_3R_4 + C_4C_6R_3R_5 + C_4C_6R_3R_5$

10.2573 X-INVALID-ORDER-2573 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4 R_1 R_4}{C_1 C_2 C_4 C_6 R_1 R_3 R_4 R_5 R_6 s^4 - R_3 + R_5 + s^3 \left(C_1 C_2 C_4 R_1 R_3 R_4 R_5 + C_1 C_2 C_6 R_1 R_3 R_5 R_6 - C_1 C_4 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_4 R_5 R_6 + C_2 C_4 C_6 R_1 R_4 R_5 R_6 + C_2 C_4 C_6 R_3 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_4 + C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 + C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_3 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_5 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_5 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_5 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_5 R_5 - C_1 C_4 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2$

10.2574 X-INVALID-ORDER-2574 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_1R_4R_6s^2 + C_5R_1R_6s}{s^3\left(C_1C_2C_4R_1R_3R_4 - C_1C_4C_5R_1R_3R_4\right) + s^2\left(C_1C_2R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_4 - C_1C_5R_1R_3 + C_2C_4R_1R_4 + C_2C_4R_3R_4 - C_4C_5R_3R_4\right) + s\left(C_1R_1 + C_2R_1 + C_2R_3 + C_4R_3 + C_4R_4 - C_5R_3\right) + 1}$

10.2575 X-INVALID-ORDER-2575 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_1R_4s + C_5R_1}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_3R_4 - C_1C_4C_5C_6R_1R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_4C_6R_1R_4 + C_2C_4C_6R_1R_4 + C_2C_4C_6R_3R_4\right) + s\left(C_1C_6R_1 + C_2C_6R_3 + C_4C_6R_3 + C_$

10.2576 X-INVALID-ORDER-2576 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_1R_4R_6s^2 + C_5R_1 + s\left(C_4C_5R_1R_4 + C_5C_6R_1R_6\right)}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_3R_4 - C_1C_4C_5C_6R_1R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_4C_6R_1R_4 + C_2C_4C_6R_1R_4 + C_2C_4C_6R_3R_4\right) + s\left(C_1C_6R_1 + C_2C_6R_3 + C_4C_6R_3 + C_4C_6R_3 + C_4C_6R_3 + C_4C_6R_3\right)}$

10.2577 X-INVALID-ORDER-2577 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_4C_5R_1R_4R_6s^2 + C_5R_1R_3R_4}{s^4\left(C_1C_2C_4C_6R_1R_3R_4R_6 - C_1C_4C_5C_6R_1R_3R_4 + C_1C_2C_6R_1R_3R_6 + C_1C_4C_6R_1R_3R_6 + C_1C_4C_6R_1$

10.2578 X-INVALID-ORDER-2578 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_4C_5R_1R_4R_6s^2 + C_5R_1R_6s}{C_1C_2C_4C_5R_1R_3R_4 + C_1C_2C_5R_1R_3R_5 - C_1C_4C_5R_1R_3R_5 + C_1C_4C_5R_1R_4R_5 + C_2C_4C_5R_1R_4R_5 + C_2C_4C_5R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_3 + C_1C_5R_1R_3 + C_1C_5R_1R_3 + C_1C_5R_1R_3 + C_1C_5R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_3 + C_1C_5R_1R_3 + C$

10.2579 X-INVALID-ORDER-2579 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5R_1R_4s + C_5R_1}{C_1C_2C_4C_5C_6R_1R_3R_4R_5s^4 + C_6 + s^3\left(C_1C_2C_4C_6R_1R_3R_4 + C_1C_4C_5C_6R_1R_3R_5 + C_1C_4C_5C_6R_1R_5 + C_1C_4C_5C_$

10.2580 X-INVALID-ORDER-2580 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_1R_4R_6s^2 + C_5R_1 + s\left(C_4C_5R_1R_4 + C_5C_6R_1R_4R_5 + C_2C_4C_5C_6R_1R_4R_5 + C_2C_4C_5C_6R_1R_3R_4 + C_1C_4C_5C_6R_1R_3R_4 + C_1C_4C_5C_6R_1R_3R_5 + C_1C_4C_5C_6R_1R_4R_5 + C_2C_4C_5C_6R_1R_4R_5 + C_2C_4C_5C_6R_1R_3 + C_1C_4C_6R_1R_3 + C$

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 \textbf{10.2581} \quad \textbf{X-INVALID-ORDER-2581} \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ \frac{1}{C_2s}, \ R_3, \ R_4 + \frac{1}{C_4s}, \ R_5 + \frac{1}{C_5s}, \ \frac{R_6}{C_6R_6s+1}\right) 
 H(s) = \frac{1}{C_1C_2C_4C_5C_6R_1R_3R_4R_5R_6s^5 + s^4\left(C_1C_2C_4C_5R_1R_3R_4R_5 + C_1C_2C_5C_6R_1R_3R_5R_6 - C_1C_4C_5C_6R_1R_3R_4R_6 + C_1C_4C_5C_6R_1R_3R_5R_6 + C_1C_4C_5C_6R_1R_4R_5R_6 + C_2C_4C_5C_6R_1R_4R_5R_6 + C_2C_4C_5C_6R_3R_4R_5R_6 + C_3C_4C_5C_6R_1R_3R_4R_5R_6 + C_3C_4C_5C_6R_1R_4R_5R_6 + C_3C_4C_5C_6R_3R_4R_5 + C_3C_4C_5C_6R_3R_4R_5 + C_3C_4C_5C_6R_3R_4R_5 + C_3C_5
```

10.2582 X-INVALID-ORDER-2582 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_4C_5R_1R_4R_5R_6s^2 + R_1R_6 + s\left(C_4R_1R_4R_6 + C_5R_1R_5R_6\right)}{-R_3 + R_5 + s^3\left(C_1C_2C_4R_1R_3R_4R_5 - C_1C_4C_5R_1R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_3R_5 - C_1C_4R_1R_3R_4 + C_1C_4R_1R_3R_5 + C_1C_4R_1R_4R_5 - C_1C_5R_1R_3R_4 + C_1C_4R_1R_4R_5 - C_1C_5R_1R_3R_4 + C_1C_4R_1R_4R_5 + C_2C_4R_1R_4R_5 + C_2C_4R_3R_4R_5\right) + s\left(-C_1R_1R_3 + C_1R_1R_5 + C_2R_1R_5 + C_2R_3R_5 - C_4R_3R_4 + C_3C_4R_1R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_3R_4R_5\right) + s\left(-C_1R_1R_3 + C_1R_4R_5 + C_2R_4R_3R_4 + C_3C_4R_1R_4R_5 + C_3C_4R_3R_4R_5\right) + s\left(-C_1R_1R_3 + C_1R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_1R_3 + C_1R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_1R_3 + C_1R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_1R_3 + C_1R_4R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_1R_3 + C_1R_4R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_4R_3R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_4R_3R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_4R_4R_5 + C_3C_4R_1R_4R_5\right) + s\left(-C_1R_4R_4R_5 + C_3C_4R_4R_4R_5\right) + s\left(-C_1R_4R_4R_5 + C_3R_4R_5\right) + s\left(-C_1R_4R_5 + C_3R_4R_5\right) + s\left(-C_1R_4R_5 + C_3R_5R_5\right) + s\left(-C_1R_4R_5 + C_3R_5R_5\right) + s\left(-C_1R_4R_5 + C_3R_5R_5\right) + s\left(-C_$

10.2583 X-INVALID-ORDER-2583 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_4C_5R_1R_4R_5s^2 + R_1 + s\left(C_4R_1R_4 + C_5R_1R_5\right)}{s^4\left(C_1C_2C_4C_6R_1R_3R_4R_5 - C_1C_4C_5C_6R_1R_3R_4 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_3R_4R_5 - C_4C_5C_6R_3R_4R_5\right) + s^2\left(-C_1C_6R_1R_3R_4 + C_1C_4C_6R_1R_3R_4 + C_1C_4C_6R_1R_4R_5 + C_1C_4C_$

10.2584 X-INVALID-ORDER-2584 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_4C_5C_6R_1R_4R_5R_6s^3 + R_1 + s^2\left(C_4C_5R_1R_4R_5 + C_4C_6R_1R_4R_6 + C_5C_6R_1R_5R_6\right) + s\left(C_4R_1R_4 + C_5R_1R_5 + C_6R_1R_6\right)}{s^4\left(C_1C_2C_4C_6R_1R_3R_4R_5 - C_1C_4C_6R_1R_3R_4 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_2C_4C_6R_1R_3R_5 + C_2C_4C_6R_1R_5 + C_2$

10.2585 X-INVALID-ORDER-2585 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{-R_3 + R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_3 R_4 R_5 R_6 - C_1 C_4 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_2 C_6 R_1 R_3 R_4 R_5 - C_1 C_4 C_6 R_1 R_4 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_4 C_6 R_1 R_5 R_6 - C_1 C_5 C_6$

10.2586 X-INVALID-ORDER-2586 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_1 R_4}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_4 R_5 + C_1 C_4 C_6 R_1 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_5 + C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 + C_4 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}$

10.2587 X-INVALID-ORDER-2587 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_6 R_1 R_4 R_6 s + R_1 R_4}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_4 R_5 + C_1 C_4 C_6 R_1 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_5 + C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 + C_4 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}$

10.2588 X-INVALID-ORDER-2588 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{R_1 R_4 R_6}{-R_3 R_4 + R_3 R_5 + R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_4 R_1 R_3 R_4 R_5 + C_1 C_6 R_1 R_3 R_4 R_5 + C_1 C_6 R_1 R_3 R_4 R_5 + C_1 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_6 R_1 R_5 R_6 + C_2 C$

10.2589 X-INVALID-ORDER-2589 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_5 R_1 R_4 R_6 s}{R_3 + R_4 + s^3 \left(C_1 C_2 C_6 R_1 R_3 R_4 R_6 + C_1 C_4 C_6 R_1 R_3 R_4 R_6 - C_1 C_5 C_6 R_1 R_3 R_4 R_6\right) + s^2 \left(C_1 C_2 R_1 R_3 R_4 + C_1 C_4 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_6 + C_1 C_6 R_1 R_4 R_6 + C_2 C_6 R_3 R_4 R_6 + C_4 C_6 R_3 R_4 R_6 - C_5 C_6 R_3 R_4 R_6\right) + s \left(C_1 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_4 R_6 + C_2 C_6 R_3 R_4 R_6 + C_4 C_6 R_3 R_4 R_6\right) + s \left(C_1 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_4 +$

10.2590 X-INVALID-ORDER-2590 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

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10.2591 X-INVALID-ORDER-2591 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
H(s) = \frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4 + s^3 \left(C_1 C_2 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_4 C_5 C_6 R_1 R_3 R_4 + C_1 C_4 C_6 R_1 R_3 R_4 + C_1 C_5 C_6 R_1 R_3 R_4 + C_1 C_5 C_6 R_1 R_3 R_4 + C_1 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_3 R_4 R_5 + C_4 C_5 C_6 R_3 R_4 R_5 \right) + s \left(C_1 C_6 R_1 R_3 R_4 + C_1 C_5 C_6 R_1 R_3 R_4 + C_1 C_5 C_6 R_1 R_3 R_4 + C_1 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_1 R_4 R_5 + C_2 C_5 C_6 R_3 R_4 R_5 \right) + s \left(C_1 C_6 R_1 R_3 R_4 + C_1 C_5 C_6 R_1 R_3 R_4 + C_
10.2592 X-INVALID-ORDER-2592 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                  \frac{C_5C_6R_1R_4R_6s + C_5R_1R_4}{C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_4C_5C_6R_1R_3R_4 + C_1C_4C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_5 + C_1C_5C_6R_1R_3R_5 + C_2C_5C_6R_1R_4R_5 + C_2C_5C_6R_3R_4R_5 + C_4C_5C_6R_3R_4R_5 \right) + s\left(C_1C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_1
10.2593 X-INVALID-ORDER-2593 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{R_3 + R_4 + s^4 \left( C_1 C_2 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_2 C_5 R_1 R_3 R_4 R_5 + C_1 C_2 C_6 R_1 R_3 R_4 R_5 + C_1 C_4 C_5 R_1 R_3 R_4 R_6 + C_1 C_5 C_6 R_1 R_3 R_4 R_6 + C_1 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_5 C_6 R_1 R_3 R_4 R_6 + C_1 C_5 C_6 R_1 R_3 R_4 R_6 + C_1 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_5 C_6 R_1 R_3 R_4 R_6 + C_1 C_5 C_6 R_1 R_5 R_6 + C_1 C
10.2594 X-INVALID-ORDER-2594 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
                                                 H(s) = \frac{C_5 R_1 R_4 R_5 s + R_1 R_4}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_4 R_5 + C_1 C_4 C_6 R_1 R_3 R_4 R_5 - C_1 C_5 C_6 R_1 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_5 + C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_1 R_4 R_5 + C_2 C_6 R_3 R_4 R_5 - C_5 C_6 R_3 R_4 R_5\right) + s \left(-C_6 R_3 R_4 + C_6 R_3 R_5 + C_6 R_4 R_5\right)}
10.2595 X-INVALID-ORDER-2595 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                 H(s) = \frac{C_5C_6R_1R_4R_5R_6s^2 + R_1R_4 + s\left(C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 + C_1C_4C_6R_1R_3R_4R_5 + C_1C_5C_6R_1R_3R_4R_5 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_4R_5 + C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_4C_6R_3R_4R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_5R_5 
10.2596 X-INVALID-ORDER-2596 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_5R_1R_4R_5R_6s + R_1R_4R_6
                                    \frac{C_5\kappa_1\kappa_4\kappa_5\kappa_6s + \kappa_1\kappa_4\kappa_6}{-R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_1C_2C_6R_1R_3R_4R_5R_6 + C_1C_4C_6R_1R_3R_4R_5R_6 + C_1C_5C_6R_1R_3R_4R_5 + C_1C_4R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5 - C_1C_6R_1R_3R_4R_5 + C_1C_6R_1R_4R_5R_5 + C_1C_6R_1R_5R_5 + C_
10.2597 X-INVALID-ORDER-2597 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3 R_1 R_4 R_6 s}{-R_4 + R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_4 R_5 - C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_4 R_5 R_6 + C_2 C_6 R_4 R_5 R_6 + C_3 C_6 R_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_4 + C_1 R_1 R_5 + C_2 R_4 R_5 - C_6 R_4 R_5 R_6 + C_2 C_6 R_4 R_5 R_6 + C_3 C_6 R_4 R_5 R_6 + C_3 C_6 R_4 R_5 R_6 + C_3 C_6 R_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_4 + C_1 R_1 R_5 + C_2 R_4 R_5 - C_6 R_4 R_5 R_6 + C_3 C_6 R_4 R_5 R_6 \right) + s \left(-C_1 R_1 R_4 + C_1 R_1 R_5 + C_2 R_4 R_5 R_6 + C_3 C_6 R_5 R_6 + C_3 C
10.2598 X-INVALID-ORDER-2598 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                       \frac{C_{3}C_{5}R_{1}R_{4}R_{6}s^{2}}{s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{4}R_{6}+C_{1}C_{3}C_{6}R_{1}R_{4}R_{6}+C_{2}C_{3}C_{6}R_{1}R_{4}R_{6}+C_{2}C_{3}C_{6}R_{1}R_{4}R_{6}+C_{2}C_{3}R_{1}R_{4}+C_{1}C_{5}R_{1}R_{4}+C_{1}C_{6}R_{1}R_{6}+C_{2}C_{3}R_{1}R_{4}+C_{2}C_{6}R_{4}R_{6}+C_{3}C_{6}R_{4}R_{6}+C_{5}C_{6}R_{4}R_{6}\right)+s\left(C_{1}R_{1}+C_{2}R_{4}+C_{3}R_{4}+C_{5}R_{4}+C_{6}R_{6}\right)+1
10.2599 X-INVALID-ORDER-2599 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
                                                                                            H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_1C_2C_5R_1R_4R_5 + C_1C_3C_5R_1R_4R_5 + C_2C_3C_5R_1R_4R_5\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3R_1R_4 - C_1C_5R_1R_4 + C_1C_5R_1R_5 + C_2C_3R_1R_4 + C_2C_5R_4R_5 + C_3C_5R_4R_5\right) + s\left(C_1R_1 + C_2R_4 + C_3R_4 - C_5R_4 + C_5R_5\right) + 1}
10.2600 X-INVALID-ORDER-2600 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3C_5R_1R_4s}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4R_5\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_5C_6R_1R_4 + C_1C_5C_6R_1R_4 + C_2C_5C_6R_4R_5 + C_3C_5C_6R_4R_5\right) + s\left(C_1C_6R_1 + C_2C_6R_4 + C_3C_6R_4 + C_5C_6R_4\right)}$

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10.2601 X-INVALID-ORDER-2601 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
```

 $H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4 + C_1C_5C_6R_1R_4 + C_1C_5C_$

10.2602 X-INVALID-ORDER-2602 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_4}{s^4\left(C_1C_2C_5C_6R_1R_4R_5R_6 + C_1C_3C_5C_6R_1R_4R_5R_6 + C_2C_3C_5C_6R_1R_4R_5 + C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_6 + C_1C_3C_6R_1R_4R_6 + C_1C_5C_6R_1R_4R_6 + C_1C_5C_6R_1R_4R_6 + C_2C_3C_5R_1R_4R_5 + C_2C_3$

10.2603 X-INVALID-ORDER-2603 $Z(s) = \begin{pmatrix} \frac{R_1}{C_1 R_1 s + 1}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & R_4, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{R_6}{C_6 R_6 s + 1} \end{pmatrix}$

 $H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_1C_2C_6R_1R_4R_5R_6 + C_1C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_1R_4R_5R_6 + C_1C_3R_1R_4R_5 + C_1C_3R_1R_4R_5 - C_1C_6R_1R_4R_6 + C_1C_6R_1R_5R_6 + C_2C_3R_1R_4R_5 + C_2C_6R_4R_5R_6 + C_3C_6R_4R_5R_6 + C_3C_6R_4R$

10.2604 X-INVALID-ORDER-2604 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_1 R_6 s}{s^3 \left(C_1 C_2 C_6 R_1 R_5 R_6 + C_1 C_3 C_6 R_1 R_5 R_6 + C_1 C_4 C_6 R_1 R_5 R_6 + C_2 C_3 C_6 R_1 R_5 R_6 + C_1 C_4 R_1 R_5 + C_2 C_6 R_5 R_6 + C_3 C_6 R_5 R_6 + C_3 C_6 R_5 R_6 + C_4 C_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_6 \right) - 1 \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_5 R_6 + C_4 R_5 R_6 + C_4 R_5 R_6 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_6 \right) - 1 \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 - C_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 + C_4 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 + C_3 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 R_5 R_6 + C_2 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 R_5 R_6 + C_3 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 R_5 R_6 + C_2 R_5 R_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 R_5 R_6 + C_3 R_5 R_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 R_5 R_6 + C_3 R_5 R_6 R_5 R_6 R_5 R_6 \right) + s \left(-C_1 R_1 + C_2 R_5 R_5 R_6 R_5$

10.2605 X-INVALID-ORDER-2605 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_5R_1 + C_2C_3R_1\right)}$$

10.2606 X-INVALID-ORDER-2606 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_1C_2C_6R_1 + C_1C_3C_6R_1 + C_1C_4C_6R_1 - C_1C_5C_6R_1 + C_2C_3C_6R_1\right)}$$

10.2607 X-INVALID-ORDER-2607 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_6s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_1C_2C_6R_1 + C_1C_3C_6R_1 + C_1C_4C_6R_1 - C_1C_5C_6R_1 + C_2C_3C_6R_1\right)}$$

10.2608 X-INVALID-ORDER-2608 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_5C_6R_1R_5R_6 + C_1C_3C_5C_6R_1R_5R_6 + C_2C_3C_5C_6R_1R_5R_6\right) + s^2\left(C_1C_2C_5R_1R_5 + C_1C_3C_6R_1R_6 + C_1C_3C_5R_1R_5 + C_1C_4C_6R_1R_6 + C_1C_4C_5R_1R_5 + C_1C_4C_6R_1R_5 + C_1C$

10.2609 X-INVALID-ORDER-2609 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_5R_6s^2 + C_3R_1R_6s}{s^3\left(C_1C_2C_6R_1R_5R_6 + C_1C_3C_6R_1R_5R_6 + C_1C_5C_6R_1R_5R_6 + C_2C_3C_6R_1R_5R_6\right) + s^2\left(C_1C_2R_1R_5 + C_1C_3R_1R_5 + C_1C_4R_1R_5 - C_1C_6R_1R_6 + C_2C_3R_1R_5 + C_2C_6R_5R_6 + C_3C_6R_5R_6 + C_4C_6R_5R_6 - C_5C_6R_5R_6\right) + s\left(-C_1R_1 + C_2R_1R_5 + C_1C_3R_1R_5 + C_1C_3R_1R_5 + C_2C_3R_1R_5 + C_2C_3R_1R_5 + C_2C_3R_1R_5 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6\right) + s\left(-C_1R_1 + C_2R_1R_5 + C_1C_3R_1R_5 + C_3C_3R_1R_5 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6 + C_3C_6R_5R_6\right) + s\left(-C_1R_1 + C_2R_1R_5 + C_3C_3R_1R_5 + C_3C_3R_1R_5 + C_3C_3R_1R_5 + C_3C_3R_1R_5\right) + s\left(-C_1R_1 + C_2R_1R_5 + C_3C_3R_1R_5 + C_3C_3R_1R_5 + C_3C_3R_1R_5\right) + s\left(-C_1R_1 + C_2R_1R_5 + C_3C_3R_1R_5 + C_3C_3R_1R_5\right) + s\left(-C_1R_1 + C_2R_1R_5 + C_3C_3R_1R_5\right) + s\left(-C_1R_1 + C_2R_1R_5 + C_3C_3R_1R_5\right) + s\left(-C_1R_1 + C_2R_1R_5\right) + s\left(-C_1R_1 + C_2R_1R_5\right) + s\left(-C_1R_1 + C_2R_1R_5\right) + s\left(-C_1R_1R_5 + C_1C_3R_1R_5\right) + s\left(-C_1R_1R_5 + C_1C$

10.2610 X-INVALID-ORDER-2610 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_3C_4R_1R_4R_6s^2 + C_3R_1R_6s}{s^3\left(C_1C_2C_4R_1R_4R_5 + C_1C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1C_3R_1R_5 - C_1C_4R_1R_4 + C_1C_4R_1R_5 + C_2C_4R_4R_5 + C_3C_4R_4R_5\right) + s\left(-C_1R_1 + C_2R_5 + C_3R_5 - C_4R_4 + C_4R_5\right) - 1}$$

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10.2611 X-INVALID-ORDER-2611 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4R_1R_4s + C_3R_1}{-C_6 + s^3\left(C_1C_2C_4C_6R_1R_4R_5 + C_1C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4 + C_1C_4C_6R_1R_5 + C_2C_3C_6R_1R_5 + C_2C_3C_6R_1R_5 + C_2C_4C_6R_4R_5 + C_3C_4C_6R_4R_5 + S_3C_4C_6R_4R_5 + S_3C_4C_4C_4R_5 + S_3C_4C_4C_4R_5 + S_3C_4C_4C_4R_5 + S_3C_4C_4C_4R_5 + S_3C_4C_4C_4R_5 + S_3C
10.2612 X-INVALID-ORDER-2612 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
10.2613 X-INVALID-ORDER-2613 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_4R_1R_4R_6s^2 + C_3R_4R_5R_6 + C_1C_3C_4R_1R_4R_5R_6 + C_2C_3C_4R_1R_4R_5R_6 + C_1C_3C_4R_1R_4R_5 + C_1C_3C_4R_1R_5 + C_1C_3C_4R_1R_5 + C_1C_3C_4R_1R_5 + C_1C_3C
10.2614 X-INVALID-ORDER-2614 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_4C_6R_1R_4R_6 + C_1C_3C_4C_6R_1R_4R_6 + C_2C_3C_4C_6R_1R_4R_6 + C_1C_3C_4R_1R_4 + C_1C_3C_6R_1R_6 + C_1C_4C_5R_1R_4 + C_1C_4C_6R_1R_6 + C_1C_4C_5R_1R_4 + C_1C_4C_6R_1R_4 + C_1C_
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10.2615 X-INVALID-ORDER-2615 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_4C_5R_1R_4R_5 + C_1C_3C_4C_5R_1R_4R_5 + C_2C_3C_4C_5R_1R_4 + C_1C_2C_5R_1R_5 + C_1C_3C_4R_1R_4 + C_1C_3C_5R_1R_5 + C_2C_3C_4R_1R_4 + C_1C_4C_5R_1R_5 + C_2C_3C_4R_1R_4 + C_2C_3C_5R_1R_5 + C_2C_3C_$

10.2616 X-INVALID-ORDER-2616 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_3C_4C_5R_1R_4s + C_3C_5R_1$ $H(s) = \frac{C_3C_4C_5R_1R_4s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_5 - C_5C_6 + s^3\left(C_1C_2C_4C_5C_6R_1R_4R_5 + C_2C_3C_4C_5C_6R_1R_4R_5\right) + s^2\left(C_1C_2C_4C_6R_1R_4 + C_1C_2C_5C_6R_1R_5 + C_1C_4C_5C_6R_1R_4 + C_1C_4C_5C_6R$

10.2617 X-INVALID-ORDER-2617 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_4R_6s^2 + C_3C_5R_1 + s\left(C_3C_4C_5R_1R_4 + C_3C_5C_6R_1R_4 + C_3C_5C_6R_1R$

10.2618 X-INVALID-ORDER-2618 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{C_2 + C_3 + C_4 - C_5 + s^4 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 R_1 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_4 R_5$

10.2619 X-INVALID-ORDER-2619 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_4R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_3C_4R_1R_4R_6 + C_3C_5R_1R_5R_6\right)}{s^3\left(C_1C_2C_4R_1R_4R_5 + C_1C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5 + C_1C_4R_1R_5 - C_1C_5R_1R_5 + C_2C_4R_4R_5 + C_2C_4R_4R_5 + C_3C_4R_4R_5 + C_3C$

10.2620 X-INVALID-ORDER-2620 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $C_3C_4C_5R_1R_4R_5s^2 + C_3R_1 + s\left(C_3C_4R_1R_4 + C_3C_5R_1R_5\right)$ $\frac{-C_6 + s^3 \left(C_1 C_2 C_4 C_6 R_1 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_4 R_5 + C_2 C_3 C_4 C_6 R_1 R_4 R_5 + C_2 C_3 C_4 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_5 + C_1 C_3 C_6 R_1 R_5 + C_1 C_3 C_6 R_1 R_5 + C_2 C_3$

10.2624 X-INVALID-ORDER-2624 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_1C_2C_6R_1R_4R_6 + C_1C_3C_6R_1R_4R_6 + C_1C_4C_6R_1R_4R_6 - C_1C_5C_6R_1R_4R_6 + C_2C_3C_6R_1R_4R_6 + C_1C_4R_1R_4 + C_1C_4R_1R_4 + C_1C_5R_1R_4 + C_1C_6R_1R_6 + C_2C_3R_1R_4 + C_2C_6R_4R_6 + C_3C_6R_4R_6 + C_4C_6R_4R_6 - C_5C_6R_4R_6 \right) + s\left(C_1R_1 + C_2R_4R_6 + C_3C_6R_4R_6 + C_3$

10.2625 X-INVALID-ORDER-2625 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_1C_2C_5R_1R_4R_5 + C_1C_3C_5R_1R_4R_5 + C_1C_4C_5R_1R_4R_5 + C_2C_3C_5R_1R_4R_5\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3R_1R_4 + C_1C_4R_1R_4 - C_1C_5R_1R_5 + C_2C_3R_1R_4 + C_2C_5R_4R_5 + C_3C_5R_4R_5 + C_4C_5R_4R_5\right) + s\left(C_1R_1 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4 + C_5R_5\right)}$

10.2626 X-INVALID-ORDER-2626 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_4s}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_5C_6R_1R_4 + C_1C_5C_6R_1R_4 + C_2C_5C_6R_4R_5 + C_3C_5C_6R_4R_5 + C_3C_5C_$

10.2627 X-INVALID-ORDER-2627 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_5C_6R_1R_4 +$

10.2628 X-INVALID-ORDER-2628 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{s^4 (C_1 C_2 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_1 R_4 R_5 R_6 + C_3 C_5 C_6 R_1 R_4 R_5 + C_1 C_2 C_6 R_1 R_4 R_5 + C_1 C_3 C_5 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_1 C_5 C_6 R_1 R_4 R_5 + C_1 C_5 C_6 R_1 R_4 R_5 + C_1 C_5 C_6 R_1 R_4$

10.2629 X-INVALID-ORDER-2629 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_1C_2C_6R_1R_4R_5R_6 + C_1C_3C_6R_1R_4R_5R_6 + C_1C_5C_6R_1R_4R_5R_6 + C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_1R_4R_5 + C_1C_3R_1R_4R_5 + C_1C_4R_1R_4R_5 - C_1C_5R_1R_4R_5 - C_1C_6R_1R_4R_5 + C_2C_3R_1R_4R_5 + C_2C_6R_4R_5R_5 + C_2C_3R_1R_4R_5 + C_2C_3R$

10.2630 X-INVALID-ORDER-2630 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_1 R_4 R_6 s}{C_1 C_2 C_3 R_1 R_3 R_4 R_5 s^3 - R_4 + R_5 + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_5 + C_1 C_3 R_1 R_4 R_5 + C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5\right) + s \left(-C_1 R_1 R_4 + C_1 R_1 R_5 + C_2 R_4 R_5 - C_3 R_3 R_4 + C_3 R_3 R_5 + C_3 R_4 R_5\right)}$

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10.2631 X-INVALID-ORDER-2631 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_3 R_1 R_4}{C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_5 s^3 - C_6 R_4 + C_6 R_5 + s^2 \left(C_1 C_2 C_6 R_1 R_4 R_5 - C_1 C_3 C_6 R_1 R_3 R_4 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 + C_1 C_6 R_1 R_5 + C_2 C_6 R_4 R_5 - C_3 C_6 R_3 R_4 + C_3 C_6 R_3 R_5 + C_3 C_6 R_4 R_5 \right)}$

10.2632 X-INVALID-ORDER-2632 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_4R_6s + C_3R_1R_4}{C_1C_2C_3C_6R_1R_3R_4R_5s^3 - C_6R_4 + C_6R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 - C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_5 + C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_3R_4\right)}$

10.2633 X-INVALID-ORDER-2633 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_1 R_4 R_6 s}{C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_5 R_6 s^4 - R_4 + R_5 + s^3 \left(C_1 C_2 C_3 R_1 R_3 R_4 R_5 + C_1 C_2 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_6 R_3 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_5 + C_1 C_3 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 R_5 + C_1 C_3 R_1 R_3 R_4 R_5 + C_1 C_3 R_1 R_3 R_4 R_5 + C_1 C_3 R_1 R_3 R_4 R_5 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_5 + C_1 C_3 R_1 R_3 R_4 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 R_5 + C_1 C_3 R_1 R_3 R_4 R_5 + C_1 C_3 R_1 R_3 R_4 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 - C_1 C_3 R_1 R_3 R_5 + C_1 C_3 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_3 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_4 R_5 R_6 + C_1 C_3 R_1 R_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 R_5 R_5 + C_1 C_3$

10.2634 X-INVALID-ORDER-2634 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_1C_2C_3R_1R_3R_4 - C_1C_3C_5R_1R_3R_4\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3R_1R_3 + C_1C_3R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4\right) + s\left(C_1R_1 + C_2R_4 + C_3R_3 + C_3R_4 - C_5R_4\right) + 1}$

10.2635 X-INVALID-ORDER-2635 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_4s}{C_6 + s^3\left(C_1C_2C_3C_6R_1R_3R_4 - C_1C_3C_5C_6R_1R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_5C_6R_1R_4 + C_2C_3C_6R_1R_4 + C_2C_3C_6R_3R_4 - C_3C_5C_6R_3R_4\right) + s\left(C_1C_6R_1 + C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 - C_5C_6R_4\right)}$

10.2636 X-INVALID-ORDER-2636 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_6 + s^3\left(C_1C_2C_3C_6R_1R_3R_4 - C_1C_3C_5C_6R_1R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_5C_6R_1R_4 + C_2C_3C_6R_1R_4 + C_2C_3C_6R_3R_4 - C_3C_5C_6R_3R_4\right) + s\left(C_1C_6R_1 + C_2C_6R_4 + C_3C_6R_3 + C_3C_6R_4 - C_5C_6R_4\right)}$

10.2637 X-INVALID-ORDER-2637 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^4\left(C_1C_2C_3C_6R_1R_3R_4R_6 - C_1C_3C_5C_6R_1R_3R_4R_6\right) + s^3\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_6 + C_1C_3C_6R_1R_4R_6 + C_2C_3C_6R_1R_4R_6 + C_2C_3C_6R_3R_4R_6\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_6 + C_2C_3C_6R_1R_4R_6 + C_2C_3C_6R_3R_4R_6\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_6 + C_2C_3C_6R_1R_4R_6 + C_2C_3C_6R_3R_4R_6\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_6\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_6\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3C_6R_1R_4R_6\right) + s^2\left(C_1C_2R_1R_4R_6\right) + s^2\left(C_1C_2R_$

10.2638 X-INVALID-ORDER-2638 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{C_1C_2C_3C_5R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_3R_1R_3R_4 + C_1C_2C_5R_1R_4R_5 - C_1C_3C_5R_1R_3R_4 + C_1C_3C_5R_1R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_2C_3$

10.2639 X-INVALID-ORDER-2639 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_4s}{C_1C_2C_3C_5C_6R_1R_3R_4R_5s^4 + C_6 + s^3\left(C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_5C_6R_1R_4R_5 - C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_3R_4R_5\right) + s^2\left(C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_3C$

10.2640 X-INVALID-ORDER-2640 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_1R_4s}{C_1C_2C_3C_5C_6R_1R_3R_4F_5s^4 + C_6 + s^3\left(C_1C_2C_3C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_$

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10.2641 X-INVALID-ORDER-2641 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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10.2642 X-INVALID-ORDER-2642 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_5R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_1C_2C_3R_1R_3R_4R_5 - C_1C_3C_5R_1R_3R_4R_5 - C_1C_3R_1R_3R_4 + C_1C_3R_1R_3R_4 + C_1C_3R_1R_3R_5 + C_1C_3R_1R_4R_5 + C_2C_3R_1R_4R_5 + C_2C_3R_3R_4R_5 - C_3C_5R_3R_4R_5 \right) + s\left(-C_1R_1R_4 + C_1R_1R_5 + C_2R_4R_5 - C_3R_3R_4 + C_3R_3R_5 + C_3R_3R_4R_5 - C_3C_5R_3R_4R_5 + C_3C_3R_3R_4R_5 - C_3C_5R_3R_4R_5 + C_3C_3R_3R_4R_5 - C_3C_5R_3R_4R_5 - C_3C_5R_3R_4R_5 \right) + s\left(-C_1R_1R_4 + C_1R_1R_5 + C_2R_4R_5 - C_3R_3R_4R_5 - C_3C_5R_3R_4R_5 - C_3C_5R_5R_5R_5 - C_3C_5R_5R_5R_5R_5 - C_3C_5R_5R_5R_5 - C_3C_5R_5R_5 - C_3C_5R_5R_5 - C_3C_5R_5R_5 - C_3C_5R_5R_5 -$

10.2643 X-INVALID-ORDER-2643 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_5s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_3R_4R_5 - C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 - C_3C_5C_6R_3R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 - C_3C_5C_6R_3R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 - C_3C_5C_6R_3R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_5C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_5C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_5C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4R$

10.2644 X-INVALID-ORDER-2644 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_4R_5R_6s^2 + C_3R_1R_4 + s\left(C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_3R_4R_5 - C_1C_3C_6R_1R_3R_4R_5 - C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_5 - C_1C_5C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 - C_3C_5C_6R_3R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_4 + C_1C_6R_1R_4 + C_1C_6R_1R_4 + C_1C_6R_1R_4 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 - C_3C_5C_6R_3R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 - C_1C_3C_6$

10.2645 X-INVALID-ORDER-2645 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{-R_4 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_5 R_6 - C_1 C_3 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_2 C_6 R_1 R_3 R_4 R_5 - C_1 C_3 C_6 R_1 R_4 R_5 R_6 - C_1 C_5 C_6 R_1 R_4 R_5 R_6 + C_2 C_3 C_6 R_1 R_4$

10.2646 X-INVALID-ORDER-2646 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_1 R_6 s}{s^3 \left(C_1 C_2 C_3 R_1 R_3 R_5 + C_1 C_3 C_4 R_1 R_3 R_5\right) + s^2 \left(C_1 C_2 R_1 R_5 - C_1 C_3 R_1 R_3 + C_1 C_3 R_1 R_5 + C_1 C_4 R_1 R_5 + C_2 C_3 R_1 R_5 + C_2 C_3 R_3 R_5 + C_3 C_4 R_3 R_5\right) + s \left(-C_1 R_1 + C_2 R_5 - C_3 R_3 + C_3 R_5 + C_4 R_5\right) - 1}$

10.2647 X-INVALID-ORDER-2647 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1}{-C_6 + s^3 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_5 + C_1 C_3 C_4 C_6 R_1 R_3 R_5\right) + s^2 \left(C_1 C_2 C_6 R_1 R_5 - C_1 C_3 C_6 R_1 R_5 + C_1 C_4 C_6 R_1 R_5 + C_2 C_3 C_6 R_1 R_5 + C_2 C_3 C_6 R_3 R_5 + C_3 C_4 C_6 R_3 R_5\right) + s \left(-C_1 C_6 R_1 + C_2 C_6 R_5 - C_3 C_6 R_3 + C_3 C_6 R_5 + C_4 C_6 R_5\right)}$

10.2648 X-INVALID-ORDER-2648 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_6s + C_3R_1}{-C_6 + s^3\left(C_1C_2C_3C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5\right) + s^2\left(C_1C_2C_6R_1R_5 - C_1C_3C_6R_1R_3 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_3C_4C_6R_3R_5\right) + s\left(-C_1C_6R_1 + C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 + C_4C_6R_5\right)}$

10.2649 X-INVALID-ORDER-2649 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3 R_1 R_6 s}{s^4 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_4 R_1 R_3 R_5 + C_1 C_2 C_6 R_1 R_5 R_6 + C_1 C_3 C_6 R_1 R_3 R_6 + C_1 C_3 C_6 R_1 R_5 R_6 + C_1 C_3 C_6 R_1 R_5 R_6 + C_2 C_3 C_6 R_1 R_5 R_6 + C_2 C_3 C_6 R_1 R_5 R_6 + C_3 C_4 C_6 R_3 R_5 R_6 + C_3 C_4 C_6 R_5 R_5 R_6 + C_3 C_5 R_5 R_6 + C_3 C_5 R_5 R_6 + C_5 C_5 R_5 R_5 R_6 + C_5 C_5 R_$

10.2650 X-INVALID-ORDER-2650 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_3C_6R_1R_3R_6 + C_1C_3C_4C_6R_1R_3R_6 + C_1C_3C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_3C_6R_1R_6 + C_1C_3C_6R_1R_6 + C_1C_3C_6R_1R_6 + C_2C_3C_6R_1R_6 +$

10.2651 X-INVALID-ORDER-2651 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_3C_5R_1R_3R_5 + C_1C_3C_4C_5R_1R_3R_5\right) + s^2\left(C_1C_2C_3R_1R_3 + C_1C_3C_5R_1R_5 + C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + C_2C_3C_5R_1R_5 + C_2C_3C_5R_3R_5 + C_3C_4C_5R_3R_5\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + C_2C_3C_5R_1R_5 + C_2C_3C_5R_3R_5 + C_3C_4C_5R_3R_5\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + C_2C_3C_5R_1R_5 + C_2C_3C_5R_3R_5 + C_3C_4C_5R_3R_5\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + C_2C_3C_5R_1R_5 + C_2C_3C_5R_3R_5 + C_3C_4C_5R_3R_5\right) + s\left(C_1C_2R_1 + C_1C_3R_1R_3 + C_1C_3C_5R_1R_3 + C_1C_3C_$

10.2652 X-INVALID-ORDER-2652 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\frac{C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_3R_5 + C_1C_3C_4C_5C_6R_1R_3 + C_1C_2C_5C_6R_1R_3 + C_1C_3C_5C_6R_1R_3 + C_1C_3C_5C_6R_1R_5 + C_1C_5C_5C_6R_1R_5 + C_1C_5C_5C_6R_1R_5 + C_1C_5C_5C_6R_1R_5 + C_1C_5C_5C_6R_1R_5 + C_1C_5C_5C_6R_1R_5 + C_1C_5C$

10.2653 X-INVALID-ORDER-2653 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_6s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_3R_5 + C_1C_3C_4C_5R_1R_3 + C_1C_2C_5C_6R_1R_5 + C_1C_3C_5C_6R_1R_5 + C_1C_3C_5C_6R_1R_5 + C_1C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_5C_6R_1R_5 + C_$

10.2654 X-INVALID-ORDER-2654 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{C_2 + C_3 + C_4 - C_5 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_4 C_5 R_1 R_3 R_5 + C_1 C_2 C_3 C_6 R_1 R_3 R_6 + C_1 C_2 C_5 C_6 R_1 R_3 R_6 + C_1 C_2 C_5 C_6 R_1 R_3 R_6 + C_1 C_3 C_4 C_5 R_1 R_3 R_6 + C_1 C_3 C_5 C_6 R_1 R_5 R_6 + C_1 C_5 C_5 C$

10.2655 X-INVALID-ORDER-2655 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_5R_6s^2 + C_3R_1R_6s}{s^3\left(C_1C_2C_3R_1R_3R_5 + C_1C_3C_4R_1R_3R_5 - C_1C_3C_5R_1R_3R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_3R_1R_3 + C_1C_3R_1R_5 + C_2C_3R_1R_5 + C_2C_3R_3R_5 + C_3C_4R_3R_5 - C_3C_5R_3R_5\right) + s\left(-C_1R_1 + C_2R_5 - C_3R_3 + C_3R_5 + C_4R_5 - C_5R_5\right) - 1}$

10.2656 X-INVALID-ORDER-2656 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

10.2657 X-INVALID-ORDER-2657 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_5R_6s^2 + C_3R_1 + s\left(C_3C_5R_1R_5 + C_3C_6R_1R_6\right)}{-C_6 + s^3\left(C_1C_2C_3C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 - C_1C_3C_5C_6R_1R_3R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_3C_4C_6R_3R_5 - C_3C_5C_6R_3R_5\right) + s\left(-C_1C_6R_1 + C_2C_6R_5 - C_3C_5C_6R_3R_5 + C_3C_5C_5C_6R_3R_5 + C_3C_5C_5C_6R_3R_5 + C_3C_5C_5C_6R_3R_5 + C_3C_5C_5C_6R_3R_5 + C_3C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5$

10.2658 X-INVALID-ORDER-2658 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $\overline{s^4 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_5 R_6 - C_1 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_2 C_6 R_1 R_3 R_5 + C_1 C_2 C_6 R_1 R_3 R_5 - C_1 C_3 C_6 R_1 R_3 R_5 - C_1 C_3 C_6 R_1 R_3 R_6 + C_1 C_3 C_6 R_1 R_5 R_6 + C_1 C_5 C$

10.2659 X-INVALID-ORDER-2659 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $C_3C_4R_1R_4R_6s^2 + C_3R_1R_6s$

 $H(s) = \frac{C_3C_4R_1R_4R_6s^2 + C_3R_1R_6s}{C_1C_2C_3C_4R_1R_3R_4R_5s^4 + s^3\left(C_1C_2C_3R_1R_3R_5 + C_1C_2C_4R_1R_4R_5 - C_1C_3C_4R_1R_3R_4 + C_1C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_$

10.2660 X-INVALID-ORDER-2660 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{\frac{C_3C_4R_1R_4R_5 + C_2C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_4R_5 + C_1C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_$

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10.2661 X-INVALID-ORDER-2661 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
```

 $C_3C_4C_6R_1R_4R_6s^2 + C_3R_1 + s\left(C_3C_4R_1R_4 + C_3C_6R_1R_6\right)$

 $H(s) = \frac{C_3C_4C_6R_1R_4R_6s^2 + C_3R_1 + s\left(C_3C_4R_1R_4 + C_3C_6R_1R_6\right)}{C_1C_2C_3C_4C_6R_1R_3R_4R_5s^4 - C_6 + s^3\left(C_1C_2C_3C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4C_5 + C_2C_3C_4C_6R_1R_4C_5 + C_2C_3C_4C_6R_1R_4C_5 + C_2C$

10.2662 X-INVALID-ORDER-2662 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_3R_4R_5R_6s^5 + s^4\left(C_1C_2C_3C_4R_1R_3R_4R_5 + C_1C_2C_3C_6R_1R_3R_5R_6 + C_1C_3C_4C_6R_1R_3R_5R_6 + C_1C_3C_4C_6R_1R_3R_5R_6 + C_1C_3C_4C_6R_1R_4R_5R_6 + C_2C_3C_4C_6R_1R_4R_5R_6 + C_2C_3C_4C_6R_1R_4R_$

10.2663 X-INVALID-ORDER-2663 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_3C_4R_1R_3R_4 - C_1C_3C_4R_1R_3 + C_1C_2C_4R_1R_4 + C_1C_3C_4R_1R_4 + C_1C_3C_4R_1R_4 + C_2C_3C_4R_1R_4 + C_2C_3C_4R_1R_4 + C_2C_3C_4R_3R_4 - C_3C_4C_5R_3R_4\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_3C_4R_1R_4 + C_2C_3C_4R_1R_4 + C_2C_3C_4R_1$

10.2664 X-INVALID-ORDER-2664 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_4s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3\left(C_1C_2C_3C_4C_6R_1R_3R_4 - C_1C_3C_4C_6R_1R_3 + C_1C_2C_4C_6R_1R_4 + C_1C_3C_4C_6R_1R_4 + C_1C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_1R_4 + C_2C_$

10.2665 X-INVALID-ORDER-2665 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_4R_6s^2 + C_3C_5R_1 + s\left(C_3C_4C_5R_1R_4 + C_3C_5C_6R_1R_6\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3\left(C_1C_2C_3C_4C_6R_1R_3R_4 - C_1C_3C_4C_6R_1R_3 + C_1C_3C_4C_6R_1R_4 + C_1C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_1R_4$

10.2666 X-INVALID-ORDER-2666 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{C_2 + C_3 + C_4 - C_5 + s^4 \cdot (C_1 C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_6 - C_1 C_3 C_4 C_5 R_1 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_3 R_6 + C_1 C_3 C_4 C$

10.2667 X-INVALID-ORDER-2667 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

10.2668 X-INVALID-ORDER-2668 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

10.2669 X-INVALID-ORDER-2669 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

10.2670 X-INVALID-ORDER-2670 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_3R_4R_5R_6s^5 + C_2 + C_3 + C_4 - C_5 + s^4(C_1C_2C_3C_4C_5R_1R_3R_4R_5 + C_1C_2C_3C_4C_6R_1R_3R_4R_6 + C_1C_2C_4C_5C_6R_1R_3R_4R_6 + C_1C_3C_4C_5C_6R_1R_3R_4R_6 + C_1C_3C_4C_5C_6R_1R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_3R_4C_5C_6R_1R_3R_5C_6R_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_5C_5C_5$

10.2671 X-INVALID-ORDER-2671 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_4R_5R_6s^\circ + C_3R_1R_6s + s^2}{s^4\left(C_1C_2C_3C_4R_1R_3R_4R_5 - C_1C_3C_4R_1R_3R_4 + C_1C_3C_4R_1R_3R_4 + C_1C_3C_4R_1R_3R_5 + C_1C_$

10.2672 X-INVALID-ORDER-2672 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{-C_6 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_5 - C_1 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_4 R_5 - C_1 C_3 C_4 C_6 R_1 R_3 R_5 + C_1 C_3 C_4 C_6 R_1 R_4 R_5 - C_1 C_3 C_5 C_6 R_1 R_3 R_5 - C_1 C_4 C_5 C_6 R_1 R_4 R_5 + C_2 C_3 C_4 C_6 R_1 R_4 R_5 + C_2 C_3 C_4 C_6 R_1 R_4 R_5 + C_2 C_3 C_4 C_6 R_1 R_4 R_5 - C_1 C_3 C_4 C_6 R_1 R_4 R_5 - C_1 C_3 C_4 C_6 R_1 R_4 R_5 - C_1 C_3 C_4 C_6 R_1 R_4 R_5 + C_2 C_3 C_4 C_6 R$

10.2673 X-INVALID-ORDER-2673 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_4R_5R_6s^3 + C_3C_4C_5C_6R_1R_3R_4R_5 - C_1C_3C_4C_6R_1R_3R_4R_5 - C_1C_3C_4C_6R_1R_3R_4 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 - C_1C_4C_5C_6R_1R_4R_5 - C_1C_3C_4C_6R_1R_4R_5 - C_1C_3C$

10.2674 X-INVALID-ORDER-2674 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 - C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 R_1 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_5 - C_1 C_3 C_4 C_6 R_1 R_3 R_5 - C_1 C_3 C_4 C_6 R_1 R_5 - C_1 C_5 C_6 R_1 R_5 - C_1 C_$

10.2675 X-INVALID-ORDER-2675 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

10.2676 X-INVALID-ORDER-2676 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1 R_4}{-C_6 R_4 + C_6 R_5 + s^3 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_5 \right) + s^2 \left(C_1 C_2 C_6 R_1 R_4 R_5 - C_1 C_3 C_6 R_1 R_3 R_4 + C_1 C_3 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_3 R_4 R_5 + C_3 C_4 C_6 R_3 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_3 R_4 R_5 + C_3 C_4 C_6 R_3 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_3 R_4 R_5 + C_3 C_4 C_6 R_3 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_3 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 + C_2 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_3 C_6 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_5 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_5 R_1 R_4 R_5 \right) + s \left(-C_1 C_6 R_1 R_4 R_5 + C_1 C_5 R_1 R_4 R_5 \right) + s \left(-C_$

10.2677 X-INVALID-ORDER-2677 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_4R_6s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 - C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 - C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 + C_3C_4C_6R_3R_4R_5 \right) + s\left(-C_1C_6R_1R_4R_5 - C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 + C_3C_4C_6R_3R_4R_5 + C_$

10.2678 X-INVALID-ORDER-2678 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $-R_4 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_6 R_1 R_4 R_5 R$

10.2679 X-INVALID-ORDER-2679 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_6s^2}{s^3\left(C_1C_2C_3R_1R_3R_4 + C_1C_3C_4R_1R_3R_4 - C_1C_3C_5R_1R_3R_4\right) + s^2\left(C_1C_2R_1R_4 + C_1C_3R_1R_3 + C_1C_3R_1R_4 + C_1C_4R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_3R_4 + C_3C_4R_3R_4 - C_3C_5R_3R_4\right) + s\left(C_1R_1 + C_2R_4 + C_3R_3 + C_4R_4 - C_5R_4\right) + 1}$

10.2680 X-INVALID-ORDER-2680 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

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10.2681 X-INVALID-ORDER-2681 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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10.2682 X-INVALID-ORDER-2682 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_6 - C_1 C_3 C_5 C_6 R_1 R_3 R_4 R_6 + C_1 C_2 C_6 R_1 R_3 R_4 + C_1 C_3 C_6 R_1 R_4 R_6 +$

10.2683 X-INVALID-ORDER-2683 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_5}{s^4\left(C_1C_2C_3C_5R_1R_3R_4R_5 + C_1C_3C_4R_1R_3R_4 + C_1C_2C_5R_1R_4R_5 + C_1C_3C_5R_1R_3R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_3C_5R_1R_3R_4 + C_1C_3C_5R_1R_4R_5 + C_1C_3C_5R_1R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_1$

10.2684 X-INVALID-ORDER-2684 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_3 R_4 + C_1 C_2 C_5 C_6 R_1 R_3 R_4 + C_1 C_3 C_5 C_6 R_1 R_4 R_5 + C_1 C_3 C_5 C_6 R_1 R_5 R_5 + C_1 C_5 C_6 R_1 R_5 R_5 + C$

10.2685 X-INVALID-ORDER-2685 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_3 R_4 + C_1 C_2 C_5 C_6 R_1 R_3 R_4 + C_1 C_3 C_5 C_6 R_1 R_4 R_5 + C_1 C_3 C_5 C_6 R_1 R_5 R_5 + C_1 C_3 C_5 C_6 R_1 R_5 R_5 + C_1 C_5 C$

10.2686 X-INVALID-ORDER-2686 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 R_1 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_5 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_5 R_5 + C_1 C_5 C_5 C_6 R_1 R_5 R_5 + C_1 C_5 C_5 R_5 R_5 R_5 + C_1 C_5 C_5 R_5 R_5$

10.2687 X-INVALID-ORDER-2687 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

10.2688 X-INVALID-ORDER-2688 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_4R_5s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 - C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5$

10.2689 X-INVALID-ORDER-2689 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_4R_5R_6s^2 + C_3R_1R_4 + s\left(C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_1$

10.2690 X-INVALID-ORDER-2690 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{-R_4 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 - C_1 C_3 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_2 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_4 R_1 R_3 R_4 R_5 - C_1 C_3 C_6 R_1$

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10.2691 X-INVALID-ORDER-2691 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                  H(s) = \frac{C_3R_1R_3R_4s + R_1R_4}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5\right) + s^2\left(-C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_5 + C_1C_6R_1R_4R_5 + C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.2692 X-INVALID-ORDER-2692 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                  H(s) = \frac{C_3C_6R_1R_3R_4R_6s^2 + R_1R_4 + s\left(C_3R_1R_3R_4 + C_6R_1R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5\right) + s^2\left(-C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_5 + C_1C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5\right) + s\left(-C_6R_3R_4 + C_6R_3R_5 + C_6R_4R_5\right)}
10.2693 X-INVALID-ORDER-2693 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_3R_1R_3R_4R_6s + R_1R_4R_6
H(s) = \frac{C_3R_1R_3R_4R_6s + R_1R_4R_6}{-R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_1C_2C_6R_1R_3R_4R_5R_6 + C_2C_3C_6R_1R_3R_4R_5R_6 + C_2C_3C_6R_1R_3R_4R_5 + C_1C_3R_1R_3R_4R_5 + C_1C_6R_1R_3R_4R_5 + C_1C_6R_1R_3R_4R_5 + C_1C_6R_1R_3R_4R_5 + C_2C_6R_1R_3R_4R_5 + C_2C
10.2694 X-INVALID-ORDER-2694 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                        \frac{C_{3}C_{5}R_{1}R_{3}R_{4}R_{6}s^{2}+C_{5}R_{1}R_{4}R_{6}s}{R_{3}+R_{4}+s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}R_{6}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{3}R_{1}R_{3}R_{4}+C_{1}C_{5}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}
10.2695 X-INVALID-ORDER-2695 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{R_3 + R_4 + s^3\left(C_1C_2C_5R_1R_3R_4R_5 + C_1C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_1R_3R_4R_5 + C_1C_5R_1R_3R_4 +
10.2696 X-INVALID-ORDER-2696 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)
                                        \frac{C_{3}C_{5}R_{1}R_{3}R_{4}s+C_{5}R_{1}R_{4}}{C_{6}R_{3}+C_{6}R_{4}+s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{2}C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{5}+C
10.2697 X-INVALID-ORDER-2697 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s\left(C_3C_5R_1R_3R_4 + C_5C_6R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_3R_4R_5 + C_2C_3C_5C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_2C_5C_6R_1R_3R_4 + C_2C_5C_6R_1R_3R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s(C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6)
10.2698 X-INVALID-ORDER-2698 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
                                        \overline{R_{3} + R_{4} + s^{4} \left( C_{1} C_{2} C_{5} C_{6} R_{1} R_{3} R_{4} R_{5} R_{6} + C_{1} C_{3} C_{5} C_{6} R_{1} R_{3} R_{4} R_{5} R_{6} + C_{2} C_{3} C_{5} C_{6} R_{1} R_{3} R_{4} R_{5} + C_{1} C_{2} C_{6} R_{1} R_{3} R_{4} R_{5} + C_{1} C_{3} C_{6} R_{1} R_{3} R_{4} R_{5} + C_{1} C_{3} C_{6} R_{1} R_{3} R_{4} R_{5} + C_{1} C_{5} C_{6} R_{1} R_{3} R_{4} R_{5} + C_{1} C
10.2699 X-INVALID-ORDER-2699 Z(s) = \begin{pmatrix} \frac{R_1}{C_1 R_1 s + 1}, & \frac{1}{C_2 s}, & \frac{R_3}{C_3 R_3 s + 1}, & R_4, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{1}{C_6 s} \end{pmatrix}
 H(s) = \frac{C_3C_5R_1R_3R_4R_5s^2 + R_1R_4 + s\left(C_3R_1R_3R_4 + C_5R_1R_4R_5\right)}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 
10.2700 X-INVALID-ORDER-2700 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                                        \frac{C_3C_5C_6R_1R_3R_4R_5R_6s^3 + R_1R_4 + s^2\left(C_3C_5R_1R_3R_4R_5 + C_3C_6R_1R_3R_4R_6 + C_5C_6R_1R_4R_5R_6\right) + s\left(C_3R_1R_3R_4 + C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5 + C_2C_6R_1R_4R_5 + C_2C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_3C_6R_3R_4R_5 + C
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10.2701 X-INVALID-ORDER-2701 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{C_3C_5R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_5R_6 + C_1C_5R_1R_3R_4R_5 + C_1C_5R_1R_3R_4R_5 + C_1C_5R_1R_3R_4R_5 + C_1C_5R_1R_3R_4R_5 + C_1C_6R_1R_3R_4R_5 + C_1C_6R_1R_3R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C_1C_6R_1R_5 + C$

10.2702 X-INVALID-ORDER-2702 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1 R_3 s + R_1}{s^3 \left(C_1 C_2 C_6 R_1 R_3 R_5 + C_1 C_3 C_6 R_1 R_3 R_5 + C_1 C_4 C_6 R_1 R_3 R_5 + C_2 C_3 C_6 R_1 R_3 R_5 \right) + s^2 \left(-C_1 C_6 R_1 R_3 + C_1 C_6 R_1 R_5 + C_2 C_6 R_1 R_5 + C_2 C_6 R_3 R_5 + C_3 C_6 R_3 R_5 + C_4 C_6 R_3 R_5 \right) + s \left(-C_6 R_3 + C_6 R_5 \right)}$

10.2703 X-INVALID-ORDER-2703 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_3R_6s^2 + R_1 + s\left(C_3R_1R_3 + C_6R_1R_6\right)}{s^3\left(C_1C_2C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_2C_3C_6R_1R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

10.2704 X-INVALID-ORDER-2704 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $\frac{C_{3}R_{1}R_{3}R_{6}s + R_{1}R_{6}}{-R_{3} + R_{5} + s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}R_{6} + C_{1}C_{3}C_{6}R_{1}R_{3}R_{5}R_{6} + C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}R_{6} + C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}R_{6} + C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}R_{6} + C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}R_{6} + C_{2}C_{3}R_{1}R_{3}R_{5} + C_{1}C_{4}R_{1}R_{3}R_{5} + C_{1}C_{4}R_{1}R_{3}R_{5} + C_{1}C_{4}R_{1}R_{3}R_{5} + C_{1}C_{6}R_{1}R_{3}R_{5} + C_{2}C_{6}R_{1}R_{3}R_{5} + C_{2}C_{6}R_{1}R_{$

10.2705 X-INVALID-ORDER-2705 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_6s^2 + C_5R_1R_6s}{s^3\left(C_1C_2C_6R_1R_3R_6 + C_1C_3C_6R_1R_3R_6 + C_1C_5C_6R_1R_3R_6 + C_2C_3C_6R_1R_3R_6 + C_2C_3C_6R_1R_3R_6 + C_2C_3R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_3 + C_2C_6R_1R_6 + C_2C_6R_3R_6 + C_3C_6R_3R_6 + C_4C_6R_3R_6 + C_3C_6R_3R_6 + C_4C_6R_3R_6 + C_$

10.2706 X-INVALID-ORDER-2706 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $\frac{C_{3}C_{5}R_{1}R_{3}R_{6}s^{2}+C_{5}R_{1}R_{6}s}{s^{3}\left(C_{1}C_{2}C_{5}R_{1}R_{3}R_{5}+C_{1}C_{3}C_{5}R_{1}R_{3}R_{5}+C_{1}C_{4}C_{5}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{5}R_{1}R_{3}R_{5}\right)+s^{2}\left(C_{1}C_{2}R_{1}R_{3}+C_{1}C_{3}R_{1}R_{3}+C_{1}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{5}+C_{2}C_{5}R_{3}R_{5}+C_{3}C_{5}R_{3}R_{5}+C_{4}C_{5}R_{3}R_{5}\right)+s\left(C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{1}C_{5}R_{1}R_{3}+C_{1}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{3}R_{5}+C_{4}C_{5}R_{3}R_{5}+C_{4}C_{5}R_{3}R_{5}\right)+s\left(C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{1}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{3}R_{5}+C_{4}C_{5}R_{3}R_{5}\right)+s\left(C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{3}R_{5}+C_{4}C_{5}R_{3}R_{5}\right)+s\left(C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{3}R_{5}+C_{4}C_{5}R_{3}R_{5}\right)+s\left(C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{3}R_{5}+C_{4}C_{5}R_{3}R_{5}\right)+s\left(C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_{3}R_{5}+C_{4}C_{5}R_{3}R_{5}\right)+s\left(C_{1}R_{1}+C_{2}R_{1}+C_{2}R_{3}+C_{2}C_{5}R_{1}R_{3}+C_{2}C_{5}R_$

10.2707 X-INVALID-ORDER-2707 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_3s + C_5R_1}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_3R_5 + C_1C_3C_5C_6R_1R_3R_5 + C_2C_3C_5C_6R_1R_3R_5 + C_2C_3C_5C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_5C_6R_1R_3 + C_1C_5C_6R_1R_3 + C_1C_5C_6R_1R_3 + C_2C_5C_6R_1R_3 +$

10.2708 X-INVALID-ORDER-2708 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_3R_6s^2 + C_5R_1 + s\left(C_3C_5R_1R_3 + C_5C_6R_1R_6\right)}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_3R_5 + C_1C_3C_5C_6R_1R_3R_5 + C_2C_3C_5C_6R_1R_3R_5 + C_2C_3C_5C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_2C_5C_6R_1R_3 + C_2C_5C_6R$

10.2709 X-INVALID-ORDER-2709 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_3 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_3 C_5 C_6 R_1 R_3 R_5 + C_1 C_2 C_6 R_1 R_3 R_5 + C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_5 R_5 + C_1 C_4 C_5 R_1 R_5 R_5 + C_1 C_4 C_5 R_1 R_5 R_5 + C_1 C_5 R_1 R_5 R_5$

10.2710 X-INVALID-ORDER-2710 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_3R_5s^2 + R_1 + s\left(C_3R_1R_3 + C_5R_1R_5\right)}{s^3\left(C_1C_2C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_1C_5C_6R_1R_3R_5 + C_2C_3C_6R_1R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_4C_6R_3R_5 - C_5C_6R_3R_5\right) + s\left(-C_6R_3 + C_6R_5\right)}$

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10.2711 X-INVALID-ORDER-2711 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                                                                                     H(s) = \frac{C_3C_5C_6R_1R_3R_5R_6s^3 + R_1 + s^2\left(C_3C_5R_1R_3R_5 + C_3C_6R_1R_3R_6 + C_5C_6R_1R_5R_6\right) + s\left(C_3R_1R_3 + C_5R_1R_5 + C_6R_1R_6\right)}{s^3\left(C_1C_2C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_1C_5C_6R_1R_3R_5 + C_2C_3C_6R_1R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_1R_5 + C_2C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5\right) + s\left(-C_6R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5\right) + s\left(-C_6R_3R_5 + C_3C_6R_1R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5\right) + s\left(-C_6R_3R_5 + C_3C_6R_3R_5 + C_3C
10.2712 X-INVALID-ORDER-2712 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_3R_5R_6s^2 + R_1R_6 + s\left(C_3R_1R_3R_5R_6 + C_5R_1R_5R_6\right)}{-R_3 + R_5 + s^3\left(C_1C_2C_6R_1R_3R_5R_6 + C_1C_3C_6R_1R_3R_5R_6 + C_1C_5C_6R_1R_3R_5R_6 + C_2C_3C_6R_1R_3R_5R_6\right) + s^2\left(C_1C_2R_1R_3R_5 + C_1C_4R_1R_3R_5 - C_1C_5R_1R_3R_5 - C_1C_6R_1R_3R_6 + C_2C_3R_1R_3R_5 + C_2C_6R_1R_3R_5 + C_2C_6R_
10.2713 X-INVALID-ORDER-2713 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_3C_4R_1R_3R_4R_6s^2 + R_1R_6 + s\left(C_3R_1R_3R_6 + C_4R_1R_4R_6\right)}{-R_3 + R_5 + s^3\left(C_1C_2C_4R_1R_3R_4R_5 + C_1C_3C_4R_1R_3R_4R_5 + C_2C_3C_4R_1R_3R_4R_5 + C_1C_4R_1R_3R_5 + C_1C_4R_1R_3R_5 + C_1C_4R_1R_3R_5 + C_1C_4R_1R_3R_5 + C_2C_4R_1R_4R_5 + C_2C_4R_3R_4R_5 + C_3C_4R_3R_4R_5 + C_3C_4
10.2714 X-INVALID-ORDER-2714 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)
                                                \frac{C_{3}C_{4}R_{1}R_{3}R_{4}s^{2} + R_{1} + s\left(C_{3}R_{1}R_{3} + C_{4}R_{1}R_{4}\right)}{s^{4}\left(C_{1}C_{2}C_{4}C_{6}R_{1}R_{3}R_{4}F_{5} + C_{1}C_{3}C_{4}C_{6}R_{1}R_{3}R_{4}F_{5} + C_{1}C_{3}C_{4}C_{6}R_{1}R_{3}R_{4} + C_{1}C_{4}C_{6}R_{1}R_{3}R_{5} + C_{1}C_{4}C_{6}
10.2715 X-INVALID-ORDER-2715 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_4C_6R_1R_3R_4R_6s^3 + R_1 + s^2\left(C_3C_4R_1R_3R_4 + C_3C_6R_1R_3R_6 + C_4C_6R_1R_4R_6\right) + s\left(C_3R_1R_3 + C_4R_1R_4 + C_6R_1R_6\right)}{s^4\left(C_1C_2C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4 + C_1C_4C_6R_1R_3R_4 + C_1C_4C_6R_1R_4R_5 + C_2C_4C_6R_1R_4R_5 + C_2C_4C_6R_1R_4R_5
10.2716 X-INVALID-ORDER-2716 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-R_3 + R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_3 R_4 R_5 + C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_4 R_5 + C_1 C_4 C_6 R_1 R_5 + C_1 C_4 C_6 R_1 R_5 + C_1 C_4 C_6 R_1 R_5
10.2717 X-INVALID-ORDER-2717 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)
H(s) = \frac{C_3C_4C_5R_1R_3R_4R_6s^3 + C_5R_1R_3R_6 + C_4C_5R_1R_3R_6 + C_4C_5R_1R_4R_6)}{s^3\left(C_1C_2C_4R_1R_3R_4 + C_1C_3C_4R_1R_3R_4 + C_2C_3C_4R_1R_3R_4 + C_2C_3C_4R_1R_3R_4 + C_2C_4R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_4 + C_2C_4R_3R_4 + C_3C_4R_3R_4 + C_4C_5R_3R_4 + s\left(C_1R_1 + C_2R_1 + C_2R_3 + C_3R_3 + C_4R_3R_4 + C_4C_5R_3R_4 + C_
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10.2718 X-INVALID-ORDER-2718 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_3R_4s^2 + C_5R_1 + s\left(C_3C_5R_1R_3 + C_4C_5R_1R_4\right)}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_3R_4 + C_1C_3C_4C_6R_1R_3R_4 + C_2C_3C_4C_6R_1R_3R_4 + C_2C_3C_4C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_2C_4C_6R_1R_3 + C_2C_4C_6R_1R_3 + C_2C_4C_6R_1R_3 + C_2C_4C_6R_1R_4 + C_2C_4C_6R_3R_4 + C_3C_4C_6R_3R_4 + C_3C_4C_6R$

10.2719 X-INVALID-ORDER-2719 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_3R_4R_6s^3 + C_5R_1 + s^2\left(C_3C_4C_5R_1R_3R_4 + C_3C_5C_6R_1R_3R_6 + C_4C_5C_6R_1R_3R_6 + C_4C_5C_6R_1R_3 + C_4C_5R_1R_3 + C_4C_5R_1R_4 + C_5C_6R_1R_6\right)}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_3R_4 + C_1C_3C_4C_6R_1R_3R_4 + C_2C_3C_4C_6R_1R_3R_4 + C_2C_3C_4C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_2C_4C_6R_1R_3 + C_2C_4C_6R_1R_$

10.2720 X-INVALID-ORDER-2720 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_4 C_6 R_1 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_1 C_4 C_5 C_6 R_1 R_3 R_4 R_6 + C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_6 + C_1 C_2 C_4 R_1 R_3 R_4 + C_1 C_3 C_6 R_1 R_3 R_6 + C_1 C_4 C_5 R_1 R_3 R_4 + C_1 C_4 C_6 R_1 R$

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10.2721 X-INVALID-ORDER-2721 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)
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 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_1 R_3 R_4 + C_1 C_2 C_5 R_1 R_3 R_5 + C_1 C_3 C_4 R_1 R_3 R_4 + C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_4 C_5 R_1 R_3 R_4 + C_1 C_4 C_5 R_1 R_4 R_5 + C_1 C_4 C_5 R_1 R_5 + C_1 C_4 C$

10.2722 X-INVALID-ORDER-2722
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_1 R_3 R_4 + C_1 C_2 C_5 C_6 R_1 R_3 R_5 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 + C_1 C_3 C_5 C_6 R_1 R_3 R_4 + C_1 C$

10.2723 X-INVALID-ORDER-2723
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_1 R_3 R_4 + C_1 C_2 C_5 C_6 R_1 R_3 R_4 + C_1 C_3 C_5 C_6 R_1 R_3 R_4 + C_1 C_3 C_5 C_6 R_1 R_3 R_4 + C_1 C_4 C_5 C_6 R_1$

10.2724 X-INVALID-ORDER-2724
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_2 C_5 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_3 R_4 R_5 \right) \\ + s^$

10.2725 X-INVALID-ORDER-2725
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$$

 $H(s) = \frac{C_3C_4C_5R_1R_3R_4R_5R_6s^3 + R_1R_6 + s^2\left(C_3C_4R_1R_3R_4R_6 + C_3C_5R_1R_3R_5R_6 + C_4C_5R_1R_4R_5R_6\right) + s\left(C_3R_1R_3R_6 + C_4R_1R_4R_6 + C_5R_1R_4R_5R_6\right) + s\left(C_3R_1R_3R_6 + C_4R_1R_4R_6 + C_5R_1R_3R_6\right) + s\left(C_3R_1R_3R_4R_5 + C_4R_1R_4R_5 + C_4R_1R_3R_4R_5 + C_4R_$

10.2726 X-INVALID-ORDER-2726
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_4C_5R_1R_3R_4R_5s^3 + R_1 + s^2\left(C_3C_4R_1R_3R_4 + C_3C_5R_1R_3R_5 + C_4C_5R_1R_4R_5\right) + s^2\left(C_1C_2C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_4C_6R_1R_3R_4 + C_1C_4C_6R_1R$

10.2727 X-INVALID-ORDER-2727
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_3R_4R_5F_6s^4 + R_1 + s^3\left(C_3C_4C_5R_1R_3R_4R_5 + C_3C_4C_6R_1R_3R_4R_6 + C_3C_5C_6R_1R_3R_5R_6 + C_4C_5C_6R_1R_4R_5R_6\right) + s^2\left(C_3C_4R_1R_3R_4 + C_3C_5R_1R_3R_5 + C_3C_4C_6R_1R_3R_4R_5 + C_3C_4C_6R_1R_3R_4 + C_3C_4C_6R_1R_4R_5 + C_3C$

10.2728 X-INVALID-ORDER-2728
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{-R_3 + R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 - C_1 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 \right) \\ + s^3 \left(C_1 C_2 C_4 R_1 R_3 R_4 R_5 + C_1 C_3 C_4 R_1 R_3 R_4 R_5 + C_1 C_4 C_5 R_1 R_5 + C_1 C_4 C_5 R_1 R_5 + C_1 C_4 C$

10.2729 X-INVALID-ORDER-2729
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3R_1R_3R_4s + R_1R_4}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_4C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_2C_6R_3R_4R_5 + C_4C_6R_3R_4R_5 + C_4C_6R_3R_5 + C_4C_6R_3R_5 + C_4C_6R_5R_5 +$

10.2730 X-INVALID-ORDER-2730
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_6R_1R_3R_4R_6s^2 + R_1R_4 + s\left(C_3R_1R_3R_4 + C_6R_1R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5 + C_2C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_2C_6R_3R_4R_5 + C_4C_6R_3R_4R_5 + C$

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10.2731 X-INVALID-ORDER-2731 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $C_3R_1R_3R_4R_6s + R_1R_4R_6$

 $H(s) = \frac{C_3R_1R_3R_4R_6s + R_1R_4R_6}{-R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_1C_2C_6R_1R_3R_4R_5R_6 + C_1C_3C_6R_1R_3R_4R_5R_6 + C_2C_3C_6R_1R_3R_4R_5 + C_1C_4R_1R_3R_4R_5 + C_1C_4R_1R_3R_4R_5 + C_1C_6R_1R_3R_4R_5 + C_1C_6R_1R_5 + C_1C$

10.2732 X-INVALID-ORDER-2732 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{C_{3}C_{5}R_{1}R_{3}R_{4}R_{6}s^{2}+C_{5}R_{1}R_{4}R_{6}s}{R_{3}+R_{4}+s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{3}R_{4}R_{6}+C_{1}C_{3}C_{6}R_{1}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{3}R_{1}R_{3}R_{4}+C_{1}C_{4}R_{1}R_{3}R_{4}+C_{1}C_{5}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}$

10.2733 X-INVALID-ORDER-2733 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s$

 $H(s) = \frac{C_3C_5R_1R_3R_4R_6s^2 + C_5R_1R_4R_6s}{R_3 + R_4 + s^3\left(C_1C_2C_5R_1R_3R_4R_5 + C_1C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_1R_3R_4R_5 + C_2C_3R_1R_3R_4 + C_1C_4R_1R_3R_4 + C_1C_5R_1R_3R_4 +$

10.2734 X-INVALID-ORDER-2734 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\frac{C_{3}C_{5}R_{1}R_{3}R_{4}s+C_{5}R_{1}R_{4}}{C_{6}R_{3}+C_{6}R_{4}+s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{2}C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_$

10.2735 X-INVALID-ORDER-2735 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s\left(C_3C_5R_1R_3R_4 + C_5C_6R_1R_3R_4 + C_5C_6R_1R_3R$

10.2736 X-INVALID-ORDER-2736 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\overline{R_{3} + R_{4} + s^{4} \left(C_{1} C_{2} C_{5} C_{6} R_{1} R_{3} R_{4} R_{5} R_{6} + C_{1} C_{3} C_{5} C_{6} R_{1} R_{3} R_{4} R_{5} R_{6} + C_{1} C_{4} C_{5} C_{6} R_{1} R_{3} R_{4} R_{5} R_{6} + C_{2} C_{3} C_{5} C_{6} R_{1} R_{3} R_{4} R_{5} R_{6} + C_{1} C_{3} C_{5} R_{1} R_{3} R_{4} R_{5} + C_{1} C_{3} C_{5} R_{1} R_{3} R_{4$

10.2737 X-INVALID-ORDER-2737 $Z(s) = \begin{pmatrix} \frac{R_1}{C_1 R_1 s + 1}, & \frac{1}{C_2 s}, & \frac{R_3}{C_3 R_3 s + 1}, & \frac{R_4}{C_4 R_4 s + 1}, & \frac{R_5}{C_5 R_5 s + 1}, & \frac{1}{C_6 s} \end{pmatrix}$

 $H(s) = \frac{C_3C_5R_1R_3R_4R_5s^2 + R_1R_4 + s\left(C_3R_1R_3R_4 + C_5R_1R_4R_5\right)}{s^3\left(C_1C_2C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_5C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_4R_5 + C_2C_6R_3R_4R_5 + C_2C_6R_3R_4R$

10.2738 X-INVALID-ORDER-2738 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_2R_2s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $\frac{C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}R_{6}s^{3}+R_{1}R_{4}+s^{2}\left(C_{3}C_{5}R_{1}R_{3}R_{4}R_{5}+C_{5}C_{6}R_{1}R_{4}R_{5}R_{6}\right)+s\left(C_{3}R_{1}R_{3}R_{4}+C_{5}R_{1}R_{4}R_{5}+C_{6}R_{1}R_{4}R_{6}\right)}{s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{4$

10.2739 X-INVALID-ORDER-2739 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_3}{-R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_1C_2C_6R_1R_3R_4R_5R_6 + C_1C_3C_6R_1R_3R_4R_5R_6 + C_1C_5C_6R_1R_3R_4R_5R_6 + C_2C_3C_6R_1R_3R_4R_5R_6 + C_2C_3C_6R_1R_3R_4R_5 + C_1C_3R_1R_3R_4R_5 + C_1C_4R_1R_3R_4R_5 + C_1C_5R_1R_3R_4R_5 + C_1C_5R_1R_5R_5 + C_1C_5R_1R_5R_5 + C_1C_5R_1R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5 +$

10.2740 X-INVALID-ORDER-2740 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

 $C_2R_1R_2R_4s + R_1R_4$

 $\frac{c_2 R_1 R_2 R_4 s + R_1 R_4}{s^3 \left(-C_1 C_2 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_5 + C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 + C_2 C_6 R_2 R_4 R_5 + C_2 C_6 R_2 R_4 R_5$

10.2743 X-INVALID-ORDER-2743 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{-C_1C_2C_5R_1R_2R_3R_4s^3 + R_3 + R_4 + s^2\left(C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_4 + C_1C_5R_1R_3R_4 - C_1C_5R_1R_3R_4 - C_2C_5R_2R_3R_4\right) + s\left(C_1R_1R_3 + C_1R_1R_4 + C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 - C_5R_3R_4\right)}$$

10.2744 X-INVALID-ORDER-2744 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4s + C_5R_1R_4}{-C_1C_2C_5C_6R_1R_2R_3R_4s^3 + C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_4 + C_1C_5C_6R_1R_3R_4 - C_2C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

10.2745 X-INVALID-ORDER-2745 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_5C_6R_1R_4R_6\right)}{-C_1C_2C_5C_6R_1R_2R_3R_4s^3 + C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_4 + C_1C_5C_6R_1R_3R_4 - C_1C_5C_6R_1R_3R_4 - C_2C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 - C_5C_6R_3R_4\right)}{-C_1C_2C_5C_6R_1R_2R_3R_4s^3 + C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_3 + C_1C_5C_6R_1R_3R_4 - C_1C_5C_6R_1R_3R_4 - C_2C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_2R_4 + C_2C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

10.2746 X-INVALID-ORDER-2746 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$I(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s^2 + C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_4R_5s^2 + C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_4R_6s^2 + C_5R_1R_2R_4R_6s^2$$

10.2747 X-INVALID-ORDER-2747 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{R_3 + R_4 + s^3\left(-C_1C_2C_5R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_3R_5 + C_1C_2C_5R_1R_2R_4R_5 + C_1C_2C_5R_1R_3R_4 + C_1C_2R_1R_2R_4 + C_1C_5R_1R_3R_4 + C_1C_5R_1R_3R_4 + C_1C_5R_1R_3R_5 + C_1C_5R_1R_4R_5 - C_2C_5R_2R_3R_4 + C_2C_5R_2R_3R_5 + C_2C_5R_2R_3R_5 + C_2C_5R_2R_3R_4 + C_2C_5R_2R_3R_5 + C_2C_5R_2R_3R_4 + C_2C_5R_2R_3R_5 + C_2C_5R_2R_3R_4 + C_2C_5R_2R_3R_5 + C_2C_5R_2R_3R_4 + C_2C_5R_2R_3R_5 + C_2C_5R_3R_3R_5 + C_2C_5R_3R_3R$$

10.2748 X-INVALID-ORDER-2748 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4s + C_5R_1R_4}{C_6R_3 + C_6R_4 + s^3\left(-C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_5 + C_1C_2C_5C_6R_1R_3R_4 + C_1C_2C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_5 + C_1C_5C_6R_1R_3R_5 + C_1C_5C_6R_1R_3R_5 + C_1C_5C_6R_1R_3R_5 + C_1C_5C_6R_1R_3R_5 + C_1C_5C_6R_1R_5 + C_1C_5C_6R_1R_5 + C_1C_5C_6R_1R_5 + C_1C_5C_6R_1R_5 + C_1C$$

10.2749 X-INVALID-ORDER-2749 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_5C_6R_1R_2R_4 + c_5C_6R_1R_2R$$

10.2750 X-INVALID-ORDER-2750 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{1}{R_3 + R_4 + s^4 \left(-C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_5 R_1 R_2 R_5 R_6 + C_1 C_2 C_5 R_1 R_2 R_5 R$$

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10.2751 X-INVALID-ORDER-2751 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_2C_5R_1R_2R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_5R_1R_4R_5R_6\right)}{-C_1C_2C_5R_1R_2R_3R_4 + R_5s^3 - R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(-C_1C_2R_1R_2R_3R_4 + C_1C_2R_1R_2R_3R_5 + C_1C_2R_1R_3R_4R_5 - C_1C_5R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_4\right)}
10.2752 X-INVALID-ORDER-2752 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_2C_5R_1R_2R_4R_5s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5\right)
H(s) = \frac{C_2C_5R_1R_2R_4R_5s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5\right)}{-C_1C_2C_5C_6R_1R_2R_3R_4 + S^2\left(-C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_3R_4 + C_1C_2C_6R_1R_3R_
10.2753 X-INVALID-ORDER-2753 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_5C_6R_1R_2R_4R_5R_6s^3 + R_1R_4 + s^2\left(C_2C_5R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_6 + C_5C_6R_1R_4R_5R_6\right) + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5 + C_6R_1R_4R_6\right)}{-C_1C_2C_5C_6R_1R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 - C_1C_5C_6R_1R_3R_4R_5 - C_1C_5C_6R_1R_3R_4R_5 + C_1C_6R_1R_3R_4 + C_1C_6R
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10.2754 X-INVALID-ORDER-2754 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-C_1C_2C_5C_6R_1R_2R_3R_4R_5R_6s^4 - R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(-C_1C_2C_5R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R_3R_5R_6 + C_1C_2C_6R_1R_2R_4R_5R_6 + C_1C_2C_6R_1R_3R_4R_5R_6 - C_1C_5C_6R_1R_3R_4R_5R_6 - C_2C_5C_6R_2R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_3R_4R_5R_6 - C_2C_5C_6R_1R_3R_4R_5R_6 - C_2C_5C_6R_2R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_3R_4R_5R_6 - C_2C_5C_6R_2R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_3R_4R_5R_6 - C_2C_5C_6R_2R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_2R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_3R_4R_5R_6\right) + s^2\left(-C_1C_2R_1R_3R_4R_5\right) + s^2\left(-C_1C_2R_1R_3R_4R_5\right) + s^2\left(-C_1C_2R_1R_3R_4R_5\right) + s^2\left(-C_1C$

10.2755 X-INVALID-ORDER-2755 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_2R_1R_2R_6s + R_1R_6}{C_1C_2C_4R_1R_2R_3R_5s^3 - R_3 + R_5 + s^2\left(-C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_5 + C_1C_2R_1R_3R_5 + C_1C_4R_1R_3R_5 + C_2C_4R_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_1R_5 + C_2R_1R_5 - C_2R_2R_3 + C_2R_2R_5 + C_2R_3R_5 + C_4R_3R_5\right)}$

10.2756 X-INVALID-ORDER-2756 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2 R_1 R_2 s + R_1}{C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 s^4 + s^3 \left(-C_1 C_2 C_6 R_1 R_2 R_3 + C_1 C_2 C_6 R_1 R_2 R_5 + C_1 C_2 C_6 R_1 R_3 R_5 + C_1 C_4 C_6 R_1 R_3 R_5 + C_2 C_4 C_6 R_2 R_3 + C_2 C_6 R_1 R_5 + C_2 C_6 R_2 R_3 + C_2 C_6 R_2 R_3 + C_2 C_6 R_2 R_5 + C_2 C_6 R_3 R_5 + C_4 C_6 R_3 R_5 \right) + s \left(-C_6 R_3 R_5 + C_4 C_6 R_5 + C_5 C_6 R_5 + C_5 C_6 R_5$

10.2757 X-INVALID-ORDER-2757 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_6R_1R_2R_6s^2 + R_1 + s\left(C_2R_1R_2 + C_6R_1R_6\right)}{C_1C_2C_4C_6R_1R_2R_3 + s^3\left(-C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_5 + C_1C_4C_6R_1R_3R_5 + C_2C_4C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_2R_3 + C_2C_6R_2R_3 + C_2C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_2R_3 + C_2C_6R_3R_5 + C_4C_6R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_3 + C_2C_6R_3R_5 + C_2C_6R_3R_5 + C_2C_6R_3R_5 + C_2C_6R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_3R_5 + C_2C_6R_3R_5 + C_2C_6R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_2C_6R_3R_5 + C_2C_6R_3R_5 + C_2C_6R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_2C_6R_3R_5 + C_2C_6R_3R_5 + C_2C_6R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_2C_6R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_2C_6R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_2C_6R_3R_5\right) + s^2\left(-C_1C_6R_3R_5\right) + s^2\left($

10.2758 X-INVALID-ORDER-2758 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $C_2R_1R_2R_6s + R_1R_6$ $H(s) = \frac{C_2 R_1 R_2 R_3 R_5 R_6 s^4 - R_3 + R_5 + s^3 (C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_6 R_1 R_2 R_3 R_6 + C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_5 R_6 + C_1$

10.2759 X-INVALID-ORDER-2759 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_5R_1R_2R_6s^2 + C_5R_1R_6s}{s^3\left(C_1C_2C_4R_1R_2R_3 - C_1C_2C_5R_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_1C_4R_1R_3 - C_1C_5R_1R_3 + C_2C_4R_2R_3 - C_2C_5R_2R_3\right) + s\left(C_1R_1 + C_2R_1 + C_2R_2 + C_2R_3 + C_4R_3 - C_5R_3\right) + 1}$

10.2760 X-INVALID-ORDER-2760 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_2C_5R_1R_2s + C_5R_1}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_2R_3 - C_1C_2C_5C_6R_1R_2R_3\right) + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_3 + C_1C_4C_6R_1R_3 - C_1C_5C_6R_1R_3 + C_2C_4C_6R_2R_3 - C_2C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_2C_6R_1 + C_2C_6R_1 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$

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10.2761 X-INVALID-ORDER-2761 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                        H(s) = \frac{C_2C_5C_6R_1R_2R_6s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_5C_6R_1R_6\right)}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_2R_3 - C_1C_2C_5C_6R_1R_2R_3\right) + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_2C_4C_6R_2R_3 - C_2C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_2C_6R_1 + C_2C_6R_2 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}
10.2762 X-INVALID-ORDER-2762 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_2C_5R_1R_2R_6s^2 + C_5R_1R_6s}{s^4\left(C_1C_2C_4C_6R_1R_2R_3R_6 - C_1C_2C_5C_6R_1R_2R_3R_6\right) + s^3\left(C_1C_2C_4R_1R_2R_3 - C_1C_2C_5R_1R_2R_3 + C_1C_2C_6R_1R_3R_6 + C_1C_4C_6R_1R_3R_6 + C_1C_4C_6R_1R_3R_6 + C_2C_4C_6R_2R_3R_6\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_1C_4R_1R_3R_6\right)}
10.2763 X-INVALID-ORDER-2763 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_5R_1R_2R_6s^2 + C_5R_1R_6s}{C_1C_2C_4C_5R_1R_2R_3 + S^4 + s^3\left(C_1C_2C_4R_1R_2R_3 - C_1C_2C_5R_1R_2R_5 + C_1C_2C_5R_1R_3R_5 + C_1C_4C_5R_1R_3R_5 + C_1C_4C_5R_1R_3 + C_1C_4R_1R_3 - C_1C_5R_1R_3 + C_1C_5R_1R_3 + C_1C_5R_1R_5 + C_2C_5R_1R_3 + C_1C_5R_1R_5 + C_2C_5R_1R_3 + C_1C_5R_1R_3 + C_1C_
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10.2764 X-INVALID-ORDER-2764 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5R_1R_2s + C_5R_1}{C_1C_2C_4C_5C_6R_1R_2R_3R_5s^4 + C_6 + s^3\left(C_1C_2C_4C_6R_1R_2R_3 - C_1C_2C_5C_6R_1R_2R_3 + C_1C_2C_5C_6R_1R_3R_5 + C_1C_4C_5C_6R_1R_3R_5 + C_2C_4C_5C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_5C_6R_1R_3 + C_1C_5C_6R_1R_$

10.2765 X-INVALID-ORDER-2765 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5C_6R_1R_2R_6s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_5C_6R_1R_6\right)}{C_1C_2C_4C_5C_6R_1R_2R_3 + C_1C_2C_5C_6R_1R_2R_3 + C_1C_2C_5C_6R_1R_3R_5 + C_1C_4C_5C_6R_1R_3R_5 + C_2C_4C_5C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_5C_6R_1R_3 + C_1C_5C_6R_1$

10.2766 X-INVALID-ORDER-2766 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_4C_5C_6R_1R_2R_3R_5R_6s^5 + s^4\left(C_1C_2C_4C_5R_1R_2R_3R_5 + C_1C_2C_4C_6R_1R_2R_3R_6 + C_1C_2C_5C_6R_1R_2R_5R_6 + C_1C_2C_5C_6R_1R_3R_5R_6 + C_1C_4C_5C_6R_1R_3R_5R_6 + C_1C_4C_5C_6R_2R_3R_5R_6 + C_1C_4C_5C_6R_3R_3R_5R_6 + C_1C_4C_5C_6R_3R_3R_5R_5 + C_1C_4C_5C_6R_3R_5R_5R_5 + C_1C_4C_5C_6R_3R_5R_5R_5 + C_1C_4C_5C_6R_3R_5R_5R_5 + C_1C_5C_5R_5R_5R_5 + C_1C_5C_5R_5R_5R_5R_5 + C_1C_5C_5R_5R_5R_5 + C_1C_5C_$

10.2767 X-INVALID-ORDER-2767 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_5R_1R_2R_5R_6s^2 + R_1R_6 + s\left(C_2R_1R_2R_6 + C_5R_1R_5R_6\right)}{-R_3 + R_5 + s^3\left(C_1C_2C_4R_1R_2R_3R_5 - C_1C_2S_1R_2R_3R_5\right) + s^2\left(-C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_5 + C_1C_2R_1R_3R_5 + C_1C_4R_1R_3R_5 - C_1C_5R_1R_3R_5 + C_2C_4R_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_1R_5 + C_2R_1R_5 - C_2R_2R_3 + C_2R_2R_5 + C_2R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_1R_5 + C_2R_1R_5 + C_2R_3R_5 + C_2R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_3R_5 + C_2R_3R_5 + C_2R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_3R_5 + C_2R_3R_5 + C_2R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_3R_5 + C_2R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_3R_3R_5 + C_2R_3R_5\right) + s\left(-C_1R_3R_5 + C_2R_3R$

10.2768 X-INVALID-ORDER-2768 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_2C_5R_1R_2R_5s^2 + R_1 + s\left(C_2R_1R_2 + C_5R_1R_5\right)$

 $\frac{C_2C_5R_1R_2R_5s^2 + R_1 + s\left(C_2R_1R_2 + C_5R_1R_5\right)}{s^4\left(C_1C_2C_4C_6R_1R_2R_3R_5 - C_1C_2C_5C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 - C_1C_5C_6R_1R_3R_5 + C_2C_4C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_6R_1R_5 + C_2C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 - C_1C_5C_6R_1R_3R_5 + C_2C_4C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_2C_4C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_4C_6R_1R_3 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_4C_6R_1R_3R_5 + C_1$

10.2769 X-INVALID-ORDER-2769 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5C_6R_1R_2R_5R_6s^3 + R_1 + s^2\left(C_2C_5R_1R_2R_5 + C_2C_6R_1R_2R_6 + C_5C_6R_1R_5R_6\right) + s\left(C_2R_1R_2 + C_5R_1R_5 + C_6R_1R_6\right)}{s^4\left(C_1C_2C_4C_6R_1R_2R_3 + C_5C_6R_1R_2R_3 + C_5C_6R_1R_2R_5 + C_5C_6R_1R_3R_5 +$

10.2770 X-INVALID-ORDER-2770 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $-R_3 + R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_5 R_1 R_2 R_3 R_5 - C_1 C_2 C_6 R_1 R_2 R_3 R_6 + C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_4 C_6 R_2 R_3 R_5 R_6 - C_3 C_5 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_4 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_5 R_1 R_2 R_3 R_5 - C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_4 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_5 R_1 R_2 R_3 R_5 - C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_4 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_5 R_1 R_3 R_5 R_6 + C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_2 C_4 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_3 R_5 R_6 + C_1 C_5 C_6 R_1 R_5 R_5 R_5 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_5 R_5 R_5 R_5 R_5 R_$

 $H(s) = \frac{C_2C_4R_1R_2R_4s^2 + R_1 + s\left(C_2R_1R_2 + C_4R_1R_4\right)}{s^4\left(-C_1C_2C_4C_6R_1R_2R_3R_4 + C_1C_2C_4C_6R_1R_2R_3 + C_1C_2C_4C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_3R_5 + C_1C_4C_6R_1R_3R_5 + C_1C_4C_6R_1R_5 + C_1$

10.2773 X-INVALID-ORDER-2773 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_4C_6R_1R_2R_4R_6s^3 + R_1 + s^2\left(C_2C_4R_1R_2R_4 + C_2C_6R_1R_2R_6 + C_4C_6R_1R_4R_6\right) + C_4C_6R_1R_2R_3R_4 + C_4C_6R_1R_2R_3R_4 + C_4C_6R_1R_2R_3R_5 + C_4C_6R_1R_2R_3R_5 + C_4C_6R_1R_2R_3R_5 + C_4C_6R_1R_3R_4 + C_4C_6R_1R_4R_5 +$

10.2774 X-INVALID-ORDER-2774 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-}{-R_3 + R_5 + s^4 \left(-C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 R_6 + C_1 C_2 C_4 R_1 R_2 R_3 R_4 + C_1 C_2 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 R_1 R_2 R_5 + C_1 C_2 C_4$

10.2775 X-INVALID-ORDER-2775 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_4C_5R_1R_2R_4R_6s^3 + C_5R_1R_6s + s^2\left(C_2C_5R_1R_2R_6 + C_4C_5R_1R_4R_6\right)}{-C_1C_2C_4C_5R_1R_2R_3R_4s^4 + s^3\left(C_1C_2C_4R_1R_2R_3 + C_1C_2C_4R_1R_2R_4 + C_1C_2C_5R_1R_2R_3 - C_1C_4C_5R_1R_3R_4 - C_2C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_1C_4R_1R_3 + C_1C_4R_1R_4 + C_2C_4R_2R_3 + C_2C_4R_2R_4 + C_2C_$

10.2776 X-INVALID-ORDER-2776 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_4C_5R_1R_2R_4s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_4C_5R_1R_4\right) + s\left(C_4C_5R_1R_2R_4s^2 + C_5R_1 + s\left(C_4C_5R_1R_2 + C_4C_5R_1R_4\right) + s\left(C_4C_5R_1R_2R_3 + C_4C_5R_1R_3 + C_4$

10.2777 X-INVALID-ORDER-2777 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_4C_5C_6R_1R_2R_4R_6s^3 + C_5R_1 + s^2\left(C_2C_4C_5R_1R_2R_4 + C_2C_5C_6R_1R_2R_6 + C_4C_5C_6R_1R_4R_6\right) + s\left(C_2C_5R_1R_2R_4 + C_2C_5C_6R_1R_2R_3 + C_4C_5C_6R_1R_2R_3 + C_4C_5C_6R_1R_3R_4 - C_4C_5C_6R_1R_3R_4 + C_4C_5C_6R_1R_3 + C_4C_6R_1R_3 + C_4$

10.2778 X-INVALID-ORDER-2778 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-}{-C_1C_2C_4C_5C_6R_1R_2R_3R_4R_6s^5 + s^4\left(-C_1C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4C_6R_1R_2R_3R_6 + C_1C_2C_4C_6R_1R_3R_4R_6 - C_1C_2C_5C_6R_1R_3R_4R_6 - C_1C_4C_5C_6R_1R_3R_4R_6 - C_2C_4C_5C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_2C_4R_1R_2R_3R_4 + C_1C_2C_4C_6R_1R_2R_4R_6 + C_1C_2C_4C_6R_1R_3R_4R_6 - C_1C_4C_5C_6R_1R_3R_4R_6 - C_2C_4C_5C_6R_2R_3R_4R_6\right) + s^3\left(C_1C_2C_4R_1R_2R_3R_4 + C_1C_2C_4C_6R_1R_2R_3R_4 + C_1C_2C_4C$

10.2779 X-INVALID-ORDER-2779 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{1}{s^4 \left(-C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 R_1 R_3 R_4 R_5\right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_3 + C_1 C_2 C_4 R_1 R_3 R_4 - C_1 C_2 C_5 R_1 R_2 R_3 + C_1 C_2 C_5 R_1 R_2 R_5 + C_1 C_2 C_5 R_1 R_3 R_5 - C_1 C_4 C_5 R_1 R_3 R_4 + C_1 C_4 C_5 R_1 R_4 R_5 + C_1 C_4 C_5 R_1 R_5 + C_1 C_4 C_5 R_1 R_5 + C_1 C_4 C_5 R_1 R$

10.2780 X-INVALID-ORDER-2780 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_6 + s^4 \left(-C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_1 R_3 R_4 R_5\right) \\ + s^3 \left(-C_1 C_2 C_4 C_6 R_1 R_2 R_3 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_2 C_4 C_6 R_1 R_$

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10.2781 X-INVALID-ORDER-2781 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
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 $H(s) = \frac{1}{C_6 + s^4 \left(-C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_1 R_3 R_4 R_5\right) \\ + s^3 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_3 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 + C_1 C_2 C_5 C_6 R_1 R_2 R_3$

10.2782 X-INVALID-ORDER-2782
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{1}{s^5 \left(-C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 R_1 R_2 R_5 + C_1 C_2 C_4 C_5$

10.2783 X-INVALID-ORDER-2783
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

 $H(s) = \frac{C_2C_4C_5R_1R_2R_4R_5R_6s^3 + R_1R_6 + s^2\left(C_2C_4R_1R_2R_3R_4 + C_1C_2C_4R_1R_2R_3R_5 + C_$

10.2784 X-INVALID-ORDER-2784
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{-C_1C_2C_4C_5C_6R_1R_2R_3R_4R_5s^5 + s^4\left(-C_1C_2C_4C_6R_1R_2R_3R_4 + C_1C_2C_4C_6R_1R_2R_3R_5 + C_1C_2C_4C_6R_1R_2R_3R_5 - C_1C_4C_5C_6R_1R_3R_4R_5 - C_1C_4C_5C_6R_1R_3R_5 - C_1C_4C_5C_6R_1R_3R_5 - C_1C_4C_5C_6R_1R_3R_5 - C_1C_4C_5C_6R_1R_3R_5 - C_1C_4C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_5C_5C_5C_5C_5C_5C_5$

10.2785 X-INVALID-ORDER-2785
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_2C_4C_5C_6R_1R_2R_4R_5R_6s^4 + R_1 + s^3\left(C_2C_4C_5R_1R_2R_4R_5 + C_2C_4C_6R_1R_2R_4R_5 + C_2C_4C_6R_1R_2R_3R_4 + C_1C_2C_4C_6R_1R_2R_3R_4 + C_$

10.2786 X-INVALID-ORDER-2786
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

10.2787 X-INVALID-ORDER-2787 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

10.2788 X-INVALID-ORDER-2788 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2 R_1 R_2 R_4 s + R_1 R_4}{C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 s^4 + s^3 \left(-C_1 C_2 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_3 R_4 R_5 + C_2 C_4 C_6 R_2 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_3 R_4 + C_1 C_6 R_1 R_3 R_5 + C_1 C_6 R_1 R_4 R_5 + C_2 C_6 R_1 R_4$

10.2789 X-INVALID-ORDER-2789
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_2C_6R_1R_2R_4R_6s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_6R_1R_4R_6\right)}{C_1C_2C_4C_6R_1R_2R_3R_4S^4 + s^3\left(-C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_3R_4R_5 + C_1C_4C_6R_1R_3R_4R_5 + C_1C_4C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1$

10.2790 X-INVALID-ORDER-2790
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$$

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10.2791 X-INVALID-ORDER-2791 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)
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 $H(s) = \frac{C_2C_5R_1R_2R_4R_6s^2 + C_5R_1R_4R_6s}{R_3 + R_4 + s^3\left(C_1C_2C_4R_1R_2R_3R_4 - C_1C_2C_5R_1R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_4 + C_1C_2R_1R_3R_4 + C_1C_4R_1R_3R_4 - C_1C_5R_1R_3R_4 + C_2C_5R_2R_3R_4\right) + s\left(C_1R_1R_3 + C_1R_1R_4 + C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 +$

10.2792 X-INVALID-ORDER-2792 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $\frac{C_{2}C_{5}R_{1}R_{2}R_{4}s+C_{5}R_{1}R_{4}}{C_{6}R_{3}+C_{6}R_{4}+s^{3}\left(C_{1}C_{2}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}-C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{4}C_{6}R_{2}R_{3}R_{4}-C_{2}C_{5}C_{6}R_{2}R_{3}R_{4}+s^{2}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{4}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{4}C_{6}R_{2}R_{3}R_{4}+C_{2}C_{5}C_{6}R_{2}R_{3}R_{4}+C_{2}C_{5}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}+C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}+C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}+C_{2$

10.2793 X-INVALID-ORDER-2793 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_4C_6R_1R_2R_3R_4 - C_1C_2C_5C_6R_1R_2R_3R_4\right) + s^2\left(C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_4 + C_1C_4C_6R_1R_3R_4 + C_1C_4C_6R_1R_3R_4 + C_2C_4C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_1R_4\right)}$

10.2794 X-INVALID-ORDER-2794 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_3 + R_4 + s^4 (C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_6 R_1 R_3 R_4 R_6 + C_1 C_2 C_6 R_1$

10.2795 X-INVALID-ORDER-2795 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2}{C_1C_2C_4C_5R_1R_2R_3R_4R_5s^4 + R_3 + R_4 + s^3(C_1C_2C_4R_1R_2R_3R_4 - C_1C_2C_5R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_3R_5 + C_1C_2C_5R_1R_2R_4R_5 + C_1C_2C_5R_1R_3R_4R_5 + C_1C_4C_5R_1R_3R_4R_5 + C_1C_4C_5R_1R_3R_4 + C_1C_4C_5R_1R_5R_5 + C_1C_4C_5R_1R_5R_5 + C_1C_4C_5R_1R_5R_5 + C_1C_4C_5R_1R_5R_5 + C_1C_4C$

10.2796 X-INVALID-ORDER-2796 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_1C_2C_4C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_4C_6R_1R_2R_3R_4 - C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_5 + C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_4C_5C_6R_1R_3R_4R_5 + C_1C_4C_5C_6R_1R_3R_4 + C_1C_5C_5C_6R_1R_3R_4 + C_1C_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_$

10.2797 X-INVALID-ORDER-2797 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_1C_2C_4C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_4C_6R_1R_2R_3R_4 - C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_3R_4 + C_1C_$

10.2798 X-INVALID-ORDER-2798 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2799 X-INVALID-ORDER-2799 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $C_2C_5R_1R_2R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_5R_1R_4R_5R_6\right)$ $H(s) = \frac{C_2C_5R_1R_2R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_5R_1R_4R_5R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_1C_2C_4R_1R_2R_3R_4R_5 - C_1C_2R_1R_2R_3R_4 + C_1C_2$

10.2800 X-INVALID-ORDER-2800 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_2C_5R_1R_2R_4R_5s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_5R_1R_4R_5\right)$

 $\frac{c_2c_5n_1n_2n_4n_5s + n_1n_4 + s(c_2n_1n_2n_4 + c_5n_1n_4n_5)}{s^4(C_1C_2C_4C_6R_1R_2R_3R_4R_5 - C_1C_2C_5C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 + C_1C_2C_6R_1R_3R$

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10.2801 X-INVALID-ORDER-2801 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          H(s) = \frac{C_2C_5C_6R_1R_2R_4R_5R_6s^3 + R_1R_4 + s^2\left(C_2C_5R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_6 + C_5C_6R_1R_4R_5R_6\right) + s\left(C_2R_3R_4R_5 + C_3R_4R_5 + 
10.2802 X-INVALID-ORDER-2802 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{-R_3R_4 + R_3R_5 + R_4R_5 + s^4(C_1C_2C_4C_6R_1R_2R_3R_4R_5R_6 - C_1C_2C_5C_6R_1R_2R_3R_4R_5 - C_1C_2C_5R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R_3R_4R_6 + C_1C_2C_6R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R_3R_4R_
10.2803 X-INVALID-ORDER-2803 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)
                                                                               H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{C_1C_2C_3R_1R_2R_4R_5s^3 - R_4 + R_5 + s^2\left(-C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_5 + C_1C_2R_1R_4R_5 + C_1C_3R_1R_4R_5 + C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 - C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5 + C_3R_4R_5\right)}
10.2804 X-INVALID-ORDER-2804 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
 H(s) = \frac{C_2C_3R_1R_2R_4s + C_3R_1R_4}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 - C_6R_4 + C_6R_5 + s^2\left(-C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_5 + C_1C_2C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_5 - C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 + C_2C_6R_4R
10.2805 X-INVALID-ORDER-2805 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
 H(s) = \frac{C_2C_3C_6R_1R_2R_4R_6s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_6R_1R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_4R_5s^3 - C_6R_4 + C_6R_5 + s^2\left(-C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_4R_5 + C_2C_3C_5R_4R_5 + C_2C_3C_5R_4R_5 + C_2C_3C_5R_4R_5 + C_2C_3C_5R_4R_5 + C_2C_3C_5R_4R_5 + C_2C_3
10.2806 X-INVALID-ORDER-2806 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + \frac{C_2C_3R_1R_2R_4R_5R_6s^4 - R_4 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_4R_5 - C_1C_2C_6R_1R_2R_4R_6 + C_1C_2C_6R_1R_4R_5R_6 + C_1C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_2R_4R_5R_6 + s^2\left(-C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_4 + C_1C_2R_1R_4R_5R_6 + C_2C_3C_6R_1R_4R_5R_6 + C_2C_3C_6R_1R_4R_5R_5 + C_2C_3C_6R_1R_4R_5R_5 + C_2C_3C_6R_1R_5R_5 + C_2C_3C_6R_1R_5R_5 + C_2C_3C_6R_1R_5R_5 + C_2C_3C_6R_1R_5R_5 + C_2C_3C_6R_1R_5R_5 + C_2C_3C_6R_1R_5R_5 + C_2C_3
10.2807 X-INVALID-ORDER-2807 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                       H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^3\left(C_1C_2C_3R_1R_2R_4 - C_1C_2C_5R_1R_2R_4\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_4 + C_1C_3R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_1R_4 + C_2C_3R_2R_4 - C_2C_5R_2R_4\right) + s\left(C_1R_1 + C_2R_2 + C_2R_4 + C_3R_4 - C_5R_4\right) + 1}
10.2808 X-INVALID-ORDER-2808 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \frac{1}{C_3s}, \ R_4, \ \frac{1}{C_5s}, \ \frac{1}{C_6s}\right)
                                           H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s + C_3C_5R_1R_4s}{C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_4 - C_1C_2C_5C_6R_1R_2R_4\right) + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + S(C_1C_6R_1 + C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 + C_3C_6R_4 + C_3C_6R_4\right)}
10.2809 X-INVALID-ORDER-2809 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                           H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_4 - C_1C_2C_5C_6R_1R_2R_4\right) + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + S(C_1C_6R_1R_4 + C_2C_6R_2R_4) + s\left(C_1C_6R_1 + C_2C_6R_2 + C_2C_6R_4 + C_3C_6R_4 - C_5C_6R_4\right)}
```

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_4R_6s^2}{s^4\left(C_1C_2C_3C_6R_1R_2R_4R_6 - C_1C_2C_5C_6R_1R_2R_4R_6\right) + s^3\left(C_1C_2C_3R_1R_2R_4 - C_1C_2C_5R_1R_2R_4 + C_1C_2C_6R_1R_4R_6 + C_1C_3C_6R_1R_4R_6 + C_2C_3C_6R_1R_4R_6 + C_2C_3C_$

10.2810 X-INVALID-ORDER-2810 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

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 \begin{aligned} \textbf{10.2811} \quad \textbf{X-INVALID-ORDER-2811} \ Z(s) &= \left(\frac{R_1}{C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \frac{1}{C_3s}, \ R_4, \ R_5 + \frac{1}{C_5s}, \ R_6\right) \\ H(s) &= \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{C_1C_2C_3C_5R_1R_2R_4R_5s^4 + s^3\left(C_1C_2C_3R_1R_2R_4 - C_1C_2C_5R_1R_2R_5 + C_1C_2C_5R_1R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_4 + C_1C_3R_1R_4 - C_1C_5R_1R_4 + C_1C_5R_1R_5 + C_2C_3R_1R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_2R_4R_5\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_4 + C_1C_3R_1R_4 - C_1C_5R_1R_4 + C_1C_5R_1R_4 + C_2C_3R_1R_4 + C_2C_3R_1R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_2C_5R_1R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_
```

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_4s}{C_1C_2C_3C_6R_1R_2R_4R_5s^4 + C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_2C_5C_6R_1R_2R_5 + C_1C_2C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4 + C_2C_3C_5C_$

10.2813 X-INVALID-ORDER-2813 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_4 + C_3C_5C_6R_1R_4R_5 + C_2C_3C_5C_6R_1R_4R_5 + C$

10.2814 X-INVALID-ORDER-2814 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2815 X-INVALID-ORDER-2815 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_4R_6s + s^2\left(C_2C_3R_1R_2R_4R_6 + C_3C_5R_1R_4R_5R_6\right)}{-R_4 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_4R_5 - C_1C_2S_1R_2R_4R_5\right) + s^2\left(-C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_4 + C_1C_2R_1R_4R_5 + C_1C_3R_1R_4R_5 + C_2C_3R_1R_4R_5 + C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 - C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5\right)}$

10.2816 X-INVALID-ORDER-2816 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5\right)}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 - C_1C_2C_5C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_5 + C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 - C_2C_5C_6R_2R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5\right) + s\left(-C_1C_3C_6R_1R_4R_5\right) + s\left(-C_1C_3C_6R_1R_4R_5\right)$

01-04 - 01-05 - 0 (01-02-03-01-02-04-05) - 0 (01-02-04-05) - 01-02-04-05

10.2817 X-INVALID-ORDER-2817 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_4R_5R_6\right) + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 - C_1C_2C_5C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_$

10.2818 X-INVALID-ORDER-2818 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-R_4 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_5 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6\right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_4 R_5 - C_1 C_2 C_5 R_1 R_2 R_4 R_5 - C_1 C_2 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_6 R_1 R_4 R_5 R_6 + C_1 C_3 C_6 R_1 R_4 R_5 R_6 - C_1 C_5 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_6$

10.2819 X-INVALID-ORDER-2819 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_6s^2 + C_3R_1R_6s}{s^3\left(C_1C_2C_3R_1R_2R_5 + C_1C_2C_4R_1R_2R_5\right) + s^2\left(-C_1C_2R_1R_2 + C_1C_2R_1R_5 + C_1C_4R_1R_5 + C_2C_3R_1R_5 + C_2C_3R_2R_5 + C_2C_4R_2R_5\right) + s\left(-C_1R_1 - C_2R_2 + C_2R_5 + C_3R_5 + C_4R_5\right) - 1}$

10.2820 X-INVALID-ORDER-2820 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3R_1R_2s + C_3R_1}{-C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_2 + C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_4C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_4C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_2 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5\right)}$

```
10.2821 X-INVALID-ORDER-2821 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)
                                          H(s) = \frac{C_2C_3C_6R_1R_2R_6s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_6R_1R_6\right)}{-C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_2 + C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_4C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_2 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5\right)}
10.2822 X-INVALID-ORDER-2822 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_2C_3R_1R_2R_6s^2 + C_3R_1R_6s
H(s) = \frac{C_2C_3R_1R_2R_6s^2 + C_3R_1R_6s}{s^4\left(C_1C_2C_3C_6R_1R_2R_5R_6 + C_1C_2C_4C_6R_1R_2R_5 + C_1C_2C_4R_1R_2R_5 + C_1C_2C_4R_1R_2R_5 + C_1C_2C_6R_1R_5R_6 + C_1C_3C_6R_1R_5R_6 + C_1C_3C_6R_1R_5R_6 + C_2C_3C_6R_1R_5R_6 + C_2C_3C_6R_1R_5R_5 + C_2C_3C_6R_1R_
10.2823 X-INVALID-ORDER-2823 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_6 + C_1C_2C_5C_6R_1R_2R_6 + s^2\left(C_1C_2C_3R_1R_2 + C_1C_2C_5R_1R_2 + C_1C_2C_6R_1R_6 + C_1C_3C_6R_1R_6 + C_1C_3C_6R_1R_6 + C_2C_3C_6R_1R_6 + C_2
10.2824 X-INVALID-ORDER-2824 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_4C_5R_1R_2 + C_1C_2C_4R_1R_2 - C_1C_2C_5R_1R_5 + C_1C_3C_5R_1R_5 + C_1C_3C_5R_1R_5 + C_2C_3C_5R_2R_5 + C_2C_4C_5R_2R_5\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_4R_1 + 
10.2825 X-INVALID-ORDER-2825 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_2C_3C_5R_1R_2s + C_3C_5R_1
H(s) = \frac{C_2C_3C_5R_1R_2s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3\left(C_1C_2C_3C_5C_6R_1R_2 + C_1C_2C_4C_5C_6R_1R_2 + C_1C_2C_5C_6R_1R_2 + C_1C_2C_5C_6R_1R_5 + C_1C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_5C_6R_1R_5 + C_
10.2826 X-INVALID-ORDER-2826 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_5C_6R_1R_2 + C_3C_5C_6R_1R
10.2827 X-INVALID-ORDER-2827 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_2 + C_3 + C_4 - C_5 + s^4 \left( C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_6 + C_1 C_2 C_4 C_5 R_1 R_2 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R_6 + C_1 C
10.2828 X-INVALID-ORDER-2828 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
      H(s) = \frac{C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_5R_1R_5R_6\right)}{s^3\left(C_1C_2C_3R_1R_2R_5 + C_1C_2C_4R_1R_2R_5 - C_1C_2C_5R_1R_2R_5\right) + s^2\left(-C_1C_2R_1R_2 + C_1C_2R_1R_5 + C_1C_4R_1R_5 + C_1C_4R_1R_5 + C_2C_3R_1R_5 + C_2C_3R_2R_5 + C_2C_4R_2R_5 - C_2C_5R_2R_5\right) + s\left(-C_1R_1 - C_2R_2 + C_2R_5 + C_3R_5 + C_4R_5 - C_5R_5\right) - 1}{s^2\left(-C_1C_2R_1R_2R_5 + C_1C_2R_1R_2 + C_1C_2R_1R_5 + C_1C_4R_1R_5 + C_1C_4R_1R_5 + C_2C_3R_1R_5 + C_2C_4R_2R_5 - C_2C_5R_2R_5\right) + s\left(-C_1R_1 - C_2R_2 + C_2R_5 + C_3R_5 + C_3R_5 + C_3R_5\right)}
10.2829 X-INVALID-ORDER-2829 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
H(s) = \frac{C_2C_3C_5R_1R_2R_5s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_5R_1R_5\right)}{-C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_2R_5\right) + s^2\left(-C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5\right) + s\left(-C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5\right) + s\left(-C_1C_3C_6R_1R_5\right) + s\left(-C_1C
10.2830 X-INVALID-ORDER-2830 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                         \frac{C_2C_3C_5C_6R_1R_2R_5R_6s^3 + C_3R_1 + s^2\left(C_2C_3C_5R_1R_2R_5 + C_2C_3C_6R_1R_2R_6 + C_3C_5C_6R_1R_5R_6\right) + s\left(C_2C_3R_1R_2 + C_3C_5R_1R_5 + C_3C_6R_1R_6\right)}{-C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_6C_6R_1R_2R_5 + C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_2C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6R_2R_5\right) + s\left(-C_1C_6R_1 - C_2C_6R_2R_5 + C_2C_3C_6R_2R_5 + C_2C_3C_6
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10.2831 X-INVALID-ORDER-2831 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
```

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_5 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_4 R_1 R_2 R_5 - C_1 C_2 C_5 R_1 R_2 R_5 - C_1 C_2 C_6 R_1 R_2 R_5 - C_1 C_2 C_6 R_1 R_5 R_6 + C_1 C_3 C_6 R_1 R_5 R_6 + C_1 C_5 C_6 R_1 R_5 R_6 +$

10.2832 X-INVALID-ORDER-2832
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$$

 $H(s) = \frac{C_2C_3C_4R_1R_2R_4R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_6 + C_3C_4R_1R_4R_6\right)}{C_1C_2C_3C_4R_1R_2R_4R_5s^4 + s^3\left(C_1C_2C_3R_1R_2R_5 - C_1C_2C_4R_1R_2R_5 + C_1C_2C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5 + C_2C_3C$

10.2833 X-INVALID-ORDER-2833
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$$

 $C_2C_3C_4R_1R_2R_4s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_4R_1R_4\right)$

 $H(s) = \frac{C_2C_3C_4R_1R_2R_4s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_4R_1R_4\right)}{C_1C_2C_3C_4C_6R_1R_2R_4S^4 - C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 - C_1C_2C_4C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_2 + C_1C_2C_6R_1R_2 + C_1C_2C_6R$

10.2834 X-INVALID-ORDER-2834
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_2C_3C_4C_6R_1R_2R_4R_6s^3 + C_3R_1 + s^2\left(C_2C_3C_4R_1R_2R_4 + C_2C_3C_6R_1R_2R_6 + C_3C_4C_6R_1R_4R_6\right) + s\left(C_2C_3C_4C_6R_1R_2R_4R_5s^4 - C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_5 - C_1C_2C_4C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_2R_5 + C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_4C_4R_4R_5 + C_2C_3C_4C_4R_4R_5 + C_2C_3C_4C_4R_4R_5 + C_2C_3C_4C_4R_4R_5 + C_2C_3C_4C_4R_4R_5 + C$

10.2835 X-INVALID-ORDER-2835 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_2R_4R_5R_6s^5 + s^4\left(C_1C_2C_3C_4R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_5R_6 - C_1C_2C_4C_6R_1R_2R_5R_6 + C_1C_2C_4C_6R_1R_4R_5R_6 + C_1C_3C_4C_6R_1R_4R_5R_6 + C_2C_3C_4C_6R_1R_4R_5R_6 + C_2C_3C_4C_6R_1R_5R_5R_6 + C_2C_3C_4C_6R_1R_5R_5R_5 + C_2C_3C_4C_6R_1R_5R_$

10.2836 X-INVALID-ORDER-2836 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6 + S^2\left(C_2C_3C_5R_1R_2R_6 + C_3C_4C_5R_1R_4R_6\right)}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_3C_4R_1R_2R_4 - C_1C_2C_4C_5R_1R_2 + C_1C_2C_4R_1R_2 + C_1C_2C_4R_1R_4 - C_1C_4C_5R_1R_4 + C_2C_3C_4R_1R_4 + C_2C_3C_4R_1R_4 + C_2C_3C_4R_2R_4 - C_2C_4C_5R_2R_4\right) + s\left(C_1C_2R_1 + C_1C_3R_1R_2 + C_1C_2C_4R_1R_4 - C_1C_2C_5R_1R_2 + C_1C_3C_4R_1R_4 + C_2C_3C_4R_1R_4 + C_2C_3C_4R_2R_4 - C_2C_4C_5R_2R_4\right) + s\left(C_1C_2R_1 + C_1C_3R_1R_2 + C_1C_2C_4R_1R_4 - C_1C_2C_5R_1R_4 + C_2C_3C_4R_1R_4 + C$

10.2837 X-INVALID-ORDER-2837 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_2C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_4\right)$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_4\right) + c\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_4\right) + c\left(C_2C_3C_4C_5R_1R_2 + C_3C_4C_5R_1R_4 +$

10.2838 X-INVALID-ORDER-2838 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1 + s^2\left(C_2C_3C_4C_5R_1R_2R_4 + C_2C_3C_5C_6R_1R_2R_6 + C_3C_4C_5C_6R_1R_4R_6\right) + s\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_2 + C_3C_4C_5R_1R_2 + C_3C_4C_5R_1R_4 +$

10.2839 X-INVALID-ORDER-2839 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_2 + C_3 + C_4 - C_5 + s^4 + C_1 + C_2 + C_3 + C_4 + C_1 + C_2 + C_4 + C_4$

10.2840 X-INVALID-ORDER-2840 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

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10.2841 X-INVALID-ORDER-2841 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
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10.2842 X-INVALID-ORDER-2842
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_4R_5s^4 + C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3(C_1C_2C_3C_4C_6R_1R_2R_5 - C_1C_2C_4C_5C_6R_1R_2R_4 + C_1C_2C_4C_5C_6R_1R_2R_5 + C_1C_2C_4C_5C_6R_1R_4R_5 + C_1C_3C_4C_5C_6R_1R_4R_5 + C_2C_3C_4C_5C_6R_1R_4R_5 + C_2C_3C_4C_5C_6R_1R_4C_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_5$

10.2843 X-INVALID-ORDER-2843
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

10.2844 X-INVALID-ORDER-2844
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

 $\frac{C_2C_3C_4C_5R_1R_2R_4R_5R_6s^4 + C_3R_1R_6s + s^3\left(C_2C_3C_4R_1R_2R_4R_6 + C_2C_3C_5R_1R_2R_5 + s^3\left(C_2C_3C_4R_1R_2R_4R_6 + C_2C_3C_5R_1R_2R_5 + s^3\left(C_2C_3C_4R_1R_2R_4R_5 - C_1C_2C_4R_1R_2R_4 + C_1C_2C_4R_1R_2R_5 + C_1C_2C_4R_1R_4R_5 - C_1C_2C_5R_1R_2R_5 + C_1C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5 + C_2C_3C_4R_1R_4R_5$

10.2845 X-INVALID-ORDER-2845
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4R_5s^3 + C_2C_3C_4C_6R_1R_2R_4R_5 - C_1C_2C_4C_5C_6R_1R_2R_4R_5 - C_1C_2C_4C_6R_1R_2R_4 + C_1C_2C_4C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_4R_5 - C_1C_4C_5C_6R_1R_4R_5 - C_1C_4C_5C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 - C_1C_4C_5C_6R_1R_4R_5 - C_1C_4C_5C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 + C_2C_3C_4C_6R_1R_4R_5 - C_1C_4C_5C_6R_1R_4R_5 - C_1C$ $C_2C_3C_4C_5R_1R_2R_4R_5s^3 +$

10.2846 X-INVALID-ORDER-2846 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_4R_5R_6s^4 + C_3R_1 + s^3\left(C_2C_3C_4C_5R_1R_2R_4R_5 + C_2C_3C_4C_6R_1R_2R_4R_6 + C_2C_3C_5C_6R_1R_2R_5R_6s^4 + C_3C_3C_4C_6R_1R_2R_4R_5 + C_3C_3C_4C_6R_1R_4R_5 + C_$

10.2847 X-INVALID-ORDER-2847 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 - C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_2 C_4 C_5 R_1 R_2 R_4 R_5 - C_1 C_2 C_4 C_6 R_1 R_4 R_5 - C_1 C_2 C_4 C_6 R_1 R_4 R_5 R_6 - C_1 C_2 C_4 C_6 R_1 R_4 R_5 - C_1 C_2 C_4 C_6 R_1 R_4 R_5 R_6 - C_1 C_2 C_4 C_6$

10.2848 X-INVALID-ORDER-2848 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_4R_1R_2R_4R_5\right) + s^2\left(-C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_5 + C_1C_2R_1R_4R_5 + C_1C_4R_1R_4R_5 + C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 + C_2C_4R_2R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 - C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 - C_2R_2R_4 + C_2R_2R_5 + C_2R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 - C_2R_2R_4 + C_2R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 - C_2R_2R_4 + C_2R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_1R_5 - C_2R_4R_5\right) + s\left(-C_1R_1R_4 + C_1R_4R_5 + C_1C_4R_4R_5\right) + s\left(-C_1R_4R_4R_5 + C_1C_4R_4R_5\right) + s\left(-C_1R_4R_4R_5\right) +$

10.2849 X-INVALID-ORDER-2849 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_4s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_4C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_5 + C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5$

10.2850 X-INVALID-ORDER-2850 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $C_2C_3C_6R_1R_2R_4R_6s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_6R_1R_4R_6\right)$ $\frac{C_2C_3C_6R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_$

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10.2851 X-INVALID-ORDER-2851 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{-R_4 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_2 C_6 R_1 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_4$

10.2852 X-INVALID-ORDER-2852
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)$$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{s^3\left(C_1C_2C_3R_1R_2R_4 + C_1C_2C_4R_1R_2R_4 - C_1C_2C_5R_1R_2R_4\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_4 + C_1C_4R_1R_4 - C_1C_5R_1R_4 + C_2C_3R_2R_4 + C_2C_4R_2R_4 - C_2C_5R_2R_4\right) + s\left(C_1R_1 + C_2R_2 + C_2R_4 + C_3R_4 + C_4R_4 - C_5R_4\right) + 1}$

10.2853 X-INVALID-ORDER-2853 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.2854 X-INVALID-ORDER-2854 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_2C_4C_6R_1R_2R_4 + c_1C_2C_5C_6R_1R_2R_4 + C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_1R_4 + C_2C_3C_6R_1R_4 + C_2C_3C_6R_2R_4 + C_2C$

10.2855 X-INVALID-ORDER-2855 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_2 C_6 R_1 R_2 R_4 + C_1 C_2 C_6 R_1 R_4 R_6 + C_1 C_3 C_6 R_1 R_4 R_6 + C_1 C_4 C_6 R_1 R_4 R_6 + C_1 C_5 C_6 R_1 R_4 R_6 + C_1 C_2 C_6 R_1 R_4 R_6 +$

10.2856 X-INVALID-ORDER-2856 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $\frac{C_2C_3C_5R_1R_2}{s^4\left(C_1C_2C_3C_5R_1R_2R_4R_5 + C_1C_2C_4C_5R_1R_2R_4R_5\right) + s^3\left(C_1C_2C_3R_1R_2R_4 + C_1C_2C_5R_1R_2R_4 + C_1C_2C_5R_1R_2R_5 + C_1C_2C_5R_1R_4R_5 + C_1C_3C_5R_1R_4R_5 + C_2C_3C_5R_1R_4R_5 + C_2C_3$

10.2857 X-INVALID-ORDER-2857 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 + C_1 C_2 C_5 C_6 R_1 R_4 R_5 + C_1 C_3 C_5 C_6 R_1 R_4 R_5 + C_1 C_3 C_5 C_6 R_1 R_4 R_5 + C_1 C_2 C_5 C_6 R_1 R_4 R_5$

10.2858 X-INVALID-ORDER-2858 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 + C_1 C_2 C_5 C_6 R_1 R_4 R_5 + C_1 C_2 C_5 C_6 R_1 R_4 R_5$

10.2859 X-INVALID-ORDER-2859 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_5 R_1 R_2 R_4 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_6 + C_1 C_2$

10.2860 X-INVALID-ORDER-2860 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

 $\frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_4R_6s + s^2\left(C_2C_3R_1R_2R_4R_6 + C_3C_5R_1R_4R_5R_6\right)}{-R_4 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_4R_1R_2R_4R_5 + C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_5 + C_1C_2R_1R_4R_5 + C_1C_3R_1R_4R_5 + C_1C_3R_1R_4R_5 + C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 + C_2C_3R_2R$

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10.2861 X-INVALID-ORDER-2861 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_2C_3C_5R_1R_2R_4R_5s^2 + C_3R_1R_4 + s(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5)
H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5\right)}{-C_6R_4 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_3C_6R_1R_4
10.2862 X-INVALID-ORDER-2862 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_4R_5R_6\right) + s\left(C_2C_3R_1R_2R_4 + C_3C_5C_6R_1R_2R_4R_5 + C_3C_5C_6R_1R_2R_4R_5 + C_3C_5C_6R_1R_4R_5 + C_3C_5C_6R_1R_4
10.2863 X-INVALID-ORDER-2863 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-}{-R_4 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_5 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_4 R_1 R_2 R_4 R_5 - C_1 C_2 C_5 R_1 R_2 R_4 R_5 - C_1 C_2 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_6 R_1 R_2 R_5 R_6 + C_1 C_2 C_6 R_1 R_2
10.2864 X-INVALID-ORDER-2864 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)
                                           \frac{C_2C_3R_1R_2R_4R_6s^2 + C_3R_1R_4R_6s}{-R_4 + R_5 + s^3\left(-C_1C_2C_3R_1R_2R_3R_4 + C_1C_2C_3R_1R_2R_3R_5 + C_1C_2C_3R_1R_2R_4R_5 + C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_5 + C_1C_3R_1R_3R_4 + C_1C
10.2865 X-INVALID-ORDER-2865 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_2C_3R_1R_2R_4s + C_3R_1R_4
H(s) = \frac{C_2C_3R_1R_2R_4s + C_3R_1R_4}{-C_6R_4 + C_6R_5 + s^3\left(-C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1
10.2866 X-INVALID-ORDER-2866 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_2C_3C_6R_1R_2R_4R_6s^2 + C_3R_1R_4 + s(C_2C_3R_1R_2R_4 + C_3C_6R_1R_4R_6s^2)
                                           \frac{C_2C_3C_6R_1R_2R_4R_6s^2 + C_3R_1R_2R_4 + s(C_2C_3R_1R_2R_4 + C_3C_6R_1R_4R_5)}{-C_6R_4 + C_6R_5 + s^3(-C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6
10.2867 X-INVALID-ORDER-2867 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{-R_4 + R_5 + s^4 \left(-C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_5 R_6\right) + s^3 \left(-C_1 C_2 C_3 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 R_1 R_2 R_4 
10.2868 X-INVALID-ORDER-2868 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6\right)
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 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_4R_6s^2}{-C_1C_2C_3C_5R_1R_2R_3R_4s^4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_3R_1R_2R_4 + C_1C_2C_5R_1R_2R_4 - C_1C_3C_5R_1R_3R_4 - C_2C_3C_5R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_4 + C_1C_3R_1R_3 + C_1C_5R_1R_4 + C_2C_3R_1R_4 + C_2C_3R_2R_4 + C_2C_3R_2R$

10.2869 X-INVALID-ORDER-2869 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s + C_3C_5R_1R_4s}{-C_1C_2C_3C_5R_1R_2R_3R_4s^4 + C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_3 + C_1C_2C_3C_6R_1R_2R_4 + C_1C_2C_5C_6R_1R_2R_4 - C_1C_3C_5C_6R_1R_3R_4 - C_2C_3C_5C_6R_1R_2 + C_1C_2C_6R_1R_4 + C_1C_3C_6R_1R_3 + C_1C_3C_6R_1R_4 + C_1$

10.2870 X-INVALID-ORDER-2870 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_4s + s^2\left(C_2C_3C_5R_1R_2R_4 + C_3C_5C_6R_1R_4R_6\right)}{-C_1C_2C_3C_5C_6R_1R_2R_3R_4s^4 + C_6 + s^3\left(C_1C_2C_3C_6R_1R_2R_3 + C_1C_2C_3C_6R_1R_2R_4 + C_1C_2C_5C_6R_1R_2R_4 - C_1C_3C_5C_6R_1R_3R_4 - C_2C_3C_5C_6R_1R_3R_4 + C_1C_2C_6R_1R_2 + C_1C_3C_6R_1R_3 + C_1C_3C_6R_1$

- 10.2871 X-INVALID-ORDER-2871 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{-C_1C_2C_3C_5C_6R_1R_2R_3R_4R_6s^5 + s^4\left(-C_1C_2C_3C_5R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_4R_6 + C_1C_2C_3C_6R_1R_3R_4R_6 C_1C_2C_5C_6R_1R_3R_4R_6 C_1C_3C_5C_6R_1R_3R_4R_6 C_1C_3C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_5C_5C_6R_5C_5C_6R_5C_5C_5C_6R_5C_5C_5$
- 10.2872 X-INVALID-ORDER-2872 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{1}{s^4 \left(-C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 R_1 R_2 R_4 + C_1 C_2 C_3 R_1 R_2 R_4 + C_1 C_2 C_5 R_1 R_2 R_4 + C_1 C_2 C_5 R_1 R_2 R_5 + C_1 C_2 C_5 R_1 R_2 R_4 + C_1 C_2 C_5 R_1 R$
- **10.2873** X-INVALID-ORDER-2873 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_6 + s^4 \left(-C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 + C_1 C_2$
- 10.2874 X-INVALID-ORDER-2874 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_6 + s^4 \left(-C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 + C_1 C_2 C_3$
- 10.2875 X-INVALID-ORDER-2875 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{s^5 \left(-C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_5 R_1 R_2 R_4 R_5 + C_1 C$
- **10.2876** X-INVALID-ORDER-2876 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$
- $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5R_6s^3 + C_3C_3C_5R_1R_2R_3R_4R_5s^4 R_4 + R_5 + s^3\left(-C_1C_2C_3R_1R_2R_3R_4 + C_1C_2C_3R_1R_2R_3R_5 + C_1C_2C_3R_1R_2R_4R_5 C_1C_2C_5R_1R_2R_4R_5 C_1C_3C_5R_1R_3R_4R_5 C_2C_3C_5R_2R_3R_4R_5\right) + s^2\left(-C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_4R_5 C_1C_2C_3R_1R_2R_4R_5 C_1C_2C_3R_1R_2R_4 C_1C_2C_3R_1R_2R_4 C_1C_2C_3R_1R_2R_4 C_1C_2C_3R_1R_2R_4 C_1C_2C_3R_1R_2R_4 C_1C_2C_3R_1R_2R_4 C_1C_2C_3R_1R_$
- 10.2877 X-INVALID-ORDER-2877 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$
- 10.2878 X-INVALID-ORDER-2878 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$
- 10.2879 X-INVALID-ORDER-2879 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{-C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6s^5 R_4 + R_5 + s^4\left(-C_1C_2C_3C_5R_1R_2R_3R_4R_5 C_1C_2C_3C_6R_1R_2R_3R_4R_6 + C_1C_2C_3C_6R_1R_2R_4R_5R_6 + C_1C_2C_3C_6R_1R_3R_4R_5R_6 C_1C_2C_5C_6R_1R_2R_4R_5R_6 C_1C_3C_5C_6R_1R_3R_4R_5R_6 C_1C_3C_5C_6R_1R_3R_4R_5R_5 C_1C_3C_5C_6R_1R_3R_4R_5R_5 C_1C_3C_5C_6R_1R_3R_4R_5 C_1C_3C_5C_6R_1R_3R_4R_5 C_1C_3C_5C_6R_1R_3R_4R_5 C_1C_3C_5C_6R_1R_3R_4R_5 C_1C_3C_5C_6R_1R_3R_4R_5 C_1C_3C_5C_6R_1R_3R_4R_5 C_1C_3C_5C_6R_1R_3R_4R_5 C_1C_3C_5C_6R_1R_5R_5 C_1C_3C_5C_6R_1R_5R_5 C_1C_3C_5C_6R_1R_5R_5 C_1C_5$
- 10.2880 X-INVALID-ORDER-2880 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$
- $H(s) = \frac{C_2C_3R_1R_2R_6s^2 + C_3R_1R_6s}{C_1C_2C_3C_4R_1R_2R_3R_5s^4 + s^3\left(-C_1C_2C_3R_1R_2R_3 + C_1C_2C_3R_1R_2R_5 + C_1C_2C_4R_1R_2R_5 + C_1C_3C_4R_1R_3R_5 + C_2C_3C_4R_2R_3R_5\right) + s^2\left(-C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_1C_3R_1R_5 + C_2C_3R_1R_5 + C_2C_3R_2R_3 + C_2C_3R_$

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10.2881 X-INVALID-ORDER-2881 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
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 $H(s) = \frac{C_2C_3R_1R_2s + C_3R_1}{C_1C_2C_3C_4C_6R_1R_2R_3R_5s^4 - C_6 + s^3\left(-C_1C_2C_3C_6R_1R_2R_3 + C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_2R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_2C_3C_4C_6R_1R_3R_5 + C_2C_3C_4C_6R_1R_2 + C_1C_2C_6R_1R_2 + C_1C_2C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_3C$

10.2882 X-INVALID-ORDER-2882 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_6R_1R_2R_6s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_6R_1R_6\right)}{C_1C_2C_3C_4C_6R_1R_2R_3R_5s^4 - C_6 + s^3\left(-C_1C_2C_3C_6R_1R_2R_3 + C_1C_2C_3C_6R_1R_2R_5 + C_1C_2C_4C_6R_1R_2R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_2C_3C_4C_6R_1R_2 + C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_3 + C_1C_3$

10.2883 X-INVALID-ORDER-2883 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_2R_3R_5R_6s^5 + s^4\left(C_1C_2C_3C_4R_1R_2R_3R_5 - C_1C_2C_3C_6R_1R_2R_3R_6 + C_1C_2C_3C_6R_1R_2R_5R_6 + C_1C_2C_4C_6R_1R_3R_5R_6 + C_1C_2C_4C_6R_1R_3R_5R_6 + C_1C_2C_3C_4C_6R_1R_3R_5R_6 + C_1C_2C_3C_4C_6R_1R_3R_5R_6 + C_1C_2C_3C_4R_1R_2R_3R_5 + C_1C_2C_3C_4R_$

10.2884 X-INVALID-ORDER-2884 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_1R_6s}{C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_3C_4R_1R_2R_3 - C_1C_2C_3C_5R_1R_2 + C_1C_2C_3R_1R_2 + C_1C_2C_3R_1R_3 + C_1C_2C_4R_1R_2 - C_1C_2C_5R_1R_2 + C_1C_3C_4R_1R_3 - C_1C_3C_5R_1R_3 + C_2C_3C_5R_2R_3\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C_1C_4R_1 - C_1C_5R_1 + C_2C_3R_1R_3 + C_1C_3C_4R_1R_3 - C_1C_3C_5R_1R_3 + C_2C_3C_5R_2R_3\right) + s\left(C_1C_2R_1 + C_1C_3R_1 + C$

10.2885 X-INVALID-ORDER-2885 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2s + C_3C_5R_1}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^3\left(C_1C_2C_3C_4C_6R_1R_2R_3 - C_1C_2C_3C_5C_6R_1R_2 + C_1C_2C_3C_6R_1R_3 + C_1C_2C_3C_6R_1R_3 + C_1C_2C_3C_6R_1R_3 + C_1C_3C_5C_6R_1R_3 + C_2C_3C_4C_6R_1R_3 + C_2C_3C_5C_6R_1R_3 + C_2C_3C_5C_5C_6R_1R_3 + C_2C_3C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_$

10.2886 X-INVALID-ORDER-2886 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

10.2887 X-INVALID-ORDER-2887 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_2 + C_3 + C_4 - C_5 + s^4 \cdot (C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_6 - C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_6) + s^3 \cdot (C_1 C_2 C_3 C_4 R_1 R_2 R_3 - C_1 C_2 C_3 C_5 R_1 R_2 R_3 + C_1 C_2 C_3 C_6 R_1 R_3 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_6 + C_1 C_3 C_5 C_6 R_1 R_3 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_6 + C_1 C_2 C_3 C_6 R_1 R_3 R_6$

10.2888 X-INVALID-ORDER-2888 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_4C_5R_1R_2R_3R_5s^4 + C_2 + C_3 + C_4 - C_5 + s^3\left(C_1C_2C_3C_4R_1R_2R_3 - C_1C_2C_3C_5R_1R_2R_3 + C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_4C_5R_1R_2R_5 + C_1C_2C_4C_5R_1R_3R_5 + C_1C_4C_4C_5R_1R_3R_5 + C_1C_4C_4C_5R_1R_3R_5 + C_1C_4C_4C_4R_1R_3R_5 + C_1C_4C_4R_1R_3R_5 + C_1C_$

10.2889 X-INVALID-ORDER-2889 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.2890 X-INVALID-ORDER-2890 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

- **10.2891** X-INVALID-ORDER-2891 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- 10.2892 X-INVALID-ORDER-2892 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$
- $H(s) = \frac{C_2C_3C_5R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_5R_6s^3 + C_3R_1R_6s + s^2\left(C_2C_3R_1R_2R_5R_5 + C_1C_2C_3R_1R_2R_5 + C_1C_2C_3R_1R_2R$
- 10.2893 X-INVALID-ORDER-2893 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$
- $H(s) = \frac{-C_6 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_5 C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5\right) + s^3 \left(-C_1 C_2 C_3 C_6 R_1 R_2 R_3 + C_1 C_2 C_3 C_6 R_1 R_2 R_5 + C_1 C_2 C_3 C_6 R$
- 10.2894 X-INVALID-ORDER-2894 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_5R_6s^3 + C_3R_1 + C_3C_3C_5C_6R_1R_2R_3R_5 C_1C_2C_3C_6R_1R_2R_3R_5 C_1C_2C_3C_6R_1R_2R_3R_5$
- 10.2895 X-INVALID-ORDER-2895 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_5 R_6 C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_3$
- **10.2896** X-INVALID-ORDER-2896 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$
- $H(s) = \frac{1}{s^4 \left(-C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 + C_1 C_2 C_3 R_1 R_2 R_3 + C_1 C_2 C_3 R_1 R_2 R_5 + C_1 C_2 C_3 R_1 R_2 R_5 + C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_2 C_4 R_1 R_2 R_5 + C_1 C_2 C_4 R_1 R_2 R$
- 10.2897 X-INVALID-ORDER-2897 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$
- **10.2898** X-INVALID-ORDER-2898 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{-}{-C_6 + s^4 \left(-C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 + C_1 C_2 C_$
- 10.2899 X-INVALID-ORDER-2899 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{s^5 \left(-C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_6 R_1 R_3 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 R_1 R$
- **10.2900** X-INVALID-ORDER-2900 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{-C_1C_2C_3C_4C_5R_1R_2R_3R_4s^4 + C_2 + C_3 + C_4 C_5 + s^3\left(C_1C_2C_3C_4R_1R_2R_3 + C_1C_2C_3C_4R_1R_2R_4 + C_1C_2C_3C_4R_1R_3R_4 C_1C_2C_4C_5R_1R_2R_4 C_1C_3C_4C_5R_1R_3R_4 C_2C_3C_4C_5R_2R_3R_4\right) + s^2\left(C_1C_2C_3R_1R_2 + C_1C_2C_3R_1R_3 + C_1C_2C_3C_4R_1R_3R_4 C_1C_2C_3C_4R_1R_3R_4 C_1C_3C_4C_5R_1R_3R_4 C_2C_3C_4C_5R_1R_3R_4 C_2C_3C_4R_1R_3R_4 C_2C_3C_4R_1R_3R_4 C_2C_3C_4R_1R_3R_4 C_2C_3C_4C_5R_1R_3R_4 C_2C_3C_4C_5R_1R_3R_4 C_2C_3C_4R_1R_3R_4 C_2C_3C_4R_1$

- **10.2901** X-INVALID-ORDER-2901 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- 10.2902 X-INVALID-ORDER-2902 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- **10.2903** X-INVALID-ORDER-2903 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{-C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_6s^5 + C_2 + C_3 + C_4 C_5 + s^4\left(-C_1C_2C_3C_4C_5R_1R_2R_3R_4 + C_1C_2C_3C_4C_6R_1R_2R_4R_6 + C_1C_2C_3C_4C_6R_1R_3R_4R_6 C_1C_2C_3C_5C_6R_1R_2R_3R_6 C_1C_2C_4C_5C_6R_1R_2R_4R_6 C_1C_2C_3C_4C_5R_1R_2R_4R_6 C_1C_2C_3C_4C_5$
- 10.2904 X-INVALID-ORDER-2904 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{1}{C_2 + C_3 + C_4 C_5 + s^4 \left(-C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_3 + C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_3 + C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_3 + C_1 C_2 C_3 C_4 R_1 R_2 R_4 + C_1 C_2 C_3 C_$
- **10.2905** X-INVALID-ORDER-2905 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- 10.2906 X-INVALID-ORDER-2906 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$
- $H(s) = \frac{1}{C_2C_6 + C_3C_6 + C_4C_6 C_5C_6 + s^4 \left(-C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4 + C_1C_2C_3C_4C_5C_6R_1R_2R_3R_5 + C_1C_2C_3C_4C_5C_6R_1R_2R_4R_5 + C_1C_2C_3C_4C_5C_6R_1R_2R_4 + C_1C_2C_3C_4C_5$
- 10.2907 X-INVALID-ORDER-2907 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{1}{C_2 + C_3 + C_4 C_5 + s^5 \left(-C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_4 C_5 R_1 R_2$
- 10.2908 X-INVALID-ORDER-2908 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$
- $H(s) = \frac{-}{-C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5s^5 + s^4\left(-C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_4R_1R_2R_3R_5 + C_1C_2C_3C_4R_1R_2R_3R_5 C_1C_2C_3C_5R_1R_2R_3R_5 C_1C_2C_4C_5R_1R_2R_4R_5 C_1C_3C_4C_5R_1R_3R_4R_5 C_2C_3C_4C_5R_2R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_4R_1R_2R_3R_5 C_1C_2C_3C_4R_1R_2R_3R_5 C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_4R_1R_2R_3R_5 + C_1C_2C_3C_4R_1R_2R_3R_5 C_1C_2C_3C_4R_1R_2R_3R_5 C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_4R_1R_2R_3R_5 C_1C_2C_3C_4R_1R_2R_3R_5 C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_4R_1R_2R_3R_5 + C_1C_2C_3C_4R_1R_2R_3R_5 C_1C_2C_3C$
- 10.2909 X-INVALID-ORDER-2909 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$
- 10.2910 X-INVALID-ORDER-2910 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$
- $H(s) = \frac{-C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 C_6 + s^4\left(-C_1C_2C_3C_4C_6R_1R_2R_3R_4 + C_1C_2C_3C_4C_6R_1R_2R_3R_5 + C_1C_2C_3C_4C_6R_1R_2R_4R_5 + C_1C_2C_3C_4C_6R_1R_2R_3R_5 C_1C_2C_4C_5C_6R_1R_2R_4R_5 C_1C_2C_4C_5C_6R_1R_2R_4R_5 C_1C_3C_4C_5C_6R_1R_2R_4R_5 C_1C_3C_4C_5C_6R_1R_3R_4R_5 C_1C_3C_4C_5C_6R_1R_3R_5 C_1C_3C_4C_5C_6R_1R_3R_5 C_1C_3C_4C_5C_6R_1R_3R_5 C_1C_3C_4C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6$

- 10.2911 X-INVALID-ORDER-2911 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{-C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^6 + s^5\left(-C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5 C_1C_2C_3C_4C_6R_1R_2R_3R_4R_6 + C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5R_6 C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5 C_1C_2C_3C_4C_6R_1R_2R_3R_5 C_1C_2C_3C_4C_6R_1R_2R_3R_5 C_1C_2C_3C_4C_5R_1R_2R_3R_5 C_1C_2C_3C_4C_5R_1R_2R_3R_5 C_1C_2C_3C_4C_5R_1R_2R_3R_5 C_1C_2C_3C_4$
- 10.2912 X-INVALID-ORDER-2912 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$
- $H(s) = \frac{C_2C_3C_4R_1R_2R_3R_4R_5s^4 R_4 + R_5 + s^3\left(-C_1C_2C_3R_1R_2R_3R_4 + C_1C_2C_3R_1R_2R_3R_5 + C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_4R_1R_2R_4R_5 + C_1C_3C_4R_1R_3R_4R_5 + C_2C_3C_4R_2R_3R_4R_5\right) + s^2\left(-C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_4 + C_1C_2R_1R_2R_4R_5 + C_1C_2C_3R_1R_2R_4R_5 + C_1C_2C_3R_1R_2R_4 + C_1C_$
- **10.2913** X-INVALID-ORDER-2913 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 s^4 C_6 R_4 + C_6 R_5 + s^3 \left(-C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R$
- 10.2914 X-INVALID-ORDER-2914 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_6s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5s^4 C_6R_4 + C_6R_5 + s^3\left(-C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_3R_4R_5 + C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_3C_6R_1R_3R_4 + C_1C_2C_3C_6R_1R_3C$
- 10.2915 X-INVALID-ORDER-2915 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$
- 10.2916 X-INVALID-ORDER-2916 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$
- $I(s) = \frac{C_2C_3C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2}{s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4 C_1C_2C_3C_5R_1R_2R_3R_4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_3R_1R_2R_4 + C_1C_2C_4R_1R_2R_4 C_1C_2C_5R_1R_2R_4 + C_1C_3C_4R_1R_3R_4 C_1C_3C_5R_1R_3R_4 + C_2C_3C_5R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_2C_3R_1R_2R_4 + C_1C_2C_4R_1R_2R_4 C_1C_3C_5R_1R_3R_4 + C_2C_3C_5R_1R_3R_4 + C_2C_3C_3R_1R_3R_4 + C_2C_3C_3R_1R_3$
- 10.2917 X-INVALID-ORDER-2917 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_4 \right) + s^3 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 + C_1 C_3 C_4 C_6 R_1 R_3 R_4 C_1 C_3 C_5 C_6 R_1 R_3 R_4 + C_2 C_3 C_4 C_6 R_1 R_2 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 + C_1 C_2 C_3 C_6 R$
- 10.2918 X-INVALID-ORDER-2918 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- 10.2919 X-INVALID-ORDER-2919 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_3 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_4 R_6 \right) + s^4 \left(C_1$
- 10.2920 X-INVALID-ORDER-2920 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5s^5 + s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4 C_1C_2C_3C_5R_1R_2R_3R_4 + C_1C_2C_3C_5R_1R_2R_3R_5 + C_1C_2C_3C_5R_1R_2R_4R_5 + C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_5R_1R_2R_5 + C_1C_2C_3C_5R_1R_2R_5 + C_$

- 10.2921 X-INVALID-ORDER-2921 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 + C_6 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_3R_4 C_1C_2C_3C_5C_6R_1R_2R_3R_4 + C_1C_2C_3C_5C_6R_1R_2R_4R_5 + C_1C_2C_3C_5C_6R_1R_2R_5C_5C_6R_1R_2R_5C_5C_6R_1R_2R_5C_5C_6R_1R_2R_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_5C_6R_1R_5C_5C_5C_5C_5C_5C_5C_5C_$
- 10.2922 X-INVALID-ORDER-2922 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 + C_6 + s^4(C_1C_2C_3C_4C_6R_1R_2R_3R_4 C_1C_2C_3C_5C_6R_1R_2R_3R_4 + C_1C_2C_3C_5C_6R_1R_2R_4R_5 + C_1C_2C_3C_5C_6R_1R_3R_4R_5 + C_1C_2C_3C_5C_6R_1R_2R_4R_5 + C_1C_2C_3C_5C_6R_1R_3R_4R_5 + C_1C_2C_3C_5C_6R_1R_3R_4R_5 + C_1C_2C_3C_5C_6R_1R_3R_4 + C_1C_2C_3C_5C_6R_1R_3R_4R_5 + C_1C_2C_3C_5C_6R_1R_3R_4 + C_1C_2C_3C_5C_6R_1R_3R_4 + C_1C_2C_3C_5C_6R_1R_3R_4 + C_1C_2C_3C_5C_6$
- **10.2923** X-INVALID-ORDER-2923 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- 10.2924 X-INVALID-ORDER-2924 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$
- $H(s) = \frac{-}{-R_4 + R_5 + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 R_5 C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 R_1 R_2 R_4 R_5 + C_1 C_2 C_3 R_1 R$
- 10.2925 X-INVALID-ORDER-2925 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$
- $H(s) = \frac{-}{-C_6R_4 + C_6R_5 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5 C_1C_2C_3C_6R_1R_2R_3R_4R_5\right) + s^3\left(-C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_2C_3C_6R_1R_3R_4R_5 + C_1C_2C_3C_6R_1R_2R_4R_5 + C_1C_2C_3C_6R_1R_2R_$
- 10.2926 X-INVALID-ORDER-2926 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$
- $-C_6R_4 + C_6R_5 + s^4 (C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5 C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5) + s^3 (-C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_2C_3C_6R_1R_2R_4R_5 + C_1$
- 10.2927 X-INVALID-ORDER-2927 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{-R_4 + R_5 + s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 R_6 C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_5 C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 R_5 C_1 C_2 C_3 C_6 R_1 R_2 R_3$
- 10.2928 X-INVALID-ORDER-2928 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)$
- **10.2929** X-INVALID-ORDER-2929 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_2C_3R_1R_2R_3R_4s^2 + R_1R_4 + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4\right)}{C_1C_2C_3C_6R_1R_2R_3R_4F_5s^4 + s^3\left(-C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_5 + C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_3C_3R_3R_4R_5 + C_2C_3C_3C_3R_3R_4R_5 + C_2C_3C_3C_3R_3R_4R_5 + C_2C_3C_3C_3R_3R_4R_5 + C_2C_3C_3C_3R_3R_4R_5 + C_2C_3C_3C_3R_3R_4 + C_2C_3C_3C_3R_3R_4 + C_2C_3C_3C_3R_3R_4 + C_2C_3C_3C_3R_3R_4$
- **10.2930** X-INVALID-ORDER-2930 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$
- $C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}s^{3} + R_{1}R_{4} + s^{2}\left(C_{2}C_{3}R_{1}R_{2}R_{3}R_{4} + C_{2}C_{6}R_{1}R_{2}R_{4}R_{6} + C_{3}C_{6}R_{1}R_{3}R_{4}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R_{4} + C_{3}R_{1}R_{3}R_{4} + C_{6}R_{1}R_{4}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R_{4} + C_{3}R_{1}R_{4}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R_{4}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R_{4} + C_{3}R_{1}R_{4}R_{6}\right) + s\left(C_{2}R_{1}R_{2}$ $H(s) = \frac{C_2C_3C_6R_1R_2R_3R_4R_6s^5 + R_1R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_6R_1R_2R_4R_6 + C_3C_6R_1R_3R_4R_6\right) + s\left(C_2R_1R_2R_4 + C_3R_1R_3R_4 + C_6R_1R_4R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_3R_4R_5s^4 + s^3\left(-C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5\right) + s^2\left(-C_1C_6R_1R_3R_4 + C_1C_6R_1R_3R_4 + C_1C_6R_1R_4R_5 + C_2C_6R_1R_4R_5\right)}$

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10.2931 X-INVALID-ORDER-2931 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{1}{C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6s^4 - R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R_3R_4R_6 + C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5R_6 + C_1C_3C_6R_1R_3R_4R_5R_6 + C_1C_3C_6R_1R_3R_4R_5R_5 + C_1C_3C_6R_1R_3R_4R_5R_5 + C_1C_3C_6R_1R_3R_4R_5R_5 + C_1C_3C_6R_1R_3R_4R_5R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_4R_5 + C_1C_3C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_$

10.2932 X-INVALID-ORDER-2932
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_4R_6s + s^2\left(C_2C_5R_1R_2R_4R_6 + C_3C_5R_1R_3R_4R_6\right)}{R_3 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 - C_1C_2C_5R_1R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_4 + C_1C_3R_1R_3R_4 + C_1C_5R_1R_3R_4 + C_2C_3R_1R_3R_4 + C_2C_3R_2R_3R_4 - C_2C_5R_2R_3R_4\right) + s\left(C_1R_1R_3 + C_1R_1R_4 + C_2R_1R_4 + C_2R_2R_4 + C_2R_2R_4 + C_2R_2R_4\right)}$

10.2933 X-INVALID-ORDER-2933 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.2934 X-INVALID-ORDER-2934 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_3R_4 + C_2C_5C_6R_1R_3R_4R_6\right) + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 - C_1C_2C_5C_6R_1R_2R_4 + C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_2C_3C_6R_1R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4\right) + s\left(C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_2C_3C_6R_1R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4\right) + s\left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_2C_3C_6R_1R_3R_4 + C_2C_3C_6R_2R_3R_4 +$

10.2935 X-INVALID-ORDER-2935 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_3 + R_4 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_6 R_1 R$

10.2936 X-INVALID-ORDER-2936 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $\frac{C_2C_3C_3C_5R_1R_2R_3R_4R_5s^4 + R_3 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 - C_1C_2C_5R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_3R_5 + C_1C_2C_5R_1R_2R_4R_5 + C_1C_2C_5R_1R_3R_4R_5 + C_1C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_4R_5 + C_1C_2C_5R_1R_3R_4R_5 + C_2C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_3R_4 + C_1C_2C_5R_1R_3R_4R_5 + C_1C_2C_5R_1R_3R_4R_5 + C_2C_3C_5R_1R_3R_4R_5 + C_2C_3C_5R_2R_3R_4R_5\right) + s^2\left(C_1C_2R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_3R_4 + C_1C_2C_5R_1$

10.2937 X-INVALID-ORDER-2937 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 - C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_5 + C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_3C_5C_6R_1R_3R_4R_5 + C_1C_3C_5C_6R_1R_3R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_6R_$

10.2938 X-INVALID-ORDER-2938 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $\overline{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 - C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_2C_5C_6R_1R_3R_5 + C_1C_2C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_5C_5$

10.2939 X-INVALID-ORDER-2939 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

10.2940 X-INVALID-ORDER-2940 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}s^{3} + R_{1}R_{4}R_{6} + s^{2}\left(C_{2}C_{3}R_{1}R_{2}R_{3}R_{4}R_{6} + C_{2}C_{5}R_{1}R_{2}R_{4}R_{5}R_{6} + C_{3}C_{5}R_{1}R_{3}R_{4}R_{5}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R_{4}R_{6} + C_{3}R_{1}R_{2}R_{4}R_{5}R_{6} + C_{3}C_{5}R_{1}R_{3}R_{4}R_{5}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R_{4}R_{6} + C_{3}R_{1}R_{2}R_{4}R_{5}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R_{4}R_{6} + C_{3}R_{1}R_{2}R_{4}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R_{4}R_{6}\right) + s\left(C_{2}R_{1}R_{2}R$

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10.2941 X-INVALID-ORDER-2941 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
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 $C_2C_3C_5R_1R_2R_3R_4R_5s^3 + R_1R_4 + s^2(C_2C_3R_1R_2R_3R_4 + C_2C_5R_1R_2R_4R_5 + C_3C_5R_1R_3R_4R_5)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_5s^3 + R_1R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_5R_1R_2R_4R_5 + C_3C_5R_1R_3R_4R_5\right)}{s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5 - C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_$

10.2942 X-INVALID-ORDER-2942 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_4 + s^3\left(C_2C_3C_5R_1R_2R_3R_4R_5 + C_2C_3C_6R_1R_2R_3R_4R_5 + C_2C_5C_6R_1R_2R_3R_4R_5 + C_2C_5C_6R_1R_2R_3R_4R_5 + C_2C_5C_6R_1R_2R_3R_4R_5 + C_2C_5C_6R_1R_2R_3R_4R_5 + C_2C_5C_6R_1R_2R_3R_4R_5 + C_2C_5C_6R_1R_2R_3R_4R_5 + C_2C_5C_6R_1R_3R_4R_5 + C_2C_5C_6R_1R_3R_$

10.2943 X-INVALID-ORDER-2943 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-R_3R_4 + R_3R_5 + R_4R_5 + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6 - C_1C_2C_5C_6R_1R_2R_3R_4R_5 - C_1C_2C_5R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R_3R_4R_6 + C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R_3R_4R$

10.2944 X-INVALID-ORDER-2944 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_3R_6s^2 + R_1R_6 + s\left(C_2R_1R_2R_6 + C_3R_1R_3R_6\right)}{-R_3 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_5 + C_1C_2A_1R_2R_3 + C_1C_2R_1R_2R_3 + C_1C_2R_1R_3R_5 + C_1C_4R_1R_3R_5 + C_2C_3R_1R_3R_5 + C_2C_3R_2R_3R_5 + C_2C_4R_2R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_1R_5 + C_2R_1R_3 + C_1C_2R_1R_3R_5 + C_2C_3R_1R_3R_5 + C_2C_3R_1R_3$

10.2945 X-INVALID-ORDER-2945 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_3s^2 + R_1 + s\left(C_2R_1R_2 + C_3R_1R_3\right)}{s^4\left(C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_2C_4C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_4C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_2C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3 + C_1C_2C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_3R_5 + C_2C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3R_5 + C_1C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3R_5 + C_2C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3R_5 + C_2C_3C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3R_5 + C_2C_3C_6R_2R_3R_5 + C_2C_3C_6R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_3R_5 + C_2C_3C_6R_1R_3R_5\right) + s^2\left(-C_1C_6R_1R_3R_5$

10.2946 X-INVALID-ORDER-2946 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{6}s^{3}+R_{1}+s^{2}\left(C_{2}C_{3}R_{1}R_{2}R_{3}+C_{2}C_{6}R_{1}R_{2}R_{6}+C_{3}C_{6}R_{1}R_{3}R_{6}\right)+s\left(C_{2}R_{1}R_{2}+C_{3}R_{1}R_{3}+C_{6}R_{1}R_{6}\right)}{s^{4}\left(C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{2}R_{5}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{4}C_{6}R_{2}R_{3}R_{5}\right)+s^{2}\left(-C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{4}C_{6}R_{2}R_{3}R_{5}\right)+s^{2}\left(-C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{4}C_{6}R_{2}R_{3}R_{5}\right)+s^{2}\left(-C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{4}C_{6}R_{2}R_{3}R_{5}\right)+s^{2}\left(-C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{4}C_{6}R_{2}R_{3}R_{5}\right)+s^{2}\left(-C_{1}C_{6}R_{1}R_{3}R_{5}+C_{1}C_{2}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{3}R_{5}+C_{2}C_{4}C_{6$

10.2947 X-INVALID-ORDER-2947 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-}{-R_3 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_6 R_1 R_2 R_3 R_6 + C_1 C_2 C_6 R_1 R_3 R_5 R_6 + C_1 C_3 C_6 R_1 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_3 R_5 R_6 + C_1 C_2 C_6 R_1 R_5 R_5 R_6 + C_1 C_2 C_6 R_1 R$

10.2948 X-INVALID-ORDER-2948 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $\frac{C_2C_3C_5R_1R_2R_3R_6s^3 + C_5R_1R_6s + s^2\left(C_2C_5R_1R_2R_6 + C_3C_5R_1R_3R_6\right)}{s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_5R_1R_2R_3 + C_1C_2C_5R_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_1C_4R_1R_3 - C_1C_5R_1R_3 + C_2C_3R_2R_3 + C_2C_4R_2R_3 - C_2C_5R_2R_3\right) + s\left(C_1R_1 + C_2R_1 + C_2R_2 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3\right) + 1}{s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2C_5R_1R_2R_3 + C_1C_2C_5R_1R_2R_3 + C_1C_2C_5R_1R_2R_3 + C_1C_2C_5R_1R_2R_3 + C_2C_3R_2R_3 + C_2C_3R$

10.2949 X-INVALID-ORDER-2949 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

10.2950 X-INVALID-ORDER-2950 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

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10.2951 X-INVALID-ORDER-2951 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_6 + C_1 C_2 C_4 R_1 R_2 R_3 - C_1 C_2 C_5 R_1 R_2 R_3 + C_1 C_2 C_6 R_1 R_2 R_6 + C_1 C_2 C_6 R_1 R_3 R_6 + C_1 C_4 C_6 R_1 R_3 R_6 - C_1 C_5 C_6 R_1 R_3 R_6 + C_2 C_3 C_6 R_1 R_3 R_6 + C_1 C_2 C_6 R_1 R_3 R_6 +$

10.2952 X-INVALID-ORDER-2952
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

 $\frac{C_2C_3C_5R_1R_2R_3R_6s^3 + C_2C_3C_5R_1R_2R_3R_5 + C_1C_2C_4C_5R_1R_2R_3 + C_1C_2C_5R_1R_2R_3 + C_1C_2C_5R_1R_2R_3 + C_1C_2C_5R_1R_3R_5 + C_1C_3C_5R_1R_3R_5 + C_1C_3C_5R_1R_3R_5 + C_2C_3C_5R_1R_3R_5 + C_2C_3C_5R_3R_5 + C_2C_$

10.2953 X-INVALID-ORDER-2953
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 + C_1 C_2 C_5 C_6 R_1 R_3 R_5 + C_1 C_3 C_5 C_6 R_1 R_3 R_5 + C_1 C_4 C_5 C_6 R_1 R_3 R_5 + C_1 C_4 C_5 C_6 R_1 R_3 R_5 + C_2 C_3 C_5 C_6 R_1 R_3 R_5 + C_2 C_3 C_5 C_6 R_1 R_3 R_5 + C_1 C_4 C_5 C_6 R_1 R_3 R_5 + C_1 C_4 C_5 C_6 R_1 R_3 R_5 + C_2 C_3 C_5 C_6 R_1 R_3 R_5$

10.2954 X-INVALID-ORDER-2954
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2}{C_6 + s^4\left(C_1C_2C_3C_5C_6R_1R_2R_3R_5 + C_1C_2C_4C_5C_6R_1R_2R_3 + C_1C_2C_5C_6R_1R_2R_3 + C_1C_2C_5C_6R_1R_2R_3 + C_1C_2C_5C_6R_1R_2R_3 + C_1C_2C_5C_6R_1R_3R_5 + C_1C_3C_5C_6R_1R_3R_5 + C_1C_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_5C_5C_5$

10.2955 X-INVALID-ORDER-2955
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_6 + C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_6 + C_1 C_2$

10.2956 X-INVALID-ORDER-2956
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_5R_6s^3 + R_1R_6 + s^2\left(C_2C_3R_1R_2R_3R_6 + C_2C_5R_1R_2R_5R_6 + C_3C_5R_1R_3R_5R_6\right) + s\left(C_2R_1R_2R_6 + C_3R_1R_3R_6 + C_5R_1R_5R_6\right)}{-R_3 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_5 + C_1C_2R_1R_2R_3R_5 + C_1C_2R_1R_2R_3 + C_1C_2R_1R_3R_5 + C_1C_3R_1R_3R_5 + C_1C_3R_1R_3R_5 + C_2C_3R_1R_3R_5 + C_2C_3R_2R_3R_5 + C_2C_3R_2R_3R_$

10.2957 X-INVALID-ORDER-2957
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_5s^3 + R_1 + s^2\left(C_2C_3R_1R_2R_3 + C_2C_5R_1R_2R_5 + C_3C_5R_1R_3R_5\right) + s\left(C_2R_1R_2 + C_3R_1R_3R_5\right) + s\left(C_2R_1R_2 + C_3R_1R_3R_5\right) + s\left(C_2R_1R_2R_3R_5 + C_1C_2C_6R_1R_3R_5 + C_1C_2C_$

10.2958 X-INVALID-ORDER-2958
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

 $\frac{C_2C_3C_5C_6R_1R_2R_3R_5R_6s^4 + R_1 + s^3\left(C_2C_3C_5R_1R_2R_3R_5 + C_2C_3C_6R_1R_2R_3R_6 + C_2C_5C_6R_1R_2R_3R_6 + C_3C_5C_6R_1R_3R_5R_6\right) + s^2\left(C_2C_3R_1R_2R_3 + C_2C_5R_1R_2R_5 + C_2C_6R_1R_2R_6 + C_3C_5C_6R_1R_3R_5 + C_3C_5C_6R_1R_$

10.2959 X-INVALID-ORDER-2959
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{-R_3 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_5 R_6\right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 R_1 R_2 R_3 R_5 - C_1 C_2 C_6 R_1 R_2 R_3 R_6 + C_1 C_2 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_2 R_5 + C_1 C_2$

10.2960 X-INVALID-ORDER-2960
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$$

 $\frac{C_2C_3C_4R_1R_2R_3R_4R_5s^4 - R_3 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_5 - C_1C_2C_4R_1R_2R_3R_4 + C_1C_2C_4R_1R_2R_3R_5 + C_1C_2C_4R_1R_3R_4R_5 + C_1C_3C_4R_1R_3R_4R_5 + C_2C_3C_4R_1R_3R_4R_5 + C_2C_3C_4R_1R_3R_4 +$

- 10.2961 X-INVALID-ORDER-2961 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5s^5 + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_5 C_1C_2C_4C_6R_1R_2R_3R_5 + C_1C_2C_4C_6R_1R_2R_4R_5 + C_1C_2C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_$
- **10.2962** X-INVALID-ORDER-2962 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

- $H(s) = \frac{C_2C_3C_4C_6R_1R_2R_3R_4R_6s^4 + R_1 + s^3\left(C_2C_3C_4R_1R_2R_3R_4R_6s^4 + R_1 + s^3\left(C_2C_3C_4R_1R_2R_3R_4R_5s^5 + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_4C_6R_1R_2R_3R_5 + C_1C_2C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_2C_3C_4C_6R_1R_3R_4R_5 + C_2C_3C_4C_6R_1R_3R_4 + C_2C_3C_4C_6R_1R_3R_4 + C_2C_3C_4C_6R_1R_3R_4 + C_2C_3C$
- **10.2963** X-INVALID-ORDER-2963 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5R_6s^5 R_3 + R_5 + s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4R_5 + C_1C_2C_4C_6R_1R_2R_3R_4R_6 + C_1C_2C_4C_6R_1R_2R_3R_4R_5 + C_1C_2C_4C_6R_1R_2R_3R_4R_6 + C_1C_2C_4C_6R_1R_2R_3R_4R_5 + C_1C_2C_4C_6R_1R_3R_4R_5 + C_1C_2C_4C_6R_1R_3R_5 + C_1C_2C_4C_6R_1R_3R_5 + C_1C_2C_4C_6R_1R_5 + C_1C_2C_4C_6R_1R_5 + C_1C_2C_4C_6R_1R_5 + C_1C_2C_4C_6R_1R_5 + C_1C_2C_4C_6R_1R_5 + C_1C_2C_4C_6R_1R_5 + C_1C_2C_4C_$
- 10.2964 X-INVALID-ORDER-2964 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_3R_4R_6s^4 + C_5R_1R_6s + s^3\left(C_2C_3C_5R_1R_2R_3R_6 + C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4R_1R_2R_3 + C_1C_2C_4R_1R_2R_3 + C_1C_2C_4R_1R_2R_3 + C_1C_2C_4R_1R_3R_4 C_1C_4C_5R_1R_3R_4 + C_2C_3C_4R_1R_3R_4 + C_2C_3C_3R_1R_3R_4 + C_2C_3C_3R_3R_4 + C_2C_3C$
- **10.2965** X-INVALID-ORDER-2965 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$
- $H(s) = \frac{C_2C_3C_4C_5R_1R_2}{C_6 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_3R_4 C_1C_2C_4C_5C_6R_1R_2R_3 + C_1C_2C_4C_6R_1R_2R_3 + C_1C_4C_5C_6R_1R_2R_3 + C_1C_4C_5C_6R_1R_3R_4 + C_1C_4C_5C_6R_1R_3R_4 + C_1C_4C_5C_6R_1R_3R_4 + C_1C_4C_5C_6R_1R_3R_4 + C_1C_4C_5C_6R_1R_3R_4 + C_1C_4C_5C_6R_1R_3C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_5C_6R_1R_3C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5$
- 10.2966 X-INVALID-ORDER-2966 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{C_2C_3C_4C_5C_6R_1R_2R_3R_4R_6s^4 + C_5R_1 + s^3\left(C_2C_3C_4C_5R_1R_2R_3R_4 + C_2C_3C_5C_6R_1R_2R_3R_4 + C_2C_3C_5C_6R_1R_2R_3R_4 + C_2C_3C_5C_6R_1R_2R_3R_4 + C_2C_3C_5C_6R_1R_2R_3 + C_2C_4C_6R_1R_2R_3 + C_2C_$
- 10.2967 X-INVALID-ORDER-2967 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_6 C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_6 + C_1 C_2$
- 10.2968 X-INVALID-ORDER-2968 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5s^5 + s^4(C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_5R_1R_2R_3R_4 + C_1C_2C_4C_5R_1R_2R_3R_5 + C_1C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4C_5R_1R_3R_4 + C_1C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4C_5R_1R_2R_3R_4 + C_1C_2C_4C_5R_1R_2R_3R_4$
- **10.2969** X-INVALID-ORDER-2969 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 + C_6 + s^4(C_1C_2C_3C_4C_6R_1R_2R_3R_4 + C_1C_2C_4C_5C_6R_1R_2R_3R_5 + C_1C_2C_4C_5C_6R_1R_2R_3R_5 + C_1C_2C_4C_5C_6R_1R_2R_3R_4 + C_1C_2C_4C_5C_6R_1R_3R_4R_5 + C_1C_2C_4C_5C_6R_1R_3R_4C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5$
- 10.2970 X-INVALID-ORDER-2970 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 + C_6 + s^4(C_1C_2C_3C_4C_6R_1R_2R_3R_4 + C_1C_2C_4C_5C_6R_1R_2R_3R_4 + C_1C_2C_4C_5C_6R_1R_2R_3R_5 + C_1C_2C_4C_5C_6R_1R_2R_3R_5 + C_1C_2C_4C_5C_6R_1R_2R_3R_4 + C_1C_2C_4C_5C_6R_1R_2R_3R_5 + C_1C_2C_4C_5C_6R_1R_3R_4R_5 + C_1C_2C_4C_5C_6R_1R_3R_4C_5C_6R_1R_3R_5 + C_1C_2C_4C_5C_6R_1R_3R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_6R_1R_5$

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10.2971 X-INVALID-ORDER-2971 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
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 $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^6 + s^5(C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5 + C_1C_2C_3C_4C_6R_1R_2R_3R_4R_6 + C_1C_2C_4C_5C_6R_1R_2R_3R_4R_6 + C_1C_4C_5C_6R_1R_2R_3R_4R_6 + C_1C_4C_5C_6R_1R_2R_3R_4R_6 + C_1C_4C_5C_6R_1R_2R_3R_4R_6 + C_1C_4C_5C_6R_1$

10.2972 X-INVALID-ORDER-2972
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_3R_4R_5R_6s^4 + R_1R_6 + s^3\left(C_1C_2C_3C_4R_1R_2R_3R_4R_5 - C_1C_2C_4R_1R_2R_3R_4R_5 - C_1C_2C_4R_1R_2R_3R_4 + C_1C_2C_4R_1R_2R_3R_5 + C_1C_2C_4R_1R_3R_4R_5 - C_1C_2C_5R_1R_2R_3R_4 + C_1C_2C_4R_1R_2R_3R_4 + C_1C_2C_$

10.2973 X-INVALID-ORDER-2973 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 - C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 \right) + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5$

10.2974 X-INVALID-ORDER-2974 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5F_6s^5 + R_1 + s^4\left(C_2C_3C_4C_5R_1R_2R_3R_4R_5 + C_2C_3C_4C_6R_1R_2R_3R_4R_6 + C_2C_3C_5C_6R_1R_2R_3R_5R_6 + C_2C_4C_5C_6R_1R_2R_3R_4R_5 + C_2C_4C_6R_1R_2R_3R_4R_5 + C_2C_4C_6$

10.2975 X-INVALID-ORDER-2975 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{-R_3 + R_5 + s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 R_6 - C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 - C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_6 R_1 R_2$

10.2976 X-INVALID-ORDER-2976 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $\frac{C_2C_3R_1R_2R_3R_4R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5 + C_1C_2R_1R_2R_3R_4 + C_1C_2R_1R_3R_4R_5 + C_1C_2R_1R_3R$

10.2977 X-INVALID-ORDER-2977 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{1}{C_6 s}\right)$

 $C_2C_3R_1R_2R_3R_4s^2 + R_1R_4 + s(C_2R_1R_2R_4 + C_3R_1R_2R_4 + C_3R_1R_4 +$

 $H(s) = \frac{C_2C_3R_1R_2R_3R_4s^2 + R_1R_4 + s\left(C_2R_1R_2R_3 + C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 + C_2C_3C_6R_1R_3R_4R_5 + C_2C_3C_3C_3R_3R_4R_5 + C_2C_3C_3C_3R_3R_4R_5 + C_2C_3C_3C_3R$

10.2978 X-INVALID-ORDER-2978 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $\frac{C_2C_3C_6R_1R_2R_3R_4R_6s^3 + R_1R_4 + s^2\left(C_2C_3R_1R_2R_3R_4 + C_2C_6R_1R_2R_4R_6 + C_3C_6R_1R_3R_4R_6\right)}{s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4 + C_1$

10.2979 X-INVALID-ORDER-2979 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{-R_3R_4 + R_3R_5 + R_4R_5 + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_1R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5 + C_1C_2C_4R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_6 + C_1C_2C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_2$

10.2980 X-INVALID-ORDER-2980 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6\right)$

 $C_2C_3C_5R_1R_2R_3R_4R_6s^3 + C_5R_1R_4R_6s + s^2(C_2C_5R_1R_2R_4R_6 + C_3C_5R_1R_3R_4R_6)$

 $\frac{C_2C_3C_5n_1n_2n_3n_4n_6s^2 + C_5n_1n_4n_6s + s - (C_2C_5n_1n_2n_4n_6 + C_3C_5n_1n_3n_4n_6)}{R_3 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 + C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_3 + C_1C_2R_1R_3R_4 + C_1C_3R_1R_3R_4 + C_1C_5R_1R_3R_4 + C_2C_3R_1R_3R_4 + C_2C_3R_2R_3R_4 +$

10.2981 X-INVALID-ORDER-2981 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4\right)}{C_6R_3 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_6R_1R_2R_3 + C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R_3C$

10.2982 X-INVALID-ORDER-2982 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_4 + s^2\left(C_2C_3C_5R_1R_2R_3R_4 + C_2C_5C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_3R_4R_6\right) + s\left(C_2C_5R_1R_2R_4 + C_2C_5C_6R_1R_2R_3R_4 + C_2C_5C_6R_1R_3R_4 + C_2C_5C_6R_1R_3$

10.2983 X-INVALID-ORDER-2983 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_3 + R_4 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_4 R_1 R_2 R_3 R_4 + C_1 C_2 C_6 R$

10.2984 X-INVALID-ORDER-2984 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $\overline{R_3 + R_4 + s^4 \left(C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 R_4 + C_1 C_2 C_4 R_1 R_2 R_3 R_4 + C_1 C_2 C_5 R_1 R$

10.2985 X-INVALID-ORDER-2985 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{1}{C_{6}R_{3} + C_{6}R_{4} + s^{4}\left(C_{1}C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{2}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C$

10.2986 X-INVALID-ORDER-2986 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $\overline{C_6R_3 + C_6R_4 + s^4 \left(C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5 + C_1C_2C_4C_5C_6R_1R_2R_3R_4R_5 \right) + s^3 \left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_5 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_5 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_2C_5C_6R_1R_3R_4 + C_1C_2C_5C_6R_1R_3R_4R_5 + C_1C_2C_5C_6R_1R_3R_4 + C_1C_2C_5C_6R_1R_3R_4 + C_1C_2C_5C_6R_1R_3R_4 + C_1C_2C_5C_$

10.2987 X-INVALID-ORDER-2987 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_3 + R_4 + s^5 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_4 R_6 + C_1 C_2 C_5 C_6 R_1 R_2 R$

10.2988 X-INVALID-ORDER-2988 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

 $C_2C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_4R_6 + s^2(C_2C_3R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_4R_5R_6 + C_3C_5R_1R_3R_4R_5R_6 + C_3C_5R_1R_3R_4R_5R_5 + C_3C_5R_1R_3R_4R_5R_5 + C_3C_5R_1R_3R_4R_5R_5 + C_3C_5R_1R_3R_5R_5 + C_3C_5R_5R_5 + C_3C_5R_5 + C_3C_5R_5$ $\frac{C_2C_3C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_4R_6 + s^2\left(C_2C_3R_1R_2R_3R_4R_6 + C_2C_5R_1R_2R_4R_5R_6 + C_3C_5R_1R_3R_4R_5 + C_3C_5R_1R_2R_3R_4R_5 + C_3C_5R_1R_3R_4R_5 + C_3C_5R_3R_5R_5R_5 + C_3C_5R_5R_5R_5R_5 + C_3C_5R_5R_5R_5R_5 + C_3C_5$

10.2989 X-INVALID-ORDER-2989 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_2C_3C_5R_1R_2R_3R_4R_5s^3 + R_1R_4 + s^2(C_2C_3R_1R_2)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_4R_5 + C_1C_2C_6R_1R_2R$

10.2990 X-INVALID-ORDER-2990 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $\frac{C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{6}+C_{2}C_{5}C_{6}R_{1}R_{2}R_{4}R_{5}+C_{3}C_{5}C_{6}R_{1}R_{3}R_{4}R_{5}+C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{$

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10.2991 X-INVALID-ORDER-2991 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
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 $H(s) = \frac{-R_3R_4 + R_3R_5 + R_4R_5 + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6 + C_1C_2C_4C_6R_1R_2R_3R_4R_5R_6 - C_1C_2C_5C_6R_1R_2R_3R_4R_5 + C_1C_2C_4R_1R_2R_3R_4R_5 - C_1C_2C_5R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R_3R_4R_5 - C_1C_2C_6R_1R_2R$

10.2992 X-INVALID-ORDER-2992 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{R_1 R_2 R_4}{C_1 C_2 C_6 R_1 R_2 R_3 R_4 R_5 s^3 + s^2 \left(-C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_4 R_5 + C_1 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_5 + C_6 R_2 R_4 R_5 + C_6 R_3 R_4 R_5\right)$

10.2993 X-INVALID-ORDER-2993 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_6R_1R_2R_4R_6s + R_1R_2R_4}{C_1C_2C_6R_1R_2R_3R_4R_5s^3 + s^2\left(-C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_4R_5 - C_6R_2R_3R_4 + C_6R_2R_3R_5 + C_6R_2R_4R_5 + C_6R_3R_4R_5\right)}$

10.2994 X-INVALID-ORDER-2994 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $\frac{R_{1}R_{2}R_{4}R_{6}}{C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}s^{3}+R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{1}$

10.2995 X-INVALID-ORDER-2995 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_5 C_6 R_1 R_2 R_3 R_4 - C_1 C_5 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_6 + C_1 C_6 R_1 R_2 R_4 R_6 + C_2 C_6 R_1 R_2 R_4 R_6 + C_2 C_6 R_2 R_3 R_4 R_6 - C_5 C_6 R_2 R_3 R_4 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_4 R_6 + C_2 C_6 R_1 R_2 R_4 R_6 + C_2 C_6 R_2 R_3 R_4 R_6 - C_5 C_6 R_2 R_3 R_4 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_4$

10.2996 X-INVALID-ORDER-2996 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{C_1 C_2 C_5 R_1 R_2 R_3 R_4 R_5 s^3 + R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_4 + C_1 C_5 R_1 R_2 R_3 R_5 + C_1 C_5 R_1 R_2 R_4 R_5 + C_2 C_5 R_1 R_2 R_4 R_5 + C_2 C_5 R_1 R_2 R_4 R_5 \right) + s \left(C_1 R_1 R_2 R_3 + C_1 R_1 R_2 R_4 + C_1 R_1 R_3 R_4 + C_2 R_1 R_2 R_4 + C_1 R_1 R$

10.2997 X-INVALID-ORDER-2997 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4}{C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_4 R_5 s^3 + C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s^2 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_4 + C_1 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_5 C_6 R_1 R_2 R_4 R_5 + C_2 C_5 C_6 R_1 R_2 R_4$

10.2998 X-INVALID-ORDER-2998 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, R_4, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_1C_2C_5C_6R_1R_2R_3R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_2C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_5 + C_1C_5C_6R_1R_2R_4R_5 + C_2C_5C_6R_1R_2R_4R_5 + C_2C_5C_6R_1R_2R_5 + C_2C_5C_6R_1R_2R_5 + C_2C_5C_6R_1R_2R_5 + C_2C_5C_6R_1R_2R_5 +$

10.2999 X-INVALID-ORDER-2999 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^3\left(C_1C_2C_5R_1R_2R_3R_4R_6 - C_1C_5C_6R_1R_2R_3R_4R_6 + C_1C_5C_6R_1R_2R_4R_5R_6 + C_1C_5C_6R_$

10.3000 X-INVALID-ORDER-3000 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $\frac{C_{5}R_{1}R_{2}R_{4}R_{5}s+R_{1}R_{2}R_{4}}{s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{6}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{2}R_{3}R_{4}+C_{2}C_{6}R_{2}R_{3}R_{4}+C_{2}C_$

10.3004 X-INVALID-ORDER-3004 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_6R_1R_2R_6s + R_1R_2}{s^3\left(C_1C_2C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_5 + C_2C_6R_1R_2R_5 + C_2C_6R_2R_3R_5 + C_4C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_2R_5 + C_6R_3R_5\right)}$

10.3005 X-INVALID-ORDER-3005 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_3 R_5 R_6\right) + s^2 \left(C_1 C_2 R_1 R_2 R_3 R_5 + C_1 C_4 R_1 R_2 R_3 R_5 - C_1 C_6 R_1 R_2 R_3 R_6 + C_1 C_6 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6 + C_2 C_6 R_2 R_3 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_1 C_6 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6 + C_2 C_6 R_2 R_3 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_1 C_6 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6 + C_2 C_6 R_1 R_2 R_5 R_6\right) + s \left(-C_1 R_1 R_2 R_5 R_6\right) + s \left(-C_1$

10.3006 X-INVALID-ORDER-3006 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_6 + C_1 C_4 C_6 R_1 R_2 R_3 R_6 - C_1 C_5 C_6 R_1 R_2 R_3 R_6 \right) + s^2 \left(C_1 C_2 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_6 + C_2 C_6 R_1 R_2 R_6 + C_2 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 - C_5 C_6 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 + C_1 R_3 R_6 + C_2 C_6 R_1 R_2 R_6 + C_2 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 + C_1 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 + C_1 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 + C_4 C_6 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_4 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 + C_2 C_6 R_1 R_2 R_3 R_6 \right) + s \left(C_1 R_1 R_2 R_3 R_6 \right) + s$

10.3007 X-INVALID-ORDER-3007 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_6 s}{R_1 + R_2 + R_3 + s^3 \left(C_1 C_2 C_5 R_1 R_2 R_3 R_5 + C_1 C_4 C_5 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 + C_1 C_5 R_1 R_2 R_3 + C_1 C_5 R_1 R_2 R_5 + C_2 C_5 R_1 R_2 R_5 +$

10.3008 X-INVALID-ORDER-3008 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_5 R_1 R_2}{C_6 R_1 + C_6 R_2 + C_6 R_3 + s^3 \left(C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_4 C_6 R_1 R_2 R_3 + C_1 C_5 C_6 R_1 R_2 R_3$

10.3009 X-INVALID-ORDER-3009 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_6s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_1C_2C_5C_6R_1R_2R_3R_5 + C_1C_4C_5C_6R_1R_2R_3 + C_1C_5C_6R_1R_2R_3 + C_1C_5C_6R_$

10.3010 X-INVALID-ORDER-3010 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_1 + R_2 + R_3 + s^4 \left(C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_6 + C_1 C_5 C_6 R_1$

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10.3011 X-INVALID-ORDER-3011 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)
                                 H(s) = \frac{C_5 R_1 R_2 R_5 s + R_1 R_2}{s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_5 - C_1 C_5 C_6 R_1 R_2 R_3 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_2 R_3 + C_1 C_6 R_1 R_2 R_5 + C_2 C_6 R_1 R_2 R_5 + C_2 C_6 R_2 R_3 R_5 + C_4 C_6 R_2 R_3 R_5 - C_5 C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 + C_6 R_2 R_3 + C_6 R_2 R_3 + C_6 R_2 R_3 + C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_2 R_3 R_5 - C_6 R_2 R_3 R_5 + C_6 R_2 R_3 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5 + C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5 + C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5 + C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_2 R_3 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_1 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R_5\right) + s \left(C_6 R_5 R_5 - C_6 R_5 R
10.3012 X-INVALID-ORDER-3012 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                   H(s) = \frac{C_5C_6R_1R_2R_5R_6s^2 + R_1R_2 + s\left(C_5R_1R_2R_5 + C_6R_1R_2R_6\right)}{s^3\left(C_1C_2C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5 - C_1C_5C_6R_1R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_2R_5 + C_2C_6R_1R_2R_5 + C_2C_6R_2R_3R_5 + C_4C_6R_2R_3R_5 - C_5C_6R_2R_3R_5\right) + s\left(C_6R_1R_5 - C_6R_2R_3 + C_6R_3R_3 + 
10.3013 X-INVALID-ORDER-3013 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_5 R_1 R_2 R_5 R_6 s + R_1 R_2 R_6}{R_1 R_5 - R_2 R_3 + R_2 R_5 + R_3 R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_3 R_5 R_6 - C_1 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 R_1 R_2 R_3 R_5 - C_1 C_5 R_1 R_2 R_5 R_6 + C_1 C_6 R_1 R_2 R_5 R_6 + C_1 
10.3014 X-INVALID-ORDER-3014 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
                                        \frac{C_4R_1R_2R_4R_6s + R_1R_2R_6}{C_1C_2C_4R_1R_2R_3R_4R_5s^3 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_1C_2R_1R_2R_3R_5 - C_1C_4R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_5 + C_1C_4R_1R_2R_4R_5 + C_2C_4R_1R_2R_4R_5 + C_2C_4R_2R_3R_4R_5\right) + s\left(-C_1R_1R_2R_3 + C_1R_1R_2R_3 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_5 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_5 + C_1R_1R_2R_3R_5 + C_1R_1R_2R_5 + C_1R_1R_2
10.3015 X-INVALID-ORDER-3015 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)
H(s) = \frac{C_4R_1R_2R_4s + R_1R_2}{C_1C_2C_4C_6R_1R_2R_3R_4R_5s^4 + s^3\left(C_1C_2C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_5 + C_2C_4C_6R_1R_2R_4R_5 + C_2C_4C_4R_4R_4R_5 + C_2C_4C_4R_4R_4R_5 + C_2C_4C_4R_4R_4R_5 + C_2C_4C_4R_4R_4R_5 + C_2C_4C_4R_4R_4R_
10.3016 X-INVALID-ORDER-3016 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)
                                          \frac{C_4C_6R_1R_2R_4R_6s^2 + R_1R_2 + s\left(C_4R_1R_2R_4 + C_6R_1R_2R_4 + C_6R_1R_2R_6\right)}{C_1C_2C_4C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_4R_5 + C_2C_4C_6R_1R_2R_4R_5 + C_2C_4C_6R_1R_2R_4 + C_2C_4C_6R_1R_2R_4 + C_2C_4C_6R_1R_2R_4 + C_2C_4C_6R_1R_2R_4 + C_2C_4C_6R_1R_4R_4 + C_2C_4C_6R_1R_4R_4 + C_2C_4C_6R_1R_4R_4 + C_2C_4C_6R_1R_4R_4 + C_2C_4C_6R_1R_4R_4 + C_2C_4C_6R_1R_4R
10.3017 X-INVALID-ORDER-3017 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{C_1C_2C_4C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3(C_1C_2C_4R_1R_2R_3R_4R_5 - C_1C_4C_6R_1R_2R_3R_4R_6 + C_1C_4C_6R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_4R_5R_5 + C_1C_4C_6R_1R_4R_5R_5 + C_1C_4C_6R_1R_4R_5R_5 + C_1C_4C_6R_1R_4R_5R_5 + C_1C_4C_6R_1R_4R_5R_5 + C_1C_4C_6R_1R_4R_5R_5 + C_1C_4C_6R_1R_4R_5 + C_1C_4C_6R_1R_4R_5 + C_1C_4C_6R_1R_5R_5 + 
10.3018 X-INVALID-ORDER-3018 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)
                                        10.3019 X-INVALID-ORDER-3019 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
```

 $C_4C_5R_1R_2R_4s + C_5R_1R_2$ $H(s) = \frac{C_4C_5R_1R_2R_4s + C_5R_1R_2}{C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_1C_2C_4C_6R_1R_2R_3R_4 - C_1C_4C_5C_6R_1R_2R_3 + C_1C_4C_6R_1R_2R_3 + C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_3 + C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_3 + C_2C_4C_6R_1R_2R_4 + C_2C_4C_4R_4 + C_2C_4C_4R_4 + C_2C_4C_4R_4 + C_2C_4C_4C_4R_4 + C_2C_4C_4C_4R_4 + C_2C_4C_4C_4R_4 + C_2C_4C_4C_4C_4C_4C_4C_4C_4C_4C_4C_4C_$

10.3020 X-INVALID-ORDER-3020 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s(C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_6)$

 $H(s) = \frac{C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_4 + C_5C_6R_1R_2R_3 + C_5C_6R_1R_2R$

```
10.3021 X-INVALID-ORDER-3021 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)
```

$$H(s) = \frac{1}{R_1 + R_2 + R_3 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_6 R_1 R_2 R_3 R_6 + C_1 C_4 C_6 R_1$$

10.3022 X-INVALID-ORDER-3022
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{1}{C_1C_2C_4C_5R_1R_2R_3R_4R_5s^4 + R_1 + R_2 + R_3 + s^3\left(C_1C_2C_4R_1R_2R_3R_4 + C_1C_2C_5R_1R_2R_3R_4 + C_1C_4C_5R_1R_2R_3R_5 + C_1C_4C_5R_1R_2R_3R_4 + C_1C_4C_$$

10.3023 X-INVALID-ORDER-3023
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{1}{C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 s^4 + C_6 R_1 + C_6 R_2 + C_6 R_3 + s^3 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_5$$

10.3024 X-INVALID-ORDER-3024
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$$

$$H(s) = \frac{1}{C_1C_2C_4C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_1C_2C_4C_6R_1R_2R_3R_4 + C_1C_4C_5C_6R_1R_2R_3R_4 + C_1C_4C_5C_6R_1R_2R_$$

10.3025 X-INVALID-ORDER-3025
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

$$H(s) = \frac{1}{C_1C_2C_4C_5C_6R_1R_2R_3R_4R_5R_6s^5 + R_1 + R_2 + R_3 + s^4\left(C_1C_2C_4C_5R_1R_2R_3R_4R_6 + C_1C_2C_5C_6R_1R_2R_3R_4R_6 + C_1C_4C_5C_6R_1R_2R_3R_4R_6 + C_1C_4C_5C_6R_1R_2R_4R_5R_6 + C_1C_4C_5C_6R_1R_2R_4R_5R_6 + C_1C_4C_5C_6R_1R_2R_4R_5R_6 + C_1C_4C_5C_6R_1R_2R_4R_5R_5 + C_1C_4C_5C_6R_1R_2R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_6R_1R_5C_5C_5C_5C_$$

10.3026 X-INVALID-ORDER-3026
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$C_4C_5R_1R_2R_4R_5R_6s^2 + R_1R_2R_6 + s\left(C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)$$

$$H(s) = \frac{C_4C_5R_1R_2R_4R_5R_6s^2 + R_1R_2R_6 + s\left(C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(C_1C_2C_4R_1R_2R_3R_4R_5 - C_1C_4R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5$$

10.3027 X-INVALID-ORDER-3027
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$C_4C_5R_1R_2R_4R_5s^2 + R_1R_2 + s\left(C_4R_1R_2 + S_1C_4R_1R_2 + S$$

$$H(s) = \frac{C_4C_5R_1R_2R_4R_5s^2 + R_1R_2 + s\left(C_4R_1R_2R_3R_4R_5 - C_1C_4C_6R_1R_2R_3R_4R_5 - C_1C_4C_6R_1R_2R_3R_4 + C_1C_4C$$

10.3028 X-INVALID-ORDER-3028
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$C_4C_5C_6R_1R_2R_4R_5R_6s^3 + R_1R_2 + s^2\left(C_4C_5R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_6 + C_5C_6R_1R_2R_4R_6 + C_5C_6R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_6 + C_5C_6R_1R_2R_4R_6 + C_5C_6R_5R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5 + C_5C_5R_5 +$$

$$H(s) = \frac{C_4C_5C_6R_1R_2R_4R_5R_6s^5 + R_1R_2 + s^2\left(C_4C_5R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_6 + C_5C_6R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_$$

10.3029 X-INVALID-ORDER-3029
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$$

$$H(s) = \frac{1}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^4\left(C_1C_2C_4C_6R_1R_2R_3R_4R_5R_6 - C_1C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_5 - C_1C_4C_6R_1R_2R_3R_4R_5 - C_1C_4C_6R_$$

10.3030 X-INVALID-ORDER-3030
$$Z(s) = \begin{pmatrix} \frac{R_1}{C_1R_1s+1}, & \frac{R_2}{C_2R_2s+1}, & R_3, & \frac{R_4}{C_4R_4s+1}, & R_5, & \frac{1}{C_6s} \end{pmatrix}$$

$$s) = \frac{R_1 R_2 R_4}{s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_4 R_5\right) + s^2 \left(-C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_1 R_2 R_4 R_5 + C_2 C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_2 R_3 R_4 R_5\right) + s \left(C_6 R_1 R_4 R_5 - C_6 R_2 R_3 R_4 + C_6 R_4 R_4 + C_6 R$$

```
10.3031 X-INVALID-ORDER-3031 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)
```

 $H(s) = \frac{C_6R_1R_2R_4R_6s + R_1R_2R_4}{s^3\left(C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4R_5 + C_4C_6R_2R_3R_4 + C_6R_2R_3R_4 + C_6R_3R_3R_4 +$

10.3032 X-INVALID-ORDER-3032 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $\frac{R_{1}}{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{1}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{1}R_{2}R_{3}$

10.3033 X-INVALID-ORDER-3033 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4 R_6 s}{R_1 R_4 + R_2 R_3 + R_2 R_4 + R_3 R_4 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_5 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_5 R_1 R_2 R_3 R_4 + C_1 C_4 R_1 R_2 R_3 R_4 + C_1 C_5 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_4 +$

10.3034 X-INVALID-ORDER-3034 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $\frac{C_5\kappa_1\kappa_2\kappa_4\kappa_6s}{R_1R_4+R_2R_3+R_2R_4+R_3R_4+s^3\left(C_1C_2C_5R_1R_2R_3R_4R_5+C_1C_4C_5R_1R_2R_3R_4+C_1C_4R_1R_2R_3R_4+C_1C_5$

10.3035 X-INVALID-ORDER-3035 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_5 R_1 R_2 R_4}{C_6 R_1 R_4 + C_6 R_2 R_3 + C_6 R_2 R_4 + C_6 R_3 R_4 + s^3 \left(C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_5 C_6 R_1 R_2 R_3$

10.3036 X-INVALID-ORDER-3036 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_6$ $\frac{C_5C_6R_1R_2R_4R_6s + C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_3R_4R_5 + C_1C_4C_5C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4 +$

10.3037 X-INVALID-ORDER-3037 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^4\left(C_1C_2C_5C_6R_1R_2R_3R_4R_5R_6 + C_1C_4C_5C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_4R_6 + C_1C_4C_6R_1R_2R_3R_4R_6 + C_1C_5C_6R_1R_2R_3R_4R_6 + C_1C_5C_6R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_4R_6 + C_1C_4C_5R_1R_2R_3R_4R_6 + C_1C_5C_6R_1R_2R_3R_4R_6 + C_1C_5C_6R_$

10.3038 X-INVALID-ORDER-3038 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $C_5R_1R_2R_4R_5s + R_1R_2R_4 \\$

 $\frac{C_5R_1R_2R_4R_5s + R_1R_2R_4}{s^3\left(C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5 + C_1C_6R_1R_2R_3R_4R_5 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4R_5 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 +$

10.3039 X-INVALID-ORDER-3039 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_5C_6R_1R_2R_4R_5R_6s^2 + R_1R_2R_4 + s\left(C_5R_1R_2R_4R_5 + C_6R_1R_2R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_4C_6R_1R_2R_3R_4R_5 - C_1C_5C_6R_1R_2R_3R_4R_5\right) + s^2\left(-C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 - C_5C_6R_2R_3R_4R_5\right) + s\left(C_6R_1R_2R_3R_4R_5 + C_1C_6R_1R_2R_4R_5 + C_2C_6R_1R_2R_4R_5 + C_2C_6R_2R_3R_4R_5 + C_2C_6R_2$

10.3040 X-INVALID-ORDER-3040 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $\overline{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}\right)+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{1}R_{$

 $\textbf{10.3041} \quad \textbf{X-INVALID-ORDER-3041} \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \frac{1}{C_3 s}, \ R_4, \ R_5, \ \frac{R_6}{C_6 R_6 s + 1} \right)$ $H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_6 R_1 R_2 R_4 R_5 R_6 + C_3 C_6 R_1 R_4 R_5 R_$

10.3042 X-INVALID-ORDER-3042 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_1C_2C_6R_1R_2R_4R_6 + C_1C_3C_6R_1R_2R_4R_6 + C_2C_3C_6R_1R_2R_4R_6 + C_2C_3C_6R_1R_2R_4R_6 + C_2C_3C_6R_1R_2R_4R_6 + C_2C_3C_6R_1R_2R_4R_6 + C_2C_3R_1R_2R_4 + C_1C_5R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_2C_6R_2R_4R_6 + C_3C_6R_2R_4R_6 + C_3C_6R_2R_4R_6 + C_3C_6R_2R_4R_6 + C_3C_6R_1R_2R_4R_6 + C_3C_6R_1R_2$

10.3043 X-INVALID-ORDER-3043 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_1C_2C_5R_1R_2R_4R_5 + C_1C_3C_5R_1R_2R_4R_5 + C_2C_3C_5R_1R_2R_4R_5 + C_1C_5R_1R_2R_4 + C_1C_5R_1R_2R_4$

10.3044 X-INVALID-ORDER-3044 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_3C_5C_6R_1R_2R_4R_5 + C_2C_3C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_4R_5 + C_1C_$

10.3045 X-INVALID-ORDER-3045 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_3C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_5C_6R_1R_4R_5 + C_1C_$

10.3046 X-INVALID-ORDER-3046 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_2 + R_4 + s^4 (C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_3 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_6 + C_1 C_5 C_6 R_1$

10.3047 X-INVALID-ORDER-3047 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_5R$

10.3048 X-INVALID-ORDER-3048 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_6 R_1 R_2 R_5 R_6 + C_2 C_3 C_6 R_1 R_2 R_5 R_6 + C_2 C_3 C_6 R_1 R_2 R_5 R_6 + C_2 C_3 C_6 R_1 R_2 R_5 + C_1 C_4 R_1 R_2 R_5 + C_1 C_4 R_1 R_2 R_5 + C_1 C_6 R_1 R_2 R_5 + C_2 C_6 R_2 R_5 R_6 + C_3 C_6 R_1 R_5 R_6 + C_3$

10.3049 X-INVALID-ORDER-3049 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_1C_2C_6R_1R_2R_6 + C_1C_3C_6R_1R_2R_6 + C_1C_4C_6R_1R_2R_6 - C_1C_5C_6R_1R_2R_6 + C_2C_3C_6R_1R_2R_6 + C_1C_4R_1R_2 +$

10.3050 X-INVALID-ORDER-3050 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_6s^2}{s^3\left(C_1C_2C_5R_1R_2R_5 + C_1C_3C_5R_1R_2R_5 + C_1C_4C_5R_1R_2R_5 + C_2C_3C_5R_1R_2R_5 + C_1C_4R_1R_2 + C_1C_4R_1R_2 + C_1C_5R_1R_2 + C_1C_5R_1R_2 + C_2C_5R_2R_5 + C_3C_5R_1R_5 + C_3C_5R_2R_5 + C_4C_5R_2R_5 + s\left(C_1R_1 + C_2R_2 + C_3R_1 + C_3R_2 + C_4C_5R_1R_2 + C_4C_5R_1R_2$

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10.3051 X-INVALID-ORDER-3051 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)
H(s) = \frac{C_3C_5R_1R_2s}{C_6 + s^3\left(C_1C_2C_5C_6R_1R_2R_5 + C_1C_3C_5C_6R_1R_2R_5 + C_2C_3C_5C_6R_1R_2R_5 + C_2C_3C_5C_6R_1R_2 + C_1C_3C_6R_1R_2 + C_1C_3C_6R_1R_2 + C_1C_3C_6R_1R_2 + C_1C_5C_6R_1R_2 + C_1C_5C_6R_1R_2 + C_2C_5C_6R_1R_2 + C_2C_5C_
10.3052 X-INVALID-ORDER-3052 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
                                            \frac{C_{3}C_{5}C_{6}R_{1}R_{2}R_{6}s^{2}+C_{3}C_{5}R_{1}R_{2}s}{C_{6}+s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{5}+C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{5}+C_{1}C_{4}C_{5}C_{6}R_{1}R_{2}R_{5}+C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}+C_{1}C_{3}C_{6}R_{1}R_{2}+C_{1}C_{5}C_{6}R_{1}R_{2}+C_{1}C_{5}C_{6}R_{1}R_{2}+C_{2}C_{5}C_{6}R_{2}R_{5}+C_{3}C_{5}C_{6}R_{1}R_{5}+C_{3}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C_{6}R_{2}R_{5}+C_{4}C_{5}C
10.3053 X-INVALID-ORDER-3053 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{1}{s^4 \left( C_1 C_2 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_5 R_1 R_2 R_5 + C_1 C_2 C_6 R_1 R_2 R_5 + C_1 C_3 C_6 R_1 R_2 R_5 + C_1 C_3 C_6 R_1 R_2 R_5 + C_1 C_4 C_6 R_1 R_2 R_5 +
10.3054 X-INVALID-ORDER-3054 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
H(s) = \frac{C_3C_5R_1R_2R_5R_6s^2 + C_3R_1R_2R_5s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_1C_2C_6R_1R_2R_5R_6 + C_1C_3C_6R_1R_2R_5R_6 + C_1C_5C_6R_1R_2R_5R_6 + C_2C_3C_6R_1R_2R_5R_6 + C_2C_3C_6R_1R_2R_5R_5 + C_2C_3C_6R_1R_2R_5R_5 + C_2C_3C_6R_1R_2R_5R_5 + C_2C_3C_6R_1R_2R_5R_5 + C_2C_3C_6R_1R_2R
10.3055 X-INVALID-ORDER-3055 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
H(s) = \frac{C_3C_4R_1R_2R_4R_6s^2 + C_3R_1R_2R_6s}{-R_2 + R_5 + s^3\left(C_1C_2C_4R_1R_2R_4R_5 + C_1C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_1R_2R_4R_5 + C_1C_3R_1R_2R_5 - C_1C_4R_1R_2R_4 + C_1C_4R_1R_2R_5 + C_1C_4R_1R_2R_5 + C_2C_4R_2R_4R_5 + C_3C_4R_1R_4R_5 + C_3C_4R_4R_5 + C_3C_4R_4R
10.3056 X-INVALID-ORDER-3056 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_4R_1R_2R_4s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_2C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_5 + C_2C_3C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_5 + C_2C_4C_6R_1R_2R_5 + C_2C_4C_6R_1R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_3C_4R_1R_2R_4s + C_3R_1R_2
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10.3057 X-INVALID-ORDER-3057 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_2C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_5 + C_2C_3C_4C_6R_1R_2R_4 + C_1C_4C_6R_1R_2R_5 + C_1C_4$ $C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6\right)$

10.3058 X-INVALID-ORDER-3058 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $-R_2 + R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_2 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_6 R_1 R_2 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 + C_1 C_4 C_6 R_1 R_4 R_5 + C_1 C_4 C_6 R_4 R_5 + C_1 C_4 C_6 R_4 R_5 + C_1 C_4 C_6 R_4 R_5 + C_$

10.3059 X-INVALID-ORDER-3059 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_6s^3 + C_3C_5R_1R_2R_6s^2}{s^3\left(C_1C_2C_4R_1R_2R_4 + C_1C_3C_4R_1R_2R_4 + C_2C_3C_4R_1R_2R_4 + C_2C_3C_4R_1R_2 + C_1C_3R_1R_2 + C_1C_4R_1R_2 + C_1C_4R_1R_4 + C_1C_5R_1R_2 + C_2C_4R_2R_4 + C_3C_4R_1R_4 + C_3C_4R_2R_4 + C_4C_5R_2R_4 \right) + s\left(C_1R_1 + C_2R_2 + C_3R_1R_2 + C_4C_4R_1R_4 + C_4C_5R_2R_4 + C_4C_5R_4R_4 + C_4C_5$

10.3060 X-INVALID-ORDER-3060 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1R_2s$ $\frac{C_3C_4C_5R_1R_2R_4+C_1C_3C_4C_6R_1R_2R_4+C_3C_5R_1R_2R_4+C_3C_5R_1R_2R_4+C_3C_4C_6R_1R_2R_4+C_3C_4C_6R_1R_2R_4+C_3C_4C_6R_1R_2+C_1C_4C_6R_1R_2+C_1C_4C_6R_1R_2+C_1C_4C_6R_1R_2+C_1C_4C_6R_1R_2+C_2C_4C_6R_1R_2+C_2C_4C_6R_1R_2+C_3C_4C_6R_$

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10.3061 X-INVALID-ORDER-3061 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
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 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_6s^3 + C_3C_5R_1R_2s + s^2\left(C_3C_4C_5R_1R_2R_4 + C_3C_5C_6R_1R_2R_6\right)}{C_6 + s^3\left(C_1C_2C_4C_6R_1R_2R_4 + C_1C_3C_4C_6R_1R_2R_4 + C_2C_3C_4C_6R_1R_2R_4 + C_2C_3C_4C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_1C_4C_6R_1R_2 + C_2C_3C_6R_1R_2 + C_2C_4C_6R_2R_4 + C_3C_4C_6R_1R_4 + C$

10.3062 X-INVALID-ORDER-3062
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 R_6 - C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_6 + C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_6 + C_1 C_4 C_6 R_1 R_2 R_4 + C_1 C_4 C_6 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 + C_1 C_4 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 + C_1 C_3 C_6 R_1 R_2 R$

10.3063 X-INVALID-ORDER-3063
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_2 R_4 R_5 + C_2 C_3 C_4 C_5 R_1 R_2 R_4 + C_1 C_2 C_5 R_1 R_2 R_4 + C_1 C_3 C_5 R_1 R_2 R_4 + C_1 C_3 C_5 R_1 R_2 R_5 + C_1 C_4 C_5 R_1 R_2 R_4 + C_1 C_4 C_5 R_1 R_2 R_4 + C_1 C_3 C_5 R_1 R_2 R_5 + C_1 C_4 C_5 R_1 R_2 R_4 + C_1$

10.3064 X-INVALID-ORDER-3064
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_4 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 + C_1 C_3 C_5 C_6 R_1 R_2 R_5 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 + C_1 C_3 C_5 C_6 R_1 R_2 R_4 + C_1 C$

10.3065 X-INVALID-ORDER-3065
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 + C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_4 + C_1 C_2 C_5 C_6 R_1 R_2 R_4 + C_1 C_3 C_5 C_6 R_1 R_2 R_4 + C_1 C$

10.3066 X-INVALID-ORDER-3066
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{s^5 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6\right) + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_2 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_2 R$

10.3067 X-INVALID-ORDER-3067
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5R_6s^3 + C_3R_1R_2R_6s + s^2\left(C_3C_4R_1R_2R_4R_6 + C_3C_5R_1R_2R_5R_6\right)}{-R_2 + R_5 + s^3\left(C_1C_2C_4R_1R_2R_4R_5 + C_1C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_1R_2R_4R_5 + C_2C_3R_1R_2R_5 + C_2$

10.3068 X-INVALID-ORDER-3068
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_4R_5 + C_4C_6R_1R_2R_4R_5 + C_4C_6R_1R_4R_5 + C_4C_6R_1R_4R$

10.3069 X-INVALID-ORDER-3069
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_4R_5R_6s^3 + C_3R_1R_2 + s^2\left(C_3C_4C_5R_1R_2R_4R_5 + C_3C_4C_6R_1R_2R_4R_6 + C_3C_5C_6R_1R_2R_5R_6\right)}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_2C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_5 + C_1C_3C_4C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_4R_5 + C_1C_4C$

10.3070 X-INVALID-ORDER-3070
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{-R_2 + R_5 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 - C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_2 C_3 C_4 C_6 R_1 R_2 R_4 R_5 R_6 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 - C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 - C_1 C_4 C_6 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 - C_1 C_4 C_5 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 R_4 R_5 \right) + s^3 \left(C_1 C_4 R_1 R_4 R_5 + C_1 C_4 R_4 R_5 \right) + s^3 \left(C_1 C_$

10.3071 X-INVALID-ORDER-3071 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 R_1 R_2 R_4 R_5 + C_1 C_4 R_1 R_2 R_4 R_5 + C_1 C_6 R_1 R_2 R_4$

10.3072 X-INVALID-ORDER-3072 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $\frac{C_{3}C_{5}R_{1}R_{2}R_{4}R_{6}s^{2}}{R_{2}+R_{4}+s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{4}R_{6}+C_{1}C_{3}C_{6}R_{1}R_{2}R_{4}R_{6}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{4}R_{6}+C_{2}C_{3}C_{6}R_{1}R_{2}R_{4}+C_{1}C_{3}R_{1}R_{2}R_{4}+C_{1}C_{5}R_{1}R_{2}R_{4}+C_{1}C_{5}R_{1}R_{2}R_{4}+C_{1}C_{6}R_{1}R_{2}R_{4}+C$

10.3073 X-INVALID-ORDER-3073 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_1C_2C_5R_1R_2R_4R_5 + C_1C_3C_5R_1R_2R_4R_5 + C_2C_3C_5R_1R_2R_4R_5 + C_2C_3C_5R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_1C_5R_1R_2R_4 + C_1C_5R_1R_2$

10.3074 X-INVALID-ORDER-3074 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_3C_5C_6R_1R_2R_4R_5 + C_2C_3C_5C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_1C_$

10.3075 X-INVALID-ORDER-3075 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_5C_6R_1R_2R_4R_5 + C_1C_3C_5C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_5C_6R_1R_2R_4 + C_$

10.3076 X-INVALID-ORDER-3076 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $\overline{R_2 + R_4 + s^4 \left(C_1 C_2 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_4 R_5 R_6 + C_1 C_3 C_5 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2$

10.3077 X-INVALID-ORDER-3077 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_1C_2C_6R_1R_2R_4R_5R_6 + C_1C_3C_6R_1R_2R_4R_5R_6 + C_1C_5C_6R_1R_2R_4R_5R_6 + C_2C_3C_6R_1R_2R_4R_5 + C_1C_3R_1R_2R_4R_5 + C_1C_3R$

10.3078 X-INVALID-ORDER-3078 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

 $\frac{C_{3}R_{1}R_{2}R_{4}R_{6}s}{C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}s^{3}-R_{2}R_{4}+R_{2}R_{5}+R_{4}R_{5}+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{4}R_{5}-C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{2}R_{3}R_{4}R_{5}\right)+s\left(-C_{1}R_{1}R_{2}R_{4}+C_{1}R_{1}R_{2}R_{5}+C_{1}R_{1}R_{4}R_{5}+C_{2}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{2}R_{3}R_{4}R_{5}\right)+s\left(-C_{1}R_{1}R_{2}R_{4}+C_{1}R_{1}R_{2}R_{5}+C_{1}R_{1}R_{4}R_{5}+C_{2}R_{2}R_{4}R_{5}+C_{2}R_{3}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{4}R_{5}+C_{2}C_{3}R_{2}R_{3}R_{4}R_{5}\right)+s\left(-C_{1}R_{1}R_{2}R_{4}+C_{1$

10.3079 X-INVALID-ORDER-3079 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_4}{C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 s^3 - C_6 R_2 R_4 + C_6 R_2 R_5 + C_6 R_4 R_5 + s^2 \left(C_1 C_2 C_6 R_1 R_2 R_4 R_5 - C_1 C_3 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 + C_2 C_3$

10.3080 X-INVALID-ORDER-3080 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5, R_6 + \frac{1}{C_6s}\right)$

 $C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4$

 $H(s) = \frac{c_3c_6n_1n_2n_4n_6s + c_3n_1n_2n_4}{c_1c_2c_3c_6n_1n_2n_4n_6s + c_3n_1n_2n_4}$

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10.3081 X-INVALID-ORDER-3081 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)
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 $H(s) = \frac{1}{C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6s^4 - R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_6 + C_1C_3C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_6R_1R_2R_4R_5R_6 + C_1C_3C_6R_1R_2R_4R_5R_5 + C_1C_3C_6R_1R_2R_4R_5R_5 + C_1C_3C_6R_1R_2R_5R_5 + C_1C_3C_6R_1R_2R_5R_5 + C_1C_3C_6R_1R_2R_5 + C_$

10.3082 X-INVALID-ORDER-3082
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, R_6\right)$$

 $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 - C_1C_3C_5R_1R_2R_3R_4\right) + s^2\left(C_1C_2R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_2C_3R_1R_2R_4 + C_2C_3R_2R_3R_4 - C_3C_5R_2R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_2R_2R_4 + C_3R_1R_2R_4 + C_3R_2R_3 + C_3R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_2R_2R_4 + C_3R_1R_2R_4 + C_3R_2R_3 + C_3R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_2R_2R_4 + C_3R_1R_4 + C_3R_2R_4 + C_3R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_1R_4 + C_2R_2R_4 + C_3R_1R_4 + C_3R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_3R_4 + C_3R_3R_4 + C_3R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_3R_4 + C_3R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_3R_4 + C_3R_3R_4\right) + s\left(C_1R_1R_2 + C_1R_3R_4\right) + s\left(C_1R_1R_2$

10.3083 X-INVALID-ORDER-3083 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 - C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_1R_2R_4 + C_2C_3C_6R_1R_2R_4 + C_2C_3C_6R_2R_3R_4 - C_3C_5C_6R_2R_3R_4 \right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_2 + C_1C_6R_1R_$

10.3084 X-INVALID-ORDER-3084 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

10.3085 X-INVALID-ORDER-3085 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_2 + R_4 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_6 R_1 R_2 R$

10.3086 X-INVALID-ORDER-3086 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, R_6\right)$

 $\frac{1}{C_{1}C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}s^{4}+R_{2}+R_{4}+s^{3}\left(C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{3}C_{5}R_{1}R_{2}$

10.3087 X-INVALID-ORDER-3087 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_5 + C_1C_3C_5C_6R_1R_2R_4R_5 + C_1C_3C_5C_6R_1R_2R_4R_5 + C_2C_3C_5C_6R_1R_2R_4R_5 + C_$

10.3088 X-INVALID-ORDER-3088 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5s^4 + C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_5 + C_1C_3C_5C_6R_1R_2R_4R_5 + C_$

10.3089 X-INVALID-ORDER-3089 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6s^5 + R_2 + R_4 + s^4(C_1C_2C_3C_5R_1R_2R_3R_4R_5 + C_1C_2C_3C_6R_1R_2R_4R_5R_6 - C_1C_3C_5C_6R_1R_2R_3R_4R_6 + C_1C_3C_5C_6R_1R_3R_4R_6 +$

10.3090 X-INVALID-ORDER-3090 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, R_6\right)$

 $C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s$ $\frac{C_3C_5n_1n_2n_4n_5n_6s + C_3n_1n_2n_4n_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5 - C_1C_3C_5R_1R_2R_3R_4R_5 - C_1C_3R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_5 + C_1C_3R_1R_2R_4R_5 + C_1C_3R_1R_2R_4R_5 + C_2C_3R_1R_2R_4R_5 + C_2C_3R_2R_4R_5 + C$ **10.3091** X-INVALID-ORDER-3091 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $C_3C_5R_1R_2R_4R_5s + C_3R_1R_2R_4$

10.3092 X-INVALID-ORDER-3092 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s(C_3C_5R_1R_2R_4R_5 + C_3C_5R_1R_2R_4R_5 + C_3C_5R_1R_2R_4 + c_3C_5R_1R_2R_4R_5 + C_3C_5R_1R_2R_4 + c_3C_5R_5R_5R_5R_5 + c_3C_5R_5R_5R_5 + c_3C_5R_5R_5 + c_3C_5R_5R_5 + c_3C_5R_5R_5 + c_3C_5R_5R_5 + c_3C_5R_5 + c_$

10.3093 X-INVALID-ORDER-3093 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{-R_2R_4 + R_2R_5 + R_4R_5 + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6 - C_1C_3C_5C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_5 - C_1C_3C_6R_1R_2R_3R_4R_5 - C_1C_3C_6R_1R_2R_3R_5 - C_1C_3C_6R_1R_2R_3R_5 - C_1C_3C_6R_1R_2R_3R_5 - C_1C_3C_6R_1R_2R_3R_5 - C_1C_3C_6R_1R_2R_3R_5 - C_1C_3C_6R$

10.3094 X-INVALID-ORDER-3094 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_3 R_1 R_2 R_6 s}{-R_2 + R_5 + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 R_1 R_2 R_3 R_5\right) + s^2 \left(C_1 C_2 R_1 R_2 R_5 - C_1 C_3 R_1 R_2 R_5 + C_1 C_3 R_1 R_2 R_5 + C_1 C_3 R_1 R_2 R_5 + C_2 C_3 R_2 R_3 R_5 + C_3 C_4 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 + C_3 R_1 R_5 - C_3 R_2 R_3 + C_3 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 + C_3 R_1 R_2 R_5 + C_3 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 + C_3 R_1 R_2 R_5 + C_3 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 + C_3 R_1 R_2 R_5 + C_3 R_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_1 R_2 R_5 + C_3 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_3 R_2 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_2 R_5 + C_2 R_3 R_5\right) + s \left(-C_1 R_1 R_5 + C_2 R_5 R_5\right) + s \left(-C_1 R_1 R_5 R_5\right) + s \left(-C_1 R_1$

10.3095 X-INVALID-ORDER-3095 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3 R_1 R_2}{-C_6 R_2 + C_6 R_5 + s^3 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_5\right) + s^2 \left(C_1 C_2 C_6 R_1 R_2 R_5 - C_1 C_3 C_6 R_1 R_2 R_5 + C_1 C_3 C_6 R_1 R_2 R_5 + C_1 C_3 C_6 R_1 R_2 R_5 + C_2 C_3 C_6 R_1 R_2 R_5 + C_2 C_3 C_6 R_2 R_3 R_5\right) + s \left(-C_1 C_6 R_1 R_2 R_5 + C_1 C_3 C_6 R_1 R_$

10.3096 X-INVALID-ORDER-3096 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_2R_6s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_2C_3C_6R_1R_2R_5 + C_2C_3C_6R_1R_2R_5$

10.3097 X-INVALID-ORDER-3097 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{-R_2 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_5 R_6\right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_3 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_6$

10.3098 X-INVALID-ORDER-3098 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $\frac{C_{3}C_{5}R_{1}R_{2}R_{6}s^{2}}{s^{3}\left(C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}+C_{1}C_{3}C_{4}R_{1}R_{2}R_{3}-C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}\right)+s^{2}\left(C_{1}C_{2}R_{1}R_{2}+C_{1}C_{3}R_{1}R_{2}+C_{1}C_{3}R_{1}R_{3}+C_{1}C_{4}R_{1}R_{2}-C_{1}C_{5}R_{1}R_{2}+C_{2}C_{3}R_{2}R_{3}+C_{3}C_{5}R_{2}R_{3}\right)+s\left(C_{1}R_{1}+C_{2}R_{2}+C_{3}R_{1}+C_{3}R_{2}+C_{3}R_{3}+C_{4}R_{2}-C_{5}R_{2}\right)+1}$

10.3099 X-INVALID-ORDER-3099 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

10.3100 X-INVALID-ORDER-3100 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1R_2s$

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10.3101 X-INVALID-ORDER-3101 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)
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 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_6 - C_1 C_3 C_5 C_6 R_1 R_2 R_3 + C_1 C_2 C_6 R_1 R_2 R_3 + C_1 C_3 C_6 R_1 R_2 R_3 + C_1 C_3 C_6 R_1 R_2 R_6 + C_1$

10.3102 X-INVALID-ORDER-3102
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_5 \right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 + C_1 C_3 C_5 R_1 R_2 R_3 + C_1 C_3 C_5 R_1 R_2 R_3 + C_1 C_3 C_5 R_1 R_2 R_5 + C_1 C_5 R_1 R$

10.3103 X-INVALID-ORDER-3103
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_2 C_5 C_6 R_1 R_2 R_3 + C_1 C_3 C_5 C_6 R_1 R_2 R_3$

10.3104 X-INVALID-ORDER-3104
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$$

 $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_2 C_5 C_6 R_1 R_2 R_3 + C_1 C_3 C_5 C_6 R_1 R_2 R_3$

10.3105 X-INVALID-ORDER-3105
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{1}{s^5 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_6 + C_1 C_3$

10.3106 X-INVALID-ORDER-3106
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$$

 $\frac{C_{3}C_{5}R_{1}R_{2}R_{5}R_{6}s^{2}+C_{3}R_{1}R_{2}R_{6}s}{-R_{2}+R_{5}+s^{3}\left(C_{1}C_{2}C_{3}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{3}C_{4}R_{1}R_{2}R_{3}R_{5}-C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{5}\right)+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{5}-C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{3}R_{1}R_{3}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{5}+C_{2}C_{3}R_{2}R_{3}R_{5}+C_{3}C_{4}R_{2}R_{3}R_{5}-C_{3}C_{5}R_{2}R_{3}R_{5}\right)+s\left(-C_{1}C_{2}R_{1}R_{2}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{5}+C_{3}C_{4}R_{2}R_{3}R_{5}+C_{3}C_{4}R_{2}R_{3}R_{5}\right)+s\left(-C_{1}C_{2}R_{1}R_{2}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{5}+C_{3}C_{4}R_{2}R_{3}R_{5}+C_{3}C_{4}R_{2$

10.3107 X-INVALID-ORDER-3107
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$$

 $H(s) = \frac{C_3C_5R_1R_2R_5s + C_3R_1R_2}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R$

10.3108 X-INVALID-ORDER-3108
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$$

 $\frac{C_3C_5C_6R_1R_2R_5R_6s^2 + C_3R_1R_2 + s\left(C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_5 + C_1C$

10.3109 X-INVALID-ORDER-3109
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

 $H(s) = \frac{-R_2 + R_5 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_5 R_6 - C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6\right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_2 R_3 R_5 - C_1 C_3 C_5 R_1 R_2 R_3 R_5 - C_1 C_3 C_6 R_1 R_2 R_3 R_6 + C_1 C_3 C_6 R_1 R_2 R_3 R_5 + C_1$

10.3110 X-INVALID-ORDER-3110
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$$

 $\overline{C_1C_2C_3C_4R_1R_2R_3R_4R_5s^4 - R_2 + R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_5 + C_1C_2C_4R_1R_2R_4R_5 - C_1C_3C_4R_1R_2R_3R_5 + C_1C_3C_4R_1R_2R_4R_5 + C_1C_3C_4R_1R_2R_4R_5 + C_2C_3C_4R_1R_2R_4R_5 +$

- **10.3111** X-INVALID-ORDER-3111 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5s^4 C_6R_2 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_2C_4C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_4R_5 + C_$
- **10.3112** X-INVALID-ORDER-3112 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5s^4 C_6R_2 + C_6R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_3R_3R_5 + C_1C_3C_4C_6R_1R_3R_3R_5 + C_1C_3C_4C_6R_1R_3R_3R_5 + C_1C_3C_4C_6R_1R_3R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_$
- **10.3113** X-INVALID-ORDER-3113 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{1}{C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 R_6 s^5 R_2 + R_5 + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_5 R_6$
- **10.3114** X-INVALID-ORDER-3114 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)$
- $H(s) = \frac{C_3C_4C_5R_1}{s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4 C_1C_3C_4S_1R_2R_3R_4 + C_1C_3C_4R_1R_2R_3 + C_1C_3C_4R_1R_2R_3 + C_1C_3C_4R_1R_2R_4 + C_1C_3C_4R_1$
- 10.3115 X-INVALID-ORDER-3115 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{1}{C_6s}\right)$
- $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 + C_1 C_3 C_4 C_6 R_1 R_2 R_4$
- **10.3116** X-INVALID-ORDER-3116 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$
- $H(s) = \frac{1}{C_6 + s^4 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 + C_1 C_3 C_4 C_6 R_1 R_2 R_4 + C_1 C_3 C_4 C_6 R_1 R_2 R_4$
- **10.3117** X-INVALID-ORDER-3117 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{s_5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_4 R_6 \right) + s_4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_6 +$
- **10.3118** X-INVALID-ORDER-3118 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5s^5 + s^4\left(C_1C_2C_3C_4R_1R_2R_3R_4 + C_1C_2C_3C_5R_1R_2R_3R_5 + C_1C_3C_4C_5R_1R_2R_3R_5 + C_1C_3C_4C_5R_1R_2R_3R_4 + C_1C_3C_4C_5R_1R_3R_4 + C_1C_3C_4C_5R_1R_3R_$
- 10.3119 X-INVALID-ORDER-3119 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 + C_6 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_3R_4 + C_1C_2C_4C_5C_6R_1R_2R_3R_4 + C_1C_3C_4C_5C_6R_1R_2R_3R_5 + C_1C_3C_4C_5C_6R_1R_3R_3R_5 + C_1C_3C_4C_5C_6R_1R_3R_3C_5C_6R_1R_3R_5 + C_1C_3C_4C_5C_6R_1R_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_$
- **10.3120** X-INVALID-ORDER-3120 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5s^5 + C_6 + s^4(C_1C_2C_3C_4C_6R_1R_2R_3R_4 + C_1C_2C_3C_5C_6R_1R_2R_3R_5 + C_1C_3C_4C_5C_6R_1R_2R_3R_4 + C_1C_3C_4C_5C_6R_1R_2R_3R_5 + C_1C_3C_4C_5C_6R_1R_3R_3R_5 + C_1C_3C_4C_5C_6R_1R_3R_3R_5 + C_1C_3C_4C_5C_6R_1R_3R_5C_5C_6R_1R_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_6R_1R_3C_5C_5C_5C_6R_1$

- **10.3121** X-INVALID-ORDER-3121 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{1}{C_1C_2C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^6 + s^5\left(C_1C_2C_3C_4C_5R_1R_2R_3R_4R_5 + C_1C_2C_3C_4C_6R_1R_2R_3R_4R_6 + C_1C_2C_4C_5C_6R_1R_2R_3R_4R_6 + C_1C_3C_4C_5C_6R_1R_2R_3R_4R_6 + C_1C_$
- **10.3122** X-INVALID-ORDER-3122 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$
- $H(s) = \frac{-R_2 + R_5 + s^4 \left(C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 R_5 C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_4 R_5\right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_3 C_4 R_1 R_2 R_3 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 C_1 C_3 C_4 R_1 R_2 R_4 R_5 C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_4 R_5 C_1 C_3 C_4 R_1 R_2 R_4 R_5 + C_1 C_3 C_4$
- **10.3123** X-INVALID-ORDER-3123 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$
- $H(s) = \frac{-}{-C_6R_2 + C_6R_5 + s^4\left(C_1C_2C_3C_4C_6R_1R_2R_3R_4R_5 C_1C_3C_4C_6R_1R_2R_3R_4R_5\right) + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_5 + C_1C_2C_4C_6R_1R_2R_3R_4 + C_1C_3C_4C_6R_1R_2R_3R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_4R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1C_3C_4C_6R_1R_3R_5 + C_1$
- 10.3124 X-INVALID-ORDER-3124 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$
- $H(s) = \frac{-C_{6}R_{2} + C_{6}R_{5} + s^{4}\left(C_{1}C_{2}C_{3}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} C_{1}C_{3}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}\right) + s^{3}\left(C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{3}C_{4}C_{6}R_{1}R_{2}R_{3}R_{5} +$
- 10.3125 X-INVALID-ORDER-3125 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{1}{-R_2 + R_5 + s^5 \left(C_1 C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 R_6 C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_4 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_2$
- 10.3126 X-INVALID-ORDER-3126 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, R_6\right)$
- $H(s) = \frac{C_3 R_1 R_2 R_4 R_6 s}{-R_2 R_4 + R_2 R_5 + R_4 R_5 + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 R_1 R_2 R_3 R_4 + C_1 C_3 R_1 R_2 R_3 R_5 + C_1 C_3 R_1 R_2 R_4 R_5 + C_1 C_3 R_1 R_2 R_4 R_5 + C_2 C_3 R_2 R_3 R_4 R_5 + C_3 C_4 R_2 R_3 R_4 R_5 + C_4 C_3 R_1 R_2 R_4 R_5 + C_4 C_4 R_4 R_5$
- 10.3127 X-INVALID-ORDER-3127 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)$
- $H(s) = \frac{C_3 R_1 R_2 R_4}{-C_6 R_2 R_5 + C_6 R_4 R_5 + s^3 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_6 R_1 R_2 R_3 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_4 R_5 + C_2 C_3 C_6 R_1 R_2 R$
- 10.3128 X-INVALID-ORDER-3128 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_6s}\right)$
- $H(s) = \frac{C_3C_6R_1R_2R_4R_6s + C_3R_1R_2R_4}{-C_6R_2R_5 + C_6R_4R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R$
- 10.3129 X-INVALID-ORDER-3129 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{-R_2R_4 + R_2R_5 + R_4R_5 + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_4R_5R_6 + C_1C_3C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_5$
- **10.3130** X-INVALID-ORDER-3130 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$
- $H(s) = \frac{C_3C_5R_1R_2R_4R_6s^2}{R_2 + R_4 + s^3\left(C_1C_2C_3R_1R_2R_3R_4 + C_1C_3C_4R_1R_2R_3R_4 C_1C_3C_5R_1R_2R_3R_4 + C_1C_3R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_1C_3R_1R_2R_4 + C_2C_3R_1R_2R_4 + C_2C_3R_2R_3R_4 + C_3C_3R_2R_3R_4 + C_3C_3R_3R_3R_4 + C_3C_3R_3R_3R_3 + C_3C_3R_3R_3 + C_3C_3R_3R_3 + C_3C_3R_3R_3 + C_3C_3R_3R_3 + C_3C_3R_3R_3 + C_3C_3R_3R_3$

10.3131 X-INVALID-ORDER-3131 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_4 + C_1C_3C_6R_$

10.3132 X-INVALID-ORDER-3132 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_1R_2R_4s}{C_6R_2 + C_6R_4 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_4 + C_1C_$

10.3133 X-INVALID-ORDER-3133 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_2 + R_4 + s^4 \left(C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_6 R_1 R_2 R_3 R_4 R_6 - C_1 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_6 R_1 R_2 R$

10.3134 X-INVALID-ORDER-3134 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$

 $\overline{R_2 + R_4 + s^4 \left(C_1 C_2 C_3 C_5 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_4 R_5 \right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 R_4 + C_1 C_3 C_5 R_1 R$

10.3135 X-INVALID-ORDER-3135 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{1}{C_{6}R_{2} + C_{6}R_{4} + s^{4}\left(C_{1}C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{1}C$

10.3136 X-INVALID-ORDER-3136 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $\overline{C_6R_2 + C_6R_4 + s^4 \left(C_1C_2C_3C_5C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_5C_6R_1R_2R_3R_4 + C_1C_2C_5C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_2R_3R_4 + C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_4 + C_1C_3C_5C_6R_1R_3R_3R_4 + C_1C_3C_5C_6R_1R_3R_3R_4 + C_1C_3C_5C_6R_1R_3R_3R_4 + C_1C_3C_5C_6R_1R_3R_3R_4$

10.3137 X-INVALID-ORDER-3137 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{1}{R_2 + R_4 + s^5 \left(C_1 C_2 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R$

10.3138 X-INVALID-ORDER-3138 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

 $\frac{C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4R_6s}{-R_2R_4 + R_2R_5 + R_4R_5 + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5 + C_1C_3C_4R_1R_2R_3R_4R_5 - C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_3R_1R_2R_3R_4 + C_1C_3R_1R_2R_$

10.3139 X-INVALID-ORDER-3139 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^3\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5 + C_1C_3C_4C_6R_1R_2R_3R_4R_5 - C_1C_3C_6R_1R_2R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_1R$

10.3140 X-INVALID-ORDER-3140 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $\frac{-C_{3}C_{3}C_{6}R_{1}R_{2}R_{3}+C_{6}R_{4}R_{5}+s^{3}\left(C_{1}C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3$

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10.3141 X-INVALID-ORDER-3141 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)
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 $H(s) = \frac{-R_2R_4 + R_2R_5 + R_4R_5 + s^4\left(C_1C_2C_3C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_1R_2R_3R_4R_5R_6 - C_1C_3C_5C_6R_1R_2R_3R_4R_5R_6\right) + s^3\left(C_1C_2C_3R_1R_2R_3R_4R_5 + C_1C_3C_4R_1R_2R_3R_4R_5 - C_1C_3C_5R_1R_2R_3R_4R_5 - C_1C_3C_5R_1R_2R_3R_4R_5 - C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_3C_4R_1R_2R_3R_4R_5 - C_1C_3C_5R_1R_2R_3R_4R_5 - C_1C_3$

10.3142 X-INVALID-ORDER-3142 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5, \frac{1}{C_6s}\right)$

 $\frac{C_{3}R_{1}R_{2}R_{3}R_{4}s+R_{1}R_{2}R_{4}}{s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}\right)+s^{2}\left(-C_{1}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}+C_{1}C_{6}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}+C_{1}C_{6}R_{1}R_{2}+C_{1}C_{6}R_{1}R_{2}+C_{1}$

10.3143 X-INVALID-ORDER-3143 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_6R_1R_2R_3R_4R_6s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_6R_1R_2R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_5 + C_2C_3C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4R_5 + C_2C_6R_1R_2R_3R_4R_5 + C_2C_6R_1R_2R_3R_4R_5 + C_3C_6R_1R_3R_4R_5 + C_3C_6R_1R_3R_4R$

10.3144 X-INVALID-ORDER-3144 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $\overline{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{6}R_{1}R_{2}R_$

10.3145 X-INVALID-ORDER-3145 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_3C_5R_1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^3\left(C_1C_2C_6R_1R_2R_3R_4R_6 + C_1C_3C_6R_1R_2R_3R_4R_6 + C_2C_3C_6R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_1C_5R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3$

10.3146 X-INVALID-ORDER-3146 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, R_6\right)$

 $\frac{C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{6}s^{2}+C_{5}R_{1}}{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}+s^{3}\left(C_{1}C_{2}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}R_{1}R_{2}R_{3}+C_{1}C_{5}R_{1}R_{2}R_{3}+C_{1}C_{5}R_{1}R_{2}R_{3}+C_{1}C$

10.3147 X-INVALID-ORDER-3147 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{1}{C_{6}R_{1}R_{4} + C_{6}R_{2}R_{3} + C_{6}R_{2}R_{4} + C_{6}R_{3}R_{4} + s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{$

10.3148 X-INVALID-ORDER-3148 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $\frac{\cup_{3}\cup_{5}\cup_{6}n_{1}}{C_{6}R_{1}R_{4}+C_{6}R_{2}R_{3}+C_{6}R_{2}R_{4}+C_{6}R_{3}R_{4}+s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{5}C_{6}R$

10.3149 X-INVALID-ORDER-3149 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^4\left(C_1C_2C_5C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_5C_6R_1R_2R_3R_4R_5R_6 + C_2C_3C_5C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_5R_1R_2R_3R_4R_5 + C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_5 + C_$

10.3150 X-INVALID-ORDER-3150 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $C_3C_5R_1R_2R_3R_4R_5s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5\right)$

 $c_{3}c_{5}n_{1}n_{2}n_{3}n_{4}n_{5}s + n_{1}n_{2}n_{4} + s \\ (c_{3}n_{1}n_{2}n_{3}n_{4} + c_{5}n_{1}n_{2}n_{4}n_{5})$ $s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}C_{$

10.3153 X-INVALID-ORDER-3153 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3R_1R_2R_3s + R_1R_2}{s^3\left(C_1C_2C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_3R_5 + C_1C_4C_6R_1R_2R_3R_5 + C_2C_3C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_$

 $\overline{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + S^3\left(C_1C_2C_6R_1R_2R_3R_4R_5R_6 + C_1C_5C_6R_1R_2R_3R_4R_5R_6 + C_2C_3C_6R_1R_2R_3R_4R_5R_6 + C_2C_3C_6R_1R_2R_3R_4R_5 + S^2\left(C_1C_2R_1R_2R_3R_4R_5 + C_1C_3R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4R_5 - C_1C_5R$

10.3154 X-INVALID-ORDER-3154 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_6R_1R_2R_3R_6s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_6R_1R_2R_6\right)}{s^3\left(C_1C_2C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_3R_5 + C_2C_3C_6R_1R_2R_3R_5 + C_1C_6R_1R_2R_3 + C$

10.3155 X-INVALID-ORDER-3155 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(C_1C_2C_6R_1R_2R_3R_5R_6 + C_1C_3C_6R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_2R_3R_5R_6 + C_2C_3C_6R_1R_2R_3R_5R_6 + C_1C_4R_1R_2R_3R_5 + C_1C_4R_1R_2R_$

10.3156 X-INVALID-ORDER-3156 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_3R_6s$

10.3157 X-INVALID-ORDER-3157 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_6s^2 + C_5R_1R_2R_3}{R_1 + R_2 + R_3 + s^3\left(C_1C_2C_5R_1R_2R_3R_5 + C_1C_3C_5R_1R_2R_3R_5 + C_2C_3C_5R_1R_2R_3R_5 + C_2C_3C_5R_1R_2R_3R_5 + C_2C_3C_5R_1R_2R_3R_5 + C_2C_5R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_5R_1R_2R_3 +$

10.3158 X-INVALID-ORDER-3158 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3}{C_6R_1 + C_6R_2 + C_6R_3 + s^3\left(C_1C_2C_5C_6R_1R_2R_3R_5 + C_1C_3C_5C_6R_1R_2R_3R_5 + C_2C_3C_5C_6R_1R_2R_3R_5 + C_2C_3C_5C_6R_1R_2R_3R_5 + C_2C_3C_5C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_3 + C_1C_5C_6R_1R_2R_3 + C_1C_5$

10.3159 X-INVALID-ORDER-3159 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_6s^2 + C_5R_1R_2 + s_3C_5C_6R_1R_2R_3R_5 + C_1C_3C_5C_6R_1R_2R_3R_5 + C_1C_3C_5C_6R_1R_2R_3R_5 + C_1C_3C_5C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_3$

10.3160 X-INVALID-ORDER-3160 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{H(s)}{R_1 + R_2 + R_3 + s^4 \left(C_1 C_2 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_3 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_5 R_6 + C_1 C_2 C_5 R_1 R_2 R_3 R_5 + C_1 C_2 C_6 R_1 R_2 R_3$

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10.3161 X-INVALID-ORDER-3161 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5R_1R_2R_3R_5s^2 + R_1R_2 + s\left(C_3R_1R_2R_3 + C_5R_1R_2R_5\right)}{s^3\left(C_1C_2C_6R_1R_2R_3R_5 + C_1C_3C_6R_1R_2R_3R_5 + C_1C_5C_6R_1R_2R_3R_5 + C_2C_3C_6R_1R_2R_3R_5\right) + s^2\left(-C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_3 + C_2C_6R_1R_2R_3 + C_3C_6R_1R_2R_3 + C_3C_6R_1R_3R_3 + C_3C_
10.3162 X-INVALID-ORDER-3162 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                                             C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5}R_{6}s^{3} + R_{1}R_{2} + s^{2}\left(C_{3}C_{5}R_{1}R_{2}R_{3}R_{5} + C_{5}C_{6}R_{1}R_{2}R_{5}R_{6}\right) + s\left(C_{3}R_{1}R_{2}R_{3} + C_{5}R_{1}R_{2}R_{5} + C_{6}R_{1}R_{2}R_{5}\right) \\ + s^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{5}\right) + s^{2}\left(-C_{1}C_{6}R_{1}R_{2}R_{3} + C_{1}C_{6}R_{1}R_{2}R_{5} + C_{2}C_{6}R_{1}R_{2}R_{5} + C_{2}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{3}C_{6}R_{1}R_{3}R_{5} + C_{3}C_{6}R_{1}R_{3}R_{5} + C_{3}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{4}C_{6}R_{1}R_{2}R_{3}R_{5} + C_{4}
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10.3163 X-INVALID-ORDER-3163 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^3\left(C_1C_2C_6R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_2R_3R_5R_6 + C_1C_5C_6R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_2R_3R_5R_6 + C_1C_4C_6R_1R_2R_3R_$

10.3164 X-INVALID-ORDER-3164 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, R_6\right)$

 $\frac{C_{3}C_{4}R_{1}R_{2}R_{3}R_{4}R_{6}s^{2}+R_{1}R_{2}R_{6}+s\left(C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{4}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{4}R_{1}R_{2}R_{3}R_{5}+C_{1}C_{4$

10.3165 X-INVALID-ORDER-3165 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, \frac{1}{C_6s}\right)$

 $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_6 R_1 R_2 R$

10.3166 X-INVALID-ORDER-3166 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, R_6 + \frac{1}{C_6s}\right)$

 $\frac{C_3C_4C_6R_1R_2R_3R_4R_6s^3 + R_1R_2 + s_2R_3R_4R_5 + C_1C_3C_4C_6R_1R_2R_3R_4R_5 + C_2C_3C_4C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4 + C_1C_4C_6R_1R_2R_3R_5 + C_1C_4C_$

10.3167 X-INVALID-ORDER-3167 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, \frac{R_6}{C_6R_6s+1}\right)$

 $H(s) = \frac{1}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^4\left(C_1C_2C_4C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_4R_1R_2R_3R_4R_5 + C_1C_3C_$

10.3168 X-INVALID-ORDER-3168 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6\right)$

 $\frac{C_{3}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4}R_{6}s^{3}+C_{5}R_{1}R_{2}R_{6}s+s^{2}\left(C_{3}C_{5}R_{1}R_{2}R_{3}R_{6}+C_{4}C_{5}R_{1}R_{2}R_{3}R_{6}+C_{4}C_{5}R_{1}R_{2}R_{3}R_{6}+C_{4}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{2}C_{4}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{4}C_{5}R_{1}R_{2}R_{3}+C_{1}C_{4}R_{1}R_{2}R_{3$

10.3169 X-INVALID-ORDER-3169 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $C_3C_4C_5R_1R_2R_3R_4s^2 + C_5R_1R_2 + s^2$

 $H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4s^2 + C_5R_1R_2 + S_5R_1R_2 + S_5R$

10.3170 X-INVALID-ORDER-3170 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

 $C_3C_4C_5C_6R_1R_2R_3R_4R_6s^3 + C_5R_1R_2 + s^2(C_3C_4C_5R_1R_2R_3R_4 + C_3C_5C_6R_1R_2R_3R_4 + C_3C_5C_6R_3R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5R_5 + C_5C_6R_5 + C_5C_5C_5 + C_5C_5 + C_5C_5$

 $\frac{C_3C_4C_5C_6R_1R_2R_3R_4+C_5R_1R_2+s^{-1}(C_3C_4C_5R_1R_2R_3R_4+C_3C_5C_6R_1R_2R_3R_$

- **10.3171** X-INVALID-ORDER-3171 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{1}{R_1 + R_2 + R_3 + s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_6 + C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 + C_1 C_2 C_6 R_1 R_2 R_3 R_4 + C_1 C_3 C_4 R_1 R_2 R_3 R_4 + C_1 C_3 C_6 R_1 R_2 R$
- 10.3172 X-INVALID-ORDER-3172 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6\right)$
- $H(s) = \frac{1}{R_1 + R_2 + R_3 + s^4 \left(C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_5 R_1 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 C_5 R_1 R_2 R_3 R_4 + C_1 C_2 C_5 R_1 R_2 R_3 R_4 + C_1 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_3 C_5 R_1 R_2 R_3 R_4 + C_1 C_4 C_5 R_1 R_2 R_3 R_4 + C_1 C_4$
- **10.3173** X-INVALID-ORDER-3173 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{1}{C_6s}\right)$
- $H(s) = \frac{1}{C_{6}R_{1} + C_{6}R_{2} + C_{6}R_{3} + s^{4}\left(C_{1}C_{2}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}C_{3}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R$
- 10.3174 X-INVALID-ORDER-3174 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$
- $H(s) = \frac{1}{C_{6}R_{1} + C_{6}R_{2} + C_{6}R_{3} + s^{4}\left(C_{1}C_{2}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{2}C_{3}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{1}R$
- **10.3175** X-INVALID-ORDER-3175 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$
- $H(s) = \frac{1}{R_1 + R_2 + R_3 + s^5 \left(C_1 C_2 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 R_6 + C_1 C_3 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 R_6 + C_1 C_2 C_4 C_5 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6$
- **10.3176** X-INVALID-ORDER-3176 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$
- $H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4R_5R_6s^3 + R_1R_2R_6 + s^2\left(C_3C_4R_1R_2R_3R_4R_5 + C_1C_3C_4R_1R_2R_3R_4R_5 + C_1C_3C_4R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_4 + C_1C_4R_1R_2R_$
- 10.3177 X-INVALID-ORDER-3177 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_6s}\right)$
- $H(s) = \frac{1}{s^4 \left(C_1 C_2 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 C_1 C_4 C_5 C_6 R_1 R_2 R_3 R_4 R_5 + C_2 C_3 C_4 C_6 R_1 R_2 R_3 R_4 R_5 \right) \\ + s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_4 + C_1 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_5 \right) \\ + s^3 \left(C_1 C_2 C_4 R_1 R_2 R_3 R_4 + C_1 C_4 C_6 R_1 R_2$
- **10.3178** X-INVALID-ORDER-3178 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$
- $H(s) = \frac{C_3C_4C_5C_6R_1R_2R_3R_4R_5R_6s^4 + R_1R_2 + s^3\left(C_3C_4C_5R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_2R_3R_4R_5 + C_3C_4C_6R_1R_$
- 10.3179 X-INVALID-ORDER-3179 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$
- $H(s) = \frac{1}{R_1R_5 R_2R_3 + R_2R_5 + R_3R_5 + s^4\left(C_1C_2C_4C_6R_1R_2R_3R_4R_5R_6 + C_1C_3C_4C_6R_1R_2R_3R_4R_5R_6 + C_2C_3C_4C_6R_1R_2R_3R_4R_5R_6 + C_2C_3C_4C_6R_1R_2R_3R_4R_5R_5 + C_2C_3C_4C_6R_1R_2R_5R_5 + C_2C_3C_4C_6R_1R_2R_5R_5 + C_2C_3C_4C_6R_1R_2R_5R_$
- 10.3180 X-INVALID-ORDER-3180 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{1}{C_6s}\right)$
- $H(s) = \frac{C_3 R_1 R_2 R_3 R_4 s + R_1 R_2 R_4}{s^3 \left(C_1 C_2 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_3 C_6 R_1 R_2 R_3 R_4 R_5 + C_1 C_4 C_6 R_1 R_2 R_3 R_4 R_5 + C_2 C_3 C_6 R_1 R_2 R_3 R_4 R_5 \right) + s^2 \left(-C_1 C_6 R_1 R_2 R_3 R_4 + C_1 C_6 R_1 R_2 R_3 R_5 + C_1 C_6 R_1 R_3 R_4 R_5 + C_2 C_6 R_1 R_2 R_3 R_4 R_5 + C_3 C_6 R_1 R_3 R_4 R_$

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10.3181 X-INVALID-ORDER-3181 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, R_6 + \frac{1}{C_6s}\right)
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 $H(s) = \frac{C_3C_6R_1R_2R_3R_4R_6s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_6R_1R_2R_4R_6\right)}{s^3\left(C_1C_2C_6R_1R_2R_3R_4R_5 + C_1C_3C_6R_1R_2R_3R_4R_5 + C_2C_3C_6R_1R_2R_3R_4R_5 + C_2C_3C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4 + C_1C_6R_1R_2R_3R_4R_5 + C_2C_6R_1R_2R_3R_4R_5 + C$

10.3182 X-INVALID-ORDER-3182
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, \frac{R_6}{C_6R_6s+1}\right)$$

 $\overline{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+R_{5}R_{6}+C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{1}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{2}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{4}R_{1}R_{$

10.3183 X-INVALID-ORDER-3183
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \frac{R_6}{C_6R_6s+1}\right)$$

 $H(s) = \frac{1}{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4 + s^3\left(C_1C_2C_6R_1R_2R_3R_4R_6 + C_1C_3C_6R_1R_2R_3R_4R_6 + C_1C_5C_6R_1R_2R_3R_4R_6 + C_1C_5C_6R_1R_2R_3R_4R_6 + C_2C_3C_6R_1R_2R_3R_4R_6 + C_2C_3C_6R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 + C_1C_$

10.3184 X-INVALID-ORDER-3184
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6\right)$$

 $\overline{R_{1}R_{4} + R_{2}R_{3} + R_{2}R_{4} + R_{3}R_{4} + s^{3}\left(C_{1}C_{2}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{4}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{5}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}R_{1}R_{2}R_{3}R_{4} + C$

10.3185 X-INVALID-ORDER-3185
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{1}{C_{6}R_{1}R_{4} + C_{6}R_{2}R_{3} + C_{6}R_{2}R_{4} + C_{6}R_{3}R_{4} + s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{4}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5} + C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{$

10.3186 X-INVALID-ORDER-3186
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$$

 $\overline{C_{6}R_{1}R_{4}+C_{6}R_{2}R_{3}+C_{6}R_{2}R_{4}+C_{6}R_{3}R_{4}+s^{3}\left(C_{1}C_{2}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{3}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4}+C_{1}C_{3}C_{6}R_{1}R_{2}R_{$

10.3187 X-INVALID-ORDER-3187
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$$

10.3188 X-INVALID-ORDER-3188
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

 $C_3C_5R_1R_2R_3R_4R_5s^2 + R_1R_2R_4 + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_4R_5\right)$

 $\frac{C_3C_5R_1R_2R_3R_4R_5s + R_1R_2R_4 + s (C_3R_1R_2R_3R_4 + C_5R_1R_2R_3R_4 + C_5R$

10.3189 X-INVALID-ORDER-3189
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_5 + C_3C_6R_1R_2R_3R_4R_5 + C_3C_6R_1R_2R_3R_4R_6 + C_5C_6R_1R_2R_4R_5R_6) + s\left(C_3R_1R_2R_3R_4 + C_5R_1R_2R_3R_4R_5 + C_5C_6R_1R_2R_3R_4R_5 + C_5C_6R_1R_2R_3R_4R_5$

10.3190 X-INVALID-ORDER-3190
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$$

 $\overline{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+S^{3}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{1}C_{4}C_{6}R_{1}R_{2}R_{3}R_{4}R_{5}R_{6}+C_{1}C_{5}C_{6}R_{1}R_{$

11 X-INVALID-WZ

11.1 X-INVALID-WZ-1
$$Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_6\right)}{-C_4C_5C_6R_2R_3R_4s^2 + C_6R_1 + C_6R_2 + C_6R_3 + s\left(C_4C_6R_1R_4 + C_4C_6R_2R_3 + C_4C_6R_2R_4 + C_4C_6R_3R_4 - C_5C_6R_2R_3\right)}$$

Parameters:

bandwidth: $i\sqrt{-R_1-R_2-R_3}(C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3)$

K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: $-\frac{R_1R_6}{R_3}$

K-BP: $\frac{C_4C_5R_1R_2R_4+C_5C_6R_1R_2R_6}{C_4C_6R_1R_4+C_4C_6R_2R_3+C_4C_6R_2R_4+C_4C_6R_3R_4-C_5C_6R_2R_3}$ Qz: None

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

11.2 X-INVALID-WZ-2 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_6\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_4C_5C_6R_1R_4R_5 - C_4C_5C_6R_2R_3R_4 + C_4C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_4R_5 + C_4C_5C_6R_3R_4R_5\right) + s\left(C_4C_6R_1R_4 + C_4C_6R_2R_4 + C_4C_6R_3R_4 + C_5C_6R_1R_5 - C_5C_6R_2R_3 + C_5C_6R_2R_5 + C_5C_6R_3R_5\right)}$$

Parameters:

 $Q: \frac{\sqrt{C_4}\sqrt{C_5}R_1R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_3R_4\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_4}\sqrt{C_5}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}\sqrt{C_5}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}\sqrt{C_5}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}\sqrt{C_5}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_4}\sqrt{C_5}R_2R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_4R_5\sqrt{R_1+R_2+R_3}} + \sqrt{C_4}\sqrt{C_5}R_4R_5\sqrt{$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_4 C_5 R_1 R_4 R_5 - C_4 C_5 R_2 R_3 R_4 + C_4 C_5 R_2 R_3 R_5 + C_4 C_5 R_2 R_4 R_5 + C_4 C_5 R_3 R_4 R_5}$

 $\sqrt{R_1 + R_2 + R_3} (C_4 R_1 R_4 + C_4 R_2 R_3 + C_4 R_2 R_4 + C_4 R_3 R_4 + C_5 R_1 R_5 - C_5 R_2 R_3 + C_5 R_2 R_5 + C_5 R_3 R_5) \sqrt{\frac{1}{C_4 C_5 R_1 R_4 R_5 - C_4 C_5 R_2 R_3 R_4 + C_4 C_5 R_2 R_4 R_5 + C_4 C_5 R_2 R_4 R_5 + C_4 C_5 R_3 R_4 R_5 + C_4 C_5 R_2 R_4 R_5 + C_4 C_5 R_3 R_5 + C_4 C_5 R_5 R_5 + C_$ $\frac{\text{bandwidth:}}{\sqrt{C_4\sqrt{C_5}R_1R_4R_5\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}}-\sqrt{C_4\sqrt{C_5}R_2R_3R_4\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2+R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}+\sqrt{C_4\sqrt{C_5}R_2R_3R_4+R_2R_5}+C_4\sqrt{C_5}R_3R_4+R_2R_5+R_3R_4R_5}+C_4\sqrt{C_5}R_3R_4+R_2R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3R_5+R_3$

 $\begin{array}{l} \text{K-LP:} \ \frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3} \\ \text{K-HP:} \ \frac{C_5R_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2\tilde{R}_3R_5+R_2R_4R_5+R_3R_4R_5} - \sqrt{C_4}\sqrt{C_5R_2R_5} \\ \text{K-HP:} \ \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP:} \ \frac{C_4C_5R_1R_2R_4+C_5C_6R_1R_2R_6}{C_4C_6R_1R_4+C_4C_6R_2R_3+C_4C_6R_3R_4+C_5C_6R_1R_5-C_5C_6R_2R_3+C_5C_6R_2R_5+C_5C_6R_3R_5} \\ \text{Qz:} \ \text{None} \\ \\ \text{W} \end{array}$

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

11.3 X-INVALID-WZ-3 $Z(s) = \left(R_1, R_2, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_4C_5R_1R_2R_4R_5R_6s^2 + R_1R_2R_6 + s\left(C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)}{-C_4C_5R_2R_3R_4R_5s^2 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s\left(C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_4R_5 + C_4R_3R_4R_5 - C_5R_2R_3R_5\right)}$$

Parameters:

Q: $-\frac{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-R_1R_5} + R_2R_3 - R_2R_5 - R_3R_5}{C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_4R_5 + C_4R_3R_4R_5 - C_5R_2R_3R_5}$ wo: $\frac{\sqrt{-R_1R_5 + R_2R_3 - R_2R_5 - R_3R_5}}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $-\frac{C_4R_1R_4R_5 - C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_4R_5 + C_4R_3R_4R_5 - C_5R_2R_3R_5}{C_4C_5R_2R_3R_4R_5}$

K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: $-\frac{R_1R_6}{R_2}$

K-BP: $\frac{C_4R_1R_2R_4R_6+C_5R_1R_2R_5R_6}{C_4R_1R_4R_5-C_4R_2R_3R_4+C_4R_2R_3R_5+C_4R_2R_4R_5+C_4R_3R_4R_5-C_5R_2R_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}}$

11.4 X-INVALID-WZ-4 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^2\left(C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_5 + C_3C_6R_2R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_4R_5\right)}$$

Parameters:

K-BP: $\frac{C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6}{C_3C_6R_1R_5 + C_3C_6R_2R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

11.5 X-INVALID-WZ-5 $Z(s) = \left(R_1, R_2, \frac{1}{C_{3s}}, R_4 + \frac{1}{C_{4s}}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_4R_5s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_5R_1R_2R_5\right)}{-C_6R_2 + C_6R_5 + s^2\left(C_3C_4C_6R_1R_4R_5 + C_3C_4C_6R_2R_4R_5 - C_4C_5C_6R_2R_4R_5\right) + s\left(C_3C_6R_1R_5 + C_3C_6R_2R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_4R_5 - C_5C_6R_2R_5\right)}$$

Parameters:

 $Q\colon \frac{C_3\sqrt{C_4}R_1\sqrt{R_5}\sqrt{-\frac{R_2}{C_3R_1+C_3R_2-C_5R_2}}+\frac{R_5}{C_3R_1+C_3R_2-C_5R_2}}{C_3R_1+C_3R_2-C_5R_2}+\frac{R_5}{C_3R_1+C_3R_2-C_5R_2}}+C_3\sqrt{C_4}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2}{C_3R_1+C_3R_2-C_5R_2}}+\frac{R_5}{C_3R_1+C_3R_2-C_5R_2}}-\sqrt{C_4}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2}{C_3R_1+C_3R_2-C_5R_2}}+\frac{R_5}{C_3R_1+C_3R_2-C_5R_2}}$

 $\frac{-R_2 + R_5}{\sqrt{C_3 C_4 R_1 R_4 R_5 + C_3 C_4 R_2 R_4 R_5}} (C_3 R_1 R_5 + C_3 R_2 R_5 - C_4 R_2 R_4 + C_4 R_2 R_5 + C_4 R_4 R_5 - C_5 R_2 R_5)}{(C_3 \sqrt{C_4} R_1 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 - C_5 R_2}} + \frac{R_5}{C_3 R_1 + C_3 R_2 - C_5 R_2} + C_3 \sqrt{C_4} R_2 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 - C_5 R_2}} - \sqrt{C_4} C_5 R_2 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_2}{C_3 R_1 + C_3 R_2 - C_5 R_2}} + \frac{R_5}{C_3 R_1 + C_3 R_2 - C_5 R_2} + \frac{R_5}{C_3 R_$

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}}$

11.6 X-INVALID-WZ-6 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_3C_5C_6R_2R_3R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$$

Parameters:

 $\begin{aligned} & \text{Q:} & - \frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_2R_4 - R_2R_5 - R_4R_5}}{C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 - C_5R_2R_4R_5} \\ & \text{wo:} & \frac{\sqrt{R_2R_4 - R_2R_5 - R_4R_5}}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}} \\ & \text{bandwidth:} & - \frac{C_3R_1R_4R_5 - C_3R_2R_3R_4 + C_3R_2R_3R_5 + C_3R_2R_4R_5 + C_3R_3R_4R_5 - C_5R_2R_4R_5}{C_3C_5R_2R_3R_4R_5} \end{aligned}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6}{C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_3R_4R_5 - C_5C_6R_2R_4R_5} \\ \text{Qz: None} \ \ \vdots \end{array}$

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.7 X-INVALID-WZ-7 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_5R_6s^2 + C_3R_1R_2 + s\left(C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^2\left(C_3C_4C_6R_2R_3R_5 - C_3C_5C_6R_2R_3R_5\right) + s\left(C_3C_6R_1R_5 - C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_3R_5 + C_4C_6R_2R_5 - C_5C_6R_2R_5\right)}$$

Parameters:

```
Q: \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}}}{C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5-C_5R_2R_5}
 bandwidth: \frac{\sqrt{\frac{-R_2+R_5}{C_3C_4R_2R_3R_5-C_3C_5R_2R_3R_5}}(C_3R_1R_5-C_3R_2R_3+C_3R_2R_5+C_3R_3R_5+C_4R_2R_5-C_5R_2R_5)}{(C_3R_1R_5-C_3R_2R_5+C_3R_3R_5+C_4R_2R_5-C_5R_2R_5)}
                                          \sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_2}{C_4-C_5}+\frac{R_5}{C_4-C_5}}
K-LP: -\frac{C_3R_1R_2}{C_6R_2-C_6R_5}
K-HP: \frac{C_5R_1R_6}{C_4R_3-C_5R_3}
 K-BP: \frac{C_3C_5R_1R_2R_5+C_3C_6R_1R_2R_6}{C_3C_6R_1R_5-C_3C_6R_2R_3+C_3C_6R_2R_5+C_3C_6R_3R_5+C_4C_6R_2R_5-C_5C_6R_2R_5} Qz: None
 Wz: \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}
```

11.8 X-INVALID-WZ-8 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_4C_6R_1R_2R_4R_6s^2 + C_3R_1R_2 + s\left(C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6\right)$ $H(s) = \frac{-C_{6}R_{2} + C_{6}R_{5} + s^{2}\left(C_{3}C_{4}C_{6}R_{1}R_{4}R_{5} - C_{3}C_{4}C_{6}R_{2}R_{3}R_{4} + C_{3}C_{4}C_{6}R_{2}R_{3}R_{5} + C_{3}C_{4}C_{6}R_{2}R_{4}R_{5} + C_{3}C_{4}C_{6}R_{2}R_{3}R_{4} + C_{3}C_{4}C_{6}R_{2}R_{3}R_{5} + C_{3}C_{4}C_{6}R_{2}R_{3}R_{4} + C_{3}C_{4}C_{6}R_{2}R_{3}R_{5} + C_{3}C_{6}R_{2}R_{5} + C_{4}C_{6}R_{2}R_{5} + C_{4}C_{6}R_$

Parameters:

```
O: \frac{\sqrt{C_3}\sqrt{C_4}R_1R_4R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5\sqrt{-\frac{R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_3}\sqrt{C_4}R_3R_5+R_3R_4R_5} + \sqrt{C_3}
Wo: \sqrt{\frac{-R_2+R_5}{C_3C_4R_1R_4R_5-C_3C_4R_2R_3R_4+C_3C_4R_2R_3R_5+C_3C_4R_2R_4R_5+C_3C_4R_3R_4R_5}}
```

 $\begin{array}{l} \text{K-HP:} \ \frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5} \\ \text{K-BP:} \ \frac{C_3C_4R_1R_2R_4 + C_3C_6R_1R_2R_6}{C_3C_6R_1R_5 - C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_3R_5 - C_4C_6R_2R_4 + C_4C_6R_2R_5 + C_4C_6R_4R_5} \end{array}$ Qz: None

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

11.9 X-INVALID-WZ-9 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_3C_4C_6R_2R_3R_4R_5 - C_3C_5C_6R_2R_3R_4R_5\right) + s\left(C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_4R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5$

Parameters:

```
Q: \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}}{C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_4R_2R_4R_5-C_5R_2R_4R_5}
                         \sqrt{\frac{-R_2R_4 + R_2R_5 + R_4R_5}{C_3C_4R_2R_3R_4R_5 - C_3C_5R_2R_3R_4R_5}}
                                              \frac{\sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_3C_4R_2R_3R_4R_5-C_3C_5R_2R_3R_4R_5}}(C_3R_1R_4R_5-C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_3R_4R_5+C_4R_2R_4R_5-C_5R_2R_4R_5)}{\sqrt{C_3C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_2R_5}{C_4-C_5}}}-\sqrt{C_3C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}+\frac{R_4R_5}{C_4-C_5}}}}
K-LP: -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}
K-HP: \frac{C_5R_1R_6}{C_4R_3-C_5R_3}
  \begin{array}{l} \text{K-BP:} \ \frac{C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6}{C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_3R_4R_5 + C_4C_6R_2R_4R_5 - C_5C_6R_2R_4R_5} \\ \text{Qz: None} \ \ . \end{array} 
  Wz: \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}
```

11.10 X-INVALID-WZ-10 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_2R_3R_4 + C_5C_6R_1R_3R_4 + C_5C_6R_1R_4R_5 - C_5C_6R_2R_3R_4 + C_5C_6R_3R_4 + C_5C_6R_3R_4$

Parameters:

Q: $\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_3R_1R_3R_4+C_3R_2R_3R_4+C_5R_1R_4R_5-C_5R_2R_3R_4+C_5R_2R_3R_5+C_5R_2R_4R_5+C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_5}}{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_5}}$ wo: $\frac{1}{\sqrt{C_3C_5R_1R_3R_4}} \frac{1}{R_3R_4R_5 + C_3C_5R_2R_3R_4R_5}$ bandwidth: $\frac{C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_5R_1R_4R_5 - C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_4R_5 + C_5R_3R_4R_5}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1 + R_2}\sqrt{C_3C_5R_1R_3R_4R_5 + C_3C_5R_2R_3R_4R_5}}$

```
Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}
 11.11 X-INVALID-WZ-11 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6)
                                                     \overline{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + S^2 \left( C_3 C_6 R_1 R_3 R_4 R_5 R_6 + C_5 C_6 R_2 R_3 R_4 R_5 R_6 \right) + s \left( C_3 R_1 R_3 R_4 R_5 + C_5 R_2 R_3 R_4 R_5 + C_6 R_1 R_4 R_5 R_6 + C_6 R_2 R_3 R_4 R_5 + C_6 R_2 R_4 R_5 + C_6 R_4 R_5 R_5 + C_6 R_4 R_5 R_5 + C_6 R_4 R_5 + C_6 R_4 R_5 + C_6 R_5 R_5 + C_6 R_5 R_5 + C_6 R_5 R_5
         Parameters:
                      Q: \frac{C_3\sqrt{C_6}R_1\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_4R_5}{C_3R_1+C_3R_2-C_5R_2}} - \frac{R_2R_3R_4}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_2R_3R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_2R_4R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_3R_4R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_3R_4R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_2R_3R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_2R_3R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_2R_4R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \frac{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}{C_3C_6R_1R_3R_4R_5R_6-C_5C_6R_2R_3R_4R_5R_6}(C_3R_1R_3R_4R_5+C_3R_2R_3R_4R_5-C_5R_2R_3R_4R_5+C_6R_1R_4R_5R_6-C_6R_2R_3R_4R_6+C_6R_2R_3R_5R_6+C_6R_2R_4R_5R_6+C_6R_3R_4R_5R_6)
                                                                                                   \overline{C_{3}\sqrt{C_{6}}R_{1}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} - \frac{R_{2}R_{3}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}} + \frac{R_{2}R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}} + \frac{R_{2}R_
                      \text{K-BP:} \frac{C_3 R_1 R_2 R_3 R_4 R_6 + C_5 R_1 R_2 R_4 R_5 R_6}{C_3 R_1 R_3 R_4 R_5 + C_3 R_2 R_3 R_4 R_5 - C_5 R_2 R_3 R_4 R_5 + C_6 R_1 R_4 R_5 R_6 - C_6 R_2 R_3 R_4 R_6 + C_6 R_2 R_3 R_5 R_6 + C_6 R_2 R_4 R_5 R_6 + C_6 R_3 R_4 R_5 R_6} 
                     Wz: \frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}
11.12 X-INVALID-WZ-12 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                 H(s) = \frac{C_3C_5C_6R_1R_2R_3R_6s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_5C_6R_1R_2R_6\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_3C_5C_6R_1R_3R_5 + C_3C_5C_6R_2R_3R_5 + C_4C_5C_6R_2R_3R_5\right) + s\left(C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_5C_6R_1R_5 - C_5C_6R_2R_3 + C_5C_6R_2R_5 + C_5C_6R_3R_5\right)}
            Parameters:
                \begin{array}{l} \text{Q:} \ \frac{\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}\sqrt{R_1+R_2+R_3}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_3R_1R_3+C_3R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5} \\ \text{wo:} \ \frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_3C_5R_1R_3R_5+C_3C_5R_2R_3R_5+C_4C_5R_2R_3R_5}} \\ \text{bandwidth:} \ \frac{C_3R_1R_3+C_3R_2R_3+C_4R_2R_3+C_5R_1R_5-C_5R_2R_3+C_5R_2R_5+C_5R_3R_5}{\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_3C_5R_1R_3R_5+C_3C_5R_2R_3R_5+C_4C_5R_2R_3R_5}} \\ \text{K-LP:} \ \frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}} \\ \text{K-HP:} \ \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_3} \\ \text{K-BP:} \ \frac{C_3C_5R_1R_2R_6}{C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3+C_5C_6R_1R_2R_6}} \\ \text{C2:} \ \text{None} \end{array}
                         Qz: None
                     Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}
11.13 X-INVALID-WZ-13 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \frac{R_6}{C_6 R_6 s+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_3C_5R_1R_2R_3R_5R_6s^2 + R_1R_2R_6 + s(C_3R_1R_2R_3R_6 + C_5R_1R_2R_5R_6)
                                                                            H(s) = \frac{1}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_3C_6R_1R_3R_5R_6 + C_3C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_5R_6 + C_5C_6R_2R_3R_5R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_3R_5R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_3R_5R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_3R_5R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_3R_5R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_3R_5R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6\right) + s\left(C_3R_1R_3R_5 + C_4R_2R_3R_5 + C_6R_2R_3R_5\right) + s\left(C_3R_1R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5\right) + s\left(C_3R_1R_3R_5 + C_6R_2R_3R_5 + C_6R_2R_3R_5\right) + s\left(C_3R_1R_3R_5 + C_6R_2R_3R_5\right) + s\left(C_3R_1R
         Parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                          \frac{R_2R_5}{2^{-C_5R_2}} + \frac{R_2R_5}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2} + \frac{R_3R_5}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2} + C_3\sqrt{C_6}R_2\sqrt{R_3}\sqrt{R_5}\sqrt{R_6}\sqrt{\frac{R_1R_5}{C_3R_1 + C_3R_2 + C_4R_3}}
                      Wo: \sqrt{\frac{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5}{C_3C_6R_1R_3R_5R_6 + C_3C_6R_2R_3R_5R_6 + C_4C_6R_2R_3R_5R_6 - C_5C_6R_2R_3R_5R_6}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \sqrt{\frac{R_1R_5-R_2R_3+R_2R_5+R_3R_5}{C_3C_6R_1R_3R_5R_6+C_3C_6R_2R_3R_5R_6+C_4C_6R_2R_3R_5R_6-C_5C_6R_2R_3R_5R_6}}(C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_2R_3R_5-C_5R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_2R_3R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+C_6R_5+
                      \frac{\sqrt{\sqrt{3}\sqrt{6}R_{1}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{\frac{R_{1}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}-\frac{R_{2}R_{3}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}+C_{3}\sqrt{C_{6}}R_{2}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{\frac{R_{1}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}}+\frac{R_{2}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}R_{5}}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}+\frac{R_{3}
                \begin{array}{c} & \begin{array}{c} & \begin{array}{c} & \begin{array}{c} & \begin{array}{c} & \begin{array}{c} & A_1R_5 \\ \end{array} \end{array} \end{array} - \overline{A_1R_5} - \overline{A_2R_3} - \overline{A_2R_2} + \overline{A_2R_3} \end{array} \\ \text{K-LP:} & \begin{array}{c} & \begin{array}{c} & A_1R_2R_6 \\ \hline & R_1R_2R_6 \end{array} \end{array} \\ \text{K-HP:} & \begin{array}{c} & C_3C_5R_1R_2 \\ \hline & C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2 \end{array} \\ \text{K-BP:} & \begin{array}{c} & C_3R_1R_2R_3R_6 + C_5R_1R_2R_5R_6 \\ \hline & C_3R_1R_3R_5 + C_3R_2R_3R_5 + C_4R_2R_3R_5 - C_5R_2R_3R_5 + C_6R_1R_5R_6 - C_6R_2R_3R_6 + C_6R_2R_5R_6 + C_6R_3R_5R_6 \end{array} \\ \text{Qz:} & \text{None} \end{array}
```

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$

K-BP: $\frac{C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6}{C_3C_6R_1R_3R_4 + C_5C_6R_2R_3R_4 + C_5C_6R_2R_3R_4 + C_5C_6R_2R_3R_5 + C_5C_6R_2R_4R_5 + C_5C_6R_3R_4R_5}$ Qz: None

K-HP: $\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

```
11.14 X-INVALID-WZ-14 Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)
```

$$H(s) = \frac{C_3C_4R_1R_2R_3R_4R_6s^2 + R_1R_2R_6 + s\left(C_3R_1R_2R_3R_6 + C_4R_1R_2R_4R_6\right)}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_3C_4R_1R_3R_4R_5 + C_3C_4R_2R_3R_4R_5\right) + s\left(C_3R_1R_3R_5 + C_3R_2R_3R_5 + C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_4R_5 + C_4R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_3}\sqrt{C_4}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_1R_4R_5-C_4R_2R_3R_4+C_4R_2R_3R_5+C_4R_2R_4R_5+C_4R_3R_4R_5}$ wo: $\frac{\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{\sqrt{C_3}C_4R_1R_3R_4R_5+C_3C_4R_2R_3R_4R_5}$ bandwidth: $\frac{C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_1R_4R_5-C_4R_2R_3R_4+C_4R_2R_3R_5+C_4R_2R_4R_5+C_4R_3R_4R_5}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_3}C_4R_1R_3R_4R_5+C_3}C_4R_2R_3R_4R_5}$ K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: $\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$

K-BP: $\frac{C_3R_1R_2R_3R_6+C_4R_1R_2R_4R_6}{C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_1R_4R_5-C_4R_2R_3R_4+C_4R_2R_3R_5+C_4R_2R_4R_5+C_4R_3R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_3}\sqrt{R_4}}$

11.15 X-INVALID-WZ-15 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5R_1R_2R_3R_4s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_4C_5R_1R_2R_4\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_3C_4C_6R_1R_3R_4 + C_3C_4C_6R_2R_3R_4 - C_4C_5C_6R_2R_3R_4\right) + s\left(C_3C_6R_1R_3 + C_4C_6R_1R_4 + C_4C_6R_2R_3 + C_4C_6R_2R_4 + C_4C_6R_2R_4 + C_4C_6R_2R_4\right)}$$

Parameters:

 $\frac{C_3\sqrt{C_4}R_1\sqrt{R_3}\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}+C_3\sqrt{C_4}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-\sqrt{C_4}C_5R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-C_3R_1R_3+C_3R_2R_3+C_4R_1R_4+C_4R_2R_3+C_4R_2R_4+C_4R_3R_4-C_5R_2R_3}$

 $\sqrt{R_1 + R_2 + R_3} (C_3 R_1 R_3 + C_3 R_2 R_3 + C_4 R_1 R_4 + C_4 R_2 R_3 + C_4 R_1 R_4 + C_4 R_2 R_3 + C_5 R_2 R_3) \sqrt{\frac{1}{C_3 C_4 R_1 R_3 R_4 + C_3 C_4 R_2 R_3 R_4 - C_5 R_2 R_3 R_4}}$

 $\frac{\sqrt{3\sqrt{C_4}R_1\sqrt{R_3}\sqrt{R_4\sqrt{R_1+R_2+R_3}}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}+C_3\sqrt{C_4}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}-\sqrt{C_4}C_5R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}$

Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_4}\sqrt{R_3}\sqrt{R_4}}$

11.16 X-INVALID-WZ-16 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)$

 $H(s) = \frac{1}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_3C_5C_6R_1R_3R_4R_5 + C_3C_5C_6R_2R_3R_4R_5 + s^2\left(C_3C_5C_6R_2R_3R_4R_5 + C_4C_5C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 + C_5C_6R_2R_3R_4 + C_5C_6R_3$

Parameters:

wo: $\frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}}{\sqrt{C_3C_5R_1R_3R_4R_5 + C_3C_5R_2R_3R_4R_5 + C_4C_5R_2R_3R_4R_5}}$ bandwidth: $\frac{C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 + C_5R_1R_4R_5 - C_5R_2R_3R_4 + C_5R_2R_3R_5 + C_5R_2R_4R_5 + C_5R_3R_4R_5}{\sqrt{C_5}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1 + C_3R_2 + C_4R_2}\sqrt{C_3C_5R_1R_3R_4R_5 + C_3C_5R_2R_3R_4R_5 + C_4C_5R_2R_3R_4R_5}}$ K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4}$ K-HP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6}{C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_5C_6R_1R_4R_5 - C_5C_6R_2R_3R_4 + C_5C_6R_2R_3R_5 + C_5C_6R_2R_4R_5 + C_5C_6R_3R_4R_5} \\ \text{Qz: None} \ \ . \end{array}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.17 X-INVALID-WZ-17 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \frac{R_6}{C_6R_6s+1}\right)$

 $C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6)$

 $H(s) = \frac{1}{R_1 R_4 R_5 - R_2 R_3 R_4 + R_2 R_3 R_5 + R_2 R_4 R_5 + R_3 R_4 R_5 + R_3 R_4 R_5 + R_6 + C_3 C_6 R_2 R_3 R_4 R_5 R_6 + C_4 C_6 R_2 R_3 R_4 R_5 R_6 + C_5 C_6 R_2 R_3 R_4 R_5 + C_6 R_2$

Parameters:

11.19 X-INVALID-WZ-19 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_4C_5R_1R_4R_5R_6s^2 + R_1R_6 + s\left(C_4R_1R_4R_6 + C_5R_1R_5R_6\right)}{-R_3 + R_5 + s^2\left(C_2C_4R_1R_4R_5 + C_2C_4R_3R_4R_5 - C_4C_5R_3R_4R_5\right) + s\left(C_2R_1R_5 + C_2R_3R_5 - C_4R_3R_4 + C_4R_3R_5 + C_4R_4R_5 - C_5R_3R_5\right)}$$

Parameters:

Qz: None

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

```
 Q: \frac{C_2\sqrt{C_4}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_4}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_4}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_4}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} \\ wo: \sqrt{\frac{-R_3+R_5}{C_2C_4R_3R_4R_5+C_2C_4R_3R_4+C_4R_3R_5+C_4R_4R_5-C_5R_3R_5}}{\sqrt{\frac{-R_3+R_5}{C_2C_4R_3R_4R_5+C_2C_4R_3R_4+C_4C_5R_3R_4}}}} \\ bandwidth: \frac{-R_3+R_5}{C_2\sqrt{C_4}R_1\sqrt{A_4}\sqrt{R_5}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_4}R_3R_4+C_4R_3R_5+C_4R_3R_4+C_4R_3R_5+C_4R_3R_4+C_4R_3R_5+C_4R_4R_5-C_5R_3R_5}}}{\sqrt{\frac{-R_3+R_5}{C_2R_1+C_2R_3-C_5R_3} + C_2\sqrt{C_4}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3-C_5R_3}} + C_2R_1R_5+C_2R_3R_5-C_4R_3R_4+C_4R_3R_5+C_4R_4R_5-C_5R_3R_5}}}} \\ k-LP: -\frac{R_1R_6}{R_3-R_5}}{C_2R_1+C_2R_3-C_5R_3}} \\ k-HP: \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}}{C_2R_1+C_2R_3-C_5R_3} + C_2\sqrt{C_4}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3}{C_2R_1+C_2R_3-C_5R_3}} + C_2R_1+C_2R_3-C_5R_3}}} \\ k-RP: \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}}{C_2R_1+C_2R_3-C_5R_3} + C_4R_3R_4+C_4R_3R_5+C_4R_4R_5-C_5R_3R_5}}{C_2R_1+C_2R_3-C_5R_3}} \\ wz: None \\ wz: \frac{1}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}}}
```

11.20 X-INVALID-WZ-20 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_4R_5R_6s^2 + C_3R_1R_4 + s\left(C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{C_2C_3C_6R_1R_4R_5s^2 - C_6R_4 + C_6R_5 + s\left(C_2C_6R_4R_5 + C_3C_6R_4R_5 - C_5C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_4}\sqrt{R_5}+C_3\sqrt{R_4}\sqrt{R_5}-C_5\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$

Qz: None

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.21 X-INVALID-WZ-21 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_5R_6s^2 + C_3R_1 + s\left(C_3C_5R_1R_5 + C_3C_6R_1R_6\right)}{C_2C_3C_6R_1R_5s^2 - C_6 + s\left(C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}$$

Parameters:

Q: $\frac{i\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}-C_5\sqrt{R_5}}$ wo: $\frac{i}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_2\sqrt{R_5}+C_3\sqrt{R_5}+C_4\sqrt{R_5}-C_5\sqrt{R_5}}{C_2C_3R_1\sqrt{R_5}}$

K-LP: $-\frac{C_3R_1}{C_6}$ K-HP: $\frac{C_5R_6}{C_2}$ K-BP: $\frac{C_3C_5R_1R_5 + C_3C_6R_1R_6}{C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.22 X-INVALID-WZ-22 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5C_6R_1R_4R_6s^2 + C_3C_5R_1 + s\left(C_3C_4C_5R_1R_4 + C_3C_5C_6R_1R_6\right)}{C_2C_3C_4C_6R_1R_4s^2 + C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s\left(C_2C_3C_6R_1 + C_2C_4C_6R_4 + C_3C_4C_6R_4 - C_4C_5C_6R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}\sqrt{C_2+C_3+C_4-C_5}}{C_2C_3R_1+C_2C_4R_4+C_3C_4R_4-C_4C_5R_4}$ wo: $\frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_2C_3R_1+C_2C_4R_4+C_3C_4R_4-C_4C_5R_4}{C_2C_3C_4R_1R_4}$

K-LP: $\frac{C_2C_3C_4}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_2}{C_2C_3C_6R_1+C_2C_4C_6R_4+C_3C_4C_6R_4-C_4C_5C_6R_4}$ Qz: None

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

11.23 X-INVALID-WZ-23 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_4R_5R_6s^2 + C_3R_1R_4 + s\left(C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{C_2C_3C_6R_1R_4R_5s^2 - C_6R_4 + C_6R_5 + s\left(C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5 - C_5C_6R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{-R_{4}+R_{5}}}{C_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{3}\sqrt{R_{4}}\sqrt{R_{5}}+C_{4}\sqrt{R_{4}}\sqrt{R_{5}}-C_{5}\sqrt{R_{4}}\sqrt{R_{5}}}$ wo: $\frac{\sqrt{-R_{4}+R_{5}}}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}}$ bandwidth: $\frac{C_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{3}\sqrt{R_{4}}\sqrt{R_{5}}+C_{4}\sqrt{R_{4}}\sqrt{R_{5}}-C_{5}\sqrt{R_{4}}\sqrt{R_{5}}}{C_{2}C_{3}R_{1}\sqrt{R_{4}}\sqrt{R_{5}}}$

K-LP: $\frac{C_3R_1R_4}{C_2C_3R_1\sqrt{R_5}+C_3\sqrt{R_4}}$ K-HP: $\frac{C_5R_6}{C_2}$ K-BP: $\frac{C_3C_5R_1R_5+C_3C_6R_1R_6}{C_2C_6R_5+C_3C_6R_5+C_4C_6R_5-C_5C_6R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.24 X-INVALID-WZ-24
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_4R_5R_6s^2 + C_3R_1R_4 + s\left(C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 - C_3C_6R_3R_4R_5\right) + s\left(C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_4R_5 - C_5C_6R_4R_5\right)}$$

Parameters:

$$\begin{array}{c} \text{Q:} \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} \\ \text{Wo:} \sqrt{\frac{-R_4+R_5}{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5}} \\ \text{bandwidth:} \frac{-\frac{R_4+R_5}{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5}}{\sqrt{\frac{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5} + C_2\sqrt{C_3}R_3R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5-C_5R_4R_5}} \\ \text{bandwidth:} \frac{-\frac{R_4+R_5}{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5}}{\sqrt{\frac{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5} + C_2\sqrt{C_3}R_3R_4R_5-C_3R_3R_4+C_3R_3R_5+C_3R_4R_5-C_5R_4R_5}}} \\ \text{bandwidth:} \frac{-\frac{R_4+R_5}{C_2C_3R_1R_4R_5+C_2C_3R_3R_4R_5-C_3C_5R_3R_4R_5}}{\sqrt{\frac{C_2C_3R_1R_4R_5+C_2R_3-C_5R_3}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} + C_3R_4R_5-C_3R_4R_5-C_5R_4R_5}}{\sqrt{\frac{C_2R_1+C_2R_3-C_5R_3}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} + C_3C_3R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C$$

11.25 X-INVALID-WZ-25 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_5R_6s^2 + C_3R_1 + s\left(C_3C_5R_1R_5 + C_3C_6R_1R_6\right)}{-C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_3R_5 + C_3C_4C_6R_3R_5 - C_3C_5C_6R_3R_5\right) + s\left(C_2C_6R_5 - C_3C_6R_3 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}$$

Parameters:

```
 \begin{array}{c} \text{Q:} & \frac{C_2\sqrt{C_3}R_1\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ \text{wo:} & \sqrt{-\frac{1}{C_2C_3}R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5-C_3C_5R_3R_5} \\ \text{bandwidth:} & \frac{\sqrt{-\frac{1}{C_2C_3}R_1R_5+C_2C_3R_3R_5+C_2C_3R_3R_5+C_2C_3R_3R_5+C_3C_5R_3R_5} (C_2R_5-C_3R_3+C_3R_5+C_4R_5-C_5R_5)}{C_2\sqrt{C_3}R_1\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_2\sqrt{C_3}R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_3}C_5R_3\sqrt{R_5}\sqrt{-\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} \\ \text{K-LP:} & -\frac{C_3R_1}{C_6} \\ \text{K-HP:} & \frac{C_5R_1R_6}{C_2C_4R_5-C_3C_6R_3+C_3C_6R_1R_6} \\ \text{Qz:} & \text{None} \\ \text{Wz:} & \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}} \end{array}
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11.26 X-INVALID-WZ-26 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5C_6R_1R_4R_6s^2 + C_3C_5R_1 + s\left(C_3C_4C_5R_1R_4 + C_3C_5C_6R_1R_6\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_3R_4 - C_3C_4C_5C_6R_3R_4\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_3 + C_2C_4C_6R_4 + C_3C_4C_6R_3 + C_3C_4C_6R_3 - C_4C_5C_6R_3\right)}$$

Parameters:

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

```
 Q: \frac{C_2\sqrt{C_3}\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{C_2}{C_2}R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3} + C_2\sqrt{C_3}\sqrt{C_4}R_3\sqrt{R_4}\sqrt{\frac{C_2}{C_2}R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3}{C_2C_3R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3} - \sqrt{C_3}\sqrt{C_4}C_5R_3\sqrt{R_4}\sqrt{\frac{C_2}{C_2}R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_3}\sqrt{C_4}C_5R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3} + C_2R_1+C_2R_3-C_5R_3} - C_2R_1+C_2R_3-C_
```

11.27 X-INVALID-WZ-27
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_4R_5R_6s^2 + C_3R_1R_4 + s\left(C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_3R_4R_5 + C_3C_4C_6R_3R_4R_5 - C_3C_5C_6R_3R_4R_5\right) + s\left(C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5 - C_5C_6R_4R_5\right)}$$

Parameters:

 $Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}{C_2R_4R_5-C_3R_3R_4+C_3R_3R_5+C_4R_4S-C_5R_4} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}$

 $\frac{-R_4 + R_5}{\sqrt{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 + C_3 C_5 R_3 R_4 R_5}} (C_2 R_4 R_5 - C_3 R_3 R_4 + C_3 R_3 R_5 + C_3 R_4 R_5 - C_5 R_4 R_5)}{\sqrt{C_2 C_3 R_1 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 + C_4 R_3 - C_5 R_3}}$ $\begin{array}{c} C_{2\,Y}\,C_{3\,R_{1}\,Y\,R_{4}\,V}\,R_{5}\,\sqrt{-\frac{n_{4}}{C_{2\,R_{1}}+C_{2}\,R_{3}+C_{4}\,R_{3}-C_{5}\,R_{3}}} + \frac{R_{5}}{C_{2\,R_{1}}+C_{2}\,R_{3}+C_{4}\,R_{3}} \\ \text{K-LP:} & -\frac{C_{3}R_{1}R_{4}}{C_{6}R_{4}-C_{6}\,R_{5}} \\ \text{K-HP:} & \frac{C_{5}R_{1}\,R_{6}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}\,R_{3}-C_{5}\,R_{3}} \\ \text{K-BP:} & \frac{C_{3}C_{5}R_{1}R_{4}R_{5}+C_{3}C_{6}R_{1}R_{4}R_{6}}{C_{2}C_{6}R_{4}R_{5}-C_{3}C_{6}R_{3}R_{4}+C_{3}C_{6}R_{3}R_{5}+C_{3}C_{6}R_{4}R_{5}+C_{4}C_{6}R_{4}R_{5}-C_{5}C_{6}R_{4}R_{5}} \\ \text{Qz:} & \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.28 X-INVALID-WZ-28 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s\left(C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_2C_3C_6R_1R_3R_4s^2 + C_6R_3 + C_6R_4 + s\left(C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_3+R_4}}{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}}$

bandwidth: $\frac{C_2 R_1 \sqrt{R_4} + C_2 R_3 \sqrt{R_4} + C_3 R_3 \sqrt{R_4} - C_5 R_3 \sqrt{R_4}}{C_2 C_3 R_1 R_3 \sqrt{R_4}}$

K-LP: $\frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}$ K-HP: $\frac{C_5 R_6}{C_2}$

K-BP: $\frac{C_2}{C_2C_6R_1+C_2C_6R_3+C_3C_6R_1R_6} \\ \text{Qz: None}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.29 X-INVALID-WZ-29 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_6 + C_5R_1R_4R_5R_6\right)}{C_2C_3R_1R_3R_4R_5s^2 - R_3R_4 + R_3R_5 + R_4R_5 + s\left(C_2R_1R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 - C_5R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{-R_3}R_4 + R_3R_5 + R_4R_5}{C_2R_1\sqrt{R_4}\sqrt{R_5} + C_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_3\sqrt{R_4}\sqrt{R_5} - C_5R_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_3}R_4 + R_3R_5 + R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}\sqrt{R_5} + C_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_3\sqrt{R_4}\sqrt{R_5} - C_5R_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_3\sqrt{R_4}\sqrt{R_5}}$

K-BP: $\frac{C_2}{C_2R_1R_5+C_2R_3R_5+C_3R_3R_5-C_5R_3R_5} \\ \text{Qz: None}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.30 X-INVALID-WZ-30 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_3R_6s^2 + C_5R_1 + s\left(C_3C_5R_1R_3 + C_5C_6R_1R_6\right)}{C_2C_3C_6R_1R_3s^2 + C_6 + s\left(C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$$

Parameters:

```
wo: \frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}
bandwidth: \frac{C_2R_1+C_2R_3+C_3R_3+C_4R_3-C_5R_3}{C_2C_3R_1R_3}
K-LP: \frac{C_5R_1}{C_6}

K-HP: \frac{C_5R_6}{C_2}

K-BP: \frac{C_3C_5R_1R_3 + C_5C_6R_1R_6}{C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3}

Qz: None
 Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}
```

11.31 X-INVALID-WZ-31 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_5R_6s^2 + R_1R_6 + s\left(C_3R_1R_3R_6 + C_5R_1R_5R_6\right)}{C_2C_3R_1R_3R_5s^2 - R_3 + R_5 + s\left(C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5 - C_5R_3R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{-R_3+R_5}}{C_2R_1\sqrt{R_5}+C_2R_3\sqrt{R_5}+C_3R_3\sqrt{R_5}+C_4R_3\sqrt{R_5}-C_5R_3\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_3+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1\sqrt{R_5}+C_2R_3\sqrt{R_5}+C_3R_3\sqrt{R_5}+C_4R_3\sqrt{R_5}-C_5R_3\sqrt{R_5}}{C_2C_3R_1R_3\sqrt{R_5}}$ K-LP: $-\frac{R_1R_6}{R_3-R_5}$ K-HP: $\frac{C_5R_6}{C_2}$ K-BP: $\frac{C_2}{C_2R_1R_5 + C_2R_3R_5 + C_3R_1R_5R_6}{C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5 - C_5R_3R_5}$ Qz: None Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.32 X-INVALID-WZ-32 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s\left(C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_2C_3C_6R_1R_3R_4s^2 + C_6R_3 + c_6R_4 + s\left(C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 + C_4C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_3+R_4}}{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}+C_4R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_3+R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}+C_2R_3\sqrt{R_4}+C_3R_3\sqrt{R_4}+C_4R_3\sqrt{R_4}-C_5R_3\sqrt{R_4}}{C_2C_3R_1R_3\sqrt{R_4}}$ K-LP: $\frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}$ K-HP: $\frac{C_5 R_6}{C_2}$ K-BP: $\frac{C_2}{C_2C_6R_1+C_2C_6R_3+C_3C_6R_3+C_4C_6R_3-C_5C_6R_3} \\ \text{Qz: None}$ Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.33 X-INVALID-WZ-33 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_6 + C_5R_1R_4R_5R_6\right)}{C_2C_3R_1R_3R_4R_5s^2 - R_3R_4 + R_3R_5 + R_4R_5 + s\left(C_2R_1R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 + C_4R_3R_4R_5 - C_5R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{-R_3}R_4 + R_3R_5 + R_4R_5}{C_2R_1\sqrt{R_4}\sqrt{R_5} + C_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_3\sqrt{R_4}\sqrt{R_5} + C_4R_3\sqrt{R_4}\sqrt{R_5} - C_5R_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_3}R_4 + R_3R_5 + R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1\sqrt{R_4}\sqrt{R_5} + C_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_3\sqrt{R_4}\sqrt{R_5} + C_4R_3\sqrt{R_4}\sqrt{R_5} - C_5R_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_3\sqrt{R_4}\sqrt{R_5}}$ K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: $\frac{C_5R_6}{C_2}$ K-BP: $\frac{C_3R_1R_3R_6 + C_5R_1R_5R_6}{C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5 - C_5R_3R_5}$ Oz: None

```
Wz: \frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}
```

11.34 X-INVALID-WZ-34
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_5C_6R_1R_4R_6\right)}{-C_2C_5C_6R_2R_3R_4s^2 + C_6R_3 + C_6R_4 + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

Parameters:

Q: $-\frac{i\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4-C_5R_3R_4}$ wo: $\frac{\sqrt{-R_3-R_4}}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{i\sqrt{-R_3-R_4}(C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4-C_5R_3R_4)}{C_2C_5R_2R_3R_4\sqrt{R_3+R_4}}$

K-LP: $\frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}$ K-HP: $-\frac{R_1 R_6}{R_3}$

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}$

11.35 X-INVALID-WZ-35 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^2\left(C_2C_5C_6R_1R_4R_5 - C_2C_5C_6R_2R_3R_4 + C_2C_5C_6R_2R_4R_5 + C_2C_5C_6R_2R_4R_5\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_5C_6R_3R_4 +$$

Parameters:

 $Q: \frac{\sqrt{C_2}\sqrt{C_5}R_1R_4R_5\sqrt{R_3}+R_4}{\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2}\sqrt{C_5}R_2R_3R_4\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3}+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{R_3}+R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{+\sqrt{C_2}\sqrt{C_5}R_3R_4+C_5$

wo: $\sqrt{R_3 + R_4} \sqrt{\frac{1}{C_2 C_5 R_1 R_4 R_5 - C_2 C_5 R_2 R_3 R_4 + C_2 C_5 R_2 R_3 R_5 + C_2 C_5 R_2 R_4 R_5 + C_2 C_5 R_3 R_4 R_5}$

 $\frac{\sqrt{R_3 + R_4} (C_2 R_1 R_4 + C_2 R_2 R_4 + C_2 R_3 R_4 - C_5 R_3 R_4 + C_5 R_5 R_4 + C_5 R_5 R_4 + C_5 R_5 R_5 + C_5 R_5 R_5$

K-LP: $\frac{C_5 R_1 R_4}{C_6 R_3 + C_6 R_4}$

 $\begin{array}{l} \text{K-HP:} \ \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP:} \ \frac{C_2C_5R_1R_2R_4+C_5C_6R_1R_4R_6}{C_2C_6R_2R_3+C_2C_6R_2R_4+C_2C_6R_3R_4-C_5C_6R_3R_4+C_5C_6R_3R_5+C_5C_6R_4R_5} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}$

11.36 X-INVALID-WZ-36 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_5R_1R_4R_5R_6\right)}{-C_2C_5R_2R_3R_4R_5s^2 - R_3R_4 + R_3R_5 + R_4R_5 + s\left(C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_5 + C_2R_2R_4R_5 + C_2R_3R_4R_5 - C_5R_3R_4R_5\right)}$$

Parameters:

Q: $-\frac{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_3R_4-R_3R_5-R_4R_5}}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5}$ wo: $\frac{\sqrt{R_3R_4-R_3R_5-R_4R_5}}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $-\frac{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5}{C_2C_5R_2R_3R_4R_5}$

K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: $-\frac{R_1R_6}{R_3}$

K-BP: $\frac{C_2R_1R_2R_4R_6+C_5R_1R_4R_5R_6}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}$

11.37 X-INVALID-WZ-37
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_5C_6R_1R_2R_6s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_5C_6R_1R_6\right)}{C_6 + s^2\left(C_2C_4C_6R_2R_3 - C_2C_5C_6R_2R_3\right) + s\left(C_2C_6R_1 + C_2C_6R_2 + C_2C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$$

$$\begin{array}{l} Q\colon \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}{C_2R_1+C_2R_2+C_2R_3+C_4R_3-C_5R_3}\\ \text{wo: } \sqrt{\frac{1}{C_2C_4R_2R_3-C_2C_5R_2R_3}}\\ \text{bandwidth: } \frac{(C_2R_1+C_2R_2+C_2R_3+C_4R_3-C_5R_3)\sqrt{\frac{1}{C_2C_4R_2R_3-C_2C_5R_2R_3}}}{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_1}{C_6}\\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_3-C_5R_3}\\ \text{K-BP: } \frac{C_2C_5R_1R_2+C_5C_6R_1R_6}{C_2C_6R_1+C_2C_6R_2+C_2C_6R_3+C_4C_6R_3-C_5C_6R_3}\\ \text{Qz: None} \end{array}$$

11.38 X-INVALID-WZ-38 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_5R_6s^2 + R_1R_6 + s\left(C_2R_1R_2R_6 + C_5R_1R_5R_6\right)}{-R_3 + R_5 + s^2\left(C_2C_4R_2R_3R_5 - C_2C_5R_2R_3R_5\right) + s\left(C_2R_1R_5 - C_2R_2R_3 + C_2R_2R_5 + C_2R_3R_5 + C_4R_3R_5 - C_5R_3R_5\right)}$$

Parameters:

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}$

$$\begin{array}{l} Q\colon \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_3}{C_4-C_5}} + \frac{R_5}{C_4-C_5}}{C_2R_1R_5-C_2R_2R_3+C_2R_2R_5+C_2R_3R_5+C_4R_3R_5-C_5R_3R_5} \\ \text{W0:} \ \frac{C_2R_1R_5-C_2R_2R_3+C_2R_2R_5+C_2R_3R_5+C_4R_3R_5-C_5R_3R_5}{\sqrt{C_2C_4R_2R_3R_5-C_2C_5R_2R_3R_5}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{-R_3+R_5}{C_2C_4R_2R_3R_5-C_2C_5R_2R_3R_5}}{\sqrt{C_2C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_3}{C_4-C_5}} + \frac{R_5}{C_4-C_5}} - \sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{R_3}{C_4-C_5}} + \frac{R_5}{C_4-C_5}}} \\ \text{K-LP:} \ \frac{R_1R_6}{R_3-R_5} \\ \text{K-HP:} \ \frac{C_5R_1R_6}{C_4R_3-C_5R_3} \\ \text{K-BP:} \ \frac{C_2R_1R_2R_6+C_5R_1R_5R_6}{C_2R_1R_5-C_2R_2R_3+C_2R_2R_5+C_2R_3R_5} - C_5R_3R_5} \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}} \end{array}$$

11.39 X-INVALID-WZ-39 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_2C_4R_1R_2R_4R_6s^2 + R_1R_6 + s\left(C_2R_1R_2R_6 + C_4R_1R_4R_6\right)}{-R_3 + R_5 + s^2\left(C_2C_4R_1R_4R_5 - C_2C_4R_2R_3R_4 + C_2C_4R_2R_3R_5 + C_2C_4R_2R_4R_5 + C_2C_4R_3R_4R_5\right) + s\left(C_2R_1R_5 - C_2R_2R_3 + C_2R_2R_5 + C_2R_3R_5 - C_4R_3R_4 + C_4R_3R_5 + C_4R_4R_5\right)}$$

Parameters:

$$Q: \frac{\frac{R_3}{\sqrt{C_2}\sqrt{C_4}R_1R_4R_5}\sqrt{-\frac{R_3}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5} + R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} {-\sqrt{C_2}\sqrt{C_4}R_2R_3R_4-R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \sqrt{C_2}\sqrt{C_4}R_2R_3R_5 + \frac{R_3}{R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_3}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + \frac{R_3}{R_1R_4R_5-R_2R_3R_4+$$

11.40 X-INVALID-WZ-40
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^2\left(C_2C_4C_6R_2R_3R_4 - C_2C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_4C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

$$\begin{array}{l} Q\colon \frac{\sqrt{C_2C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}\sqrt{\frac{1}{C_4-C_5}}}{C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4}\\ \text{wo: } \sqrt{R_3+R_4}\sqrt{\frac{1}{C_2C_4R_2R_3R_4-C_2C_5R_2R_3R_4}}\\ \text{bandwidth: } \frac{\sqrt{R_3+R_4}(C_2R_1R_4+C_2R_2R_3+C_2R_2R_4+C_2R_3R_4+C_4R_3R_4-C_5R_3R_4)\sqrt{\frac{1}{C_2C_4R_2R_3R_4-C_2C_5R_2R_3R_4}}}{\sqrt{C_2C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_4-C_5}}}\\ \text{K-LP: } \frac{C_5R_1R_4}{C_6R_3+C_6R_4}\\ \text{K-HP: } \frac{C_5R_1R_4}{C_4R_3-C_5R_3}\\ \text{K-BP: } \frac{C_2C_5R_1R_2R_4+C_5C_6R_1R_4R_6}{C_2C_6R_2R_4+C_2C_6R_2R_4+C_2C_6R_3R_4+C_4C_6R_3R_4-C_5C_6R_3R_4}\\ \text{Qz: None}\\ \text{Wz: } \frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}} \end{array}$$

11.41 X-INVALID-WZ-41 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_2C_5R_1R_2R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_5R_1R_4R_5R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_4R_2R_3R_4R_5 - C_2C_5R_2R_3R_4R_5\right) + s\left(C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_5 + C_2R_2R_4R_5 + C_2R_3R_4R_5 + C_4R_3R_4R_5 - C_5R_3R_4R_5\right)}$$

Parameters:

$$Q\colon \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3R_4}{C_4-C_5}} + \frac{R_3R_5}{C_4-C_5} + \frac{R_4R_5}{C_4-C_5}}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5} \\ W0\colon \frac{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5}{C_2C_4R_2R_3R_4R_5-C_2C_5R_2R_3R_4R_5} \\ \text{bandwidth:} \frac{\sqrt{\frac{-R_3R_4+R_3R_5+R_4R_5}{C_2C_4R_2R_3R_4R_5-C_2C_5R_2R_3R_4R_5}}{\sqrt{C_2C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3R_4}{C_4-C_5}}} + \frac{R_3R_5}{C_4-C_5} + \frac{R_4R_5}{C_4-C_5}}{\sqrt{C_2C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3R_4}{C_4-C_5}}}} \\ \text{K-LP:} -\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_4R_5+C_2R_3R_4R_5} \\ \text{K-HP:} \frac{C_5R_1R_6}{C_4R_3-C_5R_3} \\ \text{K-BP:} \frac{C_2R_1R_2R_4R_6+C_5R_1R_4R_5R_6}{C_2R_1R_4R_5-C_2R_2R_4R_5+C_2R_3R_4R_5-C_5R_3R_4R_5} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ \text{Vz:} \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}$$

11.42 X-INVALID-WZ-42 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_6R_1R_2R_4R_6s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5\right)}$$

$$\begin{array}{l} \mathrm{Q:} \ -\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{-R_4+R_5}}{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5} \\ \mathrm{wo:} \ \frac{\sqrt{-R_4+R_5}}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5}} \\ \mathrm{bandwidth:} \ -\frac{C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5}{C_2C_3\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5}} \\ \mathrm{K-LP:} \ -\frac{C_3R_1R_4}{C_6R_4-C_6R_5} \\ \mathrm{K-HP:} \ \frac{R_1R_2R_6}{R_1R_5+R_2R_5} \\ \mathrm{K-BP:} \ \frac{R_1R_2R_6}{C_2C_6R_2R_4-C_2C_6R_2R_5-C_2C_6R_4R_5-C_3C_6R_4R_5} \\ \mathrm{Qz:} \ \mathrm{None} \\ \mathrm{Wz:} \ \frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}} \end{array}$$

11.43 X-INVALID-WZ-43
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 - C_2C_5C_6R_2R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 - C_5C_6R_4R_5\right)}$$

$$\begin{array}{c} Q: \frac{-\sqrt{C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2-C_5R_2}} + \frac{R_5}{C_3R_1+C_3R_2-C_5R_2}}{C_2R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2-C_5R_2}}} + \frac{R_5}{C_3R_1+C_3R_2-C_5R_2}} + \sqrt{C_2C_5R_2\sqrt{R_4}\sqrt{R_5}}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2-C_5R_2}} + \frac{R_5}{C_3R_1+C_3R_2-C_5R_2}} \\ wo: \sqrt{\frac{-R_4+R_5}{C_2C_3R_2R_4R_5-C_2C_5R_2R_4R_5}} \\ bandwidth: \frac{-\frac{R_4+R_5}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5}} (C_2R_2R_4-C_2R_2R_5-C_2R_4R_5-C_3R_4R_5+C_5R_4R_5)}{\sqrt{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5-C_2C_5R_2R_4R_5}} \\ K-LP: -\frac{C_3R_1R_4}{C_6R_4-C_6R_5} \\ K-HP: \frac{C_3R_1R_4}{C_3C_5C_6R_2+C_5C_6R_2} - \frac{R_4}{C_3C_5R_1R_2R_4-C_2C_5R_2R_4R_5} (C_2R_2R_4-C_2R_5-C_2R_4R_5-C_3R_4R_5+C_5R_2+R_5)}{C_2C_6R_2R_4-C_2R_5-C_5R_2} + \frac{R_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{R_5}{C$$

11.44 X-INVALID-WZ-44 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_6R_1R_2R_6s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_6R_1R_6\right)}{-C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_4C_6R_2R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5\right)}$$

Parameters:

```
\begin{array}{l} \text{Q:} & -\frac{i\sqrt{C_2}\sqrt{R_5}\sqrt{C_3}R_1+C_3R_2+C_4R_2}{C_2R_2-C_2R_5-C_3R_5-C_4R_5} \\ \text{wo:} & \frac{i}{\sqrt{C_2C_3R_1R_5+C_2C_3R_2R_5+C_2C_4R_2R_5}} \\ \text{bandwidth:} & -\frac{C_2R_2-C_2R_5-C_3R_5-C_4R_5}{\sqrt{C_2}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_2C_3R_1R_5+C_2C_3R_2R_5+C_2C_4R_2R_5}} \\ \text{K-LP:} & -\frac{C_3R_1}{C_6} \\ \text{K-HP:} & \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5} \\ \text{K-BP:} & \frac{-C_2C_3R_1R_2-C_3C_6R_1R_6}{C_2C_6R_2-C_2C_6R_5-C_3C_6R_5-C_4C_6R_5} \\ \text{Qz:} & \text{None} \\ \text{Wz:} & \frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}} \end{array}
```

11.45 X-INVALID-WZ-45 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_5C_6R_1R_6\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_5C_6R_1R_5 + C_2C_3C_5C_6R_2R_5 + C_2C_4C_5C_6R_2R_5\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_4C_6R_2 - C_2C_5C_6R_2 + C_2C_5C_6R_5 + C_3C_5C_6R_5 + C_4C_5C_6R_5\right)}$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \, \frac{C_2C_3R_1+C_2C_3R_2+C_2C_4R_2-C_2C_5R_2+C_2C_5R_5+C_3C_5R_5+C_4C_5R_5}{\sqrt{C_2+C_3+C_4-C_5}} \\ \text{wo:} \ \, \frac{\sqrt{C_2+C_3+C_4-C_5}}{\sqrt{C_2C_3C_5R_1R_5+C_2C_3C_5R_2R_5+C_2C_4C_5R_2R_5}} \\ \text{bandwidth:} \ \, \frac{C_2C_3R_1+C_2C_3R_2R_5+C_2C_4C_5R_2R_5}{\sqrt{C_2\sqrt{C_5}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_2C_3R_5R_5+C_4C_5R_5}}} \\ \text{K-LP:} \ \, \frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6} \\ \text{K-HP:} \ \, \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5} \\ \text{K-BP:} \ \, \frac{C_3R_1R_2R_6}{C_3C_3C_6R_1+C_2C_3C_6R_2+C_2C_5C_6R_2+C_2C_5C_6R_5+C_3C_5R_5+C_4C_5R_5} \\ \text{Qz:} \ \, \text{None} \\ \text{Wz:} \ \, \frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}} \end{array}$

11.46 X-INVALID-WZ-46 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_5s^2 + C_3R_1 + s\left(C_2C_3R_1R_2 + C_3C_5R_1R_5\right)}{-C_6 + s^2\left(C_2C_3C_6R_1R_5 + C_2C_3C_6R_2R_5 + C_2C_4C_6R_2R_5 - C_2C_5C_6R_2R_5\right) + s\left(-C_2C_6R_2 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}$$

```
\mathbf{Q} \colon \frac{-\sqrt{C_2}C_3R_1\sqrt{R_5}\sqrt{-\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}-\sqrt{C_2}C_3R_2\sqrt{R_5}\sqrt{-\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}-\sqrt{C_2}C_4R_2\sqrt{R_5}\sqrt{-\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_5}\sqrt{-\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}-\frac{1}{C_2R_2-C_2R_5-C_3R_5-C_4R_5+C_5R_5}
Wo: \sqrt{-\frac{1}{C_2C_3R_1R_5+C_2C_3R_2R_5+C_2C_4R_2R_5-C_2C_5R_2R_5}}
                                                                   \sqrt{-\frac{1}{C_{2}C_{3}R_{1}R_{5}+C_{2}C_{3}R_{2}R_{5}+C_{2}C_{4}R_{2}R_{5}-C_{2}C_{5}R_{2}R_{5}}}(C_{2}R_{2}-C_{2}R_{5}-C_{3}R_{5}-C_{4}R_{5}+C_{5}R_{5})
Wz: \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}
```

11.47 X-INVALID-WZ-47 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_4C_5R_1R_4\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_2R_4 - C_2C_4C_5C_6R_2R_4\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_4C_6R_2 + C_2C_4C_6R_4 - C_2C_5C_6R_2 + C_3C_4C_6R_4 - C_4C_5C_6R_4\right)}$

Parameters:

```
Q: \frac{\sqrt{C_2C_3\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{C_2}{C_3R_1+C_3R_2-C_5R_2}} + \frac{C_3}{C_3R_1+C_3R_2-C_5R_2} + \frac{C_4}{C_3R_1+C_3R_2-C_5R_2} + \frac{C_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{C_5}{C_3R_1+C_3R_2-C_5R_2} + \frac{C_5}{C_3R_1+C_3R_2-C_5R_2} - \frac{C_5}{C_3R_1+C_3R_2-C_5R_2} 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \frac{C_2 + C_3 + C_4 - C_5}{C_2 C_3 C_4 R_1 R_4 + C_2 C_3 C_4 R_2 R_4 - C_2 C_4 C_5 R_2 R_4} (C_2 C_3 R_1 + C_2 C_3 R_2 + C_2 C_4 R_2 + C_2 C_4 R_4 - C_2 C_5 R_2 + C_3 C_4 R_4 - C_4 C_5 R_4)
  \frac{\sqrt{\frac{C_2C_3C_4R_1R_4+C_2C_3C_4R_2R_4-C_2C_4C_5R_2+C_3}{C_2C_3C_4R_1\sqrt{R_4}\sqrt{\frac{C_2}{C_3R_4+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}+\frac{C_3}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R_2}-\frac{C_5}{C_3R_1+C_3R_2-C_5R
 \begin{array}{l} \text{K-LP: } \frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6} \\ \text{K-HP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2} \\ \text{K-BP: } \frac{C_2C_3C_5R_1R_2+C_3C_4C_5R_1R_4}{C_2C_3C_6R_1+C_2C_3C_6R_2+C_2C_4C_6R_2+C_2C_5C_6R_2+C_3C_4C_6R_4-C_4C_5C_6R_4} \end{array}
```

Qz: None

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}}$

11.48 X-INVALID-WZ-48 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_6R_1R_2R_4R_6s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_4C_6R_2R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5\right)}$

Parameters:

```
K-BP: \frac{-C_2C_3R_1R_2R_4 - C_3C_6R_1R_4R_6}{C_2C_6R_2R_4 - C_2C_6R_2R_5 - C_2C_6R_4R_5 - C_3C_6R_4R_5 - C_4C_6R_4R_5} Qz: None
Wz: \frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}
```

11.49 X-INVALID-WZ-49 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5R_1R_2R_4R_5s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_5R_1R_4R_5\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 + C_2C_3C_6R_2R_4R_5 + C_2C_4C_6R_2R_4R_5 - C_2C_5C_6R_2R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_4C_6R_4R_5 - C_5C_6R_4R_5\right)}$

Parameters:

Wo: $\sqrt{\frac{-R_4+R_5}{C_2C_3R_1R_4R_5+C_2C_3R_2R_4R_5+C_2C_4R_2R_4R_5-C_2C_5R_2R_4R_5}}$ $\sqrt{\frac{-R_4 + R_5}{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_2 R_4 R_5 + C_2 C_4 R_2 R_4 R_5 - C_2 C_5 R_2 R_4 R_5}} (C_2 R_2 R_4 - C_2 R_2 R_5 - C_2 R_4 R_5 - C_3 R_4 R_5 - C_4 R_4 R_5 + C_5 R_4 R_5)$ $-\sqrt{C_2}C_3R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\frac{R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}+\sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_4R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\frac{R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3R_1+C_3R_2+C_4$ $\begin{array}{l} \text{K-HP:} \ \frac{C_3C_4R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} \\ \text{K-BP:} \ \frac{-C_2C_3R_1R_2R_4-C_3C_5R_1R_4R_5}{C_2C_6R_2R_4-C_2C_6R_2R_5-C_2C_6R_4R_5-C_3C_6R_4R_5-C_4C_6R_4R_5+C_5C_6R_4R_5} \\ \text{Qz:} \ \text{None} \end{array}$ Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}$

11.50 X-INVALID-WZ-50 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_6R_1R_2R_4R_6s^2 + C_3R_1R_4 + s\left(C_2C_3R_1R_2R_4 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_4R_5 - C_2C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_4R_5 + C_2C_3C_6R_3R_4R_5\right) + s\left(-C_2C_6R_2R_4 + C_2C_6R_2R_5 + C_2C_6R_4R_5 - C_3C_6R_3R_4 + C_3C_6R_3R_5 + C_3C_6R_4R_5\right)}$

Parameters:

 $Q: \frac{-\sqrt{C_2}\sqrt{C_3}R_1R_4R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}-\sqrt{C_2}\sqrt{C_3}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_4}{R_1R_4R$ Wo: $\sqrt{\frac{-R_4+R_5}{C_2C_3R_1R_4R_5-C_2C_3R_2R_3R_4+C_2C_3R_2R_3R_5+C_2C_3R_2R_4R_5+C_2C_3R_3R_4R_5}}$ $\frac{R_4}{-\sqrt{C_2}\sqrt{C_3}R_1R_4R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}+\sqrt{C_2}\sqrt{C_3}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_5}+\frac{R_5}{R_1R_4R_5-R_2R_3R_4+R_$

 $\begin{aligned} & \text{K-HP:} & \frac{C_6R_4 - C_6R_5}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5} \\ & \text{K-BP:} & \frac{-C_2C_3R_1R_2R_4 - C_3C_6R_1R_4R_6}{C_2C_6R_2R_4 - C_2C_6R_2R_5 - C_2C_6R_4R_5 + C_3C_6R_3R_4 - C_3C_6R_3R_5 - C_3C_6R_4R_5} \\ & \text{Qz: None} & \end{aligned}$

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}$

11.51 X-INVALID-WZ-51 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_2C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_5C_6R_1R_6\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_2C_3C_4C_6R_2R_3 - C_2C_3C_5C_6R_2R_3\right) + s\left(C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_3C_6R_3 + C_2C_4C_6R_2 - C_2C_5C_6R_2 + C_3C_4C_6R_3 - C_3C_5C_6R_3\right)}$

Parameters:

K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: $\frac{C_5R_1R_6}{C_4R_3-C_5R_3}$ $\begin{array}{l} \text{K-BP:} \ \frac{C_2C_3C_5R_1R_2 + C_3C_5C_6R_1R_6}{C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_3C_6R_3 + C_2C_4C_6R_2 - C_2C_5C_6R_2 + C_3C_4C_6R_3 - C_3C_5C_6R_3} \\ \text{Qz: None} \ . \end{array}$ Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}$

11.52 X-INVALID-WZ-52 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)$

 $H(s) = \frac{C_2C_3R_1R_2R_3R_4R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_3R_4R_5 + C_2C_3R_2R_3R_4R_5\right) + s\left(C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_5 + C_2R_2R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5+C_3R_3R_4R_5}$ wo: $\frac{\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{\sqrt{C_2C_3R_1R_3R_4R_5+C_2C_3R_2R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5+C_3R_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_2}C_3R_1R_3R_4R_5+C_2C_3R_2R_3R_4R_5}}$ K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: $\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$ K-RP: $C_2R_1R_2R_4R_6+C_2R_2R_3R_4-R_5$ K-BP: $\frac{C_2R_1R_2R_4R_6+C_3R_1R_3R_4R_6}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5+C_3R_3R_4R_5}$ Qz: None Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}}$

11.53 X-INVALID-WZ-53
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4\right)}{C_6R_3 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_3R_4 + C_2C_3C_6R_2R_3R_4 - C_2C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

$$Q: \frac{\sqrt{C_2C_3R_1\sqrt{R_3}\sqrt{R_4}\sqrt{R_3} + R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}} + \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_3} + R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}} - \sqrt{C_2C_5R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_3} + R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}} } }{ \frac{C_2R_1R_4 + C_2R_2}{C_2R_1R_4 + C_2R_2}R_3 + C_2R_2R_4 + C_2R_3R_4 + C_5R_3R_4} }{ We: \sqrt{R_3 + R_4}\sqrt{\frac{1}{C_2C_3R_1R_3R_4 + C_2C_3R_2R_3R_4 - C_2C_5R_2R_3R_4}}} \\ bandwidth: \frac{\sqrt{R_3 + R_4}(C_2R_1R_4 + C_2R_2R_3 + C_2R_2R_4 + C_2R_3R_4 + C_3R_3R_4 - C_5R_3R_4)}\sqrt{\frac{1}{C_2C_3R_1R_3R_4 + C_2C_5R_2R_3R_4}}}{ \sqrt{C_2C_3R_1\sqrt{R_3}\sqrt{R_4}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}} + \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}} - \sqrt{C_2C_5R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_3 + R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}}} \\ K-LP: \frac{C_5R_1R_4}{C_6R_3 + C_6R_4} \\ K-HP: \frac{C_3C_5R_1R_2}{C_3C_6R_1 + C_3C_6R_2 - C_5C_6R_2}}{C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4}} \\ K-BP: \frac{C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4}{C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_5C_6R_3R_4}}{C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_5C_6R_3R_4}} \\ Wz: \frac{1}{\sqrt{C_2\sqrt{C_3}\sqrt{R_3}$$

11.54 X-INVALID-WZ-54 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_2C_3R_1R_2R_3R_6s^2 + R_1R_6 + s\left(C_2R_1R_2R_6 + C_3R_1R_3R_6\right)}{-R_3 + R_5 + s^2\left(C_2C_3R_1R_3R_5 + C_2C_3R_2R_3R_5 + C_2C_4R_2R_3R_5\right) + s\left(C_2R_1R_5 - C_2R_2R_3 + C_2R_2R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5\right)}$$

Parameters:

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\begin{array}{l} \text{Q: } \frac{\sqrt{C_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-R_3+R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}}{C_2R_1R_5-C_2R_2R_3+C_2R_2R_5+C_2R_3R_5+C_3R_3R_5+C_4R_3R_5}\\ \text{wo: } \frac{\sqrt{-R_3+R_5}}{\sqrt{C_2C_3R_1R_3R_5+C_2C_3R_2R_3R_5+C_2C_4R_2R_3R_5}}\\ \text{bandwidth: } \frac{C_2R_1R_5-C_2R_2R_3+C_2R_2R_5+C_2R_3R_5+C_3R_3R_5+C_4R_3R_5}{\sqrt{C_2}\sqrt{R_3}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_2C_3R_1R_3R_5+C_2C_3R_2R_3R_5+C_2C_4R_2R_3R_5}}\\ \text{K-LP: } -\frac{R_1R_6}{R_3-R_5}\\ \text{K-HP: } \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}\\ \text{K-BP: } \frac{C_2R_1R_5-C_2R_2R_3+C_2R_3R_5+C_4R_3R_6}{C_2R_1R_2R_6+C_3R_1R_3R_6}\\ \text{Qz: None} \\ \text{Wz: } \frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}} \end{array}
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11.55 X-INVALID-WZ-55 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$I(s) = \frac{C_2C_3C_5R_1R_2R_3s^2 + C_5R_1 + s\left(C_2C_5R_1R_2 + C_3C_5R_1R_3\right)}{C_6 + s^2\left(C_2C_3C_6R_1R_3 + C_2C_3C_6R_2R_3 + C_2C_4C_6R_2R_3 - C_2C_5C_6R_2R_3\right) + s\left(C_2C_6R_1 + C_2C_6R_2 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$$

$$Q: \frac{\sqrt{C_2C_3R_1\sqrt{R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_2C_4R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} - \sqrt{C_2C_5R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} \\ \text{wo: } \sqrt{\frac{1}{C_2C_3R_1R_3+C_2C_3R_2R_3+C_2C_4R_2R_3-C_2C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_2R_1+C_2R_2+C_2R_3+C_3R_3+C_4R_3-C_5R_3)\sqrt{\frac{1}{C_2C_3R_1R_3+C_2C_3R_2R_3+C_2C_4R_2R_3-C_2C_5R_2R_3}}}{\sqrt{C_2C_3R_1\sqrt{R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}}} + \sqrt{C_2}C_3R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_2}C_3R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} \\ \text{K-LP: } \frac{C_5R_1}{C_6} \\ \text{K-HP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_3-C_5C_6R_2}} \\ \text{K-BP: } \frac{C_2C_5R_1R_2+C_3C_5R_1R_3}{C_2C_6R_1+C_2C_6R_3+C_3C_6R_3+C_4C_6R_3-C_5C_6R_3}} \\ \text{Qz: None} \\ \text{Wz: } \frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}} \\ \end{aligned}$$

11.56 X-INVALID-WZ-56
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$$

$$H(s) = \frac{C_2C_3R_1R_2R_3R_4R_6s^2 + R_1R_4R_6 + s\left(C_2R_1R_2R_4R_6 + C_3R_1R_3R_4R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_2C_3R_1R_3R_4R_5 + C_2C_3R_2R_3R_4R_5 + C_2C_4R_2R_3R_4R_5\right) + s\left(C_2R_1R_4R_5 - C_2R_2R_3R_4 + C_2R_2R_3R_5 + C_2R_2R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 + C_4R_3R_4R_5\right)}$$

Q: $\frac{\sqrt{C_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{-R_3R_4+R_3R_5+R_4R_5}}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5+C_3R_3R_4R_5+C_4R_3R_4R_5}$ wo: $\frac{\sqrt{-R_3}R_4+R_3R_5+R_4R_5}{\sqrt{C_2C_3R_1R_3R_4R_5+C_2C_3R_2R_3R_4+C_2C_4R_2R_3R_4R_5}}$ bandwidth: $\frac{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_3R_5+C_2R_2R_4R_5+C_2R_3R_4R_5+C_4R_3R_4R_5}{\sqrt{C_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_2}C_3R_1R_3R_4R_5+C_2C_3R_2R_3R_4+C_2C_4R_2R_3R_4R_5}}$ K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$ K-HP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}$ K-BP: $\frac{C_2R_1R_2R_4R_6+C_3R_1R_3R_4R_6}{C_2R_1R_4R_5-C_2R_2R_3R_4+C_2R_2R_4R_5+C_2R_3R_4R_5+C_4R_3R_4R_5}$ Qz: None $W_{Z'} = \frac{1}{-\frac{1}{2}}$

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}}$

11.57 X-INVALID-WZ-57 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5R_1R_2R_3R_4s^2 + C_5R_1R_4 + s\left(C_2C_5R_1R_2R_4 + C_3C_5R_1R_3R_4\right)}{C_6R_3 + C_6R_4 + s^2\left(C_2C_3C_6R_1R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_2C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_1R_4 + C_2C_6R_2R_3 + C_2C_6R_2R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 + C_4C_6R_3R_4 - C_5C_6R_3R_4\right)}$$

Parameters:

 $Q: \frac{\sqrt{C_2C_3R_1\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_2C_4R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} - \sqrt{C_2C_5R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}}} \\ - \sqrt{C_2C_3R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}}} - \sqrt{C_2C_5R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}}}} \\ - \sqrt{C_2C_3R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3R_4+C_4R_3R_4+C_5R_3R_4+C_5R_3R_4}}}} - \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3R_4+C_4R_3R_4+C_5R_3R_4}}}} \\ - \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3+C_4R_3+C_4R_3+C_5R_3}}}} \\ - \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3R_4+C_4R_3R_4+C_5R_3R_4}}}} \\ - \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3R_4+C_5R_3R_4}}}}} \\ - \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3R_4+C_5R_3R_4}}}}} \\ - \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3R_4+C_5R_3R_4}}}}} \\ - \sqrt{C_2C_3R_2\sqrt{R_3}\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3R_4+C_5R_3R_4}}}} \\ - \sqrt{C_2C_3R_3\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3R_4+C_5R_3R_4}}}} \\ - \sqrt{C_2C_3R_3\sqrt{R_4\sqrt{R_3+R_4}\sqrt{\frac{1}{C_3R_4+C_4R_3+C_5R_3}}}}} \\ - \sqrt{C_2C_3R_3\sqrt{$

 $\frac{\cdot}{\sqrt{R_3 + R_4}(C_2 R_1 R_4 + C_2 R_2 R_4 + C_2 R_3 R_4 + C_3 R_3 R_4 + C_4 R_3 R_4 - C_5 R_3 R_4)} \sqrt{\frac{1}{C_2 C_3 R_1 R_3 R_4 + C_2 C_3 R_2 R_3 R_4 + C_2 C_5 R_2 R_3 R_4}} \sqrt{\frac{1}{C_3 C_3 R_1 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} + \sqrt{C_2} C_3 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}} \sqrt{C_2} C_4 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}{2C_4 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}{2C_4 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}{2C_4 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}{2C_4 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}{2C_4 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}{2C_4 R_2 - C_5 R_2}}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}{2C_4 R_2 - C_5 R_2}}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_2 - C_5 R_2}}}} \sqrt{C_2} C_5 R_2 \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_3 R_4 - C_5 R_3}}}} \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_3 R_1 + C_3 R_2 + C_4 R_3 R_4 - C_5 R_3}}}} \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{C_3} R_4 \sqrt{R_3 +$ $\begin{array}{c} \text{K-LP: } \frac{C_5R_1R_4}{C_6R_3+C_6R_4} \\ \text{K-HP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2} + \sqrt{C_2C_3}R_2\sqrt{R_3}\sqrt{R_4}\sqrt{R_5} \\ \text{K-BP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} \\ \text{K-BP: } \frac{C_2C_5R_1R_2R_4+C_3C_5R_1R_3R_4}{C_2C_6R_1R_4+C_2C_6R_2R_3+C_2C_6R_2R_4+C_2C_6R_3R_4+C_3C_6R_3R_4+C_4C_6R_3R_4-C_5C_6R_3R_4} \\ \text{Qz: None} \end{array}$

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}}$

11.58 X-INVALID-WZ-58 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_4C_5C_6R_1R_2R_4R_6s^2 + C_5R_1R_2 + s\left(C_4C_5R_1R_2R_4 + C_5C_6R_1R_2R_6\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_2C_4C_6R_1R_2R_4 + C_2C_4C_6R_2R_3R_4 - C_4C_5C_6R_2R_3R_4\right) + s\left(C_2C_6R_1R_2 + C_4C_6R_2R_3 + C_4C_6R_2R_3 + C_4C_6R_2R_4 + C_4C_6R_2R_4 + C_4C_6R_2R_4\right)}$$

Parameters:

$$Q \colon \frac{C_2\sqrt{C_4}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_2\sqrt{C_4}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - \sqrt{C_4}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - C_2R_1R_2 + C_2R_2R_3 + C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3}{C_2R_1R_2 + C_2R_2R_3 + C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3}$$

wo: $\sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_2 C_4 R_1 R_2 R_4 + C_2 C_4 R_2 R_3 R_4 - C_4 C_5 R_2 R_3 R_4}}$

 $\text{bandwidth: } \frac{\sqrt{R_1 + R_2 + R_3}(C_2R_1R_2 + C_2R_2R_3 + C_4R_1R_4 + C_4R_2R_3 + C_4R_2R_4 + C_4R_3R_4 - C_5R_2R_3)\sqrt{\frac{1}{C_2C_4R_1R_2R_4 + C_2C_4R_2R_3R_4 - C_4C_5R_2R_3R_4}}}{C_2\sqrt{C_4}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_1 + R_2 + R_3}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_2\sqrt{C_4}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_1 + R_2 + R_3}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - \sqrt{C_4}C_5\sqrt{R_2}R_3\sqrt{R_4}\sqrt{R_1 + R_2 + R_3}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}}}$

 $\begin{array}{l} \text{K-LP: } \frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3} \end{array}$

K-BP: $\frac{C_2R_1+C_2R_3-C_5R_3}{C_2C_6R_1R_2+C_2C_6R_2R_3+C_4C_6R_1R_4+C_5C_6R_1R_2R_6}$ Qz: None

11.59 X-INVALID-WZ-59 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_4C_5R_1R_2R_4R_5R_6s^2 + R_1R_2R_6 + s\left(C_4R_1R_2R_4R_6 + C_5R_1R_2R_5R_6\right)}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_2C_4R_1R_2R_4R_5 + C_2C_4R_2R_3R_4R_5 - C_4C_5R_2R_3R_4R_5\right) + s\left(C_2R_1R_2R_5 + C_2R_2R_3R_5 + C_4R_2R_3R_4 + C_4R_2R_3R_5 + C_4R_2R_4R_5 + C_4R_2R_4R_5 + C_5R_2R_3R_5\right)}$

Parameters:

 $\underbrace{\frac{C_2\sqrt{C_4}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_5}{C_2R_1+C_2R_3-C_5R_3}-\frac{R_2R_3}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}-\frac{R_2R_3}{C_2R_1+C_2R_3-C_5R_3}-\frac{R_2R_3}{C_2R_1+C_2R_3-C_5R_3}-\frac{R_2R_3}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_2R_5}{C_2R_1+C_2R_3-C_5R_3}-\frac{R_2R_3}{C_2R_1+C_2R_3-C_5R_3}+\frac{R_2R_5}{C_2R_1+C_2R_3-$

 $\frac{R_{1}R_{5}-R_{2}R_{3}+R_{2}R_{5}+R_{3}R_{5}}{C_{2}C_{4}R_{1}R_{2}R_{3}+C_{2}C_{4}R_{2}R_{3}R_{4}+C_{4}R_{2}R_{3}R_{5}+C_{4}R_{2}R_{$

K-BP: $\frac{C_4R_1R_2R_4R_6+C_5R_1R_2R_5R_6}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_4R_1R_4R_5-C_4R_2R_3R_4+C_4R_2R_3R_5+C_4R_2R_4R_5+C_4R_3R_4R_5-C_5R_2R_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}}$

11.60 X-INVALID-WZ-60 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, R_4, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{C_2C_3C_6R_1R_2R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}-C_5R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2R_4+R_2R_5+R_4R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}-C_5R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_2}{C_2C_6R_2R_5+C_3C_6R_1R_2R_6} \\ \text{Qz: None} \end{array}$

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.61 X-INVALID-WZ-61 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_5R_6s^2 + C_3R_1R_2 + s\left(C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{C_2C_3C_6R_1R_2R_5s^2 - C_6R_2 + C_6R_5 + s\left(C_2C_6R_2R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5 - C_5C_6R_2R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_2\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2+R_5}}}{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}-C_5R_2\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_2+R_5}}{\sqrt{C_2\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}}}$ bandwidth: $\frac{C_2R_2\sqrt{R_5}+C_3R_1\sqrt{R_5}+C_3R_2\sqrt{R_5}+C_4R_2\sqrt{R_5}-C_5R_2\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_5}}$

K-BP: $\frac{C_2C_5R_1R_2R_5+C_3C_6R_1R_2R_6}{C_2C_6R_2R_5+C_3C_6R_1R_5+C_3C_6R_2R_5+C_4C_6R_2R_5-C_5C_6R_2R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.62 X-INVALID-WZ-62 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{C_2C_3C_6R_1R_2R_4R_5s^2 - C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s\left(C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5 + C_4C_6R_2R_4R_5 - C_5C_6R_2R_4R_5\right)}$

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Q: \frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-R_2}R_4 + R_2R_5 + R_4R_5}{C_2R_2\sqrt{R_4}\sqrt{R_5} + C_3R_1\sqrt{R_4}\sqrt{R_5} + C_3R_2\sqrt{R_4}\sqrt{R_5} + C_4R_2\sqrt{R_4}\sqrt{R_5} - C_5R_2\sqrt{R_4}\sqrt{R_5}}
                    wo: \frac{\sqrt{-R_2R_4+R_5+C_3R_1\sqrt{R_4\sqrt{R_5}}}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}}
bandwidth: \frac{C_2R_2\sqrt{R_4}\sqrt{R_5}+C_3R_1\sqrt{R_4}\sqrt{R_5}+C_3R_2\sqrt{R_4}\sqrt{R_5}+C_4R_2\sqrt{R_4}\sqrt{R_5}-C_5R_2\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}
                 K-BP: \frac{C_3C_5R_1R_2R_5+C_3C_6R_1R_2R_6}{C_2C_6R_2R_5+C_3C_6R_1R_5+C_3C_6R_2R_5+C_4C_6R_2R_5-C_5C_6R_2R_5} Qz: None
                    Wz: \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}
 11.63 X-INVALID-WZ-63 Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                         H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_3C_6R_2R_3R_4R_5 - C_3C_6R_2R_3R_4R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_3R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_3R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5 + C_3C_6R_5
           Parameters:
                     \frac{-R_2R_4+R_2R_5+R_4R_5}{\sqrt{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4R_5}}(C_2R_2R_4R_5+C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C
                    \begin{array}{l} \text{K-LP:} \ -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5} \\ \text{K-HP:} \ \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3} \end{array}
                    \text{K-BP:} \begin{array}{l} \frac{C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6}{C_2C_6R_2R_4R_5 + C_3C_6R_1R_4R_5 - C_3C_6R_2R_3R_4 + C_3C_6R_2R_3R_5 + C_3C_6R_2R_4R_5 + C_3C_6R_3R_4R_5 - C_5C_6R_2R_4R_5} \\ \text{Qz: None} \end{array} 
                      Wz: \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}
 11.64 X-INVALID-WZ-64 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                       H(s) = \frac{C_3C_5C_6R_1R_2R_5R_6s^2 + C_3R_1R_2 + s\left(C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^2\left(C_2C_3C_6R_1R_2R_5 + C_2C_3C_6R_2R_3R_5 + C_3C_4C_6R_2R_3R_5 - C_3C_5C_6R_2R_3R_5\right) + s\left(C_2C_6R_2R_5 + C_3C_6R_2R_3 + C_3C_6R_2R_3 + C_3C_6R_2R_5 + C_3C_6R_2R_5 + C_3C_6R_2R_5\right)}
           Parameters:
                      Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}{C_2R_2R_3\sqrt{R_5}\sqrt{-\frac{R_2}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{R_5}\sqrt{-\frac{R_2}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_3}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C_4\sqrt{R_2}C
                     \frac{-R_2 + R_5}{\sqrt{C_2 C_3 R_1 R_2 R_5 + C_2 C_3 R_2 R_3 + C_3 C_5 R_2 R_3 F_5}} (C_2 R_2 R_5 + C_3 R_1 R_5 - C_3 R_2 R_3 + C_3 R_2 R_5 + C_3 R_3 R_5 + C_4 R_2 R_5 - C_5 R_2 R_5)}{C_2 \sqrt{C_3} R_1 \sqrt{R_2} \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_2 \sqrt{C_3} \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_3} C_4 \sqrt{R_2} R_3 \sqrt{R_5} \sqrt{-\frac{R_2}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + \sqrt{C_
                   \begin{array}{l} \text{K-LP:} \ -\frac{C_3R_1R_2}{C_6R_2-C_6R_5} \\ \text{K-HP:} \ \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} \\ \text{K-BP:} \ \frac{C_3C_5R_1R_2R_5+C_3C_6R_1R_2R_6}{C_2C_6R_2R_5+C_3C_6R_1R_5-C_3C_6R_2R_3+C_3C_6R_2R_5+C_3C_6R_3R_5+C_4C_6R_2R_5-C_5C_6R_2R_5} \\ \text{Qz: None} \end{array} 
                     Wz: \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}
11.65 X-INVALID-WZ-65 Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)
                                                   \overline{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_2C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_2R_3R_4R_5 + C_3C_6R_2R_3R_4R_5 + C_3C_6R_2R_3R_4 + C_3C_6R_3R_4 + C_3C_6R_
         Parameters:
                      Q: \frac{C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \sqrt{C_3}C_4\sqrt{R_2}Q_4\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \sqrt{C_3}C_4\sqrt{R_2}Q_4\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \frac{R_4R_5}{C_2R_1+C_2R_
                  \frac{-R_2R_4+R_2R_5+R_4R_5}{C_2C_3R_1R_2R_4R_5+C_2C_3R_2R_3R_4+C_3C_3R_2R_3R_4+C_3C_3R_2R_3R_4+C_3R_2R_3R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_3R_2R_4R_5+C_
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Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.66 X-INVALID-WZ-66 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_2C_3C_6R_1R_2R_3R_4s^2 + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s\left(C_2C_6R_1R_2R_4 + C_2C_6R_2R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{C_2R_1R_2\sqrt{R_4}+C_2R_2R_3\sqrt{R_4}+C_3R_1R_3\sqrt{R_4}+C_3R_2R_3\sqrt{R_4}-C_5R_2R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_1R_4+R_2R_3+R_2R_4+R_3R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4}+C_2R_2R_3\sqrt{R_4}+C_3R_1R_3\sqrt{R_4}+C_3R_2R_3\sqrt{R_4}-C_5R_2R_3\sqrt{R_4}}{C_2C_3R_1R_2R_3\sqrt{R_4}}$

 $\begin{array}{c} \text{K-LP:} \ \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4} \\ \text{K-HP:} \ \frac{C_5R_6}{C_2} \end{array}$

K-BP: $\frac{C_2}{C_2C_6R_1R_2+C_2C_6R_2R_3+C_5C_6R_1R_2R_6}{Qz: \text{ None}}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.67 X-INVALID-WZ-67 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)}{C_2C_3R_1R_2R_3R_4R_5s^2 + R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s\left(C_2R_1R_2R_4R_5 + C_2R_2R_3R_4R_5 + C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 - C_5R_2R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1R_4R_5} - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{C_2R_1R_2\sqrt{R_4}\sqrt{R_5} + C_2R_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_1R_3\sqrt{R_4}\sqrt{R_5} + C_3R_2R_3\sqrt{R_4}\sqrt{R_5} - C_5R_2R_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{R_1R_4R_5} - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4}\sqrt{R_5} + C_2R_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_1R_3\sqrt{R_4}\sqrt{R_5} + C_3R_2R_3\sqrt{R_4}\sqrt{R_5} - C_5R_2R_3\sqrt{R_4}\sqrt{R_5}}{C_2C_3R_1R_2R_3\sqrt{R_4}\sqrt{R_5}}$ K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_2}{C_2R_1R_2R_5+C_2R_2R_3R_6+C_5R_1R_2R_5R_6}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_3R_1R_3R_5+C_3R_2R_3R_5-C_5R_2R_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.68 X-INVALID-WZ-68 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_6s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_5C_6R_1R_2R_6\right)}{C_2C_3C_6R_1R_2R_3s^2 + C_6R_1 + C_6R_2 + C_6R_3 + s\left(C_2C_6R_1R_2 + C_2C_6R_2R_3 + C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_4C_6R_2R_3 - C_5C_6R_2R_3\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}}{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}$ wo: $\frac{\sqrt{R_1+R_2+R_3}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $\frac{C_2R_1R_2+C_2R_2R_3+C_3R_1R_3+C_3R_2R_3+C_4R_2R_3-C_5R_2R_3}{C_2C_3R_1R_2R_3}$

K-LP: $\frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_2C_5R_1R_2R_3+C_5C_6R_1R_2R_6}{C_2C_6R_1R_2+C_2C_6R_2R_3+C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3-C_5C_6R_2R_3}$ Qz: None

11.69 X-INVALID-WZ-69
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_5R_6s^2 + R_1R_2R_6 + s\left(C_3R_1R_2R_3R_6 + C_5R_1R_2R_5R_6\right)}{C_2C_3R_1R_2R_3R_5s^2 + R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s\left(C_2R_1R_2R_5 + C_2R_2R_3R_5 + C_3R_1R_3R_5 + C_3R_2R_3R_5 + C_4R_2R_3R_5 - C_5R_2R_3R_5\right)}$$

Q: $\frac{\sqrt{C_2\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1R_5}-R_2R_3+R_2R_5+R_3R_5}}{C_2R_1R_2\sqrt{R_5}+C_2R_2R_3\sqrt{R_5}+C_3R_1R_3\sqrt{R_5}+C_3R_2R_3\sqrt{R_5}+C_4R_2R_3\sqrt{R_5}-C_5R_2R_3\sqrt{R_5}}}$ wo: $\frac{\sqrt{R_1R_5-R_2R_3+R_2R_5+R_3R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_5}+C_2R_2R_3\sqrt{R_5}+C_3R_1R_3\sqrt{R_5}+C_3R_2R_3\sqrt{R_5}+C_4R_2R_3\sqrt{R_5}-C_5R_2R_3\sqrt{R_5}}{C_2C_3R_1R_2R_3\sqrt{R_5}}$

K-LP: $\frac{R_1R_2R_6}{R_1R_5-R_2R_3+R_2R_5+R_3R_5}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_3R_1R_2R_3R_6+C_5R_1R_2R_5R_6}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_2R_3R_5-C_5R_2R_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.70 X-INVALID-WZ-70 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_2C_3C_6R_1R_2R_3R_4s^2 + C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + c\left(C_3C_6R_1R_2R_4 + C_2C_6R_2R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}{C_2R_1R_2\sqrt{R_4} + C_2R_2R_3\sqrt{R_4} + C_3R_1R_3\sqrt{R_4} + C_3R_2R_3\sqrt{R_4} + C_4R_2R_3\sqrt{R_4} - C_5R_2R_3\sqrt{R_4}}$ wo: $\frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4} + C_2R_2R_3\sqrt{R_4} + C_3R_1R_3\sqrt{R_4} + C_3R_2R_3\sqrt{R_4} + C_4R_2R_3\sqrt{R_4} - C_5R_2R_3\sqrt{R_4}}{C_2C_3R_1R_2R_3\sqrt{R_4}}$

K-LP: $\frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_3C_5R_1R_2R_3+C_5C_6R_1R_2R_6}{C_2C_6R_1R_2+C_2C_6R_2R_3+C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3-C_5C_6R_2R_3}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.71 X-INVALID-WZ-71 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)}{C_2C_3R_1R_2R_3R_4R_5s^2 + R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + s\left(C_2R_1R_2R_4R_5 + C_2R_2R_3R_4R_5 + C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 + C_4R_2R_3R_4R_5 - C_5R_2R_3R_4R_5\right)}$$

Parameters:

Q: $\frac{\sqrt{C_2\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}}\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{C_2R_1R_2\sqrt{R_4}\sqrt{R_5} + C_2R_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_1R_3\sqrt{R_4}\sqrt{R_5} + C_3R_2R_3\sqrt{R_4}\sqrt{R_5} + C_4R_2R_3\sqrt{R_4}\sqrt{R_5} - C_5R_2R_3\sqrt{R_4}\sqrt{R_5}}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}}$ wo: $\frac{\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}}$ bandwidth: $\frac{C_2R_1R_2\sqrt{R_4}\sqrt{R_5} + C_2R_2R_3\sqrt{R_4}\sqrt{R_5} + C_3R_1R_3\sqrt{R_4}\sqrt{R_5} + C_3R_2R_3\sqrt{R_4}\sqrt{R_5} + C_4R_2R_3\sqrt{R_4}\sqrt{R_5} - C_5R_2R_3\sqrt{R_4}\sqrt{R_5}}}{C_2C_3R_1R_2R_3\sqrt{R_4}\sqrt{R_5}}}$

 $\text{K-LP: } \frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5} \text{K-HP: } \frac{C_5R_6}{C_2}$

K-BP: $\frac{C_3R_1R_2R_3R_6+C_5R_1R_2R_5R_6}{C_2R_1R_2R_5+C_2R_2R_3R_5+C_3R_1R_3R_5+C_3R_2R_3R_5+C_4R_2R_3R_5-C_5R_2R_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.72 X-INVALID-WZ-72 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5C_6R_2R_4R_6s^2 + C_3C_5R_2 + s\left(C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_6\right)}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_4 - C_1C_4C_5C_6R_2R_4\right) + s\left(C_1C_3C_6R_2 + C_1C_4C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_3C_4C_6R_4\right)}$$

$$\text{Q: } \frac{\sqrt{C_1}C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}}-\sqrt{C_1}\sqrt{C_4}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_3-C_5}}}{C_1C_3R_2+C_1C_4R_2+C_1C_4R_4-C_1C_5R_2+C_3C_4R_4}$$

wo: $\sqrt{C_1 + C_3} \sqrt{\frac{1}{C_1 C_3 C_4 R_2 R_4 - C_1 C_4 C_5 R_2 R_4}}$ bandwidth: $\frac{\sqrt{C_1 + C_3}(C_1 C_3 R_2 + C_1 C_4 R_2 + C_1 C_4 R_4 - C_1 C_5 R_2 + C_3 C_4 R_4) \sqrt{\frac{1}{C_1 C_3 C_4 R_2 R_4 - C_1 C_4 C_5 R_2 R_4}}}{\sqrt{C_1} C_3 \sqrt{C_4} \sqrt{R_2} \sqrt{R_4} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 - C_5}} - \sqrt{C_1} \sqrt{C_4} C_5 \sqrt{R_2} \sqrt{R_4} \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_3 - C_5}}}$ K-LP: $\frac{C_3C_5R_2}{C_1C_6+C_3C_6}$ K-HP: $\frac{C_3C_5R_6}{C_1C_3-C_1C_5}$

K-BP: $\frac{C_3C_4C_5R_2R_4+C_3C_5C_6R_2R_6}{C_1C_3C_6R_2+C_1C_4C_6R_2+C_1C_4C_6R_4-C_1C_5C_6R_2+C_3C_4C_6R_4}$ Qz: None

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

11.73 X-INVALID-WZ-73 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_2R_4R_5R_6s^2 + C_3R_2R_6 + s\left(C_3C_4R_2R_4R_6 + C_3C_5R_2R_5R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_2R_4R_5 - C_1C_4C_5R_2R_4R_5\right) + s\left(C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 - C_1C_5R_2R_5 + C_3C_4R_4R_5\right)}$$

Parameters:

$$Q \colon \frac{\sqrt{C_1}C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_3-C_5} + \frac{C_1R_5}{C_3-C_5} + \frac{C_3R_5}{C_3-C_5}} - \sqrt{C_1}\sqrt{C_4}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_3-C_5} + \frac{C_1R_5}{C_3-C_5} + \frac{C_3R_5}{C_3-C_5}} } }{C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_5R_2R_5+C_3C_4R_4R_5} \\ \text{wo: } \sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_3C_4R_2R_4R_5-C_1C_4C_5R_2R_4R_5}} \\ \text{bandwidth: } \frac{\sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_3C_4R_2R_4R_5-C_1C_4C_5R_2R_4R_5}} (C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_4R_4R_5-C_1C_5R_2R_5+C_3C_4R_4R_5)} {\sqrt{C_1C_3\sqrt{C_4\sqrt{R_2\sqrt{R_4\sqrt{R_5}}}}}} \frac{\sqrt{C_1C_3\sqrt{C_4\sqrt{R_2\sqrt{R_4\sqrt{R_5}}}}}}{\sqrt{C_1C_3\sqrt{C_4\sqrt{R_2\sqrt{R_4\sqrt{R_5}}}}}} (C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_4R_4R_5-C_1C_5R_2R_5+C_3C_4R_4R_5)} \\ \text{bandwidth: } \frac{\sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_4C_5R_2R_4R_5-C_1C_4C_5R_2R_4+C_1}}}{\sqrt{C_1C_3\sqrt{C_4\sqrt{R_2\sqrt{R_4\sqrt{R_5}}}}}} \frac{\sqrt{C_1C_3\sqrt{C_4\sqrt{R_4\sqrt{R_5}}}}}}{\sqrt{C_1C_3\sqrt{C_4\sqrt{R_4\sqrt{R_5}}}}} \frac{\sqrt{C_1C_3R_2R_5}}{C_3-C_5} + \frac{C_3R_5}{C_3-C_5}} - \sqrt{C_1\sqrt{C_4C_5\sqrt{R_2\sqrt{R_4\sqrt{R_5}}}}} \sqrt{C_1C_3R_2R_5+C_3C_5}} \frac{C_1R_5}{C_3-C_5} + \frac{C_3R_5}{C_3-C_5}} \\ \text{K-LP: } -\frac{C_3R_2R_6}{C_1C_3-C_1R_5}} {C_1C_3R_2R_4R_6+C_3C_5R_2R_5R_6}} \\ \text{K-BP: } \frac{C_3C_5R_6}{C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_5R_2R_5+C_3C_4R_4R_5}}{C_1C_3R_2R_5-C_1C_4R_2R_4+C_1C_4R_2R_5+C_1C_5R_2R_5+C_3C_4R_4R_5} \\ \text{Qz: None} \\ \end{array}$$

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}}$

11.74 X-INVALID-WZ-74 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_3R_4R_6s^2 + C_5R_2R_4 + s\left(C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_3C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{\sqrt{C_{1}}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}-C_{5}}}}{C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{3}R_{3}R_{4}}\\ \text{Wo:} \ \sqrt{\frac{1}{C_{1}C_{3}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}\\ \text{bandwidth:} \ \frac{(C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{3}R_{3}R_{4})\sqrt{\frac{1}{C_{1}C_{3}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}}{\sqrt{C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}-C_{5}}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}-C_{5}}}}\\ \text{K-LP:} \ \frac{C_{5}R_{2}}{C_{6}}\\ \text{K-HP:} \ \frac{C_{3}C_{5}R_{6}}{C_{1}C_{3}-C_{1}C_{5}}\\ \text{K-BP:} \ \frac{C_{3}C_{5}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{4}R_{6}}{C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{4}+C_{1}C_{6}R_{3}R_{4}+C_{3}C_{6}R_{3}R_{4}}\\ \text{Qz:} \ \text{None}\\ \text{Wz:} \ \frac{1}{\sqrt{C_{3}}\sqrt{C_{6}}\sqrt{R_{3}}\sqrt{R_{6}}} \end{array}$$

11.75 X-INVALID-WZ-75 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_3R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5\right) + s\left(-C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_3R_3R_4R_5\right)}$$

$$\begin{aligned} & Q \colon \frac{-\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3-C_5}} + \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3-C_5}}}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5} \\ & \text{wo: } \sqrt{\frac{1}{C_1C_3R_2R_3-C_1C_5R_2R_3}} \\ & \text{bandwidth: } \frac{(C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5)\sqrt{\frac{1}{C_1C_3R_2R_3-C_1C_5R_2R_3}}}{-\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3-C_5}} + \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3-C_5}}} \end{aligned}$$

K-LP: $\frac{R_2R_6}{R_5}$

K-BP: $\frac{-C_3R_2R_3R_4R_6-C_5R_2R_4R_5R_6}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.76 X-INVALID-WZ-76 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_3R_6s^2 + C_5R_2 + s\left(C_3C_5R_2R_3 + C_5C_6R_2R_6\right)}{C_6 + s^2\left(C_1C_3C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3\right)}$$

Parameters:

Q:
$$\frac{\sqrt{C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} + \sqrt{C_{1}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}{C_{1}R_{2}+C_{1}R_{3}+C_{3}R_{3}}$$
wo:
$$\sqrt{\frac{1}{C_{1}C_{3}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}$$
bandwidth:
$$\frac{(C_{1}R_{2}+C_{1}R_{3}+C_{3}R_{3})\sqrt{\frac{1}{C_{1}C_{3}R_{2}R_{3}+C_{1}C_{4}R_{2}R_{3}-C_{1}C_{5}R_{2}R_{3}}}{\sqrt{C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} + \sqrt{C_{1}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}$$

K-HP: $\frac{C_{3}C_{5}R_{6}}{C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}}$ K-BP: $\frac{C_{3}C_{5}R_{2}R_{3}+C_{5}C_{6}R_{2}R_{6}}{C_{1}C_{6}R_{2}+C_{1}C_{6}R_{3}+C_{3}C_{6}R_{3}}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.77 X-INVALID-WZ-77 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_5R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_6 + C_5R_2R_5R_6\right)}{R_5 + s^2\left(C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5 - C_1C_5R_2R_3R_5\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_3R_3R_5\right)}$$

Parameters:

Q:
$$\frac{-\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_3+C_4-C_5}}-\sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_3+C_4-C_5}}+\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_2R_3-C_1R_2R_5-C_1R_3R_5-C_3R_3R_5}$$

 $\text{wo: } \sqrt{\frac{1}{C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_1R_2R_3 - C_1R_2R_5 - C_1R_3R_5 - C_3R_3R_5)\sqrt{\frac{1}{C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}}{-\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_3 + C_4 - C_5}}} - \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_3 + C_4 - C_5}}}$

K-LP: $\frac{R_2R_6}{R_5}$

 $\begin{array}{l} \text{K-HP:} \ \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5} \\ \text{K-BP:} \ \frac{C_3R_2R_3R_6-C_5R_2R_5R_6}{C_1R_2R_3-C_1R_2R_5-C_1R_3R_5-C_3R_3R_5} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.78 X-INVALID-WZ-78 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_3R_4R_6s^2 + C_5R_2R_4 + s\left(C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_3C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4\right)}$$

Parameters:

$$\text{Q: } \frac{\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3+C_4-C_5}}+\sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3+C_4-C_5}}-\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_3R_3R_4}$$

 $(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_3R_3R_4)\sqrt{\frac{1}{C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}$ bandwidth: $\frac{(C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_1C_3R_2R_3+C_1C_4R_3+C_1C_4R_3+C_$

 $\begin{array}{l} \text{K-LP: } \frac{C_5R_2}{C_6} \\ \text{K-HP: } \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5} \\ \text{K-BP: } \frac{C_3C_5R_6}{C_1C_6R_2R_3+C_1C_6R_2R_4+C_5C_6R_2R_4R_6} \\ \text{Conv. Novel 2} \end{array}$

Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.79 X-INVALID-WZ-79
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_3R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_3R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5\right) + s\left(-C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_3R_3R_4R_5\right)}$$

Parameters:

 $Q \colon \frac{-\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3+C_4-C_5}}-\sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3+C_4-C_5}}+\sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}$ bandwidth: $\frac{(C_1R_2R_3R_4 - C_1R_2R_3R_5 - C_1R_2R_4R_5 - C_1R_3R_4R_5 - C_3R_3R_4R_5)\sqrt{\frac{1}{C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}{-\sqrt{C_1}C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3 + C_4 - C_5}} - \sqrt{C_1}C_4\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3 + C_4 - C_5}} + \sqrt{C_1}C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_3 + C_4 - C_5}}$ K-LP: $\frac{R_2R_6}{R_5}$ K-HP: $\frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}$ K-BP: $\frac{-C_3R_2R_3R_4R_6-C_5R_2R_4R_5R_6}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_3R_3R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.80 X-INVALID-WZ-80 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_4R_5R_6s^2 + C_3R_6 + s\left(C_3C_4R_4R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^2\left(C_1C_2C_4R_4R_5 + C_1C_3C_4R_4R_5 - C_1C_4C_5R_4R_5 + C_2C_3C_4R_4R_5\right) + s\left(C_1C_2R_5 + C_1C_3R_5 - C_1C_4R_4 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}$$

Parameters:

$$Q: \frac{C_1^{\frac{3}{2}}C_2\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1}C_3-C_1C_5+C_2C_3}}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + C_1^{\frac{3}{2}}C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}}{C_1C_2R_5+C_1C_3R_5-C_1C_4R_4+C_1C_4R_5-C_1C_5R_5+C_2C_3} + \sqrt{C_1}C_2C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ wo: \sqrt{C_1}\sqrt{-\frac{1}{C_1C_2C_4R_4R_5+C_1C_3C_4R_4}} \\ bandwidth: \frac{\sqrt{C_1}\sqrt{-\frac{1}{C_1C_2C_4R_4R_5+C_1C_3C_4R_4}}}{C_1^{\frac{3}{2}}C_2\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} + C_1^{\frac{3}{2}}C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_2\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_2\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_2\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_2\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_3\sqrt{C_4}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}} \\ c_1^{\frac{3}{2}}C_3C_5R_6} \\ c_1^{\frac{3}{2}}C_3C_5R_6} \\ c_1^{\frac{3}{2}}C_3C_5R_6 \\ c_1^{\frac{3}{2}}C_3C_5R_6} \\ c_1^{\frac{3}{2}}C_3C_5R_6 \\ c_1^{\frac{3}{2}}C_3C_5R_6} \\ c_1^{\frac{3}{2}}C_3C_5R_6} \\ c_2^{\frac{3}{2}}C_3C_5R_6} \\ c_1^{\frac{3}{2}}C_3C_5R_6} \\ c_2^{\frac{3}{2}}C_3C_5R_6} \\ c_2^{\frac{3}{2}}C_3C_5R_$$

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}}$

11.81 X-INVALID-WZ-81 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_3C_4C_5R_3R_4R_6s^2 + C_5R_6 + s\left(C_3C_5R_3R_6 + C_4C_5R_4R_6\right)}{C_1 + C_2 + s^2\left(C_1C_2C_4R_3R_4 + C_1C_3C_4R_3R_4 - C_1C_4C_5R_3R_4 + C_2C_3C_4R_3R_4\right) + s\left(C_1C_2R_3 + C_1C_3R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_2C_3R_3 + C_2C_4R_4\right)}$$

Parameters:

$$Q: \frac{C_{1}C_{2}\sqrt{C_{4}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{C_{4}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{4}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{3}}\sqrt{C_{1}+C_{2}}\sqrt{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{2}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{3}}\sqrt{C_{1}+C_{2}}\sqrt{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{2}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{2}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{2}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{2}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{C_{1}C_{2}+C_{1}C_{2}+C_{2}C_{3}-C_{1}C_{2}+C_{2}C_{3}-C_{1}C_{2}+C_{2}C_{3}-C_{2}C_{2}+C_{2}C_{3}-C_{2}C_{2}-C_{2}C_{2}-C_{2}C_{2}-C_{2}C$$

 $\frac{\sqrt{C_1 C_2 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_1 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} - C_1 \sqrt{C_4} C_5 \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_4} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{C_1 C_2 + C_1 C_3 - C_1 C_5$

K-LP: $\frac{C_5R_6}{C_1+C_2}$ K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}$ K-BP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}$ K-BP: $\frac{C_3C_5R_3R_6+C_4C_5R_4R_6}{C_1C_2R_3+C_1C_3R_3+C_1C_4R_3+C_1C_4R_4-C_1C_5R_3+C_2C_3R_3+C_2C_4R_4}$ Qz: None

11.82 X-INVALID-WZ-82
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_2C_3C_5C_6R_2R_4R_6s^2 + C_3C_5R_4 + s\left(C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_4 - C_1C_2C_5C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}} - C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}}}{C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2C_3R_2R_4 - C_2C_5R_2R_4}} \\ & \text{bandwidth:} \ \frac{(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_2R_4 - C_2C_5R_2R_4}}}{C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}} - C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3-C_5}}} \\ & \text{K-LP:} \ \frac{C_3C_5R_4}{C_1C_6} \\ & \text{R-Constant} \end{aligned}$$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_{1}C_{3}-C_{1}C_{5}}{C_{1}C_{2}C_{6}R_{2}+C_{1}C_{2}C_{6}R_{4}+C_{1}C_{3}C_{6}R_{4}-C_{1}C_{5}C_{6}R_{4}+C_{2}C_{3}C_{6}R_{4}} \\ \text{Qz: None} \end{array}$

Wz: $\frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}$

11.83 X-INVALID-WZ-83 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_2C_3R_2R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_2R_4R_5 - C_1C_2C_5R_2R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 + C_1C_3R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{-C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3-C_5}} + \frac{R_5}{C_3-C_5}}{C_1C_2R_2R_4 - C_1C_2R_2R_5 - C_1C_2R_4R_5 - C_1C_3R_4R_5 + C_1C_5R_4R_5 - C_2C_3R_4R_5} \\ \text{Wo: } \sqrt{\frac{-R_4+R_5}{C_2C_3R_2R_4R_5 - C_2C_5R_2R_4R_5}} \\ \text{bandwidth: } \frac{\sqrt{\frac{-R_4+R_5}{C_2C_3R_2R_4R_5 - C_2C_5R_2R_4R_5}}{(C_1C_2R_2R_4 - C_1C_2R_2R_5 - C_1C_2R_4R_5 - C_1C_3R_4R_5 + C_1C_5R_4R_5 - C_2C_3R_4R_5)} \\ \text{bandwidth: } \frac{-C_1\sqrt{C_2}C_3R_2R_4R_5 - C_2C_5R_2R_4R_5}{(C_1C_2R_2R_4 - C_1C_2R_2R_5 - C_1C_2R_4R_5 - C_1C_3R_4R_5 + C_1C_5R_4R_5 - C_2C_3R_4R_5)} \\ \text{bandwidth: } \frac{-C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3-C_5}} + \frac{R_5}{C_3-C_5}}{C_1C_2R_4R_5 - C_2C_5R_2R_4R_5} \\ \text{K-LP: } -\frac{C_3R_4R_6}{C_1R_4 - C_1R_5} \\ \text{K-HP: } \frac{C_3C_5R_6}{C_1C_3 - C_1C_5} \\ \text{K-BP: } \frac{-C_2C_3R_2R_4R_6 - C_3C_5R_4R_5R_6}{C_1C_2R_2R_5 - C_1C_2R_4R_5 - C_1C_3R_4R_5 + C_1C_5R_4R_5 - C_2C_3R_4R_5} \\ \text{Qz: None} \\ \text{Wz: } \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}} \end{array}$$

11.84 X-INVALID-WZ-84 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_5R_6s^2 + C_3R_6 + s\left(C_2C_3R_2R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^2\left(C_1C_2C_3R_2R_5 + C_1C_2C_4R_2R_5 - C_1C_2C_5R_2R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}$$

$$Q \colon \frac{-C_1 \sqrt{C_2} C_3 \sqrt{R_2} \sqrt{R_5} \sqrt{-\frac{1}{C_3 + C_4 - C_5}} - C_1 \sqrt{C_2} C_4 \sqrt{R_2} \sqrt{R_5} \sqrt{-\frac{1}{C_3 + C_4 - C_5}} + C_1 \sqrt{C_2} C_5 \sqrt{R_2} \sqrt{R_5} \sqrt{-\frac{1}{C_3 + C_4 - C_5}} }{C_1 C_2 R_2 - C_1 C_2 R_5 - C_1 C_3 R_5 - C_1 C_4 R_5 + C_1 C_5 R_5 - C_2 C_3 R_5} \\ W0 \colon \sqrt{-\frac{1}{C_2 C_3 R_2 R_5 + C_2 C_4 R_2 R_5 - C_2 C_5 R_2 R_5}} \\ bandwidth \colon \frac{\sqrt{-\frac{1}{C_2 C_3 R_2 R_5 + C_2 C_4 R_2 R_5 - C_2 C_5 R_2 R_5}} (C_1 C_2 R_2 - C_1 C_2 R_5 - C_1 C_3 R_5 - C_1 C_4 R_5 + C_1 C_5 R_5 - C_2 C_3 R_5)}{-C_1 \sqrt{C_2} C_3 \sqrt{R_2} \sqrt{R_5} \sqrt{-\frac{1}{C_3 + C_4 - C_5}} - C_1 \sqrt{C_2} C_4 \sqrt{R_2} \sqrt{R_5} \sqrt{-\frac{1}{C_3 + C_4 - C_5}} + C_1 \sqrt{C_2} C_5 \sqrt{R_2} \sqrt{R_5} \sqrt{-\frac{1}{C_3 + C_4 - C_5}}} \\ K - LP \colon -\frac{C_3 R_6}{C_1 C_3 + C_1 C_4 C_1 C_5} \\ K - BP \colon \frac{C_3 C_5 R_6}{C_1 C_2 R_2 - C_1 C_2 R_5 - C_1 C_3 R_5 - C_1 C_4 R_5 + C_1 C_5 R_5 - C_2 C_3 R_5}}{C_1 C_2 R_2 - C_1 C_2 R_5 - C_1 C_3 R_5 - C_1 C_4 R_5 + C_1 C_5 R_5 - C_2 C_3 R_5} \\ Qz \colon None \\ Wz \colon \frac{1}{\sqrt{C_2} \sqrt{C_5} \sqrt{R_2} \sqrt{R_5}}$$

11.85 X-INVALID-WZ-85
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_2C_3C_4C_5R_2R_4R_6s^2 + C_3C_5R_6 + s\left(C_2C_3C_5R_2R_6 + C_3C_4C_5R_4R_6\right)}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_2R_4 - C_1C_2C_4C_5R_2R_4\right) + s\left(C_1C_2C_3R_2 + C_1C_2C_4R_4 - C_1C_2C_5R_2 + C_1C_3C_4R_4 - C_1C_4C_5R_4 + C_2C_3C_4R_4\right)}$$

$$\begin{array}{l} Q\colon \frac{\sqrt{C_1}\sqrt{C_2}C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{C_1C_2}{C_3-C_5}+\frac{C_1C_3}{C_3-C_5}+\frac{C_1C_4}{C_3-C_5}-\frac{C_1C_5}{C_3-C_5}+\frac{C_2C_3}{C_3-C_5}}{C_3-C_5}-\sqrt{C_1}\sqrt{C_2}\sqrt{C_4}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{C_1C_2}{C_3-C_5}+\frac{C_1C_3}{C_3-C_5}+\frac{C_1C_5}{C_3-C_5}+\frac{C_2C_3}{C_3-C_5}}{C_3-C_5}-\frac{C_1C_5}{C_3-C_5}+\frac{C_2C_3}{C_3-C_5}-\frac{C_1C_5}{C_3-C_5}+\frac{C_2C_3}{C_3-C_5}-\frac{C_1C_5}{C_3-C_5}+\frac{C_2C_3}{C_3-C_5}-\frac{C_1C_5}{C_3-C_5}-\frac{C_1C_5}{C_3-C_5}+\frac{C_2C_3}{C_3-C_5}-\frac{C_1C_5}{C_3-C_5}-\frac{C_1$$

11.86 X-INVALID-WZ-86 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_2C_3C_5C_6R_2R_4R_6s^2 + C_3C_5R_4 + s\left(C_2C_3C_5R_2R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_2R_4 + C_1C_2C_4C_6R_2R_4 - C_1C_2C_5C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

$$Q\colon \frac{C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3+C_4-C_5}} + C_1\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3+C_4-C_5}} - C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}}{C_1C_2R_2+C_1C_2R_4+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_2C_3R_4}$$
 wo:
$$\sqrt{\frac{1}{C_2C_3R_2R_4+C_2C_4R_2R_4-C_2C_5R_2R_4}}$$
 bandwidth:
$$\frac{(C_1C_2R_2+C_1C_2R_4+C_1C_3R_4+C_1C_4R_4-C_1C_5R_4+C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_2R_4+C_2C_4R_2R_4-C_2C_5R_2R_4}}}{C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3+C_4-C_5}} + C_1\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3+C_4-C_5}} - C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{\frac{1}{C_3+C_4-C_5}}}}$$
 K-LP:
$$\frac{C_3C_5R_4}{C_1C_6}$$
 K-HP:
$$\frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}$$
 K-BP:
$$\frac{C_2C_3C_5R_2R_4+C_3C_5C_6R_4R_6}{C_1C_2C_6R_2+C_1C_2C_6R_4+C_1C_3C_6R_4+C_1C_5C_6R_4+C_2C_3C_6R_4}$$
 Qz: None Wz:
$$\frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}$$

11.87 X-INVALID-WZ-87
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_2C_3C_5R_2R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_2C_3R_2R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_2R_4R_5 + C_1C_2C_4R_2R_4R_5 - C_1C_2C_5R_2R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

$$Q: \frac{-C_1\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3+C_4-C_5}} + \frac{R_5}{C_3+C_4-C_5} - C_1\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3+C_4-C_5}} + C_1\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3+C_4-C_5}} + \frac{R_5}{C_3+C_4-C_5}}{C_1C_2R_2R_5-C_1C_2R_4R_5-C_1C_3R_4R_5-C_1C_4R_4R_5+C_1C_5R_4R_5-C_2C_3R_4R_5} \\ Wo: \sqrt{\frac{-R_4+R_5}{C_2C_3R_2R_4R_5+C_2C_4R_2R_4R_5-C_2C_5R_2R_4R_5}} \\ bandwidth: \frac{\sqrt{\frac{-R_4+R_5}{C_2C_3R_2R_4R_5+C_2C_4R_2R_4R_5-C_2C_5R_2R_4R_5}} {\sqrt{\frac{-R_4+R_5}{C_2C_3R_2R_4R_5+C_2C_4R_2R_4R_5-C_2C_5R_2R_4R_5}} (C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_5-C_1C_3R_4R_5-C_1C_4R_4R_5+C_1C_5R_4R_5-C_2C_3R_4R_5)} \\ bandwidth: \frac{\sqrt{\frac{-R_4+R_5}{C_2C_3R_2R_4R_5+C_2C_4R_2R_4R_5-C_2C_5R_2R_4R_5}} {\sqrt{\frac{-R_4+R_5}{C_2C_3R_2R_4R_5-C_2C_3R_2R_4R_5}} (C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_5-C_1C_3R_4R_5-C_1C_4R_4R_5+C_1C_5R_4R_5-C_2C_3R_4R_5)} \\ -C_1\sqrt{\sqrt{C_2}C_3\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3+C_4-C_5}}} + \frac{R_5}{C_3+C_4-C_5}} -C_1\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_3+C_4-C_5}}} + \frac{R_5}{C_3+C_4-C_5}} \\ K-LP: -\frac{C_3R_4R_6}{C_1R_4-C_1R_5}} {C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_5-C_2C_3R_4R_5} \\ K-HP: \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}} \\ K-BP: \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}} \\ Wz: \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ Wz: \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ Wz: \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}} \\ \\ Wz: \frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_5}}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_5}\sqrt{R_5}}} \\ V=\frac{1}{\sqrt{C_2}\sqrt{C_$$

11.88 X-INVALID-WZ-88
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_2C_3C_5R_2R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_2R_3R_4 - C_1C_2C_5R_2R_3R_4\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 + C_1C_3R_3R_4 - C_1C_5R_3R_4 + C_2C_3R_3R_4\right)}$$

11.89 X-INVALID-WZ-89 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_3R_6s^2 + C_5R_6 + s\left(C_2C_5R_2R_6 + C_3C_5R_3R_6\right)}{C_1 + C_2 + s^2\left(C_1C_2C_3R_2R_3 + C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3\right) + s\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_3R_3 + C_1C_4R_3 - C_1C_5R_3 + C_2C_3R_3\right)}$$

Parameters:

$$\begin{array}{l} Q\colon \frac{\sqrt{C_{1}}\sqrt{C_{2}}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}}\sqrt{C_{2}}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}}\sqrt{C_{2}}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}\\ &\quad C_{1}C_{2}R_{2}+C_{1}C_{2}R_{3}+C_{1}C_{3}R_{3}+C_{1}C_{4}R_{3}-C_{1}C_{5}R_{3}+C_{2}C_{3}R_{3}\\ \text{wo: } \sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{1}C_{2}C_{3}R_{2}R_{3}+C_{1}C_{2}C_{4}R_{2}R_{3}-C_{1}C_{2}C_{5}R_{2}R_{3}}\\ \text{bandwidth: } \frac{\sqrt{C_{1}+C_{2}}(C_{1}C_{2}R_{2}+C_{1}C_{2}R_{3}+C_{1}C_{3}R_{3}+C_{1}C_{4}R_{3}-C_{1}C_{5}R_{3}+C_{2}C_{3}R_{3})\sqrt{\frac{1}{C_{1}C_{2}C_{3}R_{2}R_{3}+C_{1}C_{2}C_{4}R_{2}R_{3}-C_{1}C_{2}C_{5}R_{2}R_{3}}}}{\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}}\sqrt{C_{2}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}}\sqrt{C_{2}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{C_{1}+C_{2}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}}\\ \text{K-LP: } \frac{C_{5}R_{6}}{C_{1}C_{2}}\\ \text{K-HP: } \frac{C_{3}C_{5}R_{6}}{C_{1}C_{2}R_{2}+C_{1}C_{2}R_{3}+C_{1}C_{3}R_{3}+C_{1}C_{4}R_{3}-C_{1}C_{5}R_{3}+C_{2}C_{3}R_{3}}}{C_{1}C_{2}C_{5}R_{2}R_{6}+C_{3}C_{5}R_{3}R_{6}}}\\ \text{Qz: None}\\ \text{Wz: } \frac{1}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{2}}\sqrt{R_{3}}} \end{array}$$

11.90 X-INVALID-WZ-90 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_2C_3C_5R_2R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_2C_5R_2R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_3R_2R_3R_4 + C_1C_2C_4R_2R_3R_4 - C_1C_2C_5R_2R_3R_4\right) + s\left(C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_2C_3R_3R_4\right)}$$

$$\begin{array}{c} Q: \frac{\sqrt{C_1}\sqrt{C_2}C_3\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3} + C_1R_4 + C_2R_4}{\sqrt{\frac{1}{C_3} + C_4} - C_5} + \sqrt{C_1}\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3} + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_3} + C_4} - C_5}{C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 + C_1C_3R_3R_4 + C_1C_5R_3R_4 + C_2C_3R_3R_4} \\ wo: \sqrt{C_1R_3} + C_1R_4 + C_2R_4\sqrt{\frac{1}{C_1C_2C_3R_2R_3R_4} + C_1C_2C_4R_2R_3R_4 - C_1C_2C_5R_2R_3R_4}} \\ bandwidth: \frac{\sqrt{C_1R_3} + C_1R_4 + C_2R_4}{\sqrt{C_1C_2C_3R_2R_3R_4} + C_1C_2R_2R_3 + C_1C_2C_4R_2R_3R_4 + C_1C_3R_3R_4 + C_1C_5R_3R_4 + C_2C_3R_3R_4}} {\sqrt{C_1\sqrt{C_2C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3} + C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 + C_1C_5R_3R_4 + C_2C_3R_3R_4}}} \\ k-lP: \frac{C_5R_4R_6}{C_1R_3 + C_1R_4 + C_2R_4}}{C_1C_2R_2R_3 + C_1C_2R_3R_4 + C_1C_3R_3R_4 + C_1C_3R_3R_4 + C_1C_5R_3R_4 + C_2C_3R_3R_4)} {\sqrt{C_1\sqrt{C_2C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3} + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_3} + C_4C_5R_3R_4 + C_1C_5R_3R_4 + C_2C_3R_3R_4 + C_1C_5R_3R_4 + C$$

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11.91 X-INVALID-WZ-91 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
```

$$H(s) = \frac{C_3C_4C_5C_6R_2R_4R_6s^2 + C_3C_5R_2 + s\left(C_3C_4C_5R_2R_4 + C_3C_5C_6R_2R_6\right)}{C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_4C_6R_2R_4 + C_1C_3C_4C_6R_2R_4 + C_1C_4C_5C_6R_2R_4 + C_2C_3C_4C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_4C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_2C_3C_6R_2 + C_3C_4C_6R_4\right)}$$

 $\frac{C_{1}C_{2}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}C_{5}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{C_{4}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{C_{4}}\sqrt{C_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{4}C_{5}+C_{2}C_{3}}}+C_{2}C_{4}}\sqrt{C_{$

wo: $\sqrt{C_1 + C_3} \sqrt{\frac{1}{C_1 C_2 C_4 R_2 R_4 + C_1 C_3 C_4 R_2 R_4 - C_1 C_4 C_5}}$

 $\text{bandwidth: } \frac{\sqrt{C_1 + C_3}(C_1C_2R_2 + C_1C_3R_2 + C_1C_4R_4 - C_1C_5R_2 + C_2C_3R_2 + C_3C_4R_4)\sqrt{\frac{1}{C_1C_2C_4R_2R_4 + C_1C_3C_4R_2R_4 + C_1C_3C_4R_4 + C_1C_$

 $\begin{array}{l} \text{K-HP: } \frac{C_{1}C_{5}R_{6}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} \\ \text{K-BP: } \frac{C_{3}C_{5}R_{6}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}} \\ \text{Qz: None} \end{array}$

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

11.92 X-INVALID-WZ-92 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_3C_4C_5R_2R_4R_5R_6s^2 + C_3R_2R_6 + s\left(C_3C_4R_2R_4R_6 + C_3C_5R_2R_5R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_4R_2R_4R_5 + C_1C_3C_4R_2R_4R_5 + C_2C_3C_4R_2R_4R_5\right) + s\left(C_1C_2R_2R_5 + C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 - C_1C_5R_2R_5 + C_2C_3R_2R_5 + C_3C_4R_4R_5\right)}$

Parameters:

 $Q: \frac{C_1C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_1R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_1R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}$

wo: $\sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_2C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5-C_1C_4C_5R_2R_4R_5+C_2C_3C_4R_2R_4R_5}}$

 $\sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_2C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_1C_3R_2R_5+C_1C_4R_2R_5+C_1C_4R_2R_5+C_1C_4R_4R_5-C_1C_5R_2R_5+C_3C_4R_4R_5}}(C_1C_2R_2R_5+C_1C_3R_2R_5+C_1C_4R_2R_5+C_1C_4R_4R_5-C_1C_5R_2R_5+C_2C_3R_2R_5+C_3C_4R_4R_5)$ $\frac{\sqrt{C_1C_2C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_1C_3C_4R_2R_4R_5+C_1C_3C_4R_5}{C_1C_2\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_3\sqrt{C_4}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + \frac{C_1R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_1R_5}{C_1C_2+C_1C$

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}}$

11.93 X-INVALID-WZ-93 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_2R_3R_4R_6s^2 + C_5R_2R_4 + s\left(C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_4 + C_1C_6R$

Parameters:

 $\text{Q:} \ \frac{C_1C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} \\ - C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_3R_3R_4$

Wo: $\sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_3R_2R_3-C_1C_5R_2R_3+C_2C_3R_2R_3}}$

 $\text{bandwidth: } \frac{(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_3R_3R_4)\sqrt{\frac{1}{C_1C_2R_2R_3 + C_1C_3R_2R_3 - C_1C_5R_2R_3 + C_2C_3R_2R_3}}{C_1C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_1C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} - C_1C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt{R_3}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 - C_1C_5$

K-LP: $\frac{C_5 R_2}{C_6}$

Qz: None

11.94 X-INVALID-WZ-94
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, R_4, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$$

$$H(s) = \frac{C_3C_5R_2R_3R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_2R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5 + C_2C_3R_2R_3R_4R_5\right) + s\left(-C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5 + C_3R_3R_4R_5\right)}$$

$$Q: \frac{-C_1C_2\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} \\ wo: \sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_3R_2R_3-C_1C_5R_2R_3+C_2C_3R_2R_3}} \\ bandwidth: \frac{(C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5-C_3R_3R_4R_5)\sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_3R_2R_3-C_1C_5R_2R_3+C_2C_3R_2R_3}} \\ -C_1C_2\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} - C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} \\ K-LP: \frac{R_2R_6}{R_5} \\ K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} \\ -C_3R_2R_3R_4R_6-C_5R_2R_4R_5-C_3R_3R_4R_5}{C_1R_2R_4R_5-C_2R_2R_4R_5-C_3R_3R_4R_5} \\ Qz: None$$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.95 X-INVALID-WZ-95 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_2R_3R_6s^2 + C_5R_2 + s\left(C_3C_5R_2R_3 + C_5C_6R_2R_6\right)}{C_6 + s^2\left(C_1C_2C_6R_2R_3 + C_1C_3C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3 + C_2C_3C_6R_2R_3\right) + s\left(C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2 + C_3C_6R_3\right)}$$

Parameters:

```
 \begin{array}{c} Q: \frac{C_1C_2\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_3+C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} \\ wo: \sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3+C_1C_3R_2R_3
```

11.96 X-INVALID-WZ-96 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_2R_3R_5R_6s^2 + R_2R_6 + s\left(C_3R_2R_3R_6 + C_5R_2R_5R_6\right)}{R_5 + s^2\left(C_1C_2R_2R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5 - C_1C_5R_2R_3R_5 + C_2C_3R_2R_3R_5\right) + s\left(-C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_2R_2R_5 + C_3R_3R_5\right)}$$

Parameters:

$$Q: \frac{-C_{1}C_{2}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} -C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} -C_{1}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} -C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} -C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} -C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} -C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} -C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{5}\sqrt{\frac{1}{C_{2}+C_{1}C_{3}+C_$$

Qz: None Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

```
11.97 X-INVALID-WZ-97 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
```

$$H(s) = \frac{C_3C_5C_6R_2R_3R_4R_6s^2 + C_5R_2R_4 + s\left(C_3C_5R_2R_3R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_2C_6R_2R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_5C_6R_2R_3R_4 + C_2C_3C_6R_2R_3R_4\right) + s\left(C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_2C_6R_2R_4 + C_3C_6R_3R_4\right)}$$

 $\frac{C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}C_{2}\sqrt{R_{2}}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{2}\sqrt{R_{2}$

Wo: $\sqrt{\frac{1}{C_1C_2R_2R_3+C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3+C_2C_3R_2R_3}}$

 $\frac{(C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4 + C_3R_3R_4)\sqrt{\frac{1}{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_5R_2R_3 + C_2C_3R_2R_3}}{C_1C_2\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_5 + C_2C_3}} + C_1C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_5 + C_2C_3}} + C_1C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C_1C_5 + C_2C_3}} + C_2C_3\sqrt{R_2}\sqrt$

K-HP: $\frac{C_{6}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}$ K-BP: $\frac{C_{3}C_{5}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{4}+C_{5}C_{6}R_{2}R_{4}+R_{6}}{C_{1}C_{6}R_{2}R_{3}+C_{1}C_{6}R_{2}R_{4}+C_{1}C_{6}R_{3}R_{4}+C_{2}C_{6}R_{2}R_{4}+C_{3}C_{6}R_{3}R_{4}}}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.98 X-INVALID-WZ-98 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

 $H(s) = \frac{C_3C_5R_2R_3R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_3R_2R_3R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_2R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_5R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5 + C_3R_3R_4R_5\right)}$

Parameters:

 $Q: \underbrace{\frac{-C_1C_2\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{C_1R_2R_3R_4C_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}} - C_1C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} \\ - C_1R_2R_3R_4 - C_1R_2R_3R_5 - C_1R_2R_4R_5 - C_1R_2R_4R_5 - C_1R_2R_4R_5 - C_3R_3R_4R_5$

 $(C_1R_2R_3R_4 - C_1R_2R_3R_5 - C_1R_2R_4R_5 - C_1R_3R_4R_5 - C_2R_2R_4R_5 - C_3R_3R_4R_5)\sqrt{\frac{1}{C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1C_5R_2R_3 + C_2C_3R_2R_3}}$

 $\frac{\sqrt{C_1C_2\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_4\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_1C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_2}\sqrt{$

K-LP: $\frac{R_2R_6}{R_r}$

 $\begin{array}{l} \text{K-HP:} \ \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP:} \ \frac{-C_3R_2R_3R_4-C_5R_2R_4R_5R_6}{C_1R_2R_3R_4-C_1R_2R_3R_5-C_1R_2R_4R_5-C_1R_3R_4R_5-C_2R_2R_4R_5-C_3R_3R_4R_5} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.99 X-INVALID-WZ-99 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_5C_6R_1R_2R_4R_6s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_5C_6R_2R_4R_6\right)}{-C_1C_5C_6R_2R_3R_4s^2 + C_6R_4 + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4\right)}$

Parameters:

wo: $\frac{i}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{\sqrt{C_1}R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}{\sqrt{C_1}C_5R_2R_3R_4}$

K-LP: $\frac{C_5 R_2}{C_6}$ K-HP: $-\frac{R_1 R_6}{R_3}$

Qz: None

11.100 X-INVALID-WZ-100
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_4R_6s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_5C_6R_1R_4R_5 - C_1C_5C_6R_2R_3R_4 + C_1C_5C_6R_2R_4R_5 + C_1C_5C_6R_3R_4R_5\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_5C_6R_4R_5\right)}$$

 $Q: \frac{\sqrt{C_1}\sqrt{C_5}R_1R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_5}R_2R_3R_4^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_2R_3\sqrt{R_4}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_2R_3\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}}{R_5}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_4R_5}} + \sqrt{C_1}\sqrt{C_5}R_3R_4\frac{\frac{3}{2}$ wo: $\sqrt{R_4}\sqrt{\frac{1}{C_1C_5R_1R_4R_5-C_1C_5R_2R_3R_4+C_1C_5R_2R_3R_5+C_1C_5R_2R_4R_5+C_1C_5R_3R_4R_5}}$ $\sqrt{R_4}(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_5R_4R_5)\sqrt{\frac{1}{C_1C_5R_1R_4R_5 - C_1C_5R_2R_3R_4 + C_1C_5R_2R_3R_5 + C_1C_5R_2R_4R_5 + C_1C_5R_3R_4R_5}}$

bandwidth: $\frac{\sqrt{C_1\sqrt{C_5}R_1R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}{\sqrt{C_1\sqrt{C_5}R_2R_3^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1\sqrt{C_5}R_2R_3^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_2R_3^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_4R_5+R_3R_4R_5}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}}}}}+\sqrt{C_1\sqrt{C_5}R_3R_4^{\frac{3}{2}}R_5\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5+R_3R_4R_5}}}}}$

K-LP: $\frac{C_5 R_2}{C_6}$

K-HP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-BP: $\frac{C_1C_5R_1R_2R_4 + C_5C_6R_2R_4R_6}{C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_5C_6R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.101 X-INVALID-WZ-101 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_5R_2R_4R_5R_6\right)}{-C_1C_5R_2R_3R_4R_5s^2 + R_4R_5 + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5\right)}$$

Parameters:

Q: $-\frac{i\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}R_4R_5}{\sqrt{C_1}R_1R_4R_5 - \sqrt{C_1}R_2R_3R_4 + \sqrt{C_1}R_2R_3R_5 + \sqrt{C_1}R_2R_4R_5 + \sqrt{C_1}R_3R_4R_5}$ wo: $\frac{i}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}}$ bandwidth: $-\frac{\sqrt{C_1}R_1R_4R_5 - \sqrt{C_1}R_2R_3R_4 + \sqrt{C_1}R_2R_3R_5 + \sqrt{C_1}R_2R_4R_5 + \sqrt{C_1}R_3R_4R_5}{\sqrt{C_1}C_5R_2R_3R_4R_5}$

K-LP: $\frac{R_2R_6}{R_5}$ K-HP: $-\frac{R_1R_6}{R_3}$

K-BP: $\frac{C_1R_1R_2R_4R_6+C_5R_2R_4R_5R_6}{C_1R_1R_4R_5-C_1R_2R_3R_4+C_1R_2R_3R_5+C_1R_2R_4R_5+C_1R_3R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.102 X-INVALID-WZ-102 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_6s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_5C_6R_2R_6\right)}{C_6 + s^2\left(C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3\right)}$$

Parameters:

bandwidth: $\frac{\left(\sqrt{C_1}R_1 + \sqrt{C_1}R_2 + \sqrt{C_1}R_3\right)\sqrt{\frac{1}{C_1C_4R_2R_3} - C_1C_5R_2R_3}}{C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4 - C_5}} - C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{1}{C_4 - C_5}}}$

Qz: None

11.103 X-INVALID-WZ-103
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_1C_5R_1R_2R_5R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_5R_2R_5R_6\right)}{R_5 + s^2\left(C_1C_4R_2R_3R_5 - C_1C_5R_2R_3R_5\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5\right)}$$

Q: $\frac{C_4\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_1R_5-\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_5+\sqrt{C_1}R_3R_5}$ bandwidth: $\frac{\left(\sqrt{C_1}R_1R_5 - \sqrt{C_1}R_2R_3 + \sqrt{C_1}R_2R_5 + \sqrt{C_1}R_3R_5\right)\sqrt{\frac{1}{C_1C_4R_2R_3 - C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_4 - C_5}} - C_5\sqrt{R_2}\sqrt{R_3}R_5\sqrt{\frac{1}{C_4 - C_5}}}$

K-LP: $\frac{R_2R_6}{R_5}$ K-HP: $\frac{C_5R_1R_6}{C_4R_3-C_5R_3}$ K-BP: $\frac{C_1R_1R_2R_6+C_5R_2R_5R_6}{C_1R_1R_5-C_1R_2R_3+C_1R_2R_5+C_1R_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.104 X-INVALID-WZ-104 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1C_4R_1R_2R_4R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_4R_2R_4R_6\right)}{R_5 + s^2\left(C_1C_4R_1R_4R_5 - C_1C_4R_2R_3R_4 + C_1C_4R_2R_3R_5 + C_1C_4R_2R_4R_5\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_4R_4R_5\right)}$$

Parameters:

 $Q: \underbrace{\frac{\sqrt{C_1}\sqrt{C_4}R_1R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{C_1R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_2R_3R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_2R_3R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_2R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_2R_3R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_3R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_3R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_3R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_3R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt{C_4}R_3R_4R_5^{\frac{3}{2}}\sqrt{\frac{1}{R_4R_5-R_2R_3R_4+R_5R_3R_4R_5}}} + \underbrace{\sqrt{C_1}\sqrt$ wo: $\sqrt{R_5}\sqrt{\frac{1}{C_1C_4R_1R_4R_5-C_1C_4R_2R_3R_4+C_1C_4R_2R_3R_5+C_1C_4R_2R_4R_5+C_1C_4R_3R_4R_5}}$ $\frac{\sqrt{R_{5}}(C_{1}R_{1}R_{5}-C_{1}R_{2}R_{5}+C_{1}R_{3}R_{5}+C_{4}R_{4}R_{5})\sqrt{\frac{1}{C_{1}C_{4}R_{1}R_{4}R_{5}-C_{1}C_{4}R_{2}R_{3}R_{5}+C_{1}C_{4}R_$

K-HP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-BP: $\frac{C_1R_1R_2R_6 + C_4R_2R_4R_6}{C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_4R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$

11.105 X-INVALID-WZ-105 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_4R_6s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4\right)}$$

Parameters:

Q:
$$\frac{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_1R_4+\sqrt{C_1}R_2R_3+\sqrt{C_1}R_2R_4+\sqrt{C_1}R_3R_4}}$$
 wo:
$$\sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}$$

bandwidth: $\frac{\left(\sqrt{C_1}R_1R_4 + \sqrt{C_1}R_2R_3 + \sqrt{C_1}R_2R_4 + \sqrt{C_1}R_3R_4\right)\sqrt{\frac{1}{C_1C_4R_2R_3 - C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4 - C_5}} - C_5\sqrt{R_2}\sqrt{R_3}R_4\sqrt{\frac{1}{C_4 - C_5}}}$

 $C_4 \sqrt{R_2} \sqrt{R_3} R_4 \sqrt{\frac{1}{C_4 - C_5}} - C_5 \sqrt{I}$ K-LP: $\frac{C_5 R_2}{C_6}$ K-HP: $\frac{C_5 R_1 R_6}{C_4 R_3 - C_5 R_3}$ K-BP: $\frac{C_1 C_5 R_1 R_2 R_4 + C_5 C_6 R_2 R_4 R_6}{C_1 C_6 R_1 R_4 + C_1 C_6 R_2 R_3 + C_1 C_6 R_2 R_4 + C_1 C_6 R_3 R_4}$ Qz: None

11.106 X-INVALID-WZ-106
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_4R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5\right)}$$

 $\text{Q: } \frac{C_4\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}R_1R_4R_5-\sqrt{C_1}R_2R_3R_4+\sqrt{C_1}R_2R_3R_5+\sqrt{C_1}R_2R_4R_5+\sqrt{C_1}R_3R_4R_5}$ $\frac{\left(\sqrt{C_1}R_1R_4R_5-\sqrt{C_1}R_2R_3R_4+\sqrt{C_1}R_2R_3R_5+\sqrt{C_1}R_2R_4R_5+\sqrt{C_1}R_3R_4R_5\right)\sqrt{\frac{1}{C_1C_4R_2R_3-C_1C_5R_2R_3}}}{C_4\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_4-C_5}}-C_5\sqrt{R_2}\sqrt{R_3}R_4R_5\sqrt{\frac{1}{C_4-C_5}}}$ K-LP: $\frac{R_2R_6}{R_5}$ K-HP: $\frac{C_5R_1R_6}{C_4R_3-C_5R_3}$ $\begin{array}{l} \text{K-BP:} \ \frac{C_4R_3-C_5R_3}{C_1R_1R_4R_5-C_1R_2R_3R_4+C_1R_2R_3R_5+C_1R_2R_4R_5+C_1R_3R_4R_5} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.107 X-INVALID-WZ-107 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_6R_2 + C_1C_6R_4 + c_3C_6R_4 + s^2\left(C_1C_3C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_2R_4R_5\right) + s\left(C_1C_3C_6R_1R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_4R_5 + C_3C_5C_6R_4R_5\right)}$

Parameters:

wo: $\frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_3C_5R_1R_4R_5+C_1C_3C_5R_2R_4R_5}}$ bandwidth: $\frac{C_1C_3R_1R_4+C_1C_3R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{R_1+R_2}\sqrt{C_1C_3C_5R_1R_4R_5+C_1C_3C_5R_2R_4R_5}}$ K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$ K-HP: $\frac{R_1R_2R_6}{R_1R_5+R_2R_5}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6}{C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_4R_5 + C_3C_5C_6R_4R_5} \\ \text{Qz: None} \ \\ \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.108 X-INVALID-WZ-108 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_3C_6R_1R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_6R_2R_4R_6 + C_1C_6R_2R_4R_6 + C_3C_6R_4R_5R_6\right)}$

Parameters:

 $Q: \frac{\sqrt{C_{1}C_{3}\sqrt{C_{6}}R_{1}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{2}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} + \frac{C_{1}R_{4}R_{5}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}} - \sqrt{C_{1}C_{5}\sqrt{C_{6}}R_{2}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{5}}\sqrt{R_{6}}\sqrt{R_{6}}\sqrt{R_{6}}\sqrt{R_{6}}\sqrt{R_{6}}\sqrt{R_$ Wo: $\sqrt{\frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_3C_6R_1R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6-C_1C_5C_6R_2R_4R_5R_6}}$

 $\frac{-C_{1}R_{2}R_{4}+C_{1}R_{2}R_{5}+C_{1}R_{4}R_{5}+C_{3}R_{4}R_{5}}{\sqrt{C_{1}C_{3}\sqrt{C_{6}}R_{1}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}+\frac{C_{1}R_{4}R_{5}+C_{1}C_{3}R_{2}R_{4}R_{5}-C_{1}C_{5}C_{6}R_{2}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_{1}C_{5}R_{4}R_{5}-C_$

K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}$

11.109 X-INVALID-WZ-109
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_5C_6R_2R_6\right)}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_5C_6R_1R_5 + C_1C_3C_5C_6R_2R_5 + C_1C_4C_5C_6R_2R_5\right) + s\left(C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_5C_6R_2 + C_1C_5C_6R_5 + C_3C_5C_6R_5\right)}$$

wo: $\frac{\sqrt{C_1 + C_3}}{\sqrt{C_1 C_3 C_5 R_1 R_5 + C_1 C_3 C_5 R_2 R_5 + C_1 C_4 C_5 R_2 R_5}}$ bandwidth: $\frac{C_1 C_3 R_1 + C_1 C_3 R_2 + C_1 C_4 R_2 - C_1 C_5 R_2 + C_1 C_5 R_5 + C_3 C_5 R_5}{\sqrt{C_1 \sqrt{C_5} \sqrt{R_5} \sqrt{C_3 R_1 + C_3 R_2 + C_4 R_2} \sqrt{C_1 C_3 C_5 R_1 R_5 + C_1 C_3 C_5 R_2 R_5 + C_1 C_4 C_5 R_2 R_5}}$ K-LP: $\frac{C_3 C_5 R_2}{C_1 C_6 + C_3 C_6}$ K-HP: $\frac{C_3 R_1 R_2 R_6}{C_3 R_1 R_5 + C_3 R_2 R_5 + C_4 R_2 R_5}$ K-BP: $\frac{C_1 C_3 C_5 R_1 R_2 + C_3 C_5 R_1 R_2 + C_3 C_5 C_6 R_2 R_6}{C_1 C_3 C_6 R_1 + C_1 C_3 C_6 R_2 + C_1 C_5 C_6 R_2 + C_1 C_5 C_6 R_5 + C_3 C_5 C_6 R_5}$ Qz: None Way: 1 ____

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.110 X-INVALID-WZ-110 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_5R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_5R_2R_5R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_6R_1R_5R_6 + C_1C_3C_6R_2R_5R_6 + C_1C_4C_6R_2R_5R_6 - C_1C_5C_6R_2R_5R_6\right) + s\left(C_1C_3R_1R_5 + C_1C_3R_2R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5 - C_1C_6R_2R_6 + C_3C_6R_5R_6\right)}$$

Parameters:

 $Q: \frac{\sqrt{C_1C_3\sqrt{C_6}R_1\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_1R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \sqrt{C_1}C_3\sqrt{C_6}R_2\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_1}C_4\sqrt{C_6}R_2\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_1}C_4\sqrt{C_6}R_2\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}} + \sqrt{C_1}C_4\sqrt{C_6}R_2\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_1}C$

 $\frac{-c_{1}R_{2}+c_{1}R_{5}+c_{3}R_{5}}{\sqrt{c_{1}c_{3}c_{6}R_{1}R_{5}R_{6}+c_{1}c_{3}c_{6}R_{2}R_{5}R_{6}}}(c_{1}c_{3}R_{1}R_{5}+c_{1}c_{3}R_{2}R_{5}+c_{1}c_{4}R_{2}R_{5}-c_{1}c_{5}R_{2}R_{5}+c_{1}c_{4}R_{2}R_{5}-c_{1}c_{5}R_{2}R_{5}+c_{1}c_{4}R_{2}R_{5}-c_{1}c_{5}R_{2}R_{5}+c_{1}c_{4}R_{2}-c_{5}R_{5}}}{\sqrt{c_{1}c_{3}\sqrt{c_{6}}R_{1}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\frac{c_{1}R_{5}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}c_{3}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1}}c_{4}\sqrt{c_{6}}R_{2}\sqrt{R_{5}}\sqrt{R_{6}}\sqrt{-\frac{c_{1}R_{2}}{c_{3}R_{1}+c_{3}R_{2}+c_{4}R_{2}-c_{5}R_{2}}}+\sqrt{c_{1$

 $\begin{array}{c} & \begin{array}{c} & \begin{array}{c} & C_1R_5 \\ C_3R_2R_6 \end{array} \\ \text{K-LP:} & -\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5} \\ \text{K-HP:} & \frac{C_3C_3R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} \\ \text{K-HP:} & \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} \\ \text{K-BP:} & \frac{C_1C_3R_1R_2R_6+C_3C_5R_2R_5R_6}{C_1C_3R_1R_2R_5-C_1C_5R_2R_5-C_1C_6R_2R_6+C_1C_6R_5R_6+C_3C_6R_5R_6} \\ \text{Qz:} & \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.111 X-INVALID-WZ-111 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

$$H(s) = \frac{C_1C_3C_4R_1R_2R_4R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_1R_4R_5 + C_1C_3C_4R_2R_4R_5\right) + s\left(C_1C_3R_1R_5 + C_1C_3R_2R_5 - C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 + C_3C_4R_4R_5\right)}$$

Parameters:

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$

11.112 X-INVALID-WZ-112 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_4C_5R_1R_2R_4s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_4C_5R_2R_4\right)}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_1R_4 + C_1C_3C_4C_6R_2R_4 - C_1C_4C_5C_6R_2R_4\right) + s\left(C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_4C_6R_2 + C_1C_4C_6R_4 - C_1C_5C_6R_2 + C_3C_4C_6R_4\right)}$$

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\text{Q:} \ \frac{\sqrt{C_{1}C_{3}\sqrt{C_{4}}R_{1}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}+\sqrt{C_{1}}C_{3}\sqrt{C_{4}}R_{2}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}-\sqrt{C_{1}}\sqrt{C_{4}}C_{5}R_{2}\sqrt{R_{4}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}-C_{5}R_{2}}}}{C_{1}C_{3}R_{1}+C_{1}C_{3}R_{2}+C_{1}C_{4}R_{2}+C_{1}C_{4}R_{4}-C_{1}C_{5}R_{2}+C_{3}C_{4}R_{4}}
                    wo: \sqrt{C_1 + C_3}\sqrt{\frac{1}{C_1C_3C_4R_1R_4 + C_1C_3C_4R_2R_4 - C_1C_4C_5R_2R_4}}
\sqrt{C_1 + C_3}(C_1C_3R_1 + C_1C_3R_2 + C_1C_4R_2 + C_1C_4R_4 - C_1C_5R_2 + C_3C_4R_4)\sqrt{\frac{1}{C_1C_3C_4R_1R_4 + C_1C_3C_4R_2R_4 - C_1C_4C_5R_2R_4}}
                      \begin{array}{l} \text{K-LP: } \frac{C_3C_5R_2}{C_1C_6+C_3C_6} \\ \text{K-HP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2} \\ \text{K-BP: } \frac{C_3C_5R_1R_2}{C_1C_3C_6R_1+C_1C_3C_6R_2+C_1C_4C_6R_2+C_1C_4C_6R_4-C_1C_5C_6R_2+C_3C_4C_6R_4} \\ \text{Qz: None} \end{array} 
                     Wz: \frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}
11.113 X-INVALID-WZ-113 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                    H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_5C_6R_1R_4R_5 + C_1C_3C_5C_6R_2R_4R_5\right) + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_4R_5 + C_1C_5C_6R_4R_
          Parameters:
              \begin{array}{l} \text{Q:} \ \frac{\sqrt{C_1\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{C_3R_1+C_3R_2+C_4R_2}}}{C_1C_3R_1R_4+C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_5+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5} \\ \text{wo:} \ \frac{\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1C_3C_5R_1R_4R_5+C_1C_3C_5R_2R_4+C_1C_5R_2R_4+C_1}}\\ \text{bandwidth:} \ \frac{C_1C_3R_1R_4+C_1C_3R_2R_4+C_1C_4R_2R_4-C_1C_5R_2R_4+C_1C_5R_2R_5+C_1C_5R_4R_5+C_3C_5R_4R_5}{\sqrt{C_1\sqrt{C_5}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1+C_3R_2+C_4R_2}\sqrt{C_1C_3C_5R_1R_4R_5+C_1C_3C_5R_2R_4}}}\\ \text{K-LP:} \ \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}}{C_3R_1R_2R_6}\\ \text{K-HP:} \ \frac{C_3R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}\\ \text{K-RP:} \ \frac{C_3C_5R_1R_2R_6}{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}\\ \text{C}_1C_3C_5R_1R_2R_4+C_3C_5R_4R_5} \end{array}
                     \text{K-BP: } \frac{C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6}{C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 + C_1C_5C_6R_2R_4 + C_1C_5C_6R_2R_5 + C_1C_5C_6R_4R_5 + C_3C_5C_6R_4R_5} 
                        Qz: None
                      Wz: \frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}
11.114 X-INVALID-WZ-114 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_6}{C_6 R_6 s + 1}\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_3C_6R_1R_4R_5R_6 + C_1C_3C_6R_2R_4R_5R_6 - C_1C_5C_6R_2R_4R_5R_6\right) + s\left(C_1C_3R_1R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_5R_2R_4R_5 - C_1C_6R_2R_4R_5 + C_1C_6R_4R_5 + C_1C_6R_4R_5R_5 + C_1C_6R_5R_5R_5 
        Parameters:
                     Q: \frac{\sqrt{C_1C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}\sqrt{-\frac{C_1R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_2R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}{+\sqrt{C_1C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}\sqrt{-\frac{C_1R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_1C_3\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}\sqrt{-\frac{C_1R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}\sqrt{-\frac{C_1R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}}\sqrt{-\frac{C_1R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \sqrt{C_1C_4\sqrt{C_6}R_2\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \sqrt{\frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_3C_6R_1R_4R_5R_6+C_1C_3C_6R_2R_4R_5R_6+C_1C_5C_6R_2R_4R_5R_6}}(C_1C_3R_1R_4R_5+C_1C_3R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_2R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1C_4R_5+C_1
                     \frac{\sqrt{C_1C_3\sqrt{C_6}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{R_6}\sqrt{-\frac{C_1R_2R_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}+\frac{C_1R_4R_5}{C_3R_1+C_3R_2+C_
                 K-LP: -\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}
K-HP: \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}
                   \begin{array}{l} \text{K-BP:} \ \frac{C_{1}C_{3}R_{1}R_{2}R_{4}R_{6} + C_{3}C_{5}R_{2}R_{4}R_{5}R_{6}}{C_{1}C_{3}R_{1}R_{4}R_{5} + C_{1}C_{3}R_{2}R_{4}R_{5} + C_{1}C_{5}R_{2}R_{4}R_{5} - C_{1}C_{5}R_{2}R_{4}R_{5} - C_{1}C_{6}R_{2}R_{4}R_{6} + C_{1}C_{6}R_{2}R_{5}R_{6} + C_{1}C_{6}R_{4}R_{5}R_{6} + C_{3}C_{6}R_{4}R_{5}R_{6}} \\ \text{Qz: None} \ \\ \end{array} 
                     Wz: \frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}
11.115 X-INVALID-WZ-115 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                            H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{-C_1C_3C_5C_6R_2R_3R_4s^2 + C_1C_6R_4 + C_3C_6R_4 + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_4 + C_1C_5C_6R_4 + C_1C_3C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_6R_4 + C_1C_5C_
        Parameters:
```

Q: $-\frac{i\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}}{\sqrt{C_1}C_3R_1R_4+\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4-\sqrt{C_1}C_5R_2R_4}}$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4}$

bandwidth: $\frac{i\sqrt{-C_1R_2-C_1R_4-C_3R_4}\left(\sqrt{C_1}C_3R_1R_4+\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4-\sqrt{C_1}C_5R_2R_4\right)}{2}$

 $\sqrt{C_1}C_3C_5R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}$

```
K-BP: \frac{C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6}{C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 - C_1C_5C_6R_2R_4}Qz: None
```

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.116 X-INVALID-WZ-116 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)$

 $H(s) = \frac{1}{C_{1}C_{6}R_{2} + C_{1}C_{6}R_{4} + C_{3}C_{6}R_{4} + s^{2}\left(C_{1}C_{3}C_{5}C_{6}R_{1}R_{4}R_{5} - C_{1}C_{3}C_{5}C_{6}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{5}C_{6}R_{2}R_{3}R_{5} + C_{1}C_{3}C_{5}C_{6}R_{2}R_{4}R_{5} + C_{1}C_{3}C_{5}C_{6}R_{2}R_{4}R_{5} + C_{1}C_{3}C_{5}C_{6}R_{2}R_{4} + C_{1}C_{3}C_{6}R_{2}R_{4} + C_{1}C_{3}C_$

Parameters:

 $Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_1R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4+C_1C_3R_4+C_1C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \sqrt{C_1}\sqrt{C$

wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_3C_5R_1R_4R_5 - C_1C_3C_5R_2R_3R_4 + C_1C_3C_5R_2R_3R_5 + C_1C_3C_5R_2R_4R_5 + C_1C_3C_5R_3R_4R_5}$

 $\begin{array}{l} \text{K-LP:} \quad \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4} \\ \text{K-HP:} \quad \frac{R_1R_2R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} -\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}R_2R_3R_4 \\ \text{K-HP:} \quad \frac{C_3C_5R_2R_4}{R_1R_2R_4+C_3C_6R_4} \\ \text{K-HP:} \quad \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP:} \quad \frac{C_1C_3C_5R_1R_2R_4+C_3C_5C_6R_2R_4R_6}{C_1C_3C_6R_2R_4+C_1C_3C_6R_2R_4+C_1C_5C_6R_2R_4+C_1C_5C_6R_2R_5+C_1C_5C_6R_4R_5+C_3C_5C_6R_4R_5} \\ \text{Qz:} \quad \text{None} \\ \text{When } & 1 \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.117 X-INVALID-WZ-117 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{-C_1C_3C_5R_2R_3R_4R_5s^2 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + c_3R_4R_5 + s\left(C_1C_3R_1R_4R_5 - C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_2R_4R_5\right)}$

Parameters:

Q: $-\frac{\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{C_1}R_2R_4 - C_1R_2R_5 - C_1R_4R_5 - C_3R_4R_5}{\sqrt{C_1}C_3R_1R_4R_5 - \sqrt{C_1}C_3R_2R_3R_4 + \sqrt{C_1}C_3R_2R_3R_5 + \sqrt{C_1}C_3R_2R_4R_5 + \sqrt{C_1}C_3R_3R_4R_5 - \sqrt{C_1}C_5R_2R_4R_5}$ wo: $\frac{\sqrt{C_1R_2R_4 - C_1R_2R_5 - C_1R_4R_5 - C_3R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $-\frac{\sqrt{C_1C_3R_1R_4R_5 - \sqrt{C_1}C_3R_2R_3R_4 + \sqrt{C_1}C_3R_2R_3R_5 + \sqrt{C_1}C_3R_2R_4R_5 + \sqrt{C_1}C_3R_3R_4R_5 - \sqrt{C_1}C_5R_2R_4R_5}}{\sqrt{C_1}C_3C_5R_2R_3R_4R_5}$

K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: $-\frac{R_1R_6}{R_3}$

K-BP: $\frac{C_1C_3R_1R_2R_4R_6+C_3C_5R_2R_4R_5R_6}{C_1C_3R_1R_4R_5-C_1C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_3R_4R_5-C_1C_5R_2R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.118 X-INVALID-WZ-118 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_5C_6R_2R_6\right)}{C_1C_6 + C_3C_6 + s^2\left(C_1C_3C_4C_6R_2R_3 - C_1C_3C_5C_6R_2R_3\right) + s\left(C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2\right)}$

Parameters:

Q: $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_1+\sqrt{C_1}C_3R_2+\sqrt{C_1}C_3R_3+\sqrt{C_1}C_4R_2-\sqrt{C_1}C_5R_2}$

wo: $\sqrt{C_1 + C_3} \sqrt{\frac{1}{C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}}$ bandwidth: $\frac{\sqrt{C_1 + C_3} \left(\sqrt{C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}\right)}{\sqrt{C_3 C_4 \sqrt{R_2} \sqrt{R_3} \sqrt{C_1 + C_3}} - \sqrt{C_3 C_4 \sqrt{R_2} \sqrt{R_3} \sqrt{C_1 + C_3}}\right) \sqrt{\frac{1}{C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}}}$

 $\text{K-BP:} \frac{C_1C_3C_5R_1R_2 + C_3C_5C_6R_2R_6}{C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2}$

Qz: None

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11.119 X-INVALID-WZ-119 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
```

$$H(s) = \frac{C_1C_3C_5R_1R_2R_5R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_5R_2R_5R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_2R_3R_5 - C_1C_3C_5R_2R_3R_5\right) + s\left(C_1C_3R_1R_5 - C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_3R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5\right)}$$

Q: $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_4-C_5}+\frac{C_1R_5}{C_4-C_5}+\frac{C_3R_5}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_4-C_5}+\frac{C_1R_5}{C_4-C_5}+\frac{C_3R_5}{C_4-C_5}}}{\sqrt{C_1}C_3R_1R_5-\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_5+\sqrt{C_1}C_3R_3R_5+\sqrt{C_1}C_4R_2R_5-\sqrt{C_1}C_5R_2R_5}}$ $\text{bandwidth: } \frac{\sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_3C_4R_2R_3R_5-C_1C_3C_5R_2R_3R_5}} \left(\sqrt{C_1}C_3R_1R_5-\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_5+\sqrt{C_1}C_3R_3R_5+\sqrt{C_1}C_4R_2R_5-\sqrt{C_1}C_5R_2R_5\right)}{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_4-C_5}+\frac{C_1R_5}{C_4-C_5}+\frac{C_3R_5}{C_4-C_5}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{-\frac{C_1R_2}{C_4-C_5}+\frac{C_3R_5}{C_4-C_5}}}$ K-BP: $\frac{C_1C_3R_1R_2R_6+C_3C_5R_2R_5R_6}{C_1C_3R_1R_5-C_1C_3R_2R_3+C_1C_3R_2R_5+C_1C_3R_3R_5+C_1C_4R_2R_5-C_1C_5R_2R_5}{Qz: None}$ Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.120 X-INVALID-WZ-120 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_3C_4R_1R_2R_4R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_4R_2R_4R_6\right)}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_3C_4R_1R_4R_5 - C_1C_3C_4R_2R_3R_4 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_4R_2R_4R_5\right) + s\left(C_1C_3R_1R_5 - C_1C_3R_2R_5 + C_1C_3R_2R_5 + C_1C_3R_2R_5 + C_1C_4R_2R_4 + C_1C_4R_2R_5 + C_1C_4R_4R_5 + C_3C_4R_4R_5\right)}$

Parameters:

 $O: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{C_4}R_1R_4R_5\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{\sqrt{C_1}\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - \sqrt{C_1}\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5}} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_5} + \frac{C_1R_5}{R_1R_4R_5-R_$ $\frac{\text{bandwidth:}}{\sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_1R_4R_5\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_2R_3R_4\sqrt{-\frac{C_1R_2}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}} + \sqrt{C_1\sqrt{C_3}\sqrt{C_4}R_3R_4+R_2R_3R_5+R_3R_4R_5}}} - \sqrt{C_1\sqrt$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$

11.121 X-INVALID-WZ-121 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_3C_4C_6R_2R_3R_4 - C_1C_3C_5C_6R_2R_3R_4\right) + s\left(C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4\right)}$

Parameters:

 $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_3R_1R_4+\sqrt{C_1}C_3R_2R_3+\sqrt{C_1}C_3R_2R_4+\sqrt{C_1}C_3R_3R_4+\sqrt{C_1}C_4R_2R_4-\sqrt{C_1}C_5R_2R_4}$ wo: $\sqrt{C_1R_2 + C_1R_4 + C_3R_4}\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}$ bandwidth: $\frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \left(\sqrt{C_1}C_3R_1R_4 + \sqrt{C_1}C_3R_2R_3 + \sqrt{C_1}C_3R_2R_4 + \sqrt{C_1}C_3R_3R_4 + \sqrt{C_1}C_4R_2R_4 - \sqrt{C_1}C_5R_2R_4\right)\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}}{\sqrt{\frac{1}{C_1C_3C_4R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}}$ $\frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_2}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_2}}-\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2+C_1R_4+C_3R_4}\sqrt{\frac{1}{C_4-C_2}}$ $\begin{array}{l} \text{K-LP: } \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_3-C_5R_3} \end{array}$ $\text{K-BP: } \frac{C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6}{C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4} \\ \text{Qz: None}$ Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.122 X-INVALID-WZ-122
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_3C_4R_2R_3R_4R_5 - C_1C_3C_5R_2R_3R_4R_5\right) + s\left(C_1C_3R_1R_4R_5 - C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_3R_2R_4R_5 - C_1C_3R_2R_4R_5\right)}$$

```
Q \colon \frac{\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_4-C_5}} + \frac{C_1R_4R_5}{C_4-C_5} + \frac{C_3R_4R_5}{C_4-C_5}}{C_4-C_5} - \sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_4-C_5}} + \frac{C_1R_4R_5}{C_4-C_5} + \frac{C_3R_4R_5}{C_4-C_5}}{\frac{C_4-C_5}{C_4-C_5}}} \\ \text{wo:} \quad \frac{\sqrt{C_1}C_3R_1R_4R_5 - \sqrt{C_1}C_3R_2R_3R_4 + \sqrt{C_1}C_3R_2R_3R_5 + \sqrt{C_1}C_3R_2R_4R_5 + \sqrt{C_1}C_3R_3R_4R_5 - \sqrt{C_1}C_3R_2R_4R_5}}{\sqrt{C_1C_3C_4R_2R_5}+C_1R_4R_5 + C_1R_4R_5 + C_3R_4R_5}} \\ \text{bandwidth:} \quad \frac{\sqrt{-\frac{C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5}{C_1C_3C_5R_2R_3R_4R_5}}(\sqrt{C_1}C_3R_1R_4R_5 - \sqrt{C_1}C_3R_2R_3R_4 + \sqrt{C_1}C_3R_2R_3R_5 + \sqrt{C_1}C_3R_2R_4R_5 + \sqrt{C_1}C_
```

11.123 X-INVALID-WZ-123 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1C_3R_1R_2R_3R_4R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6\right)}{R_4R_5 + s^2\left(C_1C_3R_1R_3R_4R_5 + C_1C_3R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_3R_3R_4R_5\right)}$$

Parameters:

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Q: \frac{\sqrt{C_1}\sqrt{C_3}\sqrt{R_3}R_4R_5\sqrt{R_1+R_2}}{C_1R_1R_4R_5-C_1R_2R_3R_4+C_1R_2R_3R_5+C_1R_2R_4R_5+C_1R_3R_4R_5+C_3R_3R_4R_5} wo: \frac{1}{\sqrt{C_1C_3R_1R_3+C_1C_3R_2R_3}} bandwidth: \frac{C_1R_1R_4R_5-C_1R_2R_3R_4+C_1R_2R_3R_5+C_1R_2R_4R_5+C_1R_3R_4R_5+C_3R_3R_4R_5}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_3}R_4R_5\sqrt{R_1+R_2}\sqrt{C_1C_3R_1R_3+C_1C_3R_2R_3}} K-LP: \frac{R_2R_6}{R_5} K-HP: \frac{R_1R_2R_6}{R_1R_5+R_2R_5} K-BP: \frac{C_1R_1R_2R_4R_6+C_3R_2R_3R_4R_6}{C_1R_1R_4R_5-C_1R_2R_3R_4+C_1R_2R_3R_5+C_1R_2R_4R_6} Qz: None Wz: \frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_3}\sqrt{R_1}\sqrt{R_3}}
```

11.124 X-INVALID-WZ-124 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4\right)}{C_6R_4 + s^2\left(C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4\right)}$$

$$Q \colon \frac{\sqrt{C_1}C_3R_1\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}} + \sqrt{C_1}C_3R_2\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}} - \sqrt{C_1}C_5R_2\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}} }{C_1R_1R_4+C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_3R_3R_4} \\ \text{wo: } \sqrt{\frac{1}{C_1C_3R_1R_3+C_1C_3R_2R_3-C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_1R_1R_4+C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_3R_3R_4)\sqrt{\frac{1}{C_1C_3R_1R_3+C_1C_3R_2R_3-C_1C_5R_2R_3}}}{\sqrt{C_1}C_3R_1\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}} + \sqrt{C_1}C_3R_2\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}} - \sqrt{C_1}C_5R_2\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}} } \\ \text{K-LP: } \frac{C_5R_2}{C_6} \\ \text{K-HP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2}}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2} \\ \text{K-BP: } \frac{C_1C_5R_1R_2R_4+C_1C_6R_2R_4+C_1C_6R_3R_4+C_3C_6R_3R_4}{C_1C_6R_2R_4+C_1C_6R_3R_4+C_3C_6R_3R_4}} \\ \text{Wz: } \frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}} \\ \\ \text{Wz: } \frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}} \\ \end{aligned}$$

11.125 X-INVALID-WZ-125
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_1C_3R_1R_2R_3R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_3R_2R_3R_6\right)}{R_5 + s^2\left(C_1C_3R_1R_3R_5 + C_1C_3R_2R_3R_5 + C_1C_4R_2R_3R_5\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_3R_3R_5\right)}$$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}$

11.126 X-INVALID-WZ-126 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_3s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_3C_5R_2R_3\right)}{C_6 + s^2\left(C_1C_3C_6R_1R_3 + C_1C_3C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_3C_6R_3\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_{1}C_{3}R_{1}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}} + \sqrt{C_{1}C_{3}R_{2}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}} + \sqrt{C_{1}C_{4}R_{2}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}C_{5}R_{2}\sqrt{R_{3}}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}} - C_{1}R_{1}+C_{1}R_{2}+C_{1}R_{3}+C_{3}R_{3}}}{C_{1}R_{1}+C_{1}R_{2}+C_{1}R_{3}+C_{3}R_{3}}$$

 $\frac{(C_1R_1 + C_1R_2 + C_1R_3 + C_3R_3)\sqrt{\frac{1}{C_1C_3R_1R_3 + C_1C_3R_2R_3 + C_1C_5R_2R_3}}}{\sqrt{C_1C_3R_1\sqrt{R_3}}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_1}C_3R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_1}C_4R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1}C_5R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1}C_5R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_1}C_3R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} + \sqrt{C_1}C_3R_2\sqrt{R_3}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} + \sqrt{C_1}C_3R_2\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} + \sqrt{C_1}C_3R_2\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} + \sqrt{C_1}C_3R_2\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}}$

K-HP: $\frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2}$ K-BP: $\frac{C_1C_5R_1R_2+C_3C_5R_2R_3}{C_1C_6R_1+C_1C_6R_2+C_1C_6R_3+C_3C_6R_3}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}$

11.127 X-INVALID-WZ-127 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

$$H(s) = \frac{C_1C_3R_1R_2R_3R_4R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6\right)}{R_4R_5 + s^2\left(C_1C_3R_1R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_3R_3R_4R_5\right)}$$

Parameters:

K-LP: $\frac{R_2 R_6}{R_5}$

K-HP: $\frac{C_3R_1R_2R_6}{C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5}$ K-BP: $\frac{C_1R_1R_2R_4R_6 + C_3R_2R_3R_4R_6}{C_1R_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}$

11.128 X-INVALID-WZ-128 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_2R_3R_4s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_3C_5R_2R_3R_4\right)}{C_6R_4 + s^2\left(C_1C_3C_6R_1R_3R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_3C_6R_3R_4\right)}$$

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\text{Q:} \frac{\sqrt{C_{1}}C_{3}R_{1}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}} + \sqrt{C_{1}}C_{3}R_{2}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}} + \sqrt{C_{1}}C_{4}R_{2}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}} - \sqrt{C_{1}}C_{5}R_{2}\sqrt{R_{3}}R_{4}\sqrt{\frac{1}{C_{3}R_{1}+C_{3}R_{2}+C_{4}R_{2}-C_{5}R_{2}}} - C_{1}R_{1}R_{4}+C_{1}R_{2}R_{3}+C_{1}R_{2}R_{4}+C_{1}R_{3}R_{4}+C_{1}R_{3}R_{4}+C_{3}R_{3}R_{4}
             Wo: \sqrt{\frac{1}{C_1C_3R_1R_3+C_1C_3R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}}
              \text{bandwidth: } \frac{(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_3R_3R_4)\sqrt{\frac{1}{C_1C_3R_1R_3 + C_1C_3R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2}R_3}}{\sqrt{C_1C_3R_1\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + \sqrt{C_1}C_4R_2\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}} + \sqrt{C_1}C_4R_2\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} - \sqrt{C_1}C_5R_2\sqrt{R_3}R_4\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}}}} 
           K-HP: \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2+C_4C_6R_2-C_5C_6R_2} K-BP: \frac{C_1C_5R_1R_2R_4+C_3C_5R_2R_3R_4}{C_1C_6R_1R_4+C_1C_6R_2R_3+C_1C_6R_2R_4+C_1C_6R_3R_4+C_3C_6R_3R_4} Qz: None
             Wz: \frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}
11.129 X-INVALID-WZ-129 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                                                                       H(s) = \frac{C_1C_4C_5R_1R_4R_6s^2 + C_5R_6 + s\left(C_1C_5R_1R_6 + C_4C_5R_4R_6\right)}{C_1 + C_2 + s^2\left(C_1C_2C_4R_1R_4 + C_1C_2C_4R_3R_4 - C_1C_4C_5R_3R_4\right) + s\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_4R_3 + C_1C_4R_4 - C_1C_5R_3 + C_2C_4R_4\right)}
     Parameters:
              Q: \frac{\sqrt{C_1C_2\sqrt{C_4}R_1\sqrt{R_4}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} + \sqrt{C_1C_2\sqrt{C_4}R_3\sqrt{R_4}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} - \sqrt{C_1\sqrt{C_4}C_5R_3\sqrt{R_4}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}} - C_1C_2R_1+C_1C_2R_3+C_1C_4R_4-C_1C_5R_3+C_2C_4R_4}
             \text{wo: } \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 C_4 R_1 R_4 + C_1 C_2 C_4 R_3 R_4 - C_1 C_4 C_5 R_3 R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1 + C_2} \left(C_1 C_2 R_1 + C_1 C_2 R_3 + C_1 C_4 R_3 + C_1 C_4 R_4 - C_1 C_5 R_3 + C_2 C_4 R_4\right) \sqrt{\frac{1}{C_1 C_2 C_4 R_1 R_4 + C_1 C_2 C_4 R_3 R_4 - C_1 C_4 C_5 R_3 R_4}}}{\sqrt{C_1 C_2} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \sqrt{C_1 C_2} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_1} \sqrt{C_4 C_5 R_3} \sqrt{R_4} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} \\ - \sqrt{C_1 C_2} \sqrt{\frac{1}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - \sqrt{C_1} \sqrt{C_2 C_4 R_3 C_5 R_3} - \sqrt{C_1} \sqrt{C_2 C_4 R_3 C_5 R_3} \\ - \sqrt{C_1 C_2} \sqrt{C_1 C_2} \sqrt{C_1 C_2} \sqrt{C_1 C_2} \sqrt{C_1 C_2} \sqrt{C_1 C_2} \sqrt{C_2 R_1 + C_2 R_3 - C_5 R_3} \\ - \sqrt{C_1 C_2} \sqrt{C_
          K-LP: \frac{C_5R_6}{C_1+C_2}

K-HP: \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}

K-BP: \frac{C_1C_5R_1R_6+C_4C_5R_4R_6}{C_1C_2R_1+C_1C_2R_3+C_1C_4R_3+C_1C_4R_4-C_1C_5R_3+C_2C_4R_4}

Qz: None
             Wz: \frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}
11.130 X-INVALID-WZ-130 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                          H(s) = \frac{C_1C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_2C_3C_6R_1R_4s^2 + C_1C_6 + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}
       Parameters:
              Qz: None
             Wz: \frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}
```

11.131 X-INVALID-WZ-131 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_3C_5R_4R_5R_6\right)}{C_1C_2C_3R_1R_4R_5s^2 - C_1R_4 + C_1R_5 + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$

Parameters:

Q: $\frac{C_{1}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{-R_{4}+R_{5}}}{C_{1}C_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}-C_{1}C_{5}\sqrt{R_{4}}\sqrt{R_{5}}+C_{2}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}}$ wo: $\frac{\sqrt{-R_{4}+R_{5}}}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}}$ bandwidth: $\frac{C_{1}C_{2}\sqrt{R_{4}}\sqrt{R_{5}}+C_{1}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}-C_{1}C_{5}\sqrt{R_{4}}\sqrt{R_{5}}+C_{2}C_{3}\sqrt{R_{4}}\sqrt{R_{5}}}{C_{1}C_{2}C_{3}R_{1}\sqrt{R_{4}}\sqrt{R_{5}}}$ K-LP: $-\frac{C_{3}R_{4}R_{6}}{C_{1}R_{4}-C_{1}R_{5}}$

K-HP: $\frac{C_5R_6}{C_2}$ K-BP: $\frac{C_1C_3R_1R_6+C_3C_5R_5R_6}{C_1C_2R_5+C_1C_3R_5-C_1C_5R_5+C_2C_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.132 X-INVALID-WZ-132 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_5R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_3C_5R_5R_6\right)}{C_1C_2C_3R_1R_5s^2 - C_1 + s\left(C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}$$

Parameters:

Q: $\frac{iC_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}}{C_1C_2\sqrt{R_5} + C_1C_3\sqrt{R_5} + C_1C_4\sqrt{R_5} - C_1C_5\sqrt{R_5} + C_2C_3\sqrt{R_5}}$

wo: $\frac{i}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_5}}$ bandwidth: $\frac{C_1C_2\sqrt{R_5}+C_1C_3\sqrt{R_5}+C_1C_4\sqrt{R_5}-C_1C_5\sqrt{R_5}+C_2C_3\sqrt{R_5}}{C_1C_2C_3R_1\sqrt{R_5}}$

K-LP: $-\frac{C_3R_6}{C_1}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_2}{C_1C_2R_5+C_1C_3R_1R_6+C_3C_5R_5R_6} \\ \text{Qz: None}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.133 X-INVALID-WZ-133 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_3C_4C_5R_4R_6\right)}{C_1C_2C_3C_4R_1R_4s^2 + C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s\left(C_1C_2C_3R_1 + C_1C_2C_4R_4 + C_1C_3C_4R_4 - C_1C_4C_5R_4 + C_2C_3C_4R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{C_1C_2C_3R_1+C_1C_2C_4R_4+C_1C_3C_4R_4-C_1C_4C_5R_4+C_2C_3C_4R_4}$ wo: $\frac{\sqrt{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$ bandwidth: $\frac{C_1C_2C_3R_1+C_1C_2C_4R_4+C_1C_3C_4R_4-C_1C_4C_5R_4+C_2C_3C_4R_4}{C_1C_2C_3C_4R_1R_4}$ K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_1 C_3 C_5 R_1 R_6 + C_3 C_4 C_5 R_4 R_6}{C_1 C_2 C_3 R_1 + C_1 C_2 C_4 R_4 + C_1 C_3 C_4 R_4 - C_1 C_4 C_5 R_4 + C_2 C_3 C_4 R_4}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$

11.134 X-INVALID-WZ-134 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_2C_3C_6R_1R_4s^2 + C_1C_6 + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

Q: $\frac{C_{1}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}}{C_{1}C_{2}\sqrt{R_{4}}+C_{1}C_{3}\sqrt{R_{4}}+C_{1}C_{4}\sqrt{R_{4}}-C_{1}C_{5}\sqrt{R_{4}}+C_{2}C_{3}\sqrt{R_{4}}}$ wo: $\frac{1}{\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{4}}}$ bandwidth: $\frac{C_{1}C_{2}\sqrt{R_{4}}+C_{1}C_{3}\sqrt{R_{4}}+C_{1}C_{4}\sqrt{R_{4}}-C_{1}C_{5}\sqrt{R_{4}}+C_{2}C_{3}\sqrt{R_{4}}}{C_{1}C_{2}C_{3}R_{1}\sqrt{R_{4}}}$

K-LP: $\frac{C_3C_5R_4}{C_1C_6}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_{12}}{C_{1}C_{2}C_{6}+C_{1}C_{3}C_{5}R_{1}+C_{3}C_{5}C_{6}R_{6}}$ Qz: None

11.135 X-INVALID-WZ-135
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_3C_5R_4R_5R_6\right)}{C_1C_2C_3R_1R_4R_5s^2 - C_1R_4 + C_1R_5 + s\left(C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

Q: $\frac{C_1\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{-R_4+R_5}}{C_1C_2\sqrt{R_4}\sqrt{R_5}+C_1C_3\sqrt{R_4}\sqrt{R_5}+C_1C_4\sqrt{R_4}\sqrt{R_5}-C_1C_5\sqrt{R_4}\sqrt{R_5}+C_2C_3\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-R_4+R_5}}{\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_1C_2\sqrt{R_4}\sqrt{R_5}+C_1C_3\sqrt{R_4}\sqrt{R_5}+C_1C_4\sqrt{R_4}\sqrt{R_5}-C_1C_5\sqrt{R_4}\sqrt{R_5}+C_2C_3\sqrt{R_4}\sqrt{R_5}}{C_1C_2C_3R_1\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_4R_6}{C_1R_4-C_1R_5}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_1C_3R_1R_6+C_3C_5R_5R_6}{C_1C_2R_5+C_1C_3R_5+C_1C_4R_5-C_1C_5R_5+C_2C_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.136 X-INVALID-WZ-136 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_3R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_3 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

 $Q: \frac{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{C_1C_2R_4+C_1C_3R_4+C_1C_5R_4+C_2C_3R_4}$

 $\text{wo: } \sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}} \\ \text{bandwidth: } \frac{(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 - C_3C_5R_3R_4}}}{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}}} \\$

 $\begin{array}{l} \text{K-LP: } \frac{C_3C_5R_4}{C_1C_6} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3} \\ \text{K-BP: } \frac{C_1C_3C_5R_1R_4+C_3C_5C_6R_4R_6}{C_1C_2C_6R_4+C_1C_3C_6R_3+C_1C_3C_6R_4-C_1C_5C_6R_4+C_2C_3C_6R_4} \\ \text{Qz: None} \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.137 X-INVALID-WZ-137 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_3R_3R_4R_5 - C_1C_3C_5R_3R_4R_5\right) + s\left(C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

Parameters:

 $Q: \underbrace{\frac{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} + \frac{R_5}{C_2R_1+C_2R_3-C$

wo: $\sqrt{\frac{-R_4 + R_5}{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 - C_3 C_5 R_3 R_4 R_5}}$

 $\begin{array}{l} & \frac{-R_4 + R_5}{\sqrt{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 - C_3 C_5 R_3 R_4 R_5}} (C_1 C_2 R_4 R_5 - C_1 C_3 R_3 R_4 + C_1 C_3 R_3 R_5 + C_1 C_3 R_4 R_5 - C_1 C_5 R_4 R_5 + C_2 C_3 R_4 R_5) \\ & \frac{-R_4 + R_5}{C_1 C_2 \sqrt{C_3} R_1 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + C_1 C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 - C_5 R_3}}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 - C_5 R_3}}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 - C_5 R_3}}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 - C_5 R_3}}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} - C_1 \sqrt{C_3} C_5 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_3 - C_5 R_3}}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3}} + \frac{R_5}{C_2 R_1 + C_2 R_3 - C_5 R_3} + \frac{R_5}{C_2 R_1$

 $\begin{aligned} & \text{K-LP:} & -\frac{C_3R_4R_6}{C_1R_4-C_1R_5} \\ & \text{K-HP:} & \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3} \\ & \text{K-BP:} & \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3} \\ & \text{K-BP:} & \frac{C_1C_3R_1R_4R_6+C_3C_5R_4R_5R_6}{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5-C_1C_5R_4R_5+C_2C_3R_4R_5} \end{aligned}$

11.138 X-INVALID-WZ-138
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_5R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_3C_5R_5R_6\right)}{-C_1 + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_3R_3R_5 + C_1C_3C_4R_3R_5 - C_1C_3C_5R_3R_5\right) + s\left(C_1C_2R_5 - C_1C_3R_3 + C_1C_3R_5 + C_1C_4R_5 - C_1C_5R_5 + C_2C_3R_5\right)}$$

 $\frac{C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+C_{1}C_{2}\sqrt{C_{3}}R_{3}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+C_{1}\sqrt{C_{3}}C_{4}R_{3}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}R_{3}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+C_{1}C_{2}R_{3}+C_{1}C$ Wo: $\sqrt{-\frac{1}{C_2C_3R_1R_5+C_2C_3R_3R_5+C_3C_4R_3R_5-C_3C_5R_3R_5}}$ K-HP: $\frac{C_1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}$ K-BP: $\frac{C_1C_3R_1R_6+C_3C_5R_5R_6}{C_1C_2R_5-C_1C_3R_3+C_1C_3R_5+C_1C_4R_5-C_1C_5R_5+C_2C_3R_5}$ Qz: None Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.139 X-INVALID-WZ-139 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_3C_4C_5R_1R_4R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_3C_4C_5R_4R_6\right)}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_1R_4 + C_1C_2C_3C_4R_3R_4 - C_1C_3C_4C_5R_3R_4\right) + s\left(C_1C_2C_3R_1 + C_1C_2C_3R_3 + C_1C_2C_4R_4 + C_1C_3C_4R_3 + C_1C_3C_4R_4 - C_1C_3C_5R_3 - C_1C_4C_5R_4 + C_2C_3C_4R_4\right)}$

Parameters:

 $Q: \frac{\sqrt{C_1C_2\sqrt{C_3}\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{C_1C_2}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_1C_3}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_1C_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_1C_4}{C_2R_1+C_2R_3-C_5R_3} + \frac{C_1C_3}{C_2R_1+C_2R_3-C_5R_3} + \frac{$ wo: $\sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_4R_1R_4+C_1C_2C_3C_4R_3R_4-C_1C_3C_4C_5R_3R_4}}$ $\sqrt{\frac{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3}{c_1c_2c_3c_4R_1R_4+c_1c_2c_3c_4R_3R_4-c_1c_3c_4c_5R_3R_4}}(C_1C_2C_3R_1+C_1C_2C_3R_3+C_1C_2C_4R_4+C_1C_3C_4R_3+C_1C_3C_4R_4-C_1C_3C_5R_3-C_1C_4C_5R_4+C_2C_3C_4R_4)$ $\frac{\sqrt{\frac{C_1C_2C_3C_4R_1R_4+c_1C_2C_3C_4R_3R_4-c_1C_3C_4C_5R_3R_4}{C_2C_3C_4R_1R_4+c_1C_2C_3C_4R_3R_4-c_1C_3C_4C_5R_3R_4}}{\sqrt{C_1C_2\sqrt{C_3}\sqrt{C_4}R_1\sqrt{R_4}\sqrt{\frac{C_1C_2}{C_2R_1+C_2R_3-C_5R_3}+\frac{C_1C_3}{C_2R_1+C_2R_3-C_5R_3}+\frac{C_1$ K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}$

K-BP: $\frac{C_1C_3C_5R_1R_6+C_3C_4C_5R_4R_6}{C_1C_2C_3R_1+C_1C_2C_3R_3+C_1C_2C_4R_4+C_1C_3C_4R_3+C_1C_3C_4R_4-C_1C_3C_5R_3-C_1C_4C_5R_4+C_2C_3C_4R_4}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}}$

11.140 X-INVALID-WZ-140 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_4R_6s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_3C_5C_6R_4R_6\right)}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_3R_4 + C_1C_3C_4C_6R_3R_4 - C_1C_3C_5C_6R_3R_4\right) + s\left(C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_3C_$

Parameters:

 $\text{Q:} \ \frac{ C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + C_{1}C_{2}\sqrt{C_{3}}R_{3}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + C_{1}\sqrt{C_{3}}C_{4}R_{3}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - C_{1}\sqrt{C_{3}}C_{5}R_{3}\sqrt{R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} \\ - C_{1}C_{2}R_{4}+C_{1}C_{3}R_{3}+C_{1}C_{3}R_{4}+C_{1}C_{4}R_{4}-C_{1}C_{5}R_{4}+C_{2}C_{3}R_{4} \\ - C_{1}C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3} \\ - C_{1}C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}+C_{4}R_{3}-C_{5}R_{3} \\ - C_{1}C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}+C_{4}R_{3}-C_{5}R_{3} \\ - C_{1}C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3}+C_{4}R_{3} \\ - C_{1}C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}+$ Wo: $\sqrt{\frac{1}{C_2C_3R_1R_4+C_2C_3R_3R_4+C_3C_4R_3R_4-C_3C_5R_3R_4}}$ $\text{bandwidth: } \frac{(C_1C_2R_4 + C_1C_3R_3 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_3R_4 + C_3C_4R_3R_4 - C_3C_5R_3R_4}}{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_1C_2\sqrt{C_3}R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_1\sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} - C_1\sqrt{C_3}C_5R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_1\sqrt{C_3}C_4R_3\sqrt{R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_1\sqrt{C_3}C_4R_3\sqrt{\frac{1}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}} + C_1\sqrt{C_3}C_4R_3\sqrt{\frac{1}{C_3}C_4R_3}} + C_1\sqrt{C_3}C_4R_3\sqrt{\frac{1$ $\begin{array}{l} \text{K-LP: } \frac{C_3C_5R_4}{C_1C_6} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} \\ \text{K-BP: } \frac{C_5R_1R_6}{C_1C_2C_6R_4+C_1C_3C_6R_3+C_1C_3C_6R_4+C_1C_4C_6R_4-C_1C_5C_6R_4+C_2C_3C_6R_4} \\ \text{Qz: None} \end{array}$

11.141 X-INVALID-WZ-141
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_4R_5R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_3C_5R_4R_5R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_3R_3R_4R_5 + C_1C_3C_5R_3R_4R_5\right) + s\left(C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 - C_1C_5R_4R_5 + C_2C_3R_4R_5\right)}$$

 $Q: \frac{C_1C_2\sqrt{C_3}R_1\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \frac{R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5R_5-C_1C_5R_5-C_1C_5R_5-C_1C_5R_5-C_1C_5R_5-C_1C_5R_5-C_1C_5R_5-C$ $\frac{-R_4 + R_5}{\sqrt{C_2 C_3 R_1 R_4 R_5 + C_2 C_3 R_3 R_4 R_5 + C_3 C_4 R_3 R_4 R_5 - C_3 C_5 R_3 R_4 R_5}} (C_1 C_2 R_4 R_5 - C_1 C_3 R_3 R_4 + C_1 C_3 R_3 R_5 + C_1 C_3 R_4 R_5 + C_1 C_5 R_4 R_5 + C_2 C_3 R_4 R_5) \\ \frac{-R_4 + R_5}{\sqrt{C_2 C_3 R_1 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 C_2 \sqrt{C_3} R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_2 R_1 + C_2 R_3 + C_4 R_3 - C_5 R_3}}} + C_1 \sqrt{C_3} C_4 R_3 \sqrt{R_4} \sqrt$ $\begin{array}{l} \text{K-LP:} -\frac{C_3R_4R_6}{C_1R_4-C_1R_5} \\ \text{K-HP:} \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} \\ \text{K-BP:} \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} \\ \text{K-BP:} \frac{C_1C_3R_1R_4R_6+C_3C_5R_4R_5R_6}{C_1C_2R_4R_5-C_1C_3R_3R_4+C_1C_3R_3R_5+C_1C_3R_4R_5+C_1C_4R_4R_5-C_1C_5R_4R_5+C_2C_3R_4R_5} \\ \text{Qz:} \text{ None} \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.142 X-INVALID-WZ-142 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1C_2C_3R_1R_3R_4s^2 + C_1R_3 + C_1R_4 + C_2R_4 + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 + C_1C_3R_3R_4 - C_1C_5R_3R_4 + C_2C_3R_3R_4\right)}$$

Parameters:

Q: $\frac{\sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}}{C_{1}C_{2}R_{1}\sqrt{R_{4}}+C_{1}C_{2}R_{3}\sqrt{R_{4}}+C_{1}C_{3}R_{3}\sqrt{R_{4}}-C_{1}C_{5}R_{3}\sqrt{R_{4}}+C_{2}C_{3}R_{3}\sqrt{R_{4}}}$ wo: $\frac{\sqrt{C_{1}R_{3}+C_{1}R_{4}+C_{2}R_{4}}}{\sqrt{C_{1}}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}}}$ bandwidth: $\frac{C_{1}C_{2}R_{1}\sqrt{R_{4}}+C_{1}C_{2}R_{3}\sqrt{R_{4}}+C_{1}C_{3}R_{3}\sqrt{R_{4}}-C_{1}C_{5}R_{3}\sqrt{R_{4}}+C_{2}C_{3}R_{3}\sqrt{R_{4}}}{C_{1}C_{2}C_{3}R_{1}R_{3}\sqrt{R_{4}}}}$ K-BP: $\frac{C_1C_5R_1R_6+C_3C_5R_3R_6}{C_1C_2R_1+C_1C_2R_3+C_1C_3R_3-C_1C_5R_3+C_2C_3R_3}$ Qz: None Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}$

11.143 X-INVALID-WZ-143 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$

$$H(s) = \frac{C_1C_3C_5R_1R_3R_6s^2 + C_5R_6 + s\left(C_1C_5R_1R_6 + C_3C_5R_3R_6\right)}{C_1C_2C_3R_1R_3s^2 + C_1 + C_2 + s\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_3R_3 + C_1C_4R_3 - C_1C_5R_3 + C_2C_3R_3\right)}$$

Parameters:

wo: $\frac{\sqrt{C_1+C_2}R_1+C_1C_2R_3+C_1C_3R_3}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}$ bandwidth: $\frac{C_1C_2R_1+C_1C_2R_3+C_1C_3R_3+C_1C_4R_3-C_1C_5R_3+C_2C_3R_3}{C_1C_2C_3R_1R_3}$ K-LP: $\frac{C_5 R_6}{C_1 + C_2}$ K-HP: $\frac{C_5 R_6}{C_2}$ $\begin{array}{l} \text{K-BP:} \ \frac{C_2}{C_1C_2R_1+C_1C_2R_3+C_1C_3R_3+C_1C_4R_3-C_1C_5R_3+C_2C_3R_3} \\ \text{Qz:} \ \ \text{None} \end{array}$ Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}$

11.144 X-INVALID-WZ-144
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_1C_3C_5R_1R_3R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_3C_5R_3R_4R_6\right)}{C_1C_2C_3R_1R_3R_4s^2 + C_1R_3 + C_1R_4 + C_2R_4 + s\left(C_1C_2R_1R_4 + C_1C_2R_3R_4 + C_1C_3R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4 + C_2C_3R_3R_4\right)}$$

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Q: \frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{C_1R_3}+C_1R_4+C_2R_4}{C_1C_2R_1\sqrt{R_4}+C_1C_2R_3\sqrt{R_4}+C_1C_3R_3\sqrt{R_4}+C_1C_4R_3\sqrt{R_4}-C_1C_5R_3\sqrt{R_4}+C_2C_3R_3\sqrt{R_4}} wo: \frac{\sqrt{C_1R_3}+C_1R_4+C_2R_4}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}} bandwidth: \frac{C_1C_2R_1\sqrt{R_4}+C_1C_2R_3\sqrt{R_4}+C_1C_3R_3\sqrt{R_4}+C_1C_4R_3\sqrt{R_4}-C_1C_5R_3\sqrt{R_4}+C_2C_3R_3\sqrt{R_4}}{C_1C_2C_3R_1R_3\sqrt{R_4}}
        K-LP: \frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4}
K-HP: \frac{C_5R_6}{C_2}
        K-BP: \frac{C_1C_5R_1R_6+C_3C_5R_3R_6}{C_1C_2R_1+C_1C_2R_3+C_1C_3R_3+C_1C_4R_3-C_1C_5R_3+C_2C_3R_3} Qz: None
        Wz: \frac{1}{\sqrt{C_1}\sqrt{C_3}\sqrt{R_1}\sqrt{R_3}}
11.145 X-INVALID-WZ-145 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                  H(s) = \frac{C_1C_2C_5R_1R_2R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6\right)}{-C_1C_2C_5R_2R_3R_4s^2 + C_1R_3 + C_1R_4 + c_2R_4 + s\left(C_1C_2R_1R_4 + C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 - C_1C_5R_3R_4\right)}
   Parameters:
        Q: -\frac{i\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3+C_1R_4+C_2R_4}}{\sqrt{C_1}C_2R_1R_4+\sqrt{C_1}C_2R_2R_3+\sqrt{C_1}C_2R_2R_4+\sqrt{C_1}C_2R_3R_4-\sqrt{C_1}C_5R_3R_4}} wo: \frac{\sqrt{-C_1R_3-C_1R_4-C_2R_4}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}}
        bandwidth: \frac{i\sqrt{-C_1R_3-C_1R_4-C_2R_4}\left(\sqrt{C_1C_2R_1R_4+\sqrt{C_1C_2R_2R_3+\sqrt{C_1C_2R_2R_4+\sqrt{C_1C_2R_3R_4-\sqrt{C_1C_5R_3R_4}}}\right)}{\sqrt{C_1C_2C_5R_2R_3R_4\sqrt{C_1R_3+C_1R_4+C_2R_4}}}
        K-LP: \frac{C_5 R_4 R_6}{C_1 R_3 + C_1 R_4 + C_2 R_4}
K-HP: -\frac{R_1 R_6}{R_3}
       K-BP: \frac{C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6}{C_1C_2R_1R_4 + C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 - C_1C_5R_3R_4}Qz: None
        Wz: \frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}
11.146 X-INVALID-WZ-146 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, R_4, R_5 + \frac{1}{C_5 s}, R_6\right)
                   H(s) = \frac{C_1C_2C_5R_1R_2R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_5R_1R_4R_5 - C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_2R_4R_5\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_2R_4 + C_1C_2R_3R_4 - C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5 + C_2C_5R_4R_5\right)}
   Parameters:
        Q: \frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_1R_4R_5\sqrt{C_1R_3} + C_1R_4 + C_2R_4}{\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{-\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_3} + C_1R_4 + C_2R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{-\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_3R_4\sqrt{C_1R_3} + C_1R_4 + C_2R_4}\sqrt{\frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}}{-\sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_3R_4 + C_1C_3R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_4 + C_1C_5R_3R_5 + C_1C_5R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_3} + C_1R_4 + C_2R_4\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_3} + C_1R_4 + C_2R_4\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_3} + C_1R_4 + C_2R_4\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_3} + C_1R_4 + C_2R_4\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_3} + C_1R_4 + C_2R_4\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_3} + C_1R_4 + C_2R_4\sqrt{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_3} + C_1R_4R_5\sqrt{C_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_3} + C_1R_4R_5\sqrt{C_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_5}R_2R_4R_5\sqrt{C_1R_4R_5 - R_2R_4R_5 + R_3R_4R_5}} \\ + \sqrt{C_1}\sqrt{C_2}\sqrt{C_1R_4R_5 - R_2R_4R_5
        wo: \sqrt{C_1R_3 + C_1R_4 + C_2R_4}\sqrt{\frac{1}{C_1C_2C_5R_1R_4R_5 - C_1C_2C_5R_2R_3R_4 + C_1C_2C_5R_2R_3R_5 + C_1C_2C_5R_2R_4R_5 + C_1C_2C_5R_3R_4R_5}}
                                                                                                                                                                                                                                                                                                                                    \begin{array}{l} \text{K-LP: } \frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4} \\ \text{K-HP: } \frac{R_1R_2R_4R_6}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_3R_4R_5} \\ \text{K-BP: } \frac{C_1C_5R_1R_4R_6+C_2C_5R_2R_4R_6}{C_1C_5R_1R_4R_6+C_2C_5R_2R_4R_6} \\ \text{K-BP: } \frac{C_1C_2R_1R_4+C_1C_2R_2R_3+C_1C_2R_2R_4+C_1C_2R_3R_4-C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5}{C_1C_2R_3R_4-C_1C_5R_3R_4+C_1C_5R_3R_5+C_1C_5R_4R_5+C_2C_5R_4R_5} \\ \text{Qz: None} \end{array} 
        Wz: \frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}
11.147 X-INVALID-WZ-147 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)
                                                                                                                                                                                                    H(s) = \frac{C_1C_2C_5R_1R_2R_6s^2 + C_5R_6 + s\left(C_1C_5R_1R_6 + C_2C_5R_2R_6\right)}{C_1 + C_2 + s^2\left(C_1C_2C_4R_2R_3 - C_1C_2C_5R_2R_3\right) + s\left(C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_3 + C_1C_4R_3 - C_1C_5R_3\right)}
   Parameters:
         Q \colon \frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{C_1+C_2}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_2R_1+\sqrt{C_1}C_2R_2+\sqrt{C_1}C_2R_3+\sqrt{C_1}C_4R_3-\sqrt{C_1}C_5R_3}
```

wo: $\sqrt{C_1 + C_2} \sqrt{\frac{1}{C_1 C_2 C_4 R_2 R_3 - C_1 C_2 C_5 R_2 R_3}}$

K-LP: $\frac{C_5 R_6}{C_1 + C_2}$

bandwidth: $\frac{\sqrt{C_1 + C_2} \left(\sqrt{C_1} C_2 R_1 + \sqrt{C_1} C_2 R_2 + \sqrt{C_1} C_2 R_3 + \sqrt{C_1} C_4 R_3 - \sqrt{C_1} C_5 R_3\right) \sqrt{\frac{1}{C_1 C_2 C_4 R_2 R_3 - C_1 C_2 C_5 R_2 R_3}}}{\sqrt{C_2} C_4 \sqrt{R_2} \sqrt{R_3} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_4 - C_5}} - \sqrt{C_2} C_5 \sqrt{R_2} \sqrt{R_3} \sqrt{C_1 + C_2} \sqrt{\frac{1}{C_4 - C_5}}}$

Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}$

11.148 X-INVALID-WZ-148 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_5R_1R_2R_4R_6s^2 + C_5R_4R_6 + s\left(C_1C_5R_1R_4R_6 + C_2C_5R_2R_4R_6\right)}{C_1R_3 + C_1R_4 + C_2R_4 + s^2\left(C_1C_2C_4R_2R_3R_4 - C_1C_2C_5R_2R_3R_4\right) + s\left(C_1C_2R_1R_4 + C_1C_2R_2R_3 + C_1C_2R_2R_4 + C_1C_2R_3R_4 + C_1C_4R_3R_4 - C_1C_5R_3R_4\right)}$

Parameters:

 $\frac{\sqrt{C_2}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_4-C_5}}-\sqrt{C_2}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_3+C_1R_4+C_2R_4}\sqrt{\frac{1}{C_4-C_5}}}{\sqrt{C_1}C_2R_1R_4+\sqrt{C_1}C_2R_2R_3+\sqrt{C_1}C_2R_2R_4+\sqrt{C_1}C_2R_3R_4+\sqrt{C_1}C_4R_3R_4-\sqrt{C_1}C_5R_3R_4}}$

wo: $\sqrt{C_1R_3 + C_1R_4 + C_2R_4} \sqrt{\frac{1}{C_1C_2C_4R_2R_3R_4 - C_1C_2C_5R_2R_3R_4}}$

bandwidth: $\frac{\sqrt{C_1 R_3 + C_1 R_4 + C_2 R_4} \left(\sqrt{C_1 C_2 R_1 R_4 + \sqrt{C_1 C_2 R_2 R_3 + \sqrt{C_1 C_2 R_2 R_4 + \sqrt{C_1 C_2 R_3 R_4 + \sqrt{C_1 C_2 C_4 R_2 R_3 R_4 - C_1 C_2 C_5 R_2 R_3 R_4}}}}{\sqrt{C_2 C_4 \sqrt{R_2} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 R_3 + C_1 R_4 + C_2 R_4} \sqrt{\frac{1}{C_4 - C_5}} - \sqrt{C_2 C_5} \sqrt{R_2} \sqrt{R_3} \sqrt{R_4} \sqrt{C_1 R_3 + C_1 R_4 + C_2 R_4} \sqrt{\frac{1}{C_4 - C_5}}}}}$

 $\begin{array}{l} \text{K-LP: } \frac{C_5R_4R_6}{C_1R_3+C_1R_4+C_2R_4} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_4R_3-C_5R_3} \end{array}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_4R_3-C_5R_3}{C_1C_2R_1R_4+C_1C_2R_2R_3+C_1C_2R_2R_4+C_1C_2R_3R_4+C_1C_4R_3R_4-C_1C_5R_3R_4} \\ \text{Qz: None} \ . \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}$

11.149 X-INVALID-WZ-149 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

 $H(s) = \frac{C_1C_2C_3R_1R_2R_4R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_3R_2R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_2C_3R_4R_5\right)}$

Parameters:

Q: $-\frac{C_{1}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{1}+R_{2}}\sqrt{-R_{4}+R_{5}}}{C_{1}C_{2}R_{2}R_{4}-C_{1}C_{2}R_{2}R_{5}-C_{1}C_{2}R_{4}R_{5}-C_{1}C_{3}R_{4}R_{5}-C_{2}C_{3}R_{4}R_{5}}$ wo: $\frac{\sqrt{-R_{4}+R_{5}}}{\sqrt{C_{2}C_{3}R_{1}}R_{4}R_{5}+C_{2}C_{3}R_{2}R_{4}R_{5}}}$ bandwidth: $-\frac{C_{1}C_{2}R_{2}R_{4}-C_{1}C_{2}R_{2}R_{5}-C_{1}C_{2}R_{4}R_{5}-C_{1}C_{3}R_{4}R_{5}-C_{2}C_{3}R_{4}R_{5}}{C_{1}\sqrt{C_{2}}\sqrt{C_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{R_{1}+R_{2}}\sqrt{C_{2}C_{3}R_{1}R_{4}R_{5}+C_{2}C_{3}R_{2}R_{4}R_{5}}}$ K-LP: $-\frac{C_{3}R_{4}R_{6}}{C_{1}R_{4}-C_{1}R_{5}}$ K-HP: $\frac{R_{1}R_{2}R_{6}}{R_{1}R_{5}+R_{2}R_{5}}$ K-RP: $-C_{1}C_{3}R_{1}R_{4}R_{6}-C_{2}C_{3}R_{2}R_{4}R_{6}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_6-C_2C_3R_2R_4R_6}{C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_5-C_1C_3R_4R_5-C_2C_3R_4R_5} \\ \text{Qz: None} \ \ . \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}$

11.150 X-INVALID-WZ-150 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4\right)}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_2R_4 - C_1C_2C_5C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$

Parameters:

 $Q: \frac{C_1\sqrt{C_2}C_3R_1\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}} + C_1\sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}} - C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2-C_5R_2}}}{C_1C_2R_2+C_1C_2R_4+C_1C_3R_4-C_1C_5R_4+C_2C_3R_4}$

 $\text{wo: } \sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_2R_4 - C_2C_5R_2R_4}} \\ \text{bandwidth: } \frac{(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_2R_4 - C_2C_5R_2R_4}}}{C_1\sqrt{C_2}C_3R_1\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}} + C_1\sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}} - C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 - C_5R_2}}}}$

 $\begin{array}{l} \text{K-LP: } \frac{C_3C_5R_4}{C_1C_6} \\ \text{K-HP: } \frac{C_3C_5R_1R_2}{C_3C_6R_1+C_3C_6R_2-C_5C_6R_2} \\ \text{K-BP: } \frac{C_3C_5R_1R_2}{C_1C_2C_6R_2+C_1C_2C_6R_4+C_1C_3C_6R_4-C_1C_5C_6R_4+C_2C_3C_6R_4} \\ \text{Out. None} \end{array}$

11.151 X-INVALID-WZ-151
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, R_6\right)$$

$$H(s) = \frac{C_1C_2C_3R_1R_2R_6s^2 + C_3R_6 + s\left(C_1C_3R_1R_6 + C_2C_3R_2R_6\right)}{-C_1 + s^2\left(C_1C_2C_3R_1R_5 + C_1C_2C_3R_2R_5 + C_1C_2C_4R_2R_5\right) + s\left(-C_1C_2R_2 + C_1C_2R_5 + C_1C_3R_5 + C_1C_4R_5 + C_2C_3R_5\right)}$$

K-HP: $\frac{C_1}{C_3R_1R_2R_6}$ K-BP: $\frac{-C_1C_3R_1R_2R_6}{C_1C_2R_2-C_1C_2R_5-C_1C_3R_5-C_1C_4R_5-C_2C_3R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}$

11.152 X-INVALID-WZ-152 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \frac{R_6}{C_6 R_6 s + 1}\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6\right)}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_6R_1R_6 + C_1C_2C_3C_6R_2R_6 + C_1C_2C_5C_6R_2R_6\right) + s\left(C_1C_2C_3R_1 + C_1C_2C_3R_2 + C_1C_2C_5R_2 + C_1C_2C_6R_6 + C_1C_3C_6R_6 + C_1C_3C_$

Parameters:

 $O: \frac{\sqrt{C_1}\sqrt{C_2}C_3\sqrt{C_6}R_1\sqrt{R_6}\sqrt{\frac{C_1C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1C_3}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_1C_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} - \frac{C_1C_5}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_2C_3}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \sqrt{C_1}\sqrt{C_2}C_3\sqrt{C_6}R_2\sqrt{R_6}\sqrt{\frac{C_1C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}} + \frac{C_1C_3}{C_3R_1+C_3R_2+C_4R_2-C_5R_2} + \frac{C_1$

Wo: $\sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_6R_1R_6+C_1C_2C_3C_6R_2R_6+C_1C_2C_4C_6R_2R_6-C_1C_2C_5C_6R_2R_6}}$

 $\frac{1}{\sqrt{C_1\sqrt{C_2}C_3\sqrt{C_6}R_1\sqrt{R_6}\sqrt{\frac{C_1C_2}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+\frac{C_1C_3}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}+\frac{C_1C_4}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}+\frac{C_1C_5}{C_3R_1+C$

 $\begin{array}{c} \text{K-LP:} & \frac{C_1C_3}{C_3C_5R_6} + \frac{C_1C_3}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2} + \frac{C_1C_3}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2} + \frac{C_1C_4}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2} \\ \text{K-HP:} & \frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3} \\ \text{K-BP:} & \frac{C_3C_5R_1R_2}{C_3C_6R_1 + C_3C_6R_2 + C_4C_6R_2 - C_5C_6R_2} \\ \text{K-BP:} & \frac{C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6}{C_1C_2C_3R_2 + C_1C_2C_5R_2 + C_1C_2C_6R_6 + C_1C_3C_6R_6 + C_1C_4C_6R_6 - C_1C_5C_6R_6 + C_2C_3C_6R_6} \\ \text{Qz:} & \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}$

11.153 X-INVALID-WZ-153 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, R_6\right)$

 $H(s) = \frac{C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6\right)}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_5R_1R_5 + C_1C_2C_3C_5R_2R_5 + c_1C_2C_4C_5R_2R_5\right) + s\left(C_1C_2C_3R_1 + C_1C_2C_3R_2 + C_1C_2C_5R_2 + C_1C_2C_5R_5 + C_1C_3C_5R_5 + C_1C_4C_5R_5 + C_2C_3C_5R_5\right)}$

Parameters:

 $\begin{array}{l} \text{K-BP:} \ \frac{C_3R_1R_5+C_3R_2R_5+C_4R_2R_5}{C_1C_2C_3R_1+C_1C_2C_3R_2+C_1C_2C_5R_1R_6+C_2C_3C_5R_2R_6} \\ \text{Qz: None} \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}$

11.154 X-INVALID-WZ-154 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, R_6\right)$

 $H(s) = \frac{C_1C_2C_3R_1R_2R_4R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 + C_1C_2C_3R_2R_4R_5 + C_1C_2C_4R_2R_4R_5\right) + s\left(-C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 + C_1C_3R_4R_5 + C_1C_4R_4R_5 + C_2C_3R_4R_5\right)}$

Parameters:

```
 \begin{array}{c} \cdot \quad C_1C_2R_2R_4 - C_1C_2\overline{R_2R_5 - C_1}C_2R_4R_5 - C_1C_3R_4R_5 - C_1C_4R_4R_5 - C_2C_3R_4R_5 \\ \text{Wo:} \quad \frac{\sqrt{-R_4 + R_5}}{\sqrt{C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 + C_2C_4R_2R_4R_5}} \\ \text{bandwidth:} \quad - \frac{C_1C_2R_2R_4 - C_1C_2R_2R_5 - C_1C_2R_4R_5 - C_1C_3R_4R_5 - C_1C_4R_4R_5 - C_2C_3R_4R_5}{C_1\sqrt{C_2}\sqrt{R_4}\sqrt{R_5}\sqrt{C_3R_1 + C_3R_2 + C_4R_2}\sqrt{C_2C_3R_1R_4R_5 + C_2C_3R_2R_4R_5 + C_2C_4R_2R_5}} \\ \text{K-LP:} \quad - \frac{C_3R_4R_6}{C_1R_4 - C_1R_5} \\ \text{K-HP:} \quad \frac{C_3R_1R_2R_6}{C_3R_1R_5 + C_3R_2R_5 + C_4R_2R_5} \\ \text{K-BP:} \quad \frac{-C_1C_3R_4R_6 - C_2C_3R_2R_4R_6}{C_1C_2R_2R_5 - C_1C_2R_4R_5 - C_1C_3R_4R_5 - C_2C_3R_4R_5} \\ \text{Qz:} \quad \text{None} \\ \text{Wz:} \quad - \quad \quad 1 \end{array}
                 Wz: \frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}
```

11.155 X-INVALID-WZ-155 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_2C_3C_5R_1R_2R_4s^2 + C_3C_5R_4 + s\left(C_1C_3C_5R_1R_4 + C_2C_3C_5R_2R_4\right)}{C_1C_6 + s^2\left(C_1C_2C_3C_6R_1R_4 + C_1C_2C_3C_6R_2R_4 + C_1C_2C_4C_6R_2R_4 - C_1C_2C_5C_6R_2R_4\right) + s\left(C_1C_2C_6R_2 + C_1C_2C_6R_4 + C_1C_3C_6R_4 + C_1C_4C_6R_4 - C_1C_5C_6R_4 + C_2C_3C_6R_4\right)}$$

Parameters:

```
\frac{C_1\sqrt{C_2}C_3R_1\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_4R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}-C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_4R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_5R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1+C_3R_2+C_4R_2-C_5R_2}}+C_1\sqrt{C_2}C_3R_4}+C_1\sqrt{C_2}C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R_4+C_1C_3R
    \frac{(C_1C_2R_2 + C_1C_2R_4 + C_1C_3R_4 + C_1C_4R_4 - C_1C_5R_4 + C_2C_3R_4)\sqrt{\frac{1}{C_2C_3R_1R_4 + C_2C_3R_2R_4 + C_2C_5R_2R_4}}{C_1\sqrt{C_2}C_3R_1\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + C_1\sqrt{C_2}C_3R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + C_1\sqrt{C_2}C_4R_2\sqrt{R_4}\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + C_1\sqrt{C_2}C_4R_2\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + C_1\sqrt{C_2}C_3R_2\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C_4R_2 - C_5R_2}} + C_1\sqrt{C_2}C_3R_2\sqrt{\frac{1}{C_3R_1 + C_3R_2 + C
 \begin{array}{l} \text{K-HP:} \ \frac{C_{3}C_{5}R_{1}R_{2}}{C_{3}C_{6}R_{1} + C_{3}C_{6}R_{2} + C_{4}C_{6}R_{2} - C_{5}C_{6}R_{2}} \\ \text{K-BP:} \ \frac{C_{1}C_{3}C_{5}R_{1}R_{4} + C_{2}C_{3}C_{5}R_{2}R_{4}}{C_{1}C_{2}C_{6}R_{2} + C_{1}C_{2}C_{6}R_{4} + C_{1}C_{3}C_{6}R_{4} + C_{1}C_{4}C_{6}R_{4} - C_{1}C_{5}C_{6}R_{4} + C_{2}C_{3}C_{6}R_{4}} \end{array} 
             Qz: None
      Wz: \frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}
```

11.156 X-INVALID-WZ-156 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, R_4, R_5, R_6\right)$

$$H(s) = \frac{C_1C_2C_3R_1R_2R_4R_6s^2 + C_3R_4R_6 + s\left(C_1C_3R_1R_4R_6 + C_2C_3R_2R_4R_6\right)}{-C_1R_4 + C_1R_5 + s^2\left(C_1C_2C_3R_1R_4R_5 - C_1C_2C_3R_2R_3R_4 + C_1C_2C_3R_2R_3R_5 + C_1C_2C_3R_2R_4R_5 + C_1C_2R_2R_4 + C_1C_2R_2R_5 + C_1C_2R_4R_5 - C_1C_3R_3R_4 + C_1C_3R_3R_5 + C_1C_3R_4R_5 + C_2C_3R_4R_5\right)}$$

Parameters:

```
Q: \frac{-C_1\sqrt{C_2}\sqrt{C_3}R_1R_4R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}}{-R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} - C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5 + C_1\sqrt{C_2}\sqrt{C_3}R_3R_5 + C_1\sqrt{C_2}\sqrt{C_3}R_3R_5 + C_1\sqrt{C_2}\sqrt{C_3}R_3R_5 + C_1\sqrt{C_2}\sqrt{C_3}R_3R_5 + C_1\sqrt{C_2}\sqrt{C_3}R_3R_5 + C_1\sqrt{C_2}\sqrt{C_3}R_3R_5 + C_1\sqrt{
    \frac{\text{bandwidth:}}{-C_1\sqrt{C_2}\sqrt{C_3}R_1R_4R_5\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_4\sqrt{-\frac{R_4}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5}} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} + C_1\sqrt{C_2}\sqrt{C_3}R_2R_3R_5+R_2R_4R_5+R_3R_4R
 \begin{array}{l} \text{K-HP:} \ \frac{C_1R_4-C_1R_5}{R_1R_4R_5-R_2R_3R_4+R_2R_3R_5+R_2R_4R_5+R_3R_4R_5} \\ \text{K-BP:} \ \frac{-C_1C_3R_1R_4R_6-C_2C_3R_2R_4R_6}{C_1C_2R_2R_4-C_1C_2R_2R_5-C_1C_2R_4R_5+C_1C_3R_3R_4-C_1C_3R_3R_5-C_1C_3R_4R_5-C_2C_3R_4R_5} \\ \text{Qz:} \ \text{None} \end{array}
```

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}$

11.157 X-INVALID-WZ-157
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6\right)$$

$$H(s) = \frac{C_1C_2C_3C_5R_1R_2R_6s^2 + C_3C_5R_6 + s\left(C_1C_3C_5R_1R_6 + C_2C_3C_5R_2R_6\right)}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 + s^2\left(C_1C_2C_3C_4R_2R_3 - C_1C_2C_3C_5R_2R_3\right) + s\left(C_1C_2C_3R_1 + C_1C_2C_3R_2 + C_1C_2C_3R_3 + C_1C_2C_4R_2 - C_1C_2C_5R_2 + C_1C_3C_4R_3 - C_1C_3C_5R_3\right)}$$

Parameters:

```
Q \colon \frac{\sqrt{C_2}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_1C_2}{C_4-C_5}} + \frac{C_1C_3}{C_4-C_5} + \frac{C_1C_4}{C_4-C_5} + \frac{C_1C_5}{C_4-C_5} + \frac{C_2C_3}{C_4-C_5}}{\sqrt{C_1}C_2C_3R_1 + \sqrt{C_1}C_2} - \sqrt{C_2}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_1C_2}{C_4-C_5}} + \frac{C_1C_3}{C_4-C_5} + \frac{C_1C_5}{C_4-C_5} + \frac{C_2C_3}{C_4-C_5}}{\sqrt{C_1}C_2C_3R_3 + \sqrt{C_1}C_2C_3R_3} + \sqrt{C_1}C_2C_4R_2 - \sqrt{C_1}C_2C_5R_2 + \sqrt{C_1}C_3C_4R_3 - \sqrt{C_1}C_3C_5R_3}
                                                                  \frac{\sqrt{\frac{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}{C_1C_2C_3C_3C_4R_2R_3-C_1C_2C_3C_5R_2R_3}} \left(\sqrt{C_1}C_2C_3R_1+\sqrt{C_1}C_2C_3R_2+\sqrt{C_1}C_2C_3R_3+\sqrt{C_1}C_2C_4R_2-\sqrt{C_1}C_2C_5R_2+\sqrt{C_1}C_3C_4R_3-\sqrt{C_1}C_3C_5R_3}\right)}{\sqrt{C_2}\sqrt{C_3}C_4\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_1C_2}{C_4-C_5}+\frac{C_1C_3}{C_4-C_5}+\frac{C_1C_4}{C_4-C_5}-\frac{C_1C_5}{C_4-C_5}+\frac{C_2C_3}{C_4-C_5}-\sqrt{C_2}\sqrt{C_3}C_5\sqrt{R_2}\sqrt{R_2}\sqrt{R_3}\sqrt{\frac{C_1C_2}{C_4-C_5}+\frac{C_1C_4}{C_4-C_5}+\frac{C_1C_5}{C_4-C_5}+\frac{C_2C_3}{C_4-C_5}}
```

K-LP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-HP: $\frac{C_5R_1R_6}{C_4R_3-C_5R_3}$

K-BP: $\frac{C_1C_3C_5R_1R_6+C_2C_3C_5R_2R_6}{C_1C_2C_3R_1+C_1C_2C_3R_2+C_1C_2C_3R_3+C_1C_2C_4R_2-C_1C_2C_5R_2+C_1C_3C_4R_3-C_1C_3C_5R_3}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_2}\sqrt{R_1}\sqrt{R_2}}$

11.158 X-INVALID-WZ-158 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_4R_6s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_2C_6R_2R_4\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_1}C_2R_1\sqrt{R_2}R_4\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+\sqrt{C_1}C_2\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}-\sqrt{C_1}C_5\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{C_1R_1R_4+C_1R_2R_3+C_1R_2R_4+C_1R_3R_4+C_2R_2R_4}$$

 $\text{wo: } \sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 - C_1C_5R_2R_3}} \\ \text{bandwidth: } \frac{(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 - C_1C_5R_2R_3}}}{\sqrt{C_1C_2R_1\sqrt{R_2}R_4}\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + \sqrt{C_1}C_2\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - \sqrt{C_1}C_5\sqrt{R_2}R_3R_4\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}} \\$

K-LP: $\frac{C_5 R_2}{C_6}$

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}$ K-BP: $\frac{C_1C_5R_1R_2R_4+C_5C_6R_2R_4R_6}{C_1C_6R_1R_4+C_1C_6R_2R_3+C_1C_6R_2R_4+C_1C_6R_3R_4+C_2C_6R_2R_4}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.159 X-INVALID-WZ-159 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_2R_1R_2R_4R_5 + C_1C_2R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_1}C_2R_1\sqrt{R_2}R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}+\sqrt{C_1}C_2\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}-\sqrt{C_1}C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3-C_5R_3}}}{C_1R_1R_4R_5-C_1}R_2R_3R_4+C_1R_2R_3R_5+C_1R_2R_4R_5+C_1R_3R_4R_5+C_2R_2R_4R_5}$$

 $\text{bandwidth: } \frac{(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 - C_1C_5R_2R_3}}}{\sqrt{C_1}C_2R_1\sqrt{R_2}R_4R_5\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} + \sqrt{C_1}C_2\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}} - \sqrt{C_1}C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}} - \sqrt{C_1}C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1 + C_2R_3 - C_5R_3}}}$

K-LP: $\frac{R_2R_6}{R_5}$

 $\begin{array}{l} \text{K-HP:} \ \frac{R_5}{C_2R_1+C_2R_3-C_5R_3} \\ \text{K-BP:} \ \frac{C_1R_1R_2R_4R_6+C_5R_2R_4R_5R_6}{C_1R_1R_4R_5-C_1R_2R_3R_4+C_1R_2R_3R_5+C_1R_2R_4R_5+C_1R_3R_4R_5+C_2R_2R_4R_5} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.160 X-INVALID-WZ-160 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_6s^2 + C_5R_2 + s\left(C_1C_5R_1R_2 + C_5C_6R_2R_6\right)}{C_6 + s^2\left(C_1C_2C_6R_1R_2 + C_1C_2C_6R_2R_3 + C_1C_4C_6R_2R_3 - C_1C_5C_6R_2R_3\right) + s\left(C_1C_6R_1 + C_1C_6R_2 + C_1C_6R_3 + C_2C_6R_2\right)}$$

Parameters:

$$Q: \underbrace{\frac{\sqrt{C_1}C_2R_1\sqrt{R_2}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_1}C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + \sqrt{C_1}C_4\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} - \sqrt{C_1}C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}} + C_1R_1+C_1R_2+C_1R_3+C_2R_2}}{C_1R_1+C_1R_2+C_1R_3+C_2R_2}$$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}$

 $(C_1R_1 + C_1R_2 + C_1R_3 + C_2R_2)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}$

 $\frac{\sqrt{C_1C_2R_1\sqrt{R_2}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1C_2\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1C_4\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1C_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}$

K-LP: $\frac{C_5 R_2}{C_6}$

Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.161 X-INVALID-WZ-161
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$$

$$H(s) = \frac{C_1C_5R_1R_2R_5R_6s^2 + R_2R_6 + s\left(C_1R_1R_2R_6 + C_5R_2R_5R_6\right)}{R_5 + s^2\left(C_1C_2R_1R_2R_5 + C_1C_2R_2R_3R_5 + C_1C_4R_2R_3R_5 - C_1C_5R_2R_3R_5\right) + s\left(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_2R_2R_5\right)}$$

Parameters:

 $\text{Q:} \ \frac{\sqrt{C_{1}}C_{2}R_{1}\sqrt{R_{2}}R_{5}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{R_{2}}R_{3}R_{5}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}R_{3}R_{5}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}R_{3}R_{5}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-C_{1}R_{1}R_{5}-C_{1}R_{2}R_{3}+C_{1}R_{2}R_{5}+C_{1}R_{2}R_{5}+C_{1}R_{3}R_{5}+C_{2}R_{2}R_{5}}$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}$

 $(C_1R_1R_5 - C_1R_2R_3 + C_1R_2R_5 + C_1R_3R_5 + C_2R_2R_5)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}$

 $\frac{\sqrt{C_1C_2R_1\sqrt{R_2}R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1C_2\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1C_4\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{\sqrt{C_1C_5\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}{\sqrt{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\sqrt{C_1C_3\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\frac{\sqrt{C_1C_5\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}{\sqrt{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\frac{\sqrt{C_1C_5\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}{\sqrt{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\frac{\sqrt{C_1C_5\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}{\sqrt{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\frac{\sqrt{C_1C_5\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}{\sqrt{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\frac{\sqrt{C_1C_5\sqrt{R_2}R_3R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}{\sqrt{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}$

K-LP: $\frac{R_2R_6}{R_5}$

K-HP: $\frac{\kappa_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}$ K-BP: $\frac{C_1R_1R_2R_6+C_5R_2R_5R_6}{C_1R_1R_5-C_1R_2R_3+C_1R_2R_5+C_1R_3R_5+C_2R_2R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.162 X-INVALID-WZ-162 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_1C_5C_6R_1R_2R_4R_6s^2 + C_5R_2R_4 + s\left(C_1C_5R_1R_2R_4 + C_5C_6R_2R_4R_6\right)}{C_6R_4 + s^2\left(C_1C_2C_6R_1R_2R_4 + C_1C_2C_6R_2R_3R_4 + C_1C_4C_6R_2R_3R_4 - C_1C_5C_6R_2R_3R_4\right) + s\left(C_1C_6R_1R_4 + C_1C_6R_2R_3 + C_1C_6R_2R_4 + C_1C_6R_3R_4 + C_2C_6R_2R_4\right)}$$

Parameters:

$$Q: \frac{\sqrt{C_{1}C_{2}R_{1}\sqrt{R_{2}}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}C_{2}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}C_{4}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}R_{4}\sqrt{\frac{1}{C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}C_{5}\sqrt{R_{2}}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}C$$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}$

 $(C_1R_1R_4 + C_1R_2R_3 + C_1R_2R_4 + C_1R_3R_4 + C_2R_2R_4)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2}R_3}$

K-LP: $\frac{C_5 R_2}{C_6}$

K-HP: $\frac{C_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} \\ \text{K-BP: } \frac{C_1C_5R_1R_6}{C_1C_6R_1R_4+C_1C_6R_2R_3+C_1C_6R_2R_4+C_5C_6R_2R_4R_6} \\ \text{Qz: None}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.163 X-INVALID-WZ-163 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_1C_5R_1R_2R_4R_5R_6s^2 + R_2R_4R_6 + s\left(C_1R_1R_2R_4R_6 + C_5R_2R_4R_5R_6\right)}{R_4R_5 + s^2\left(C_1C_2R_1R_2R_4R_5 + C_1C_2R_2R_3R_4R_5 + C_1C_4R_2R_3R_4R_5 - C_1C_5R_2R_3R_4R_5\right) + s\left(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5\right)}$$

Parameters:

$$Q: \underbrace{\frac{\sqrt{C_{1}C_{2}R_{1}\sqrt{R_{2}}R_{4}R_{5}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{R_{2}}R_{3}R_{4}R_{5}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{2}}R_{3}R_{4}R_{5}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{2}}R_{3}R_{4}R_{5}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}-C_{1}R_{1}R_{4}R_{5}-C_{1}R_{2}R_{3}R_{4}+C_{1}R_{2}R_{3}R_{5}+C_{1}R_{2}R_{4}R_{5}+C_{1}R_{3}R_{4}R_{5}+C_{2}R_{2}R_{4}R_{5}}$$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_2R_2R_3+C_1C_4R_2R_3-C_1C_5R_2R_3}}$

 $(C_1R_1R_4R_5 - C_1R_2R_3R_4 + C_1R_2R_3R_5 + C_1R_2R_4R_5 + C_1R_3R_4R_5 + C_2R_2R_4R_5)\sqrt{\frac{1}{C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_4R_2R_3 - C_1C_5R_2R_3}}$

 $\frac{\sqrt{C_1C_2R_1\sqrt{R_2}R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1C_2\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1C_4\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1C_2\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}-\sqrt{C_1C_5\sqrt{R_2}R_3R_4R_5\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}}$

K-HP: $\frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}$ K-BP: $\frac{C_1R_1R_2R_4R_6+C_5R_2R_4R_5R_6}{C_1R_1R_4R_5-C_1R_2R_3R_4+C_1R_2R_3R_5+C_1R_2R_4R_5+C_1R_3R_4R_5+C_2R_2R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.164 X-INVALID-WZ-164
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_4s^2 + C_1C_6R_2 + C_1C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}$$

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{C_1R_2} + C_1R_4 + C_3R_4}{C_1C_2R_2\sqrt{R_4} + C_1C_3R_1\sqrt{R_4} + C_1C_3R_2\sqrt{R_4} - C_1C_5R_2\sqrt{R_4} + C_2C_3R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{C_1R_2} + C_1R_4 + C_3R_4}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_1C_2R_2\sqrt{R_4} + C_1C_3R_1\sqrt{R_4} + C_1C_3R_2\sqrt{R_4} - C_1C_5R_2\sqrt{R_4} + C_2C_3R_2\sqrt{R_4}}{C_1C_2C_3R_1R_2\sqrt{R_4}}$

K-LP: $\frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_2}{C_1C_2C_6R_2 + C_1C_3C_6R_1 + C_1C_3C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.165 X-INVALID-WZ-165 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{C_1C_2C_3R_1R_2R_4R_5s^2 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s\left(C_1C_2R_2R_4R_5 + C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 - C_1C_5R_2R_4R_5 + C_2C_3R_2R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-C_1}R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_2R_2\sqrt{R_4}\sqrt{R_5}+C_1C_3R_1\sqrt{R_4}\sqrt{R_5}+C_1C_3R_2\sqrt{R_4}\sqrt{R_5}-C_1C_5R_2\sqrt{R_4}\sqrt{R_5}+C_2C_3R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-C_1}R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_1C_2R_2\sqrt{R_4}\sqrt{R_5}+C_1C_3R_1\sqrt{R_4}\sqrt{R_5}+C_1C_3R_2\sqrt{R_4}\sqrt{R_5}-C_1C_5R_2\sqrt{R_4}\sqrt{R_5}+C_2C_3R_2\sqrt{R_4}\sqrt{R_5}}{C_1C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_1C_3R_1R_2R_6+C_3C_5R_2R_5R_6}{C_1C_2R_2R_5+C_1C_3R_1R_5+C_1C_3R_2R_5-C_1C_5R_2R_5+C_2C_3R_2R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.166 X-INVALID-WZ-166 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_5C_6R_2R_6\right)}{C_1C_2C_3C_6R_1R_2s^2 + C_1C_6 + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{C_1+C_3}}{C_1C_2R_2+C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}$ wo: $\frac{\sqrt{C_1+C_3}}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}}$ bandwidth: $\frac{C_1C_2R_2+C_1C_3R_1+C_1C_3R_2+C_1C_4R_2-C_1C_5R_2+C_2C_3R_2}{C_1C_2C_3R_1R_2}$

K-LP: $\frac{C_3C_5R_2}{C_1C_6+C_3C_6}$ K-HP: $\frac{C_5R_6}{C_2}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.167 X-INVALID-WZ-167 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_5R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_5R_2R_5R_6\right)}{C_1C_2C_3R_1R_2R_5s^2 - C_1R_2 + C_1R_5 + C_3R_5 + s\left(C_1C_2R_2R_5 + C_1C_3R_1R_5 + C_1C_3R_2R_5 + C_1C_4R_2R_5 - C_1C_5R_2R_5 + C_2C_3R_2R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-C_1R_2+C_1R_5+C_3R_5}}{C_1C_2R_2\sqrt{R_5}+C_1C_3R_1\sqrt{R_5}+C_1C_3R_2\sqrt{R_5}+C_1C_4R_2\sqrt{R_5}-C_1C_5R_2\sqrt{R_5}+C_2C_3R_2\sqrt{R_5}}$

bandwidth: $\frac{C_1C_2R_2\sqrt{R_5} + C_1C_3R_1\sqrt{R_5} + C_1C_3R_2\sqrt{R_5} + C_1C_4R_2\sqrt{R_5} - C_1C_5R_2\sqrt{R_5} + C_2C_3R_2\sqrt{R_5}}{C_1C_2C_3R_1R_2\sqrt{R_5}}$

K-LP: $-\frac{C_3R_2R_6}{C_1R_2-C_1R_5-C_3R_5}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_1C_3R_1R_2R_6+C_3C_5R_2R_5R_6}{C_1C_2R_2R_5+C_1C_3R_1R_5+C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_5R_2R_5+C_2C_3R_2R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.168 X-INVALID-WZ-168 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_2C_3C_6R_1R_2R_4s^2 + C_1C_6R_2 + C_1C_6R_4 + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{C_1R_2}+C_1R_4+C_3R_4}{C_1C_2R_2\sqrt{R_4}+C_1C_3R_1\sqrt{R_4}+C_1C_3R_2\sqrt{R_4}+C_1C_4R_2\sqrt{R_4}-C_1C_5R_2\sqrt{R_4}+C_2C_3R_2\sqrt{R_4}}$ wo: $\frac{\sqrt{C_1R_2}+C_1R_4+C_3R_4}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}}$ bandwidth: $\frac{C_1C_2R_2\sqrt{R_4}+C_1C_3R_1\sqrt{R_4}+C_1C_3R_2\sqrt{R_4}+C_1C_4R_2\sqrt{R_4}-C_1C_5R_2\sqrt{R_4}+C_2C_3R_2\sqrt{R_4}}{C_1C_2C_3R_1R_2\sqrt{R_4}}$

 $\begin{array}{l} \text{K-LP: } \frac{C_3C_5R_2R_4}{C_1C_6R_2+C_1C_6R_4+C_3C_6R_4} \\ \text{K-HP: } \frac{C_5R_6}{C_2} \end{array}$

 $\begin{array}{l} \text{K-BP:} \; \frac{C_2}{C_1C_2C_6R_2 + C_1C_3C_6R_1 + C_1C_3C_6R_2 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2} \\ \text{Qz:} \; \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}$

11.169 X-INVALID-WZ-169 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

 $H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{C_1C_2C_3R_1R_2R_4R_5s^2 - C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + c\left(C_1C_2R_2R_4R_5 + C_1C_3R_1R_4R_5 + C_1C_3R_2R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_4R_5 + C_2C_3R_2R_4R_5\right)}$

Parameters:

Q: $\frac{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5}+C_3R_4R_5}{C_1C_2R_2\sqrt{R_4}\sqrt{R_5}+C_1C_3R_1\sqrt{R_4}\sqrt{R_5}+C_1C_3R_2\sqrt{R_4}\sqrt{R_5}+C_1C_4R_2\sqrt{R_4}\sqrt{R_5}-C_1C_5R_2\sqrt{R_4}\sqrt{R_5}+C_2C_3R_2\sqrt{R_4}\sqrt{R_5}}$ wo: $\frac{\sqrt{-C_1}R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{\sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}}$ bandwidth: $\frac{C_1C_2R_2\sqrt{R_4}\sqrt{R_5}+C_1C_3R_1\sqrt{R_4}\sqrt{R_5}+C_1C_3R_2\sqrt{R_4}\sqrt{R_5}+C_1C_4R_2\sqrt{R_4}\sqrt{R_5}-C_1C_5R_2\sqrt{R_4}\sqrt{R_5}+C_2C_3R_2\sqrt{R_4}\sqrt{R_5}}{C_1C_2C_3R_1R_2\sqrt{R_4}\sqrt{R_5}}$

K-LP: $-\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}$ K-HP: $\frac{C_5R_6}{C_2}$

K-BP: $\frac{C_1C_3R_1R_2R_6+C_3C_5R_2R_5R_6}{C_1C_2R_2R_5+C_1C_3R_1R_5+C_1C_3R_2R_5+C_1C_4R_2R_5-C_1C_5R_2R_5+C_2C_3R_2R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

11.170 X-INVALID-WZ-170 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_3C_5C_6R_2R_3R_4\right) + s\left(C_1C_2C_6R_2R_4 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_3C_6R_3R_$

Parameters:

 $\frac{\sqrt{C_{1}}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{C_{3}}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-\sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{5}R_{3}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{2}R_{3}-C_{1}R_{4}}}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}-C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{3}}$

 $\text{wo: } \sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{C_1R_2 + C_1R_4 + C_3R_4} (C_1C_2R_2R_4 + C_1C_3R_1R_4 + C_1C_3R_2R_3 + C_1C_3R_2R_4 + C_1C_5R_2R_4 + C_2C_3R_2R_4) \sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 - C_1C_3C_5R_2R_3R_4}}} {\sqrt{C_1C_2}\sqrt{C_3}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_3}} + \sqrt{C_1C_2}\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_3}} - \sqrt{C_1}\sqrt{C_2}\sqrt{C_3}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_3}} - \sqrt{C_1}\sqrt{C_3}\sqrt{C_2}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}} - \sqrt{C_2}\sqrt{C_2}\sqrt{C_2}\sqrt{R_2}R_3\sqrt{R_4}\sqrt{C_1R_2 + C_1R_4 + C_3R_4}} - \sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt{C_2}\sqrt{C_2}\sqrt{C_2}\sqrt{C_2}\sqrt{C_1}\sqrt{C_2}\sqrt$

 $\begin{array}{l} \text{K-LP: } \frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_2R_1 + C_2R_3 - C_5R_3} \end{array}$

K-BP: $\frac{C_1C_3C_5R_1R_2R_4+C_3C_5C_6R_2R_4R_6}{C_1C_2C_6R_2R_4+C_1C_3C_6R_1R_4+C_1C_3C_6R_2R_3+C_1C_3C_6R_2R_4+C_1C_3C_6R_3R_4-C_1C_5C_6R_2R_4+C_2C_3C_6R_2R_4}$ Qz: None

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Wz: \frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}
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Wz: $\frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}$

 $\text{K-BP: } \frac{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3}{C_1C_2R_2R_5 + C_1C_3R_1R_5 - C_1C_3R_2R_5 + C$

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11.171 X-INVALID-WZ-171 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
     H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_3C_3R_2R_3R_4R_5\right) + s\left(C_1C_2R_2R_4R_5 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C
         Parameters:
                       Q: \frac{\sqrt{C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{C_{1}R_{2}R_{4}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{2}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{4}R_{5}}{C_{2}R_{1}+C_{2}R_{3}-C_{5}R_{3}} +
                                                               \sqrt{\frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{C_1C_2C_3R_1R_2R_4R_5+C_1C_2C_3R_2R_3R_4R_5-C_1C_3C_5R_2R_3R_4R_5}}
                      \frac{-C_1R_2R_4+C_1R_2R_5+C_1R_4R_5+C_3R_4R_5}{\sqrt{C_1C_2C_3R_1R_2R_4R_5+C_1C_3C_3R_2R_3R_4+C_1C_3R_2R_3R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_3R_2R_4R_5+C_1C_
                    K-LP: -\frac{C_3R_2R_4R_6}{C_1R_2R_4-C_1R_2R_5-C_1R_4R_5-C_3R_4R_5}

K-HP: \frac{C_5R_1R_6}{C_2R_1+C_2R_3-C_5R_3}
                    \begin{array}{c} \text{K-BP:} \ \frac{C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6}{C_1C_2R_2R_4R_5 + C_1C_3R_1R_4R_5 - C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_3R_4R_5 - C_1C_5R_2R_4R_5 + C_2C_3R_2R_4R_5} \\ \text{Qz:} \ \text{None} \end{array} 
                       Wz: \frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}
11.172 X-INVALID-WZ-172 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                      H(s) = \frac{C_1C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_2 + s\left(C_1C_3C_5R_1R_2 + C_3C_5C_6R_2R_6\right)}{C_1C_6 + C_3C_6 + s^2\left(C_1C_2C_3C_6R_1R_2 + C_1C_2C_3C_6R_2R_3 + C_1C_3C_6R_2R_3 - C_1C_3C_5C_6R_2R_3\right) + s\left(C_1C_2C_6R_2 + C_1C_3C_6R_2 + C_1C_3C_6R_3 + C_1C_4C_6R_2 - C_1C_5C_6R_2 + C_2C_3C_6R_2\right)}
            Parameters:
                         Q: \frac{\sqrt{C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{2}}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}C_{2}\sqrt{C_{3}}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \sqrt{C_{1}\sqrt{C_{3}}C_{4}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - \sqrt{C_{1}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}\sqrt{C_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}}R_{3}\sqrt{C_{1}+C_{3}\sqrt{C_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} - C_{1}\sqrt{C_{3}C_{5}\sqrt{R_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}} - C_{
                    wo: \sqrt{C_1 + C_3} \sqrt{\frac{1}{C_1 C_2 C_3 R_1 R_2 + C_1 C_2 C_3 R_2 R_3 + C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}
                                                                                                                                                                                                                                                                                                                                                 \sqrt{C_1 + C_3} (C_1 C_2 R_2 + C_1 C_3 R_1 + C_1 C_3 R_2 + C_1 C_3 R_3 + C_1 C_4 R_2 - C_1 \underbrace{C_5 R_2 + C_2 C_3 R_2}_{C_1 C_2 C_3 R_1 R_2 + C_1 C_2 C_3 R_2 R_3 + C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}_{C_1 C_2 C_3 R_1 R_2 + C_1 C_2 C_3 R_2 + C_1 C_3 C_4 R_2 R_3 - C_1 C_3 C_5 R_2 R_3}
                    \frac{\sqrt{C_1C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}}+\sqrt{C_1}C_2\sqrt{C_3}\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\sqrt{C_1}\sqrt{C_3}C_4\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}-\sqrt{C_1}\sqrt{C_3}C_5\sqrt{R_2}R_3\sqrt{C_1+C_3}\sqrt{\frac{1}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\sqrt{C_1}\sqrt{C_2}C_2\sqrt{C_1}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}C_2\sqrt{C_2}
                  \begin{array}{l} \text{K-LP: } \frac{C_3C_5R_2}{C_1C_6+C_3C_6} \\ \text{K-HP: } \frac{C_3R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} + \sqrt{C_1C_2\sqrt{C_3\sqrt{R_2R_3\sqrt{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}} \\ \text{K-BP: } \frac{C_5R_1R_6}{C_2R_1+C_2R_3+C_4R_3-C_5R_3} \\ \text{Qz: None} \end{array} 
                      Wz: \frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}
 11.173 X-INVALID-WZ-173 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_1C_3C_5R_1R_2R_5R_6s^2 + C_3R_2R_6 + s\left(C_1C_3R_1R_2R_6 + C_3C_5R_2R_5R_6\right)
                                                                                                    H(s) = \frac{1}{-C_1R_2 + C_1R_5 + C_3R_5 + s^2\left(C_1C_2C_3R_1R_2R_5 + C_1C_3C_4R_2R_3R_5 + C_1C_3C_5R_2R_3R_5\right) + s\left(C_1C_2R_2R_5 + C_1C_3R_2R_3 + C_1C_3R_2R_5 + C_1C_3R_2R_
            Parameters:
                       Q: \frac{\sqrt{C_{1}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{2}}\sqrt{R_{5}}\sqrt{-\frac{C_{1}R_{2}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}} + \frac{C_{1}R_{5}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}} + \frac{C_{3}R_{5}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}} + \frac{C_{1}R_{5}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}} + \frac{C_{1}R_{5}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \sqrt{\frac{-C_1R_2+C_1R_5+C_3R_5}{C_1C_2C_3R_1R_2R_5+C_1C_2C_3R_2R_3R_5+C_1C_3C_4R_2R_3R_5-C_1C_3C_5R_2R_3R_5}}(C_1C_2R_2R_5+C_1C_3R_1R_5-C_1C_3R_2R_3+C_1C_3R_2R_5+C_1C_3R_3R_5+C_1C_4R_2R_5-C_1C_5R_2R_5+C_2C_3R_2R_5)
                       \frac{\sqrt{C_1C_2C_3R_1R_2R_5+C_1C_2C_3R_2R_3R_5+C_1C_3C_4R_2R_3-C_1C_3C_4R_2R_3-C_1C_3C_4R_2R_3-C_1C_3C_4R_2R_3-C_1C_3C_4R_2R_3-C_1C_3C_4R_2R_3-C_1C_3C_4R_2R_3-C_1C_3C_4R_2R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_1C_3C_4R_3-C_
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11.174 X-INVALID-WZ-174 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_1C_3C_5C_6R_1R_2R_4R_6s^2 + C_3C_5R_2R_4 + s\left(C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6\right)
H(s) = \frac{1}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4 + s^2\left(C_1C_2C_3C_6R_1R_2R_4 + C_1C_3C_6R_2R_3R_4 + C_1C_3C_6R_3R_4 + C_
                                       \frac{\sqrt{C_{1}}C_{2}\sqrt{C_{3}}R_{1}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}C_{2}\sqrt{C_{3}}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{3}}C_{4}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{3}}C_{4}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{3}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{2}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{2}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{2}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{2}}C_{5}\sqrt{R_{2}}R_{3}\sqrt{R_{4}}\sqrt{C_{1}R_{2}+C_{1}R_{4}+C_{3}R_{4}}\sqrt{\frac{1}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}}+\sqrt{C_{1}}\sqrt{C_{2}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}+C_{1}C_{3}R_{4}
                   \text{wo: } \sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{\frac{1}{C_1C_2C_3R_1R_2R_4 + C_1C_2C_3R_2R_3R_4 + C_1C_3C_5R_2R_3R_4}}{\sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{C_1R_2 + C_1R_4 + C_3R_4} \sqrt{C_1R_2 + C_1R_4 + C_3R_2R_4 + C_1C_3R_2R_4 + C_1C
                   \begin{array}{l} \text{K-LP: } \frac{C_3C_5R_2R_4}{C_1C_6R_2 + C_1C_6R_4 + C_3C_6R_4} \\ \text{K-HP: } \frac{C_5R_1R_6}{C_2R_1 + C_2R_3 + C_4R_3 - C_5R_3} \end{array} 
                    \begin{array}{l} \text{K-BP:} \ \frac{C_1C_3C_5R_1R_2R_4 + C_3C_5C_6R_2R_4R_6}{C_1C_2C_6R_2R_4 + C_1C_3C_6R_1R_4 + C_1C_3C_6R_2R_3 + C_1C_3C_6R_2R_4 + C_1C_3C_6R_3R_4 + C_1C_4C_6R_2R_4 - C_1C_5C_6R_2R_4 + C_2C_3C_6R_2R_4} \\ \text{Qz: None} \end{array} 
                    Wz: \frac{1}{\sqrt{C_1}\sqrt{C_6}\sqrt{R_1}\sqrt{R_6}}
11.175 X-INVALID-WZ-175 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
H(s) = \frac{C_1C_3C_5R_1R_2R_4R_5R_6s^2 + C_3R_2R_4R_6 + s\left(C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6\right)}{-C_1R_2R_4 + C_1R_2R_5 + C_1R_4R_5 + C_3R_4R_5 + s^2\left(C_1C_2C_3R_1R_2R_4R_5 + C_1C_3C_3R_2R_3R_4R_5 + C_1C_3C_3R_2R_3R_4R_5 + C_1C_3R_2R_3R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_3R_3R_4R_5
       Parameters:
                   Q: \frac{\sqrt{C_1C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \frac{\sqrt{C_1C_2\sqrt{C_3}R_1\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{C_1R_2R_4}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}}+\frac{C_1R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_2R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_4R_3-C_5R_3}+\frac{C_1R_4R_5}{C_2R_1+C_2R_3+C_
                K-LP: -\frac{C_{3}R_{2}R_{4}-C_{1}}{C_{1}R_{2}R_{4}-C_{1}R_{2}R_{5}-C_{1}R_{4}R_{5}-C_{3}R_{4}R_{5}}
K-HP: \frac{C_{5}R_{1}R_{6}}{C_{2}R_{1}+C_{2}R_{3}+C_{4}R_{3}-C_{5}R_{3}}
                  \begin{array}{l} \text{K-BP:} \ \frac{C_1C_3R_1R_2R_4R_6 + C_3C_5R_2R_4R_5R_6}{C_1C_2R_2R_4R_5 + C_1C_3R_1R_4R_5 - C_1C_3R_2R_3R_4 + C_1C_3R_2R_3R_5 + C_1C_3R_2R_4R_5 + C_1C_3R_3R_4R_5 + C_1C_4R_2R_4R_5 - C_1C_5R_2R_4R_5 + C_2C_3R_2R_4R_5} \\ \text{Qz: None} \ \ \\ \end{array} 
                   Wz: \frac{1}{\sqrt{C_1}\sqrt{C_5}\sqrt{R_1}\sqrt{R_5}}
11.176 X-INVALID-WZ-176 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                        H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_3C_6R_1R_2R_4R_5 - C_1C_5C_6R_1R_2R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_5 + C_1C_6R_1R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_2R_4R_5\right)}
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 $\begin{array}{l} Q\colon \frac{-\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3-C_5}+\frac{R_2R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}+\sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3-C_5}+\frac{R_2R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}\\ VO\colon \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_3R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5}}(C_1R_1R_2R_5-C_3R_1R_4R_5-C_3R_2R_4R_5+C_5R_2R_4R_5\\ \\ \text{bandwidth:} \frac{\sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_3R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5}}(C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_2R_4R_5+C_5R_2R_4R_5)\\ \\ \text{bandwidth:} \frac{\sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_3R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5}}(C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5+C_5R_2R_4R_5)}{-\sqrt{C_1C_3}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3-C_5}+\frac{R_2R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}}+\sqrt{C_1C_5}\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3-C_5}+\frac{R_2R_5}{C_3-C_5}+\frac{R_4R_5}{C_3-C_5}}\\ \\ \text{K-LP:} -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}\\ \text{K-HP:} \frac{C_3C_5R_6}{C_1C_3-C_1C_5}\\ \frac{-C_3C_5R_1R_2R_4R_5-C_3C_6R_1R_2R_4R_6}{C_1C_6R_1R_2R_5-C_3C_6R_1R_4R_5-C_3C_6R_2R_4R_5+C_5C_6R_2R_4R_5}\\ \\ \text{Qz:} \text{ None}\\ \\ \text{Wz:} \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}\\ \end{array}$

11.177 X-INVALID-WZ-177
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_5R_6s^2 + C_3R_1R_2 + s\left(C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^2\left(C_1C_3C_6R_1R_2R_5 + C_1C_4C_6R_1R_2R_5 - C_1C_5C_6R_1R_2R_5\right) + s\left(-C_1C_6R_1R_2 + C_1C_6R_1R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_4C_6R_2R_5 - C_5C_6R_2R_5\right)}$$

$$Q \colon \frac{-\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{5}}}\sqrt{-\frac{R_{2}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}}{-\sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{5}}}\sqrt{-\frac{R_{2}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{5}}}\sqrt{-\frac{R_{2}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}}}{\frac{C_{1}}{R_{1}}R_{2}-C_{1}R_{1}R_{5}-C_{3}R_{1}R_{5}-C_{3}R_{2}R_{5}-C_{4}R_{2}R_{5}+C_{5}R_{2}R_{5}}}$$

$$\text{wo: } \frac{-R_{2}+R_{5}}{\sqrt{C_{1}C_{3}}R_{1}R_{2}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{5}}}{\sqrt{\frac{C_{1}C_{3}}R_{1}R_{2}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{5}}}} (C_{1}R_{1}R_{2}-C_{1}R_{1}R_{5}-C_{3}R_{1}R_{5}-C_{3}R_{2}R_{5}-C_{4}R_{2}R_{5}+C_{5}R_{2}R_{5}})$$

$$\text{bandwidth: } \frac{\sqrt{\frac{-R_{2}+R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{5}}}{\sqrt{\frac{-R_{2}+R_{5}}{C_{3}+C_{4}-C_{5}}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}}} (C_{1}R_{1}R_{2}-C_{1}R_{1}R_{5}-C_{3}R_{1}R_{5}-C_{3}R_{2}R_{5}-C_{4}R_{2}R_{5}+C_{5}R_{2}R_{5}})$$

$$\text{bandwidth: } \frac{\sqrt{\frac{-R_{2}+R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{5}}}{\sqrt{\frac{-R_{2}+R_{5}}{C_{3}+C_{4}-C_{5}}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}+\frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}}{C_{3}+C_{4}-C_{5}}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}}{C_{3}+C_{4}-C_{5}}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{5}}{C_$$

11.178 X-INVALID-WZ-178 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_3C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_4R_5 + C_3C_6R_1R_4R_5 + C_3C_6R_1R_4$$

Parameters:

```
 Q: \frac{-\sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5} + \frac{R_4R_5}{C_3+C_4-C_5} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4-C_5}}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4-C_5}}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+R_2}}} - C_1R_1R_4R_5 - C_3R_1R_4R_5 - C_3R_2R_4R_5 - C_4R_2R_4R_5 + C_5R_2R_4R_5} - \sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4}} + \frac{R_2R_5}{C_3+C_4-C_5}}} - \sqrt{C_1}C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+R_2}} + \frac{R_2R_5}{C_3+C_4-C_5}}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+R_4}} + \frac{R_2R_5}{C_3+C_4-C_5}}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+R_4}} + \frac{R_2R_5}{C_3+C_4-C_5}}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4}} + \frac{R_2R_5}{C_3+C_4-C_5}}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4}} + \frac{R_2R_5}{C_3+C_4-C_5}}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4}} + \frac{R_2R_5}{C_3+C_4-C_5}}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4}} + \frac{R_2R_5}{C_3+C_4-C_5}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+C_4}} + \frac{R_2R_5}{C_3+C_4}}{C_3+C_4-C_5}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+R_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5} + \frac{R_2R_5}{C_3+C_4-C_5}} - \sqrt{C_1}C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+R_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} + \sqrt{C_1}C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_3+R_5}} + \frac{R_2R_5}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5} + \frac{R_2R_5}{C_3+C_4}}{C_3+C_4-C_5} + \frac{R_2R_5}{C_3+C_4-C_5} + \frac{R_2R_5}{C_3+C_4-C_5} + \frac{R_2R_5}{C_3+C_4-C_5}} + \frac{R_2R_5}{C_3+C_4-C_5} + \frac{R
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11.179 X-INVALID-WZ-179 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_3C_6R_1R_2R_3R_4 - C_1C_5C_6R_1R_2R_3R_4\right) + s\left(C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 - C_5C_6R_2R_3R_4\right)}$

Parameters:

$$Q: \frac{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3-C_5}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3-C_5}}}{C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_3R_1R_3R_4 - C_5R_2R_3R_4} \\ wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_1C_3R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}\\ bandwidth: \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4)\sqrt{\frac{1}{C_1C_3R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}}}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3-C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3-C_5}}}\\ K-LP: \frac{C_5R_1R_2R_4}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4}}{C_1C_3C_3C_5R_6}\\ K-BP: \frac{C_3C_5R_6}{C_1C_3 - C_1C_5}\\ K-BP: \frac{C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6}{C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 - C_5C_6R_2R_3R_4}}\\ Qz: None \\ Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$$

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11.180 X-INVALID-WZ-180 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)
                                                                  H(s) = \frac{1}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s^2\left(C_1C_3R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_
         Parameters:
                                                                                 \frac{\sqrt{\frac{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}C_{5}R_{1}R_{2}R_{3}R_{4}R_{5}}}(C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{5}-C_{1}R_{1}R_{2}R_{4}R_{5}-C_{1}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{2}R_{3}R_{4}R_{5}+C_{5}R_{2}R_{3}R_{4}R_{5}})}{-\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{3}-C_{5}}-\frac{R_{2}R_{3}R_{4}}{C_{3}-C_{5}}+\frac{R_{2}R_{4}R_{5}}{C_{3}-C_{5}}+\frac{R_{2}R_{4}R_{5}}{C_{3}-C_{5}}+\frac{R_{3}R_{4}R_{5}}{C_{3}-C_{5}}+\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{3}-C_{5}}-\frac{R_{2}R_{3}R_{4}}{C_{3}-C_{5}}+\frac{R_{2}R_{4}R_{5}}{C_{3}-C_{5}}+\frac{R_{3}R_{4}R_{5}}{C_{3}-C_{5}}}{R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}R_{3}R_{4}R_{5}-C_{3}R_{1}
                 \begin{array}{l} \text{K-BP:} \ \frac{-C_3R_1R_2R_3R_4R_6-C_5R_1R_2R_4R_5R_6}{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_1R_1R_3R_4R_5-C_3R_1R_3R_4R_5-C_3R_2R_3R_4R_5+C_5R_2R_3R_4R_5} \\ \text{Qz: None} \end{array} 
                Wz: \frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}
11.181 X-INVALID-WZ-181 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                  H(s) = \frac{C_3C_5C_6R_1R_2R_3R_6s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_5C_6R_1R_2R_6\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_1C_3C_6R_1R_2R_3 + C_1C_4C_6R_1R_2R_3 - C_1C_5C_6R_1R_2R_3\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_3 + C_3C_6R_1R_3 + C_3C_6R_2R_3 + C_4C_6R_2R_3 - C_5C_6R_2R_3\right)}
       Parameters:
                 \text{Q: } \frac{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}}{C_{1}R_{1}R_{2}+C_{1}R_{1}R_{3}+C_{3}R_{1}R_{3}+C_{3}R_{2}R_{3}+C_{4}R_{2}R_{3}-C_{5}R_{2}R_{3}}
                \text{wo: } \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_1 C_3 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3}} \\ \text{bandwidth: } \frac{\sqrt{R_1 + R_2 + R_3} (C_1 R_1 R_2 + C_1 R_1 R_3 + C_3 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3) \sqrt{\frac{1}{C_1 C_3 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3}}}{\sqrt{C_1 C_3} \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}} + \sqrt{C_1} C_4 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}} - \sqrt{C_1} C_5 \sqrt{R_1} \sqrt{R_2} \sqrt{R_3} \sqrt{R_1 + R_2 + R_3}} \sqrt{\frac{1}{C_3 + C_4 - C_5}}} \\
                K-LP: \frac{C_5R_1R_2}{C_6R_1+C_6R_2+C_6R_3}
K-HP: \frac{C_3C_5R_6}{C_1C_3+C_1C_4-C_1C_5}
             Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}
11.182 X-INVALID-WZ-182 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
                                                                                                                                      H(s) = \frac{C_3C_5R_1R_2R_3R_5R_6s^2 + R_1R_2R_6 + s\left(C_3R_1R_2R_3R_6 + C_5R_1R_2R_5R_6\right)}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_1C_3R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5 - C_1C_5R_1R_2R_3R_5\right) + s\left(-C_1R_1R_2R_3 + C_1R_1R_2R_5 + C_1R_1R_3R_5 + C_3R_1R_3R_5 + C_3R_2R_3R_5 + C_4R_2R_3R_5 - C_5R_2R_3R_5\right)}
         Parameters:
                 Q: \frac{-\sqrt{C_{1}}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{3}+C_{4}-C_{5}}} - \frac{R_{2}R_{3}}{C_{3}+C_{4}-C_{5}} + \frac{R_{2}R_{5}}{C_{3}+C_{4}-C_{5}} - \sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{2}R_{5}}{C_{3}+C_{4}-C_{5}}} + \sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{2}R_{3}}{C_{3}+C_{4}-C_{5}}} + \frac{R_{2}R_{3}}{C_{3}+C_{4}-C_{5}} + \frac{
                Wo: \sqrt{\frac{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5}{C_1C_3R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5 - C_1C_5R_1R_2R_3R_5}}
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 $Q: \frac{-\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}}\sqrt{\frac{R_1R_5}{C_3+C_4-C_5} - \frac{R_2R_3}{C_3+C_4-C_5} + \frac{R_2R_5}{C_3+C_4-C_5} - \frac{R_2R_3}{C_3+C_4-C_5} - \frac{R_2R_3}{C_3+C_4-C_5} + \frac{R_2R_5}{C_3+C_4-C_5} + \frac{$

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11.183 X-INVALID-WZ-183 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6\right)}{C_6R_1R_4 + C_6R_2R_3 + C_6R_2R_4 + C_6R_3R_4 + s^2\left(C_1C_3C_6R_1R_2R_3R_4 + C_1C_5C_6R_1R_2R_3R_4\right) + s\left(C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_3C_6R_3R_3R_4 + C_
          Parameters:
                                              \frac{\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}+\sqrt{C_{1}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\sqrt{C_{1}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{3}+C_{4}-C_{5}}}-\frac{1}{C_{1}R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}-\frac{1}{C_{1}R_{3}+R_{2}R_{4}+R_{
                       \text{wo: } \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4}} \\ \text{bandwidth: } \frac{\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4)}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}} - \sqrt{C_1C_5\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} + \sqrt{C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{C_3 + C_4 - C_5}}}} \\ \text{bandwidth: } \frac{1}{\sqrt{C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R
                       \begin{array}{l} \text{K-BP: } \frac{C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6}{C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_4C_6R_2R_3R_4 - C_5C_6R_2R_3R_4} \\ \text{Qz: None} \end{array} 
                       Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}
 11.184 X-INVALID-WZ-184 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)
 H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + s^2\left(C_1C_3R_1R_2R_3R_4R_5 + C_1C_5R_1R_2R_3R_4R_5\right) + s\left(-C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_4 + C_1R_1R_2R_3R_4R_5 + C_3R_1R_3R_4R_5 + C_3R_2R_3R_4R_5 + C_4R_2R_3R_4R_5 - C_5R_2R_3R_4\right)}
          Parameters:
                      Q: \frac{-\sqrt{C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{4}}{C_{3}+C_{4}-C_{5}} + \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{4}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{4}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{4}}{C_{3}+C_{4}-C_{5}} + \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} - \frac{R_{2}R_{3}R_{4}}{C_{3}+C_{4}-C_{5}} + \frac{R_{2}R_{3}R_{5}}{C_{3}+C_{4}-C_{5}} + \frac{R_{2}R_{3}R_{5}}{C_{3}
                      Wo: \sqrt{\frac{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{C_1C_3R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4R_5}}
                     \frac{\sqrt{\frac{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}}{C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}C_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{4}-C_{1}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{1}R_{1}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{1}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3}R_{4}R_{5}-C_{2}R_{2}R_{3
                   K-LP: \frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}
K-HP: \frac{C_3C_5R_6}{C_1C_3 + C_1C_4 - C_1C_5}
                      \begin{array}{l} \text{K-BP:} \ \frac{-C_3R_1R_2R_3R_4-C_5R_1R_2R_4R_5R_6}{C_1R_1R_2R_3R_4-C_1R_1R_2R_3R_5-C_1R_1R_2R_4R_5-C_3R_1R_3R_4R_5-C_3R_2R_3R_4R_5-C_4R_2R_3R_4R_5+C_5R_2R_3R_4R_5} \\ \text{Qz: None} \end{array} 
                      Wz: \frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}
 11.185 X-INVALID-WZ-185 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                   H(s) = \frac{C_3C_5C_6R_1R_4R_5R_6s^2 + C_3R_1R_4 + s\left(C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 - C_1C_5C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 - C_5C_6R_4R_5\right)}
            Parameters:
                       Q: \frac{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} -C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}
                      wo: \sqrt{\frac{-R_4 + R_5}{C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 - C_1 C_5 R_1 R_4 R_5 + C_2 C_3 R_1 R_4 R_5}
                      \frac{-\frac{-R_4 + R_5}{\sqrt{C_1 C_2 R_1 R_4 R_5 + C_1 C_3 R_1 R_4 R_5 - C_1 C_5 R_1 R_4 R_5 - C_2 R_4 R_5 - C_3 R_4 R_5 + C_5 R_4 R_5)}{-C_1 C_2 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} - C_1 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{R_4}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}{C_1 C_3 - C_1 C_5 + C_2 C_3}}} - C_2 C_3 \sqrt{R_1} \sqrt{R_4} \sqrt{R_5} \sqrt{-\frac{
                      \begin{array}{lll} \text{K-HP:} & \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} \\ \text{K-BP:} & \frac{-C_3C_5R_1R_4R_5-C_3C_6R_1R_4R_6}{C_1C_6R_1R_4-C_1C_6R_1R_5-C_2C_6R_4R_5-C_3C_6R_4R_5+C_5C_6R_4R_5} \end{array}
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Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.186 X-INVALID-WZ-186
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$$

$$H(s) = \frac{C_3C_5C_6R_1R_5R_6s^2 + C_3R_1 + s\left(C_3C_5R_1R_5 + C_3C_6R_1R_6\right)}{-C_6 + s^2\left(C_1C_2C_6R_1R_5 + C_1C_3C_6R_1R_5 + C_1C_4C_6R_1R_5 - C_1C_5C_6R_1R_5 + C_2C_3C_6R_1R_5\right) + s\left(-C_1C_6R_1 + C_2C_6R_5 + C_3C_6R_5 + C_4C_6R_5 - C_5C_6R_5\right)}$$

 $-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{5}}\sqrt{-\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_$ Wo: $\sqrt{-\frac{1}{C_1C_2R_1R_5+C_1C_3R_1R_5+C_1C_4R_1R_5-C_1C_5R_1R_5+C_2C_3R_1R_5}}$

 $\text{bandwidth: } \frac{\sqrt{-\frac{1}{C_1C_2R_1R_5+C_1C_3R_1R_5+C_1C_5R_1R_5+C_2C_3R_1R_5}}(C_1R_1-C_2R_5-C_3R_5-C_4R_5+C_5R_5)}{-C_1C_2\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_1C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_1C_4\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_1C_5\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_1C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}+C_1C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_5}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{R_1}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{R_1}\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}-C_2C_3\sqrt{-\frac{1}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}}-C_2C_3\sqrt{-\frac{1}{C_$

K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}$ K-BP: $\frac{-C_3C_5R_1R_5-C_3C_6R_1R_6}{C_1C_6R_1-C_2C_6R_5-C_3C_6R_5-C_4C_6R_5+C_5C_6R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

11.187 X-INVALID-WZ-187 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_4C_5C_6R_1R_4R_6s^2 + C_3C_5R_1 + s\left(C_3C_4C_5R_1R_4 + C_3C_5C_6R_1R_6\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_1C_2C_4C_6R_1R_4 + C_1C_3C_4C_6R_1R_4 + C_2C_3C_4C_6R_1R_4\right) + s\left(C_1C_2C_6R_1 + C_1C_4C_6R_1 - C_1C_5C_6R_1 + C_2C_3C_6R_1 + C_2C_4C_6R_4 + C_3C_4C_6R_4 - C_4C_5C_6R_4\right)}$$

Parameters:

 $O: \frac{C_1C_2\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{C_2}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + \frac{C_3}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} - \frac{C_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + C_1C_3\sqrt{C_4}\sqrt{R_1}\sqrt{R_4}\sqrt{\frac{C_2}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + \frac{C_3}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{C_4}{C_$

wo: $\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_1 C_2 C_4 R_1 R_4 + C_1 C_3 C_4 R_1 R_4 - C_1 C_4 C_5 R_1 R_4 + C_2 C_3 C_4 R_1 R_4}$

 $\sqrt{\frac{C_2 + C_3 + C_4 - C_5}{C_1 C_2 C_4 R_1 R_4 + C_1 C_3 C_4 R_1 R_4 - C_1 C_4 C_5 R_1 R_4 + C_2 C_3 C_4 R_1 R_4}} (C_1 C_2 R_1 + C_1 C_3 R_1 + C_1 C_4 R_1 - C_1 C_5 R_1 + C_2 C_3 R_1 + C_2 C_4 R_4 + C_1 C_5 R_1 + C_2 C_3 R_1 + C_2 C_4 R_4 + C_1 C_5 R_1 + C_2 C_3 R_1 + C_2 C_4 R_1 R_4 + C_1 C_5 R_1 + C_2 C_3 R_1 + C_2 C_$ $\frac{\sqrt{\frac{C_1C_2C_4R_1R_4+C_1C_3$

K-LP: $\frac{C_3C_5R_1}{C_2C_6+C_3C_6+C_4C_6-C_5C_6}$ K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}$

 $\begin{array}{l} \text{K-BP:} \ \frac{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}{C_{1}C_{2}C_{6}R_{1}+C_{1}C_{3}C_{6}R_{1}+C_{1}C_{5}C_{6}R_{1}+C_{2}C_{3}C_{6}R_{1}+C_{2}C_{3}C_{6}R_{1}+C_{2}C_{4}C_{6}R_{4}+C_{3}C_{4}C_{6}R_{4}-C_{4}C_{5}C_{6}R_{4}}\\ \text{Qz:} \ \ \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_4}\sqrt{C_6}\sqrt{R_4}\sqrt{R_6}}$

11.188 X-INVALID-WZ-188 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_4R_5R_6s^2 + C_3R_1R_4 + s\left(C_3C_5R_1R_4R_5 + C_3C_6R_1R_4R_6\right)}{-C_6R_4 + C_6R_5 + s^2\left(C_1C_2C_6R_1R_4R_5 + C_1C_3C_6R_1R_4R_5 + C_1C_5C_6R_1R_4R_5 + C_2C_3C_6R_1R_4R_5\right) + s\left(-C_1C_6R_1R_4 + C_1C_6R_1R_5 + C_2C_6R_4R_5 + C_3C_6R_4R_5 + C_3C_6R_4R_5$

Parameters:

 $Q: \frac{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} - C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{1}R_{4}}$ Wo: $\sqrt{\frac{-R_4+R_5}{C_1C_2R_1R_4R_5+C_1C_3R_1R_4R_5+C_1C_4R_1R_4R_5-C_1C_5R_1R_4R_5+C_2C_3R_1R_4R_5}}$

 $\sqrt{\frac{-R_4+R_5}{C_1C_2R_1R_4R_5+C_1C_3R_1R_4R_5+C_1C_4R_1R_4R_5-C_1C_5R_1R_4R_5+C_2C_3R_1R_4R_5}}(C_1R_1R_4-C_1R_1R_5-C_2R_4R_5-C_3R_4R_5-C_4R_4R_5+C_5R_4R_5)$ $\frac{\sqrt{C_1C_2R_1R_4R_5+C_1C_3}R_4}{-C_1C_2\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_4\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_4\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_4\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_2}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_2}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_1}\sqrt{R_1}\sqrt{R_2}\sqrt{-\frac{R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + C_1C_5\sqrt{R_1}\sqrt{R_1$

 $\begin{array}{c} & C_{1}C_{2}V_{R_{1}}V_{R_{4}}V_{R_{5}}V_{}^{-}\overline{c_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}^{+}+\overline{c_{1}C_{2}+C_{1}C_{1}}C_{5}\\ K_{-}LP: & -\frac{C_{3}R_{1}R_{4}}{C_{6}R_{4}-C_{6}R_{5}}\\ K_{-}HP: & \frac{C_{3}C_{5}R_{6}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}^{-}\\ K_{-}BP: & \frac{C_{3}C_{5}R_{1}}{C_{1}C_{6}R_{1}R_{4}-C_{1}C_{6}R_{1}R_{5}-C_{2}C_{6}R_{4}R_{5}-C_{3}C_{6}R_{1}R_{4}R_{6}}^{-}\\ Qz: & None \\ & W & \stackrel{1}{\longrightarrow} \end{array}$

Wz: $\frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}$

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11.189 X-INVALID-WZ-189 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
```

$$H(s) = \frac{C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s\left(C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_2C_3C_6R_1R_3R_4\right) + s\left(C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 + C_3C_6R_3R_4\right)}$$

 $\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{3}+R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R$

wo: $\sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 + C_1 C_3 R_1 R_3 R_4 - C_1 C_5 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4}}$

 $\text{bandwidth: } \frac{\sqrt{R_3 + R_4}(C_1 R_1 R_3 + C_1 R_1 R_4 + C_2 R_1 R_4 + C_2 R_3 R_4 + C_3 R_3 R_4 - C_5 R_3 R_4) \sqrt{\frac{1}{C_1 C_2 R_1 R_3 R_4 + C_1 C_5 R_1 R_3 R_4 + C_2 C_3 R_1 R_3 R_4}}{C_1 C_2 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_1 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} - C_1 C_5 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4}} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4}} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4}} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4}} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4}} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4}} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_3} \sqrt{R_4} \sqrt{R_3 + R_4}} \sqrt{\frac{1}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3}} + C_2 C_3 \sqrt{R_1} \sqrt{R_1} \sqrt{R_2} \sqrt{R_1} \sqrt{R_2} \sqrt{R_1} \sqrt{R_2} \sqrt{R_1} \sqrt{R_2} \sqrt$

K-HP: $\frac{C_3R_5 + C_3R_6}{C_1C_2 + C_1C_3 - C_1C_5 + C_2C_3}$ K-BP: $\frac{C_3C_5R_1}{C_1C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 - C_5C_6R_3R_4}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.190 X-INVALID-WZ-190 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)$

$$H(s) = \frac{C_3C_5R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_6 + C_5R_1R_4R_5R_6\right)}{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_1C_2R_1R_3R_4R_5 + C_1C_3R_1R_3R_4R_5 + C_2C_3R_1R_3R_4R_5\right) + s\left(-C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 - C_5R_3R_4R_5\right)}$$

Parameters:

 $Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_4}{C_1C_2$

Wo: $\sqrt{\frac{-R_3R_4+R_3R_5+R_4R_5}{C_1C_2R_1R_3R_4R_5+C_1C_3R_1R_3R_4R_5-C_1C_5R_1R_3R_4R_5+C_2C_3R_1R_3R_4R_5}}$

 $\frac{-R_3R_4+R_3R_5+R_4R_5}{\sqrt{C_1C_2R_1R_3R_4R_5+C_1C_3R_1R_3R_4R_5-C_1R_1R_4R_5-C_2R_1R_4R_5-C_2R_3R_4R_5-C_2R_3R_4R_5-C_3R_3R_4R_5+C_5R_3R_4R_5)}} -C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_$

K-LP: $-\frac{R_1R_4R_6}{R_3R_4-R_3R_5-R_4R_5}$

K-HP: $\frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}$ K-BP: $\frac{-C_3R_1R_3R_4R_6-C_5R_1R_4R_5R_6}{C_1R_1R_3R_4-C_1R_1R_3R_5-C_1R_1R_4R_5-C_2R_1R_4R_5-C_2R_3R_4R_5-C_3R_3R_4R_5+C_5R_3R_4R_5}$ Qz: None

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.191 X-INVALID-WZ-191 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_3R_6s^2 + C_5R_1 + s\left(C_3C_5R_1R_3 + C_5C_6R_1R_6\right)}{C_6 + s^2\left(C_1C_2C_6R_1R_3 + C_1C_3C_6R_1R_3 + C_1C_5C_6R_1R_3 + C_2C_3C_6R_1R_3\right) + s\left(C_1C_6R_1 + C_2C_6R_1 + C_2C_6R_3 + C_3C_6R_3 + C_4C_6R_3 - C_5C_6R_3\right)}$$

Parameters:

 $Q: \underbrace{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{1}+C_{2}R_{1}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R$

Wo: $\sqrt{\frac{1}{C_1C_2R_1R_3+C_1C_3R_1R_3+C_1C_4R_1R_3-C_1C_5R_1R_3+C_2C_3R_1R_3}}$

 $\text{bandwidth: } \frac{(C_1R_1 + C_2R_3 + C_3R_3 + C_4R_3 - C_5R_3)\sqrt{\frac{1}{C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_2C_3R_1R_3}}{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{\frac{1}{C_1C_2 + C_1C_3 + C$

K-LP: $\frac{C_5 R_1}{C_6}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

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11.192 X-INVALID-WZ-192 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6\right)
```

$$H(s) = \frac{C_3C_5R_1R_3R_5R_6s^2 + R_1R_6 + s\left(C_3R_1R_3R_6 + C_5R_1R_5R_6\right)}{-R_3 + R_5 + s^2\left(C_1C_2R_1R_3R_5 + C_1C_3R_1R_3R_5 + C_1C_4R_1R_3R_5 - C_1C_5R_1R_3R_5 + C_2C_3R_1R_3R_5\right) + s\left(-C_1R_1R_3 + C_1R_1R_5 + C_2R_1R_5 + C_2R_3R_5 + C_3R_3R_5 + C_4R_3R_5 - C_5R_3R_5\right)}$$

 $-\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}}-C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}}{C_{1}C_{4}+C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{4}\sqrt{R_{1}}\sqrt{R$

 $\sqrt{\frac{-R_3+R_5}{C_1C_2R_1R_3R_5+C_1C_3R_1R_3R_5+C_1C_4R_1R_3R_5-C_1C_5R_1R_3R_5+C_2C_3R_1R_3R_5}}(C_1R_1R_3-C_1R_1R_5-C_2R_1R_5-C_2R_3R_5-C_3R_3R_5-C_4R_3R_5+C_5R_3R_5)$ $\frac{\sqrt{-C_1C_2N_1N_3N_5+C_1C_3N_1N_3N_1N_5+C_1C_3N_1N_3N_1N_5+C_1C_3N_1N_3N_1N_5+C_1C_3N_1N_3N_1N_5+C_1C_3N_1N_3N_1N_5+C_1C_3N_$

 $\begin{array}{l} \text{K-HP:} \quad \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \\ \text{K-BP:} \quad \frac{-C_3R_1R_3R_6-C_5R_1R_5R_6}{C_1R_1R_3-C_1R_1R_5-C_2R_1R_5-C_2R_3R_5-C_3R_3R_5-C_4R_3R_5+C_5R_3R_5} \end{array}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

11.193 X-INVALID-WZ-193 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)$

$$H(s) = \frac{C_3C_5C_6R_1R_3R_4R_6s^2 + C_5R_1R_4 + s\left(C_3C_5R_1R_3R_4 + C_5C_6R_1R_4R_6\right)}{C_6R_3 + C_6R_4 + s^2\left(C_1C_2C_6R_1R_3R_4 + C_1C_3C_6R_1R_3R_4 + C_1C_5C_6R_1R_3R_4 + C_2C_3C_6R_1R_3R_4 + C_2C_6R_1R_3 + C_1C_6R_1R_4 + C_2C_6R_1R_4 + C_2C_6R_3R_4 + C_3C_6R_3R_4 + C_3C$$

Parameters:

 $Q: \frac{{{C_1}{C_2}\sqrt {{R_1}}\sqrt {{R_3}}\sqrt {{R_4}}\sqrt {{R_3} + {R_4}}\sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}} + {{C_1}{C_3}\sqrt {{R_1}}\sqrt {{R_3}}\sqrt {{R_4}}\sqrt {{R_3} + {R_4}}\sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}} + {{C_2}\sqrt {{R_1}}\sqrt {{R_3}}\sqrt {{R_4}}\sqrt {{R_3} + {R_4}}\sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}} - {{C_1}{C_3}\sqrt {{R_1}}\sqrt {{R_3}}\sqrt {{R_4}}\sqrt {{R_3} + {R_4}}\sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}} + {{C_2}\sqrt {{R_1}}\sqrt {{R_3}}\sqrt {{R_4}}\sqrt {{R_3} + {R_4}}\sqrt {\frac{1}{{{C_1}{C_2} + {C_1}{C_3} + {C_1}{C_4} - {C_1}{C_5} + {C_2}{C_3}}}} - {{C_1}\sqrt {{C_1$

 $\frac{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_3+R_4}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_$

 $\begin{array}{l} \text{K-HP:} \ \frac{C_{6}R_{3}+C_{6}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} \\ \text{K-BP:} \ \frac{C_{3}C_{5}R_{6}}{C_{1}C_{6}R_{1}R_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} \\ \text{Qz:} \ \text{None} \end{array}$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}$

11.194 X-INVALID-WZ-194 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6\right)$

 $C_3C_5R_1R_3R_4R_5R_6s^2 + R_1R_4R_6 + s\left(C_3R_1R_3R_4R_6 + C_5R_1R_4R_5R_6\right)$

 $\overline{-R_3R_4 + R_3R_5 + R_4R_5 + s^2\left(C_1C_2R_1R_3R_4R_5 + C_1C_3R_1R_3R_4R_5 + C_1C_4R_1R_3R_4R_5 + C_2C_3R_1R_3R_4R_5 + C_1R_1R_3R_4 + C_1R_1R_3R_5 + C_1R_1R_4R_5 + C_2R_1R_4R_5 + C_2R_3R_4R_5 + C_3R_3R_4R_5 + C_4R_3R_4R_5 + C_4R_$

Parameters:

 $O: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_3R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}{+\frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_5+C_1C_$

Wo: $\sqrt{\frac{-R_3R_4+R_3R_5+R_4R_5}{C_1C_2R_1R_3R_4R_5+C_1C_3R_1R_3R_4R_5+C_1C_4R_1R_3R_4R_5-C_1C_5R_1R_3R_4R_5+C_2C_3R_1R_3R_4R_5}$

 $\frac{R_{3}R_{4}}{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} - C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} - C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} - C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} - C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{3}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + \frac{R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

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11.195 X-INVALID-WZ-195 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                    H(s) = \frac{C_2C_3C_5C_6R_1R_2R_6s^2 + C_3C_5R_1 + s\left(C_2C_3C_5R_1R_2 + C_3C_5C_6R_1R_6\right)}{C_2C_6 + C_3C_6 + C_4C_6 - C_5C_6 + s^2\left(C_1C_2C_3C_6R_1R_2 + C_1C_2C_4C_6R_1R_2\right) + s\left(C_1C_2C_6R_1 + C_1C_3C_6R_1 + C_1C_3C_6R_1 + C_2C_3C_6R_1 + C_2C_3C_6R_1 + C_2C_3C_6R_2 + C_2C_4C_6R_2 - C_2C_5C_6R_2\right)}
             Parameters:
                         Q: \frac{\sqrt{C_{1}}\sqrt{C_{2}}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{C_{2}}{C_{3}+C_{4}-C_{5}}} + \frac{C_{3}}{C_{3}+C_{4}-C_{5}} + \frac{C_{4}}{C_{3}+C_{4}-C_{5}}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{1}\sqrt{C_{2}}C_{4}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{C_{2}}{C_{3}+C_{4}-C_{5}}} + \frac{C_{4}}{C_{3}+C_{4}-C_{5}}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}} - \sqrt{C_{1}}\sqrt{C_{2}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{C_{2}}{C_{3}+C_{4}-C_{5}}} + \frac{C_{3}}{C_{3}+C_{4}-C_{5}}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{1}\sqrt{C_{2}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{C_{2}}{C_{3}+C_{4}-C_{5}}}} - \frac{C_{3}}{C_{3}+C_{4}-C_{5}}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{1}\sqrt{C_{2}}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{\frac{C_{2}}{C_{3}+C_{4}-C_{5}}}} - \frac{C_{3}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5}}{C_{3}+C_{4}-C_{5}} - \frac{C_{5
                         \text{bandwidth: } \frac{\frac{C_2 + C_3 + C_4 - C_5}{\sqrt{C_1 C_2 C_3 R_1 R_2 + C_1 C_2 C_4 R_1 R_2 - C_1 C_2 C_5 R_1 R_2}}}{\sqrt{C_1 C_2 C_3 R_1 R_2 + C_1 C_2 C_4 R_1 R_2 - C_1 C_2 C_5 R_1 R_2}} (C_1 C_2 R_1 + C_1 C_3 R_1 + C_1 C_4 R_1 - C_1 C_5 R_1 + C_2 C_3 R_2 + C_2 C_4 R_2 - C_2 C_5 R_2}) \\ \frac{C_2}{\sqrt{C_1 C_2 C_3 \sqrt{R_1} \sqrt{R_2} \sqrt{\frac{C_2}{C_3 + C_4 - C_5} + \frac{C_3}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_3}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_3}{C_3 + C_4 - C_5} + \frac{C_4}{C_3 + C_4 - C_5} + \frac{C_5}{C_3 
                         \begin{array}{l} \text{K-BP: } \frac{C_1C_3C_5R_1R_2+C_3C_5C_6R_1R_6}{C_1C_2C_6R_1+C_1C_3C_6R_1+C_1C_4C_6R_1-C_1C_5C_6R_1+C_2C_3C_6R_1+C_2C_3C_6R_2+C_2C_4C_6R_2-C_2C_5C_6R_2} \\ \text{Qz: None} \end{array} 
                         Wz: \frac{1}{\sqrt{C_2}\sqrt{C_6}\sqrt{R_2}\sqrt{R_6}}
 11.196 X-INVALID-WZ-196 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)
                  H(s) = \frac{C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s\left(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6\right)}{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5\right) + s\left(-C_1C_6R_1R_2R_4 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_4R_5 + C_1C_6
             Parameters:
                        Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{R_
                        wo: \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5-C_1C_5R_1R_2R_4R_5+C_2C_3R_1R_2R_4R_5}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \sqrt{\frac{-R_2R_4+R_2R_5+R_4R_5}{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_2C_3R_1R_2R_4R_5}}(C_1R_1R_2R_4-C_1R_1R_2R_5-C_1R_1R_4R_5-C_2R_2R_4R_5-C_3R_1R_4R_5-C_3R_2R_4R_5+C_5R_2R_4R_5)
                        \frac{\sqrt{C_1C_2R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5+C_1C_3R_1R_2R_4R_5}{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}} + \frac{R_2R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3-C_
                        \begin{aligned} \text{K-LP:} & - \frac{C_3 R_1 R_2 R_4}{C_6 R_2 R_4 - C_6 R_2 R_5 - C_6 R_4 R_5} \\ \text{K-HP:} & \frac{C_3 C_5 R_6}{C_1 C_2 + C_1 C_3 - C_1 C_5 + C_2 C_3} \end{aligned} 
                         \text{K-BP: } \frac{-C_3C_5R_1R_2R_4R_5 - C_3C_6R_1R_2R_4R_6}{C_1C_6R_1R_2R_4 - C_1C_6R_1R_2R_5 - C_1C_6R_1R_4R_5 - C_2C_6R_2R_4R_5 - C_3C_6R_1R_4R_5 - C_3C_6R_2R_4R_5 - C_3C_6R_2
                        Wz: \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}
```

11.197 X-INVALID-WZ-197 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, R_6 + \frac{1}{C_6 s}\right)$

 $H(s) = \frac{C_3C_5C_6R_1R_2R_5R_6s^2 + C_3R_1R_2 + s\left(C_3C_5R_1R_2R_5 + C_3C_6R_1R_2R_6\right)}{-C_6R_2 + C_6R_5 + s^2\left(C_1C_2C_6R_1R_2R_5 + C_1C_3C_6R_1R_2R_5 + C_1C_5C_6R_1R_2R_5 + C_2C_3C_6R_1R_2R_5\right) + s\left(-C_1C_6R_1R_2 + C_1C_6R_1R_5 + C_2C_6R_2R_5 + C_3C_6R_1R_5 + C_3C_6R_2R_5 + C_3C_6R_2R_5\right)}$

Parameters:

 $Q: \frac{-c_1c_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} + \frac{R_3}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} - - c_1c_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} + c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} - c_1c_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} + c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} - c_1c_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} + c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} - c_1c_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} + c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} - c_1c_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} + c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} - c_1c_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_5}\sqrt{-\frac{R_2}{c_1$

```
C_3C_5C_6R_1R_2R_4R_5R_6s^2 + C_3R_1R_2R_4 + s(C_3C_5R_1R_2R_4R_5 + C_3C_6R_1R_2R_4R_6)
                                                                   \overline{-C_6R_2R_4 + C_6R_2R_5 + C_6R_4R_5 + s^2\left(C_1C_2C_6R_1R_2R_4R_5 + C_1C_3C_6R_1R_2R_4R_5 + C_1C_4C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + C_2C_3C_6R_1R_2R_4R_5 + C_1C_6R_1R_2R_4 + C_1C_6R_
           Parameters:
                                                     -C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}-C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{-\frac{R_{2}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3
                                                                                                                                  -\frac{R_2R_4}{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_4}\sqrt{R_5}\sqrt{-\frac{R_2R_4}{C_1C_2+C_1C_3+C_1C_5+C_2C_3}} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_5+C_2C_3} + \frac{R_4R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3
                          K-LP: -\frac{C_3R_1R_2R_4}{C_6R_2R_4-C_6R_2R_5-C_6R_4R_5}
                          K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}
                           \begin{array}{c} -C_3C_5R_1R_2R_4R_5 - C_3C_6R_1R_2R_4R_6 \\ \hline C_1C_6R_1R_2R_4 - C_1C_6R_1R_2R_5 - C_1C_6R_1R_4R_5 - C_2C_6R_2R_4R_5 - C_3C_6R_1R_4R_5 - C_3C_6R_2R_4R_5 - C_3C_6R_2R_4R_5 - C_4C_6R_2R_4R_5 - C_4C_6R_2R_4R
                            Wz: \frac{1}{\sqrt{C_5}\sqrt{C_6}\sqrt{R_5}\sqrt{R_6}}
11.199 X-INVALID-WZ-199 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{1}{C_5s}, R_6 + \frac{1}{C_6s}\right)
H(s) = \frac{C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s\left(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_3R_4 + C_5C_6R_1R_2R
           Parameters:
                                                 : \frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{
                          wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} (C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 - C_5R_2R_3R_4) \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4 + C_3R_2R_3R_4 + C_3R_3R_3R_4 + C_3R_3R_3R_
                          \frac{1}{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}+C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}
                          K-LP: \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4}
                         K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}
                        \text{K-BP:} \begin{array}{l} \frac{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}{C_{3}C_{5}R_{1}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{1}R_{2}R_{4}R_{6}} \\ \text{K-BP:} \\ \frac{C_{3}C_{5}R_{1}R_{2}R_{3}+C_{1}C_{6}R_{1}R_{2}R_{4}+C_{1}C_{6}R_{1}R_{3}R_{4}+C_{2}C_{6}R_{1}R_{2}R_{4}+C_{2}C_{6}R_{2}R_{3}R_{4}+C_{3}C_{6}R_{1}R_{3}R_{4}+C_{3}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C_{6}R_{2}R_{3}R_{4}+C_{5}C
                          Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}
11.200 X-INVALID-WZ-200 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, R_6\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)
                                                                   \overline{R_{1}R_{4}R_{5}-R_{2}R_{3}R_{4}+R_{2}R_{3}R_{5}+R_{2}R_{4}R_{5}+R_{3}R_{4}R_{5}+s^{2}\left(C_{1}C_{2}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{1}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}+C_{2}C_{3}R_{1}R_{2}R_{3}R_{4}R_{5}\right)+s\left(-C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{4}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R_{5}+C_{1}R_{1}R_{2}R_{3}R
           Parameters:
                            O: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}-\frac{R_2R_3R_4}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_3R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_3R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}-C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}-\frac{R_2R_3R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+\frac{R_2R_3R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}-C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}-\frac{R_2R_3R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}}+\frac{R_2R_3R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_5+C_2C_3}+\frac{R_2R_4R_5}{C_1C_2+C_1C_3-C_1C_
                          Wo: \sqrt{\frac{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}{C_1C_2R_1R_2R_3R_4R_5 + C_1C_3R_1R_2R_3R_4R_5 - C_1C_5R_1R_2R_3R_4R_5 + C_2C_3R_1R_2R_3R_4R_5}}
                                                                                                                              -C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}}-\frac{R_{2}R_{3}R_{4}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}-C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}
                          K-LP: \frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}
                           \underbrace{ \begin{array}{c} -C_3R_1R_2R_3R_4R_6 - C_5R_1R_2R_4R_5R_6 \\ \hline C_1R_1R_2R_3R_4 - C_1R_1R_2R_3R_5 - C_1R_1R_2R_4R_5 - C_1R_1R_3R_4R_5 - C_2R_1R_2R_4R_5 - C_2R_2R_3R_4R_5 - C_3R_1R_3R_4R_5 - C_3R_2R_3R_4R_5 \\ \hline \end{array} }_{ \begin{array}{c} -C_3R_1R_2R_3R_4R_6 - C_5R_1R_2R_4R_5R_6 \\ \hline \end{array} } 
                              Qz: None
                          Wz: \frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}
```

11.198 X-INVALID-WZ-198 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, R_6 + \frac{1}{C_6s}\right)$

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11.201 X-INVALID-WZ-201 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                        H(s) = \frac{C_3C_5C_6R_1R_2R_3R_6s^2 + C_5R_1R_2 + s\left(C_3C_5R_1R_2R_3 + C_5C_6R_1R_2R_6\right)}{C_6R_1 + C_6R_2 + C_6R_3 + s^2\left(C_1C_2C_6R_1R_2R_3 + C_1C_3C_6R_1R_2R_3 + C_1C_5C_6R_1R_2R_3 + C_2C_3C_6R_1R_2R_3\right) + s\left(C_1C_6R_1R_2 + C_1C_6R_1R_2 + C_2C_6R_1R_2 + C_2C_
           Parameters:
                                                + \underbrace{\frac{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}{C_{1}R_{1}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{1}+R_{2}+R_{3}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} + C_{2}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2}}\sqrt{R_{2
                          wo: \sqrt{R_1 + R_2 + R_3} \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_3 + C_1 C_3 R_1 R_2 R_3 + C_1 C_4 R_1 R_2 R_3 - C_1 C_5 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \sqrt{R_1 + R_2 + R_3} (C_1 R_1 R_2 + C_1 R_1 R_3 + C_2 R_1 R_2 + C_2 R_2 R_3 + C_3 R_1 R_3 + C_3 R_2 R_3 + C_4 R_2 R_3 - C_5 R_2 R_3) \sqrt{\frac{1}{C_1 C_2 R_1 R_2 R_3 + C_1 C_3 R_1 R_2 R_3 + C_1 C_5 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3}{\frac{1}{C_1 C_2 R_1 R_2 R_3 + C_1 C_3 R_1 R_2 R_3 + C_1 C_5 R_1 R_2 R_3 + C_2 C_3 R_1 R_2 R_3}}
                          \frac{\sqrt{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}}}{C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_1C_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_1+R_2+R_3}\sqrt{\frac{1}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} + C_2C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt{R_2}\sqrt
                         K-HP: \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} K-BP: \frac{C_3C_5R_1R_2+C_1C_4-C_1C_5+C_2C_3}{C_1C_6R_1R_2+C_1C_6R_1R_3+C_2C_6R_1R_2+C_2C_6R_2R_3+C_3C_6R_1R_3+C_3C_6R_2R_3+C_4C_6R_2R_3-C_5C_6R_2R_3} Qz: None
                           Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}
 11.202 X-INVALID-WZ-202 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, R_6\right)
 H(s) = \frac{C_3C_5R_1R_2R_3R_5R_6s^2 + R_1R_2R_6 + s\left(C_3R_1R_2R_3R_6 + C_5R_1R_2R_5R_6\right)}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5 + s^2\left(C_1C_2R_1R_2R_3R_5 + C_1C_3R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5 + C_2C_3R_1R_2R_3R_5\right) + s\left(-C_1R_1R_2R_3 + C_1R_1R_2R_5 + C_1R_1R_3R_5 + C_2R_1R_2R_5 + C_3R_1R_3R_5 + C_3R_1R_3R
           Parameters:
                          O: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{\frac{R_1R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - \frac{R_2R_3}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_5}\sqrt{\frac{R_1R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - \frac{R_2R_3}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} - \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} - \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_5}{C_1C_2+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1C_3+C_1
                          Wo: \sqrt{\frac{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5}{C_1C_2R_1R_2R_3R_5 + C_1C_3R_1R_2R_3R_5 + C_1C_4R_1R_2R_3R_5 - C_1C_5R_1R_2R_3R_5 + C_2C_3R_1R_2R_3R_5}}
                                                                                                                       -C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - \frac{R_{2}R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} - C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}} - \frac{R_{2}R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} - C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} - \frac{R_{2}R_{3}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}} + \frac{R_{2}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}} + \frac{R
                         K-LP: \frac{R_1R_2R_6}{R_1R_5 - R_2R_3 + R_2R_5 + R_3R_5}
K-HP: \frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}
                        \begin{array}{l} \text{K-BP:} \ \frac{-C_3R_1R_2R_3R_6 - C_5R_1R_2R_5R_6}{C_1R_1R_2R_3 - C_1R_1R_2R_5 - C_1R_1R_3R_5 - C_2R_1R_2R_5 - C_3R_1R_3R_5 - C_3R_1R_3R_5 - C_3R_1R_3R_5 - C_3R_2R_3R_5 - C_4R_2R_3R_5 + C_5R_2R_3R_5} \\ \text{Qz: None} \ \ . \end{array} 
                          Wz: \frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}
 11.203 X-INVALID-WZ-203 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, R_6 + \frac{1}{C_6 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_3C_5C_6R_1R_2R_3R_4R_6s^2 + C_5R_1R_2R_4 + s(C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6)
 H(s) = \frac{1}{C_{6}R_{1}R_{4} + C_{6}R_{2}R_{3} + C_{6}R_{2}R_{4} + C_{6}R_{3}R_{4} + S^{2}\left(C_{1}C_{2}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{3}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{5}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{1}R_{2}R_{3}R_{4} + C_{1}C_{6}R_{1}R_{2}R_{3
           Parameters:
                           Q: \frac{c_1c_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3} + c_1c_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3}} + c_1c_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1R_4} + R_2R_3 + R_2R_4 + R_3R_4}\sqrt{\frac{1}{c_1c_2+c_1c_3+c_1c_4-c_1c_5+c_2c_3}} + c_1c_4\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_1}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R_4}\sqrt{R
                          wo: \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4} \sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1C_5R_1R_2R_3R_4 + C_2C_3R_1R_2R_3R_4}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \sqrt{R_1R_4 + R_2R_3 + R_2R_4 + R_3R_4}(C_1R_1R_2R_3 + C_1R_1R_2R_4 + C_1R_1R_3R_4 + C_2R_1R_2R_4 + C_2R_2R_3R_4 + C_3R_1R_3R_4 + C_3R_2R_3R_4 + C_4R_2R_3R_4 - C_5R_2R_3R_4)\sqrt{\frac{1}{C_1C_2R_1R_2R_3R_4 + C_1C_3R_1R_2R_3R_4 + C_1C_4R_1R_2R_3R_4 - C_1R_2R_3R_4 + C_1R_3R_4 
                          \frac{\text{bandwidth:}}{C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}+C_{1}C_{3}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{1}R_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+R_{2}R_{3}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+R_{1}C_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}-C_{1}C_{5}\sqrt{R_{1}}\sqrt{R_{1}C_{4}+R_{2}R_{4}+R_{3}R_{4}}\sqrt{\frac{1}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}
                          \begin{array}{l} \text{K-LP: } \frac{C_5R_1R_2R_4}{C_6R_1R_4+C_6R_2R_3+C_6R_2R_4+C_6R_3R_4} \\ \text{K-HP: } \frac{C_3C_5R_6}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} \end{array} 
                           \begin{array}{c} C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3 \\ \hline \text{K-BP:} & \frac{C_3C_5R_1R_2R_3R_4 + C_5C_6R_1R_2R_4R_6}{C_1C_6R_1R_2R_3 + C_1C_6R_1R_2R_4 + C_1C_6R_1R_3R_4 + C_2C_6R_2R_3R_4 + C_3C_6R_1R_3R_4 + C_3C_6R_2R_3R_4 + C_3C_6R_3R_3R_4 + C_3C_6R_3R_
                              Qz: None
                          Wz: \frac{1}{\sqrt{C_3}\sqrt{C_6}\sqrt{R_3}\sqrt{R_6}}
```

11.204 X-INVALID-WZ-204 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1}, \frac{R_2}{C_2 R_2 s+1}, \frac{R_3}{C_3 R_3 s+1}, \frac{R_4}{C_4 R_4 s+1}, \frac{R_5}{C_5 R_5 s+1}, R_6\right)$

 $C_3C_5R_1R_2R_3R_4R_5R_6s^2 + R_1R_2R_4R_6 + s\left(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6\right)$

 $H(s) = \frac{C_3C_5R_1R_2R_3R_4R_5R_6s + R_1R_2R_4R_6 + s(C_3R_1R_2R_3R_4R_6 + C_5R_1R_2R_4R_5R_6s)}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5 + C_1C_3R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_4R_5 + C_1C_5R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3R_4R_5 + C_1C_4R_1R_2R_3$

Parameters:

 $Q: \frac{-C_1C_2\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - \frac{R_2R_3R_4}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_3R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} + \frac{R_2R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_2+C_1C_3+C_1C_4-C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_4+C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_4+C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_4+C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_4+C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_4+C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_3}\sqrt{R_4}\sqrt{R_5}\sqrt{\frac{R_1R_4R_5}{C_1C_4+C_1C_5+C_2C_3}} - C_1C_3\sqrt{R_1}\sqrt{R_2}\sqrt{R_1}\sqrt{R_2}\sqrt{R_$ $\frac{-C_{1}C_{2}\sqrt{R_{1}}\sqrt{R_{2}}\sqrt{R_{3}}\sqrt{R_{4}}\sqrt{R_{5}}\sqrt{\frac{R_{1}R_{4}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}}-\frac{R_{2}R_{3}R_{4}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{4}-C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{5}+C_{2}C_{3}}+\frac{R_{2}R_{3}R_{5}}{C_{1}C_{2}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}+C_{1}C_{3}$

K-LP: $\frac{R_1R_2R_4R_6}{R_1R_4R_5 - R_2R_3R_4 + R_2R_3R_5 + R_2R_4R_5 + R_3R_4R_5}$ K-HP: $\frac{C_3C_5R_6}{C_1C_2 + C_1C_3 + C_1C_4 - C_1C_5 + C_2C_3}$

 $\begin{array}{c} -C_3R_1R_2R_3R_4R_6 - C_5R_1R_2R_4R_5R_6 \\ \text{K-BP:} \ \, \frac{-C_3R_1R_2R_3R_4 - C_5R_1R_2R_4R_5 - C_3R_1R_2R_4R_5 - C_3R_1R_3R_4R_5 - C_3R_1R_3R_4R_5 - C_3R_1R_3R_4R_5 - C_3R_1R_3R_4R_5 - C_3R_2R_3R_4R_5 - C_3R_2R_3R_4R_5$

Wz: $\frac{1}{\sqrt{C_3}\sqrt{C_5}\sqrt{R_3}\sqrt{R_5}}$

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