Filter Summary Report: CG,TIA,simple,Z1,Z2,Z5

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Contents

1 Examined H(z) for CG TIA simple Z1 Z2 Z5: $\frac{Z_1Z_2Z_5g_m-Z_1Z_2+Z_1Z_5}{2Z_1Z_2g_m+4Z_1+Z_2+Z_5}$

$$H(z) = \frac{Z_1 Z_2 Z_5 g_m - Z_1 Z_2 + Z_1 Z_5}{2 Z_1 Z_2 g_m + 4 Z_1 + Z_2 + Z_5}$$

- 2 HP
- 3 BP
- **3.1** BP-1 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, R_5, \infty\right)$

$H(s) = \frac{s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5 \right)}{R_2 + R_5 + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_5 \right) + s \left(2 L_1 R_2 g_m + 4 L_1 \right)}$

Parameters:

Q:
$$\frac{C_1R_2\sqrt{\frac{1}{C_1L_1}}+C_1R_5\sqrt{\frac{1}{C_1L_1}}}{2R_2g_m+4}$$
 wo:
$$\sqrt{\frac{1}{C_1L_1}}$$
 bandwidth:
$$\frac{\sqrt{\frac{1}{C_1L_1}}(2R_2g_m+4)}{C_1R_2\sqrt{\frac{1}{C_1L_1}}+C_1R_5\sqrt{\frac{1}{C_1L_1}}}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{R_2R_5g_m-R_2+R_5}{2R_2g_m+4}$$
 Qz: 0 Wz: None

3.2 BP-2
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, R_5, \infty\right)$$

$H(s) = \frac{s \left(L_1 R_1 R_2 R_5 g_m - L_1 R_1 R_2 + L_1 R_1 R_5 \right)}{R_1 R_2 + R_1 R_5 + s^2 \left(C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_5 \right) + s \left(2 L_1 R_1 R_2 g_m + 4 L_1 R_1 + L_1 R_2 + L_1 R_5 \right)}$

$$\begin{array}{l} \text{Q:} \ \frac{C_1R_1R_2\sqrt{\frac{1}{C_1L_1}}+C_1R_1R_5\sqrt{\frac{1}{C_1L_1}}}{2R_1R_2g_m+4R_1+R_2+R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_1L_1}}(2R_1R_2g_m+4R_1+R_2+R_5)}{C_1R_1R_2\sqrt{\frac{1}{C_1L_1}}+C_1R_1R_5\sqrt{\frac{1}{C_1L_1}}} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_1R_2R_5g_m-R_1R_2+R_1R_5}{2R_1R_2g_m+4R_1+R_2+R_5} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

- 4 LP
- 5 BS

5.1 BS-1
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^2 (C_1 L_1 R_2 R_5 g_m - C_1 L_1 R_2 + C_1 L_1 R_5)}{2 R_2 g_m + s^2 (2 C_1 L_1 R_2 g_m + 4 C_1 L_1) + s (C_1 R_2 + C_1 R_5) + 4}$$

$$\begin{array}{l} \text{Q:} \ \frac{2L_1R_2g_m\sqrt{\frac{1}{C_1L_1}}}{R_2+R_5} + 4L_1\sqrt{\frac{1}{C_1L_1}} \\ \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_1L_1}}(R_2+R_5)}{2L_1R_2g_m\sqrt{\frac{1}{C_1L_1}}} + 4L_1\sqrt{\frac{1}{C_1L_1}} \\ \text{K-LP:} \ \frac{R_2R_5g_m-R_2+R_5}{2R_2g_m+4} \\ \text{K-HP:} \ \frac{R_2R_5g_m-R_2+R_5}{2R_2g_m+4} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{array}$$

5.2 BS-2
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, R_5, \infty\right)$$

$$T(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^2 \left(C_1 L_1 R_1 R_2 R_5 g_m - C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_5 \right)}{2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s^2 \left(2 C_1 L_1 R_1 R_2 g_m + 4 C_1 L_1 R_1 + C_1 L_1 R_2 + C_1 L_1 R_5 \right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_5 \right)}$$

Parameters:

$$\begin{array}{c} \text{Q:} \ \frac{2L_1R_1R_2g_m\sqrt{\frac{1}{C_1L_1}}+4L_1R_1\sqrt{\frac{1}{C_1L_1}}+L_1R_2\sqrt{\frac{1}{C_1L_1}}+L_1R_5\sqrt{\frac{1}{C_1L_1}}}{R_1R_2+R_1R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_1L_1}}}{2L_1R_1R_2g_m\sqrt{\frac{1}{C_1L_1}}}+4L_1R_1\sqrt{\frac{1}{C_1L_1}}+L_1R_2\sqrt{\frac{1}{C_1L_1}}+L_1R_5\sqrt{\frac{1}{C_1L_1}}}{K-LP: \ \frac{R_1R_2R_5g_m-R_1R_2+R_1R_5}{2R_1R_2g_m+4R_1+R_2+R_5}} \\ \text{K-HP:} \ \frac{R_1R_2R_5g_m-R_1R_2+R_1R_5}{2R_1R_2g_m+4R_1+R_2+R_5} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{array}$$

6 GE

6.1 GE-1
$$Z(s) = \left(R_1, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_5 R_1 R_2 s + R_1 R_2 g_m + R_1 + s^2 \left(C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1 \right)}{C_5 L_5 s^2 + s \left(2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 \right) + 1}$$

$$\begin{array}{l} \text{Q: } \frac{L_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_2g_m+4R_1+R_2} \\ \text{wo: } \sqrt{\frac{1}{C_5L_5}} \\ \text{bandwidth: } \frac{2R_1R_2g_m+4R_1+R_2}{L_5} \\ \text{K-LP: } R_1R_2g_m+R_1 \\ \text{K-HP: } R_1R_2g_m+R_1 \\ \text{K-BP: } -\frac{R_1R_2}{2R_1R_2g_m+4R_1+R_2} \\ \text{Qz: } \frac{-L_5R_2g_m\sqrt{\frac{1}{C_5L_5}}-L_5\sqrt{\frac{1}{C_5L_5}}}{R_2} \\ \text{Wz: } \sqrt{\frac{1}{C_5L_5}} \end{array}$$

6.2 GE-2
$$Z(s) = \left(R_1, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_5R_1R_2s^2 - R_1R_2 + s\left(L_5R_1R_2g_m + L_5R_1\right)}{L_5s + 2R_1R_2g_m + 4R_1 + R_2 + s^2\left(2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2\right)}$$

$$\begin{array}{l} \text{Q: } 2C_{5}R_{1}R_{2}g_{m}\sqrt{\frac{1}{C_{5}L_{5}}}+4C_{5}R_{1}\sqrt{\frac{1}{C_{5}L_{5}}}+C_{5}R_{2}\sqrt{\frac{1}{C_{5}L_{5}}}\\ \text{wo: } \sqrt{\frac{1}{C_{5}L_{5}}}\\ \text{bandwidth: } \frac{\sqrt{\frac{1}{C_{5}L_{5}}}}{2C_{5}R_{1}R_{2}g_{m}\sqrt{\frac{1}{C_{5}L_{5}}}+4C_{5}R_{1}\sqrt{\frac{1}{C_{5}L_{5}}}+C_{5}R_{2}\sqrt{\frac{1}{C_{5}L_{5}}}\\ \text{K-LP: } -\frac{R_{1}R_{2}}{2R_{1}R_{2}g_{m}+4R_{1}+R_{2}}\\ \text{K-HP: } -\frac{R_{1}R_{2}}{2R_{1}R_{2}g_{m}+4R_{1}+R_{2}}\\ \text{K-BP: } R_{1}R_{2}g_{m}+R_{1}\\ \text{Qz: } -\frac{C_{5}R_{2}\sqrt{\frac{1}{C_{5}L_{5}}}}{R_{2}g_{m}+1}\\ \text{Wz: } \sqrt{\frac{1}{C_{5}L_{5}}} \end{array}$$

6.3 GE-3
$$Z(s) = \left(R_1, R_2, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1 \right) + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_5 \right)}{C_5 L_5 s^2 + s \left(2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 + C_5 R_5 \right) + 1}$

Parameters:

Q:
$$\frac{L_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_2g_m+4R_1+R_2+R_5}$$
 wo:
$$\sqrt{\frac{1}{C_5L_5}}$$
 bandwidth:
$$\frac{2R_1R_2g_m+4R_1+R_2+R_5}{L_5}$$
 K-LP:
$$R_1R_2g_m+R_1$$
 K-HP:
$$R_1R_2g_m+R_1$$
 K-BP:
$$\frac{R_1R_2R_5g_m-R_1R_2+R_1R_5}{2R_1R_2g_m+4R_1+R_2+R_5}$$
 Qz:
$$\frac{L_5R_2g_m\sqrt{\frac{1}{C_5L_5}}+L_5\sqrt{\frac{1}{C_5L_5}}}{R_2R_5g_m-R_2+R_5}$$
 Wz:
$$\sqrt{\frac{1}{C_5L_5}}$$

6.4 GE-4
$$Z(s) = \left(R_1, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_5L_5R_1R_2R_5s^2 - R_1R_2R_5 + s\left(L_5R_1R_2R_5g_m - L_5R_1R_2 + L_5R_1R_5\right)}{2R_1R_2R_5g_m + 4R_1R_5 + R_2R_5 + s^2\left(2C_5L_5R_1R_2R_5g_m + 4C_5L_5R_1R_5 + C_5L_5R_2R_5\right) + s\left(2L_5R_1R_2g_m + 4L_5R_1 + L_5R_2 + L_5R_5\right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{2C_5R_1R_2R_5g_m\sqrt{\frac{1}{C_5L_5}} + 4C_5R_1R_5\sqrt{\frac{1}{C_5L_5}} + C_5R_2R_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ & \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_5L_5}}(2R_1R_2g_m + 4R_1 + R_2 + R_5)}{2C_5R_1R_2R_5g_m\sqrt{\frac{1}{C_5L_5}} + 4C_5R_1R_5\sqrt{\frac{1}{C_5L_5}} + C_5R_2R_5\sqrt{\frac{1}{C_5L_5}}} \\ & \text{K-LP:} \ -\frac{R_1R_2}{2R_1R_2g_m + 4R_1 + R_2} \\ & \text{K-HP:} \ -\frac{R_1R_2}{2R_1R_2g_m + 4R_1 + R_2} \\ & \text{K-BP:} \ \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ & \text{Qz:} \ -\frac{C_5R_2R_5\sqrt{\frac{1}{C_5L_5}}}{R_2R_5g_m - R_2 + R_5} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.5 GE-5
$$Z(s) = \left(R_1, R_2, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^2 \left(C_5 L_5 R_1 R_2 R_5 g_m - C_5 L_5 R_1 R_2 + C_5 L_5 R_1 R_5\right) + s \left(L_5 R_1 R_2 g_m + L_5 R_1\right)}{L_5 s + 2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s^2 \left(2 C_5 L_5 R_1 R_2 g_m + 4 C_5 L_5 R_1 + C_5 L_5 R_2 + C_5 L_5 R_5\right)}$$

Q:
$$2C_5R_1R_2g_m\sqrt{\frac{1}{C_5L_5}} + 4C_5R_1\sqrt{\frac{1}{C_5L_5}} + C_5R_2\sqrt{\frac{1}{C_5L_5}} + C_5R_5\sqrt{\frac{1}{C_5L_5}}$$
 wo: $\sqrt{\frac{1}{C_5L_5}}$ bandwidth:
$$\frac{\sqrt{\frac{1}{C_5L_5}}}{2C_5R_1R_2g_m\sqrt{\frac{1}{C_5L_5}} + 4C_5R_1\sqrt{\frac{1}{C_5L_5}} + C_5R_2\sqrt{\frac{1}{C_5L_5}} + C_5R_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_2g_m + 4R_1 + R_2 + R_5}$$
 K-LP:
$$\frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5}$$
 K-BP:
$$\frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5}$$
 K-BP:
$$R_1R_2g_m + R_1$$
 Qz:
$$\frac{C_5R_2R_5g_m\sqrt{\frac{1}{C_5L_5}} - C_5R_2\sqrt{\frac{1}{C_5L_5}} + C_5R_5\sqrt{\frac{1}{C_5L_5}}}{R_2g_m + 1}$$
 Wz:
$$\sqrt{\frac{1}{C_5L_5}}$$

6.6 GE-6
$$Z(s) = \left(R_1, R_2, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{-C_5R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_5L_5R_1R_2R_5g_m - C_5L_5R_1R_2 + C_5L_5R_1R_2\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^2\left(2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2 + C_5L_5R_5\right) + s\left(2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5\right)}$$

Parameters:

$$Q \colon \frac{2L_5R_1R_2g_m\sqrt{\frac{1}{C_5L_5}}+4L_5R_1\sqrt{\frac{1}{C_5L_5}}+L_5R_2\sqrt{\frac{1}{C_5L_5}}+L_5R_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_2R_5g_m+4R_1R_5+R_2R_5}$$
 wo:
$$\sqrt{\frac{1}{C_5L_5}}$$
 bandwidth:
$$\frac{\sqrt{\frac{1}{C_5L_5}}(2R_1R_2R_5g_m+4R_1R_5+R_2R_5)}{2L_5R_1R_2g_m\sqrt{\frac{1}{C_5L_5}}+4L_5R_1\sqrt{\frac{1}{C_5L_5}}+L_5R_2\sqrt{\frac{1}{C_5L_5}}+L_5R_5\sqrt{\frac{1}{C_5L_5}}}$$
 K-LP:
$$\frac{R_1R_2R_5g_m-R_1R_2+R_1R_5}{2R_1R_2g_m+4R_1+R_2+R_5}$$
 K-HP:
$$\frac{R_1R_2R_5g_m-R_1R_2+R_1R_5}{2R_1R_2g_m+4R_1+R_2+R_5}$$
 K-BP:
$$-\frac{R_1R_2}{2R_1R_2g_m+4R_1+R_2}$$
 Qz:
$$\frac{-L_5R_2R_5g_m\sqrt{\frac{1}{C_5L_5}}+L_5R_2\sqrt{\frac{1}{C_5L_5}}-L_5R_5\sqrt{\frac{1}{C_5L_5}}}{R_2R_5}$$
 Wz:
$$\sqrt{\frac{1}{C_5L_5}}$$

6.7 GE-7
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$$

$H(s) = \frac{C_2 R_1 R_5 s + R_1 R_5 g_m - R_1 + s^2 \left(C_2 L_2 R_1 R_5 g_m - C_2 L_2 R_1 \right)}{2 R_1 g_m + s^2 \left(2 C_2 L_2 R_1 g_m + C_2 L_2 \right) + s \left(4 C_2 R_1 + C_2 R_5 \right) + 1}$

$$\begin{aligned} & \text{Q:} \ \frac{2L_2R_1g_m\sqrt{\frac{1}{C_2L_2}} + L_2\sqrt{\frac{1}{C_2L_2}}}{4R_1 + R_5} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2L_2}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_2L_2}} (4R_1 + R_5)}{2L_2R_1g_m\sqrt{\frac{1}{C_2L_2}} + L_2\sqrt{\frac{1}{C_2L_2}}} \\ & \text{K-LP:} \ \frac{R_1R_5g_m - R_1}{2R_1g_m + 1} \\ & \text{K-HP:} \ \frac{R_1R_5g_m - R_1}{2R_1g_m + 1} \\ & \text{K-BP:} \ \frac{R_1R_5}{4R_1 + R_5} \\ & \text{Qz:} \ \frac{L_2R_5g_m\sqrt{\frac{1}{C_2L_2}} - L_2\sqrt{\frac{1}{C_2L_2}}}{R_5} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_2L_2}} \end{aligned}$$

6.8 GE-8
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^2 \left(C_2 L_2 R_1 R_5 g_m - C_2 L_2 R_1 \right) + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5 \right)}{2 R_1 g_m + s^2 \left(2 C_2 L_2 R_1 g_m + C_2 L_2 \right) + s \left(2 C_2 R_1 R_2 g_m + 4 C_2 R_1 + C_2 R_2 + C_2 R_5 \right) + 1}$$

$$\begin{aligned} & \text{Q:} \ \frac{2L_2R_1g_m\sqrt{\frac{1}{C_2L_2}} + L_2\sqrt{\frac{1}{C_2L_2}}}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2L_2}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_2L_2}}(2R_1R_2g_m + 4R_1 + R_2 + R_5)}{2L_2R_1g_m\sqrt{\frac{1}{C_2L_2}} + L_2\sqrt{\frac{1}{C_2L_2}}} \\ & \text{K-LP:} \ \frac{R_1R_5g_m - R_1}{2R_1g_m + 1} \\ & \text{K-HP:} \ \frac{R_1R_5g_m - R_1}{2R_1g_m + 1} \\ & \text{K-BP:} \ \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ & \text{Qz:} \ \frac{L_2R_5g_m\sqrt{\frac{1}{C_2L_2}} - L_2\sqrt{\frac{1}{C_2L_2}}}{R_2R_5g_m - R_2 + R_5} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_2L_2}} \end{aligned}$$

6.9 GE-9
$$Z(s) = \left(R_1, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^2 \left(C_2 L_2 R_1 R_2 R_5 g_m - C_2 L_2 R_1 R_2 + C_2 L_2 R_1 R_5 \right) + s \left(L_2 R_1 R_5 g_m - L_2 R_1 \right)}{2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s^2 \left(2 C_2 L_2 R_1 R_2 g_m + 4 C_2 L_2 R_1 + C_2 L_2 R_2 + C_2 L_2 R_5 \right) + s \left(2 L_2 R_1 g_m + L_2 \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{2C_2R_1R_2g_m\sqrt{\frac{1}{C_2L_2}} + 4C_2R_1\sqrt{\frac{1}{C_2L_2}} + C_2R_2\sqrt{\frac{1}{C_2L_2}} + C_2R_5\sqrt{\frac{1}{C_2L_2}}}{2R_1g_m + 1} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2L_2}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_2L_2}}(2R_1g_m + 1)}{2C_2R_1R_2g_m\sqrt{\frac{1}{C_2L_2}} + 4C_2R_1\sqrt{\frac{1}{C_2L_2}} + C_2R_2\sqrt{\frac{1}{C_2L_2}} + C_2R_5\sqrt{\frac{1}{C_2L_2}}} \\ & \text{K-LP:} \ \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ & \text{K-HP:} \ \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ & \text{K-BP:} \ \frac{R_1R_5g_m - R_1}{2R_1g_m + 1} \\ & \text{Qz:} \ \frac{C_2R_2R_5g_m\sqrt{\frac{1}{C_2L_2}} - C_2R_2\sqrt{\frac{1}{C_2L_2}} + C_2R_5\sqrt{\frac{1}{C_2L_2}}}{R_5g_m - 1} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_2L_2}} \end{aligned}$$

6.10 GE-10
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{C_2R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_2L_2R_1R_2R_5g_m - C_2L_2R_1R_2 + C_2L_2R_1R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^2\left(2C_2L_2R_1R_2g_m + 4C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_5\right) + s\left(4C_2R_1R_2 + C_2R_2R_5\right)}$$

$$Q: \frac{2L_{2}R_{1}R_{2}g_{m}\sqrt{\frac{1}{C_{2}L_{2}}}+4L_{2}R_{1}\sqrt{\frac{1}{C_{2}L_{2}}}+L_{2}R_{2}\sqrt{\frac{1}{C_{2}L_{2}}}+L_{2}R_{5}\sqrt{\frac{1}{C_{2}L_{2}}}}{4R_{1}R_{2}+R_{2}R_{5}}$$

$$wo: \sqrt{\frac{1}{C_{2}L_{2}}}$$
bandwidth:
$$\frac{\sqrt{\frac{1}{C_{2}L_{2}}}(4R_{1}R_{2}+R_{2}R_{5})}{2L_{2}R_{1}R_{2}g_{m}\sqrt{\frac{1}{C_{2}L_{2}}}+4L_{2}R_{1}\sqrt{\frac{1}{C_{2}L_{2}}}+L_{2}R_{2}\sqrt{\frac{1}{C_{2}L_{2}}}+L_{2}R_{5}\sqrt{\frac{1}{C_{2}L_{2}}}}$$

$$K-LP: \frac{R_{1}R_{2}R_{5}g_{m}-R_{1}R_{2}+R_{1}R_{5}}{2R_{1}R_{2}g_{m}+4R_{1}+R_{2}+R_{5}}$$

$$K-HP: \frac{R_{1}R_{2}R_{5}g_{m}-R_{1}R_{2}+R_{1}R_{5}}{2R_{1}R_{2}g_{m}+4R_{1}+R_{2}+R_{5}}$$

$$K-BP: \frac{R_{1}R_{5}}{4R_{1}+R_{5}}$$

$$Qz: \frac{L_{2}R_{2}R_{5}g_{m}\sqrt{\frac{1}{C_{2}L_{2}}}-L_{2}R_{2}\sqrt{\frac{1}{C_{2}L_{2}}}+L_{2}R_{5}\sqrt{\frac{1}{C_{2}L_{2}}}}{R_{2}R_{5}}$$

$$Wz: \sqrt{\frac{1}{C_{2}L_{2}}}$$

6.11 GE-11
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^2 \left(C_1 L_1 R_2 R_5 g_m - C_1 L_1 R_2 + C_1 L_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_1 R_1 R_2 + C_1 R_1 R_5\right)}{2 R_2 g_m + s^2 \left(2 C_1 L_1 R_2 g_m + 4 C_1 L_1\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_1 R_1 + C_1 R_2 + C_1 R_5\right) + 4}$$

$$\begin{aligned} & \text{Q:} \ \frac{2L_1R_2g_m\sqrt{\frac{1}{C_1L_1}}+4L_1\sqrt{\frac{1}{C_1L_1}}}{2R_1R_2g_m+4R_1+R_2+R_5} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_1L_1}}(2R_1R_2g_m+4R_1+R_2+R_5)}{2L_1R_2g_m\sqrt{\frac{1}{C_1L_1}}+4L_1\sqrt{\frac{1}{C_1L_1}}} \\ & \text{K-LP:} \ \frac{R_2R_5g_m-R_2+R_5}{2R_2g_m+4} \\ & \text{K-HP:} \ \frac{R_2R_5g_m-R_2+R_5}{2R_2g_m+4} \\ & \text{K-BP:} \ \frac{R_1R_2R_5g_m-R_1R_2+R_1R_5}{2R_1R_2g_m+4R_1+R_2+R_5} \\ & \text{Qz:} \ \frac{L_1\sqrt{\frac{1}{C_1L_1}}}{R_1} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{aligned}$$

6.12 GE-12
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^2 \left(C_1 L_1 R_1 R_2 R_5 g_m - C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_5\right) + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5\right)}{2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s^2 \left(2 C_1 L_1 R_1 R_2 g_m + 4 C_1 L_1 R_1 + C_1 L_1 R_2 + C_1 L_1 R_5\right) + s \left(2 L_1 R_2 g_m + 4 L_1\right)}$$

Parameters:

$$\begin{aligned} &\text{Q:} \ \frac{2C_1R_1R_2g_m\sqrt{\frac{1}{C_1L_1}} + 4C_1R_1\sqrt{\frac{1}{C_1L_1}} + C_1R_2\sqrt{\frac{1}{C_1L_1}} + C_1R_5\sqrt{\frac{1}{C_1L_1}}}{2R_2g_m + 4} \\ &\text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ &\text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_1L_1}}(2R_2g_m + 4)}{2C_1R_1R_2g_m\sqrt{\frac{1}{C_1L_1}} + 4C_1R_1\sqrt{\frac{1}{C_1L_1}} + C_1R_2\sqrt{\frac{1}{C_1L_1}} + C_1R_5\sqrt{\frac{1}{C_1L_1}}} \\ &\text{K-LP:} \ \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ &\text{K-HP:} \ \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ &\text{K-BP:} \ \frac{R_2R_5g_m - R_2 + R_5}{2R_2g_m + 4} \\ &\text{Qz:} \ C_1R_1\sqrt{\frac{1}{C_1L_1}} \\ &\text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{aligned}$$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s \left(C_2 R_1 R_5 - C_5 R_1 R_5 \right)}{4 C_2 C_5 R_1 R_5 s^2 + 2 R_1 g_m + s \left(4 C_2 R_1 + C_2 R_5 + 2 C_5 R_1 R_5 g_m + C_5 R_5 \right) + 1}$$

$$\begin{aligned} &\text{Q: } \frac{2C_2C_5R_1R_5\sqrt{\frac{2g_m}{C_2C_5R_5}} + \frac{1}{C_2C_5R_1R_5}}{4C_2R_1 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5} \\ &\text{wo: } \frac{\sqrt{\frac{2R_1g_m + 1}{C_2C_5R_1R_5}}}{2} \\ &\text{bandwidth: } \frac{\sqrt{\frac{2R_1g_m + 1}{C_2C_5R_1R_5}} (4C_2R_1 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5)}{4C_2C_5R_1R_5\sqrt{\frac{2g_m}{C_2C_5R_5}} + \frac{1}{C_2C_5R_1R_5}} \\ &\text{K-LP: } \frac{R_1R_5g_m - R_1}{2R_1g_m + 1} \end{aligned}$$

```
K-HP: 0

K-BP: \frac{C_2R_1R_5 - C_5R_1R_5}{4C_2R_1 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_1}
Qz: 0

Wz: None
```

8.2 INVALID-NUMER-2 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s \left(C_2 R_1 R_2 - C_5 R_1 R_2 \right)}{4 C_2 C_5 R_1 R_2 s^2 + s \left(C_2 R_2 + 2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 \right) + 1}$$

Parameters:

Q:
$$\frac{2C_2C_5R_1R_2\sqrt{\frac{1}{C_2C_5R_1R_2}}}{C_2R_2+2C_5R_1R_2g_m+4C_5R_1+C_5R_2}$$
 wo:
$$\frac{\sqrt{\frac{1}{C_2C_5R_1R_2}}}{2}$$
 bandwidth:
$$\frac{C_2R_2+2C_5R_1R_2g_m+4C_5R_1+C_5R_2}{4C_2C_5R_1R_2}$$
 K-LP:
$$R_1R_2g_m+R_1$$
 K-HP:
$$0$$
 K-BP:
$$\frac{C_2R_1R_2-C_5R_1R_2}{C_2R_2+2C_5R_1R_2g_m+4C_5R_1+C_5R_2}$$
 Qz:
$$0$$
 Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s \left(C_2 R_1 R_2 R_5 - C_5 R_1 R_2 R_5\right)}{4 C_2 C_5 R_1 R_2 R_5 s^2 + 2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s \left(4 C_2 R_1 R_2 + C_2 R_2 R_5 + 2 C_5 R_1 R_2 R_5 g_m + 4 C_5 R_1 R_5 + C_5 R_2 R_5\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{2C_2C_5R_1R_2R_5\sqrt{\frac{2g_m}{C_2C_5R_5}} + \frac{4}{C_2C_5R_2R_5} + \frac{1}{C_2C_5R_1R_5} + \frac{1}{C_2C_5R_1R_2}}{4C_2R_1R_2 + C_2R_2R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5} \\ \text{wo:} \ \frac{\sqrt{\frac{2R_1R_2g_m + 4R_1 + R_2 + R_5}{C_2C_5R_1R_2R_5}}}{2} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{2R_1R_2g_m + 4R_1 + R_2 + R_5}{C_2C_5R_1R_2R_5}} (4C_2R_1R_2 + C_2R_2R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5)}{4C_2C_5R_1R_2R_5\sqrt{\frac{2g_m}{C_2C_5R_5}} + \frac{4}{C_2C_5R_2}} + \frac{1}{C_2C_5R_1R_5} + \frac{1}{C_2C_5R_1R_5} + \frac{1}{C_2C_5R_1R_5} \\ \text{K-LP:} \ \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_2R_5 - C_5R_1R_2R_5}{4C_2R_1R_2 + C_2R_2R_5 + 2C_5R_1R_5 + C_5R_2R_5} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.4 INVALID-NUMER-4 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_2 s^2 + s \left(L_1 R_2 g_m + L_1\right)}{C_5 R_2 s + s^2 \left(2C_5 L_1 R_2 g_m + 4C_5 L_1\right) + 1}$$

$$\begin{array}{l} \text{Q:} \frac{\sqrt{2}L_{1}R_{2}g_{m}\sqrt{\frac{1}{C_{5}L_{1}R_{2}g_{m}+2C_{5}L_{1}}}+2\sqrt{2}L_{1}\sqrt{\frac{1}{C_{5}L_{1}R_{2}g_{m}+2C_{5}L_{1}}}}{R_{2}} \\ \text{wo:} \sqrt{\frac{1}{2C_{5}L_{1}R_{2}g_{m}+4C_{5}L_{1}}} \\ \text{bandwidth:} \frac{R_{2}\sqrt{\frac{1}{2C_{5}L_{1}R_{2}g_{m}+4C_{5}L_{1}}}}{\sqrt{2}L_{1}R_{2}g_{m}\sqrt{\frac{1}{C_{5}L_{1}R_{2}g_{m}+2C_{5}L_{1}}}+2\sqrt{2}L_{1}\sqrt{\frac{1}{C_{5}L_{1}R_{2}g_{m}+2C_{5}L_{1}}}}} \\ \text{K-LP: 0} \\ \text{K-HP:} -\frac{R_{2}}{2R_{2}g_{m}+4}} \\ \text{K-BP:} \frac{L_{1}R_{2}g_{m}+L_{1}}{C_{5}R_{2}}}{C_{5}L_{1}R_{2}g_{m}+2C_{5}L_{1}}} \\ \text{Qz:} -\frac{\sqrt{2}C_{5}R_{2}\sqrt{\frac{1}{C_{5}L_{1}R_{2}g_{m}+2C_{5}L_{1}}}}}{2R_{2}g_{m}+2}} \\ \text{Wz: None} \end{array}$$

8.5 INVALID-NUMER-5 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_2R_5s^2 + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{R_2 + R_5 + s^2\left(2C_5L_1R_2R_5g_m + 4C_5L_1R_5\right) + s\left(C_5R_2R_5 + 2L_1R_2g_m + 4L_1\right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \frac{\sqrt{2}C_5L_1R_2R_5g_m\sqrt{\frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5}} + \frac{R_5}{C_5L_1R_2R_5g_m+2C_5L_1R_5}}{C_5R_2R_5+2L_1R_2g_m+4L_1} \\ & \text{Wo:} \frac{R_2+R_5}{\sqrt{\frac{R_2+R_5}{2C_5L_1R_2R_5g_m+2C_5L_1R_5}}} \\ & \text{bandwidth:} \frac{R_2+R_5}{\sqrt{\frac{R_2+R_5}{2C_5L_1R_2R_5g_m+4C_5L_1R_5}}} \\ & \text{bandwidth:} \frac{\sqrt{\frac{R_2+R_5}{2C_5L_1R_2R_5g_m+4C_5L_1R_5}}}{\sqrt{\frac{R_2+R_5}{2C_5L_1R_2R_5g_m+4C_5L_1R_5}}} \\ & \text{K-LP: 0} \\ & \text{K-HP: } -\frac{R_2}{2R_2g_m+4} \\ & \text{K-BP: } \frac{L_1R_2R_5g_m\sqrt{\frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5}} + \frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5}} + \frac{1}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{1}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{1}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{1}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{1}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac{R_2}{C_5L_1R_2R_5g_m+2C_5L_1R_5} + \frac$$

8.6 INVALID-NUMER-6 $Z(s) = \left(L_1 s, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^2 \left(2 C_5 L_1 R_2 g_m + 4 C_5 L_1 \right) + s \left(C_5 R_2 + C_5 R_5 \right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{\sqrt{2}L_1R_2g_m\sqrt{\frac{1}{C_5L_1R_2g_m+2C_5L_1}}}{R_2+R_5} + 2\sqrt{2}L_1\sqrt{\frac{1}{C_5L_1R_2g_m+2C_5L_1}} \\ & \text{Wo:} \ \sqrt{\frac{1}{2C_5L_1R_2g_m+4C_5L_1}} \\ & \text{bandwidth:} \ \frac{(R_2+R_5)\sqrt{\frac{1}{2C_5L_1R_2g_m+4C_5L_1}}}{\sqrt{2}L_1R_2g_m\sqrt{\frac{1}{C_5L_1R_2g_m+2C_5L_1}}} + 2\sqrt{2}L_1\sqrt{\frac{1}{C_5L_1R_2g_m+2C_5L_1}}} \\ & \text{K-LP:} \ 0 \\ & \text{K-HP:} \ \frac{R_2R_5g_m-R_2+R_5}{2R_2g_m+4} \\ & \text{K-BP:} \ \frac{L_1R_2g_m+L_1}{C_5R_2+C_5R_5} \\ & \text{Qz:} \ \frac{\sqrt{2}C_5R_2R_5g_m\sqrt{\frac{1}{C_5L_1R_2g_m+2C_5L_1}}} - \sqrt{2}C_5R_2\sqrt{\frac{1}{C_5L_1R_2g_m+2C_5L_1}}} + \sqrt{2}C_5R_5\sqrt{\frac{1}{C_5L_1R_2g_m+2C_5L_1}}} \\ & \text{Wz:} \ \text{None} \end{aligned}$$

8.7 INVALID-NUMER-7 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 L_1 R_5 s^2 + s \left(L_1 R_5 g_m - L_1 \right)}{4 C_2 L_1 s^2 + s \left(C_2 R_5 + 2 L_1 g_m \right) + 1}$$

$$\begin{array}{l} \text{Q:} \ \frac{2C_2L_1\sqrt{\frac{1}{C_2L_1}}}{C_2R_5+2L_1g_m} \\ \text{wo:} \ \frac{\sqrt{\frac{1}{C_2L_1}}}{2} \\ \text{bandwidth:} \ \frac{C_2R_5+2L_1g_m}{4C_2L_1} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ \frac{R_5}{4} \\ \text{K-BP:} \ \frac{L_1R_5g_m-L_1}{C_2R_5+2L_1g_m} \\ \text{Qz:} \ \frac{C_2R_5\sqrt{\frac{1}{C_2L_1}}}{2R_5g_m-2} \\ \text{Wz:} \ \text{None} \end{array}$$

8.8 INVALID-NUMER-8 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_1 g_m + s \left(C_2 L_1 - C_5 L_1 \right)}{4 C_2 C_5 L_1 s^2 + C_2 + 2 C_5 L_1 g_m s + C_5}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_2\sqrt{\frac{1}{C_5L_1}+\frac{1}{C_2L_1}}}{\frac{g_m}{g_m}} \\ \text{wo:} \ \frac{\sqrt{\frac{C_2+C_5}{C_2C_5L_1}}}{2} \\ \text{bandwidth:} \ \frac{g_m\sqrt{\frac{C_2+C_5}{C_2C_5L_1}}}{2C_2\sqrt{\frac{1}{C_5L_1}+\frac{1}{C_2L_1}}} \\ \text{K-LP:} \ \frac{L_1g_m}{C_2+C_5} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2-C_5}{2C_5g_m} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.9 INVALID-NUMER-9 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 L_1 R_2 R_5 s^2 + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5 \right)}{4 C_2 L_1 R_2 s^2 + R_2 + R_5 + s \left(C_2 R_2 R_5 + 2 L_1 R_2 g_m + 4 L_1 \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{2C_2L_1R_2\sqrt{\frac{1}{C_2L_1}+\frac{R_5}{C_2L_1R_2}}}{C_2R_2R_5+2L_1R_2g_m+4L_1} \\ \text{wo:} \ \frac{\sqrt{\frac{R_2+R_5}{C_2L_1R_2}}}{2} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{R_2+R_5}{C_2L_1R_2}}(C_2R_2R_5+2L_1R_2g_m+4L_1)}{4C_2L_1R_2\sqrt{\frac{1}{C_2L_1}+\frac{R_5}{C_2L_1R_2}}} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ \frac{R_5}{4} \\ \text{K-BP:} \ \frac{L_1R_2R_5g_m-L_1R_2+L_1R_5}{C_2R_2R_5+2L_1R_2g_m+4L_1} \\ \text{Qz:} \ \frac{C_2R_2R_5\sqrt{\frac{1}{C_2L_1}+\frac{R_5}{C_2L_1R_2}}}{2R_2R_5g_m-2R_2+2R_5} \\ \text{Wz:} \ \text{None} \end{array}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 R_2 + C_2 L_1 R_5 \right) + s \left(L_1 R_5 g_m - L_1 \right)}{s^2 \left(2 C_2 L_1 R_2 g_m + 4 C_2 L_1 \right) + s \left(C_2 R_2 + C_2 R_5 + 2 L_1 g_m \right) + 1}$$

$$\begin{array}{l} \text{Q:} & \frac{\sqrt{2}C_{2}L_{1}R_{2}g_{m}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}+2\sqrt{2}C_{2}L_{1}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}}{C_{2}R_{2}+C_{2}R_{5}+2L_{1}g_{m}} \\ \text{wo:} & \sqrt{\frac{1}{2C_{2}L_{1}R_{2}g_{m}+4C_{2}L_{1}}} \\ \text{bandwidth:} & \frac{(C_{2}R_{2}+C_{2}R_{5}+2L_{1}g_{m})\sqrt{\frac{1}{2C_{2}L_{1}R_{2}g_{m}+4C_{2}L_{1}}}}{\sqrt{\frac{1}{2}C_{2}L_{1}R_{2}g_{m}}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}+2\sqrt{2}C_{2}L_{1}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}}} \\ \text{K-LP:} & 0 \\ \text{K-HP:} & \frac{R_{2}R_{5}g_{m}-R_{2}+R_{5}}{2R_{2}g_{m}+4}} \\ \text{K-BP:} & \frac{L_{1}R_{5}g_{m}-L_{1}}{C_{2}R_{2}+C_{2}R_{5}+2L_{1}g_{m}}}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}-\sqrt{2}C_{2}R_{2}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}}+\sqrt{2}C_{2}R_{5}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}} \\ \text{Qz:} & \frac{\sqrt{2}C_{2}R_{2}R_{5}g_{m}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}-\sqrt{2}C_{2}R_{2}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}}+\sqrt{2}C_{2}R_{5}\sqrt{\frac{1}{C_{2}L_{1}R_{2}g_{m}+2C_{2}L_{1}}}}} \\ \text{Wz:} & \text{None} \end{array}$$

8.11 INVALID-NUMER-11 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5}{C_1 C_5 R_2 R_5 s^2 + 2 R_2 g_m + s \left(C_1 R_2 + C_1 R_5 + 2 C_5 R_2 R_5 g_m + 4 C_5 R_5 \right) + 4}$$

Parameters:

Q:
$$\frac{\sqrt{2}C_{1}C_{5}R_{2}R_{5}\sqrt{\frac{g_{m}}{C_{1}C_{5}R_{5}}} + \frac{2}{C_{1}C_{5}R_{2}R_{5}}}}{C_{1}R_{2} + C_{1}R_{5} + 2C_{5}R_{2}R_{5}g_{m} + 4C_{5}R_{5}}}$$
wo:
$$\sqrt{\frac{2R_{2}g_{m} + 4}{C_{1}C_{5}R_{2}R_{5}}}$$
bandwidth:
$$\frac{\sqrt{2}\sqrt{\frac{2R_{2}g_{m} + 4}{C_{1}C_{5}R_{2}R_{5}}}(C_{1}R_{2} + C_{1}R_{5} + 2C_{5}R_{2}R_{5}g_{m} + 4C_{5}R_{5})}{2C_{1}C_{5}R_{2}R_{5}\sqrt{\frac{g_{m}}{C_{1}C_{5}R_{5}}} + \frac{2}{C_{1}C_{5}R_{2}R_{5}}}}$$
K-LP:
$$\frac{R_{2}R_{5}g_{m} - R_{2} + R_{5}}{2R_{2}g_{m} + 4}}$$
K-HP: 0
K-BP:
$$-\frac{C_{5}R_{2}R_{5}}{C_{1}R_{2} + C_{1}R_{5} + 2C_{5}R_{2}R_{5}g_{m} + 4C_{5}R_{5}}}{Q_{2}$$
: 0
Wz: None

8.12 INVALID-NUMER-12 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 R_5 s + R_5 g_m - 1}{C_1 C_2 R_5 s^2 + 2g_m + s (C_1 + 4C_2)}$$

Parameters:

$$\begin{array}{c} \text{Q:} \ \frac{\sqrt{2}C_{1}C_{2}R_{5}\sqrt{\frac{g_{m}}{C_{1}C_{2}R_{5}}}}{C_{1}+4C_{2}} \\ \text{wo:} \ \sqrt{2}\sqrt{\frac{g_{m}}{C_{1}C_{2}R_{5}}} \\ \text{bandwidth:} \ \frac{C_{1}+4C_{2}}{C_{1}C_{2}R_{5}} \\ \text{K-LP:} \ \frac{R_{5}g_{m}-1}{2g_{m}} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_{2}R_{5}}{C_{1}+4C_{2}} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.13 INVALID-NUMER-13 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_5 g_m + s \left(C_2 R_5 - C_5 R_5\right) - 1}{2g_m + s^2 \left(C_1 C_2 R_5 + C_1 C_5 R_5 + 4C_2 C_5 R_5\right) + s \left(C_1 + 4C_2 + 2C_5 R_5 g_m\right)}$$

Parameters:

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

8.14 INVALID-NUMER-14 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 R_2 R_5 s + R_2 R_5 g_m - R_2 + R_5}{C_1 C_2 R_2 R_5 s^2 + 2 R_2 g_m + s \left(C_1 R_2 + C_1 R_5 + 4 C_2 R_2 \right) + 4}$$

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

8.15 INVALID-NUMER-15 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s \left(C_2 R_2 R_5 - C_5 R_2 R_5\right)}{2 R_2 g_m + s^2 \left(C_1 C_2 R_2 R_5 + C_1 C_5 R_2 R_5 + 4 C_2 C_5 R_2 R_5\right) + s \left(C_1 R_2 + C_1 R_5 + 4 C_2 R_2 + 2 C_5 R_2 R_5 g_m + 4 C_5 R_5\right) + 4 C_5 R_5}$$

Parameters:

 $\begin{array}{c} Q: & \frac{\sqrt{2}C_{1}C_{2}R_{2}R_{3}\sqrt{\frac{R_{2}g_{m}}{C_{1}C_{2}R_{2}R_{5}+C_{1}C_{5}R_{2}R_$

8.16 INVALID-NUMER-16 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{R_5 g_m + s \left(C_2 R_2 R_5 g_m - C_2 R_2 + C_2 R_5\right) - 1}{2 g_m + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_5\right) + s \left(C_1 + 2 C_2 R_2 g_m + 4 C_2\right)}$$

Parameters:

Qz: 0 Wz: None

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

8.17 INVALID-NUMER-17 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \infty, \infty, \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_2s + R_1R_2g_m + R_1}{C_1C_5R_1R_2s^2 + s\left(C_1R_1 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

Q:
$$\frac{C_1C_5R_1R_2\sqrt{\frac{1}{C_1C_5R_1R_2}}}{C_1R_1+2C_5R_1R_2g_m+4C_5R_1+C_5R_2}$$
 wo:
$$\sqrt{\frac{1}{C_1C_5R_1R_2}}$$
 bandwidth:
$$\frac{C_1R_1+2C_5R_1R_2g_m+4C_5R_1+C_5R_2}{C_1C_5R_1R_2}$$

```
K-LP: R_1R_2g_m + R_1
K-HP: 0
K-BP: -\frac{C_5R_1R_2}{C_1R_1 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2}
Qz: 0
Wz: None
```

8.18 INVALID-NUMER-18 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5}{C_1C_5R_1R_2R_5s^2 + 2R_1R_2g_m + 4R_1 + R_2 + R_5 + s\left(C_1R_1R_2 + C_1R_1R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1C_5R_1R_2R_5\sqrt{\frac{2g_m}{C_1C_5R_5}} + \frac{4}{C_1C_5R_2R_5} + \frac{1}{C_1C_5R_1R_5} + \frac{1}{C_1C_5R_1R_2}}{C_1R_1R_2 + C_1R_1R_5 + 2C_5R_1} \\ \text{wo:} \ \sqrt{\frac{2R_1R_2g_m + 4R_1 + R_2 + R_5}{C_1C_5R_1R_2R_5}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{2R_1R_2g_m + 4R_1 + R_2 + R_5}{C_1C_5R_1R_2R_5}}}{C_1C_5R_1R_2R_5} (C_1R_1R_2 + C_1R_1R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5)} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{2R_1R_2g_m + 4R_1 + R_2 + R_5}{C_1C_5R_1R_2R_5}} (C_1R_1R_2 + C_1R_1R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5)}{C_1C_5R_1R_2R_5}} \\ \text{K-LP:} \ \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5}} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ -\frac{C_5R_1R_2R_5}{C_1R_1R_2 + C_1R_1R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5}}{C_1R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5}} \\ \text{Wz:} \ \text{None} \end{array}$$

8.19 INVALID-NUMER-19 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_5\right)}{s^2 \left(C_1 C_5 R_1 R_2 + C_1 C_5 R_1 R_5\right) + s \left(C_1 R_1 + 2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 + C_5 R_5\right) + 1}$$

Parameters:

$$\begin{aligned} &\text{Q:} \ \frac{C_1C_5R_1R_2\sqrt{\frac{1}{C_1C_5R_1R_2+C_1C_5R_1R_5}} + C_1C_5R_1R_5\sqrt{\frac{1}{C_1C_5R_1R_2+C_1C_5R_1R_5}}}{C_1R_1+2C_5R_1R_2g_m+4C_5R_1+C_5R_2+C_5R_5} \\ &\text{wo:} \ \sqrt{\frac{1}{C_1C_5R_1R_2+C_1C_5R_1R_5}} \\ &\text{bandwidth:} \ \frac{(C_1R_1+2C_5R_1R_2g_m+4C_5R_1+C_5R_2+C_5R_5)\sqrt{\frac{1}{C_1C_5R_1R_2+C_1C_5R_1R_5}}}{C_1C_5R_1R_2\sqrt{\frac{1}{C_1C_5R_1R_2+C_1C_5R_1R_5}} + C_1C_5R_1R_5\sqrt{\frac{1}{C_1C_5R_1R_2+C_1C_5R_1R_5}}} \\ &\text{K-LP:} \ R_1R_2g_m+R_1 \\ &\text{K-HP:} \ 0 \\ &\text{K-BP:} \ \frac{C_5R_1R_2R_5g_m-C_5R_1R_2+C_5R_1R_5}{C_1R_1+2C_5R_1R_2g_m+4C_5R_1+C_5R_2+C_5R_5}} \\ &\text{Qz:} \ 0 \\ &\text{Wz:} \ \text{None} \end{aligned}$$

8.20 INVALID-NUMER-20 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 R_1 R_5 s + R_1 R_5 g_m - R_1}{C_1 C_2 R_1 R_5 s^2 + 2R_1 g_m + s \left(C_1 R_1 + 4C_2 R_1 + C_2 R_5\right) + 1}$$

$$\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_1R_5\sqrt{\frac{2g_m}{C_1C_2R_5}}+\frac{1}{C_1C_2R_1R_5}}{C_1R_1+4C_2R_1+C_2R_5}\\ \text{wo:} \ \sqrt{\frac{2R_1g_m+1}{C_1C_2R_1R_5}}\\ \text{bandwidth:} \ \frac{\sqrt{\frac{2R_1g_m+1}{C_1C_2R_1R_5}}(C_1R_1+4C_2R_1+C_2R_5)}{C_1C_2R_1R_5\sqrt{\frac{2g_m}{C_1C_2R_5}}+\frac{1}{C_1C_2R_1R_5}}\\ \text{K-LP:} \ \frac{R_1R_5g_m-R_1}{2R_1g_m+1}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{C_2R_1R_5}{C_1R_1+4C_2R_1+C_2R_5}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

8.21 INVALID-NUMER-21
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s \left(C_2 R_1 R_5 - C_5 R_1 R_5\right)}{2 R_1 g_m + s^2 \left(C_1 C_2 R_1 R_5 + C_1 C_5 R_1 R_5 + 4 C_2 C_5 R_1 R_5\right) + s \left(C_1 R_1 + 4 C_2 R_1 + C_2 R_5 + 2 C_5 R_1 R_5 g_m + C_5 R_5\right) + 1}$$

 $Q: \frac{C_1C_2R_1R_5\sqrt{\frac{2R_1gm}{C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} + C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} + C_1C_5R_1R_5+4C_2C_5R_1R_5}{C_1R_1+4C_2R_1+C_2R_5+2C_5R_1R_5} + C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} + 4C_2C_5R_1R_5 + C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} \\ wo: \sqrt{\frac{2R_1gm+1}{C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5}}} \\ bandwidth: \frac{2R_1gm+1}{C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} + C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} + C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} + C_1C_2R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+4C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_2C_5R_1R_5} \\ c_1C_2R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5+C_1C_5R_1R_5$

8.22 INVALID-NUMER-22 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5}{C_1C_2R_1R_2R_5s^2 + 2R_1R_2g_m + 4R_1 + R_2 + R_5 + s\left(C_1R_1R_2 + C_1R_1R_5 + 4C_2R_1R_2 + C_2R_2R_5\right)}$$

Parameters:

Wz: None

$$\begin{array}{l} Q\colon \frac{C_1C_2R_1R_2R_5\sqrt{\frac{2g_m}{C_1C_2R_5}}+\frac{4}{C_1C_2R_2R_5}+\frac{1}{C_1C_2R_1R_5}+\frac{1}{C_1C_2R_1R_2}}{C_1R_1R_2+C_1R_1R_5+4C_2R_1R_2+C_2R_2R_5}\\ \text{wo: } \sqrt{\frac{2R_1R_2g_m+4R_1+R_2+R_5}{C_1C_2R_1R_2R_5}}\\ \text{bandwidth: } \frac{\sqrt{\frac{2R_1R_2g_m+4R_1+R_2+R_5}{C_1C_2R_1R_2R_5}}(C_1R_1R_2+C_1R_1R_5+4C_2R_1R_2+C_2R_2R_5)}{C_1C_2R_1R_2R_5\sqrt{\frac{2g_m}{C_1C_2R_5}}+\frac{4}{C_1C_2R_2R_5}}\\ \text{K-LP: } \frac{R_1R_2R_5g_m-R_1R_2+R_1R_5}{2R_1R_2g_m+4R_1+R_2+R_5}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{C_2R_1R_2R_5}{C_1R_1R_2+C_1R_1R_5+4C_2R_2R_5}\\ \text{Qz: 0}\\ \text{Wz: None} \end{array}$$

8.23 INVALID-NUMER-23 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s \left(C_2 R_1 R_2 - C_5 R_1 R_2 \right)}{s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_5 R_1 R_2 + 4 C_2 C_5 R_1 R_2 \right) + s \left(C_1 R_1 + C_2 R_2 + 2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 \right) + 1}$$

Parameters:

 $\begin{array}{c} \text{Q:} \frac{C_1C_2R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2}} + C_1C_5R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2}} + 4C_2C_5R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2}} + 4C_2C_5R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2}} + 4C_2C_5R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2+4C_2C_5R_1R_2}} \\ \text{wo:} \ \sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2+4C_2C_5R_1R_2}} \\ \text{bandwidth:} \ \frac{(C_1R_1+C_2R_2+2C_5R_1R_2g_m+4C_5R_1+C_5R_2)\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2+4C_2C_5R_1R_2}}}{C_1C_2R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2}} + C_1C_5R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2}} + 4C_2C_5R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2}} + 4C_2C_5R_1R_2\sqrt{\frac{1}{C_1C_2R_1R_2+C_1C_5R_1R_2+4C_2C_5R_1R_2}}} \\ \text{K-LP:} \ R_1R_2g_m + R_1 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_2-C_5R_1R_2}{C_1R_1+C_2R_2+2C_5R_1R_2g_m+4C_5R_1+C_5R_2}} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.24 INVALID-NUMER-24
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s\left(C_2R_1R_2R_5 - C_5R_1R_2R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^2\left(C_1C_2R_1R_2R_5 + C_1C_5R_1R_2R_5 + 4C_2C_5R_1R_2R_5\right) + s\left(C_1R_1R_2 + C_1R_1R_5 + 4C_2R_1R_2 + C_2R_2R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5\right)}$$

 $\begin{array}{c} \text{Q:} \frac{\text{C}_{1}C_{2}R_{1}R_{2}R_{5}\sqrt{\frac{2R_{1}R_{2}g_{5}}{\sqrt{1_{1}C_{2}R_{1}R_{2}R_{5}} + C_{1}C_{5}R_{1}R_{2}R_{5}} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5}} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5}} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5}} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}C_{5}R_{1}R_{2}R_{5}} + C_{1}C_{5}R_{1}R_{2}R_{5} + C_{$

8.25 INVALID-NUMER-25 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5 \right)}{2 R_1 g_m + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_2 R_1 R_5 \right) + s \left(C_1 R_1 + 2 C_2 R_1 R_2 g_m + 4 C_2 R_1 + C_2 R_2 + C_2 R_5 \right) + 1}$$

Parameters:

 $Q: \frac{c_1c_2R_1R_2\sqrt{\frac{2R_1g_m}{c_1c_2R_1R_2+c_1c_2R_1R_5} + \frac{c_1c_2R_1g_1g_2+c_1c_2R_1R_5}{c_1c_2R_1R_2+c_1c_2R_1R_5} + \frac{2R_1g_m}{c_1c_2R_1R_2+c_1c_2R_1R_5} + \frac{2$

8.26 INVALID-NUMER-26 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_1 g_m + s \left(C_2 L_1 - C_5 L_1 \right)}{C_2 + 2 C_5 L_1 g_m s + C_5 + s^2 \left(C_1 C_2 L_1 + C_1 C_5 L_1 + 4 C_2 C_5 L_1 \right)}$$

Parameters:

8.27 INVALID-NUMER-27
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_1 R_1 g_m + s \left(C_2 L_1 R_1 - C_5 L_1 R_1\right)}{C_2 R_1 + C_5 R_1 + s^2 \left(C_1 C_2 L_1 R_1 + C_1 C_5 L_1 R_1 + 4 C_2 C_5 L_1 R_1\right) + s \left(C_2 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

9 INVALID-WZ

9.1 INVALID-WZ-1
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{C_2C_5R_1R_2R_5s^2 + R_1R_2g_m + R_1 + s\left(C_2R_1R_2 + C_5R_1R_2R_5g_m - C_5R_1R_2 + C_5R_1R_5\right)}{s^2\left(4C_2C_5R_1R_2 + C_2C_5R_2R_5\right) + s\left(C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2 + C_5R_5\right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{4C_2C_5R_1R_2\sqrt{\frac{1}{4C_2C_5R_1R_2+C_2C_5R_2R_5}} + C_2C_5R_2R_5\sqrt{\frac{1}{4C_2C_5R_1R_2+C_2C_5R_2R_5}}}{C_2R_2+2C_5R_1R_2g_m+4C_5R_1+C_5R_2+C_5R_5} \\ & \text{wo:} \ \sqrt{\frac{1}{4C_2C_5R_1R_2+C_2C_5R_2R_5}} \\ & \text{bandwidth:} \ \frac{(C_2R_2+2C_5R_1R_2g_m+4C_5R_1+C_5R_2+C_5R_5)\sqrt{\frac{1}{4C_2C_5R_1R_2+C_2C_5R_2R_5}}}{4C_2C_5R_1R_2\sqrt{\frac{1}{4C_2C_5R_1R_2+C_2C_5R_2R_5}} + C_2C_5R_2R_5\sqrt{\frac{1}{4C_2C_5R_1R_2+C_2C_5R_2R_5}}} \\ & \text{K-LP:} \ R_1R_2g_m + R_1 \\ & \text{K-HP:} \ \frac{R_1R_5}{4R_1+R_5} \\ & \text{K-BP:} \ \frac{C_2R_1R_2+C_5R_1R_2R_5g_m-C_5R_1R_2+C_5R_1R_5}{C_2R_2+2C_5R_1R_2g_m+4C_5R_1+C_5R_2+C_5R_5}} \\ & \text{Qz:} \ \frac{C_2C_5R_2R_5\sqrt{\frac{1}{4C_2C_5R_1R_2+C_5R_2R_5}}}{C_2R_2+C_5R_2R_5g_m-C_5R_2+C_5R_5} \\ & \text{Wz:} \ \sqrt{\frac{R_2g_m+1}{C_2C_5R_2R_5}}} \end{aligned}$$

9.2 INVALID-WZ-2 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_2C_5R_1R_2R_5s^2 + R_1R_5g_m - R_1 + s\left(C_2R_1R_2R_5g_m - C_2R_1R_2 + C_2R_1R_5 - C_5R_1R_5\right)}{2R_1g_m + s^2\left(2C_2C_5R_1R_2R_5g_m + 4C_2C_5R_1R_5 + C_2C_5R_2R_5\right) + s\left(2C_2R_1R_2g_m + 4C_2R_1 + C_2R_2 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

Parameters:

 $Q: \frac{2C_2C_5R_1R_2R_5g_m\sqrt{\frac{2R_1g_m}{2C_2C_5R_1R_2R_5g_m+4C_2C_5R_1R_5+C_2C_5R_2R_5} + 2C_2C_5R_1R_2R_5g_m+4C_2C_5R_1R_5+C_2C_5R_2R_5}{2C_2R_1R_2R_5g_m+4C_2C_5R_1R_5+C_2C_5R_2R_5} + 4C_2C_5R_1R_2R_5g_m+4C_2C_5R_1R_5+C_2C_5R_2R_5} + 4C_2C_5R_1R$

9.3 INVALID-WZ-3 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_1R_5s^2 + L_1g_m + s\left(C_2L_1 + C_5L_1R_5g_m - C_5L_1\right)}{4C_2C_5L_1s^2 + C_2 + C_5 + s\left(C_2C_5R_5 + 2C_5L_1g_m\right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{2C_2L_1\sqrt{\frac{1}{C_5L_1}+\frac{1}{C_2L_1}}}{C_2R_5+2L_1g_m} \\ & \text{wo:} \ \frac{\sqrt{\frac{C_2+C_5}{C_2C_5L_1}}}{2} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{C_2+C_5}{C_2C_5L_1}}(C_2R_5+2L_1g_m)}{4C_2L_1\sqrt{\frac{1}{C_5L_1}+\frac{1}{C_2L_1}}} \\ & \text{K-LP:} \ \frac{L_1g_m}{C_2+C_5} \\ & \text{K-HP:} \ \frac{R_5}{4} \\ & \text{K-BP:} \ \frac{C_2L_1+C_5L_1R_5g_m-C_5L_1}{C_2C_5R_5+2C_5L_1g_m} \\ & \text{Qz:} \ \frac{C_2C_5R_5\sqrt{\frac{1}{C_5L_1}+\frac{1}{C_2L_1}}}{2C_2+2C_5R_5g_m-2C_5} \\ & \text{Wz:} \ \sqrt{\frac{g_m}{C_2C_5R_5}} \end{aligned}$$

9.4 INVALID-WZ-4 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{-C_2C_5L_1R_2s^2 + L_1g_m + s\left(C_2L_1R_2g_m + C_2L_1 - C_5L_1\right)}{C_2 + C_5 + s^2\left(2C_2C_5L_1R_2g_m + 4C_2C_5L_1\right) + s\left(C_2C_5R_2 + 2C_5L_1g_m\right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \frac{\sqrt{2}C_2L_1R_2g_m\sqrt{\frac{C_2}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_5}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + 2\sqrt{2}C_2L_1\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_5}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}}{C_2R_2+2L_1g_m} \\ & \text{wo:} \sqrt{\frac{C_2+C_5}{2C_2C_5L_1R_2g_m+4C_2C_5L_1}} \\ & \text{bandwidth:} \frac{\sqrt{\frac{C_2+C_5}{2C_2C_5L_1R_2g_m+4C_2C_5L_1}}}{\sqrt{\frac{C_2}{2C_5L_1R_2g_m+4C_2C_5L_1}} + \frac{C_5}{C_5C_5L_1R_2g_m+4C_2C_5L_1}} + \frac{C_5}{C_5C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_5}{C_5C_5L_1R_2g_m+2C_2C_5L_1}} \\ & \text{K-LP:} \frac{L_1g_m}{C_2+C_5} \\ & \text{K-HP:} -\frac{R_2}{2R_2g_m+4} \\ & \text{K-BP:} \frac{C_2L_1R_2g_m\sqrt{\frac{C_2}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_2L_1\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}}}{C_2C_5R_2\sqrt{\frac{C_2}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_5}{C_2C_5L_1R_2g_m+2C_2C_5L_1}} + 2C_2L_1\sqrt{\frac{C_2L_1R_2g_m+2C_2L_1}{C_5L_1R_2g_m+2C_2L_1}} + C_2L_1\sqrt{\frac{C_2L_1R_2g_m+2C_2L_1}{C_5L_1R_2g_m+2C_5L_1} + \frac{1}{C_2L_1R_2g_m+2C_5L_1}}} \\ & \text{Qz:} -\frac{\sqrt{2}C_2C_5R_2\sqrt{\frac{C_2}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_5}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}}{2C_2R_2g_m+2C_2-2C_5}} \\ & \text{Wz:} \sqrt{-\frac{g_m}{C_2C_5R_2}}} \end{aligned}$$

9.5 INVALID-WZ-5 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{L_1 g_m + s^2 \left(C_2 C_5 L_1 R_2 R_5 g_m - C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_5 \right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_5 L_1 R_5 g_m - C_5 L_1 \right)}{C_2 + C_5 + s^2 \left(2 C_2 C_5 L_1 R_2 g_m + 4 C_2 C_5 L_1 \right) + s \left(C_2 C_5 R_2 + C_2 C_5 R_5 + 2 C_5 L_1 g_m \right)}$$

$$\begin{array}{c} \text{Q:} \frac{\sqrt{2}C_2L_1R_2g_m\sqrt{\frac{C_2}{C_2C_5L_1R_2g_m+2C_2C_5L_1}} + \frac{C_5}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}{C_2R_2+C_RS_2+2L_1g_m} \\ \text{Wo:} \sqrt{\frac{C_2+C_5}{2C_2C_5L_1R_2g_m+4C_2C_5L_1}} \\ \text{bandwidth:} \frac{C_2+C_5}{\sqrt{\frac{C_2+C_5}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}} (C_2R_2+C_2R_5+2L_1g_m) \\ \text{bandwidth:} \frac{C_2+C_5}{\sqrt{\frac{C_2C_5L_1R_2g_m+4C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}} (C_2R_2+C_2R_5+2L_1g_m) \\ \text{K-LP:} \frac{L_1g_m}{C_2+C_5} \\ \text{K-HP:} \frac{L_2g_m}{2R_2g_m+4C_2C_5L_1} \sqrt{\frac{C_2}{C_2C_5L_1R_2g_m+2C_2C_5L_1}} + \frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1} \\ \text{K-BP:} \frac{C_2L_1R_2g_m\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_5L_1}} + C_2L_1\sqrt{\frac{C_5L_1R_2g_m+2C_5L_1}{C_5L_1R_2g_m+2C_5L_1}} + C_5L_1R_5g_m\sqrt{\frac{C_5L_1R_2g_m+2C_5L_1}{C_5L_1R_2g_m+2C_5L_1}} + \frac{1}{C_5L_1R_2g_m+2C_5L_1}} \\ \text{C}_2C_5R_2\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}} + \frac{C_5L_1R_2g_m+2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}} + \frac{C_5L_1R_2g_m+2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1} + \frac{1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}} \\ \text{Q}_2: \frac{\sqrt{2C_2C_5R_2R_5g_m\sqrt{\frac{C_5C_5L_1R_2g_m+2C_2C_5L_1}{C_5C_5L_1R_2g_m+2C_2C_5L_1}}} - \sqrt{2C_2C_5R_2\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}} + \frac{C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}} \\ \text{W}_2: \sqrt{\frac{g_m}{C_2C_5R_2R_5g_m-C_2C_5R_2+C_2C_5L_1}{C_2C_5R_2C_5C_5L_1R_2g_m+2C_2C_5L_1}} - \sqrt{2C_2C_5R_2\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}} - \sqrt{2C_2C_5R_2\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}}} \\ \text{W}_2: \sqrt{\frac{g_m}{C_2C_5R_2R_5g_m-C_2C_5R_2+C_2C_5R_5}{C_2C_5L_1R_2g_m+2C_2C_5L_1}} - \sqrt{2C_2C_5R_2\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}} - \sqrt{2C_2C_5R_2\sqrt{\frac{C_2C_5L_1R_2g_m+2C_2C_5L_1}{C_2C_5L_1R_2g_m+2C_2C_5L_1}}} } \\ \text{C}_2C_2R_2g_m+2C_2+2C_5R_5g_m-C_2C_5R_2+C_2C_5R_5} \\ \text{C}_2C_2C_5R_2R_5g_m-C_$$

9.6 INVALID-WZ-6
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5R_1R_2R_5s^2 + R_2R_5g_m - R_2 + R_5 + s\left(C_1R_1R_2R_5g_m - C_1R_1R_2 + C_1R_1R_5 - C_5R_2R_5\right)}{2R_2g_m + s^2\left(2C_1C_5R_1R_2R_5g_m + 4C_1C_5R_1R_5 + C_1C_5R_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 2C_5R_2R_5g_m + 4C_5R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 2C_5R_2R_5g_m + 4C_5R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 2C_5R_5g_m + 4C_5R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 2C_5R_5g_m + 4C_5R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1R_2g_m + 4C_1R_1\right) + s\left($$

$$\begin{array}{c} Q: \frac{\sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m\sqrt{\frac{E_{2}g_{5}m}{2C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{1}g_{5}}{2C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{1}g_{5}}} + \sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{1}g_{5}} + \sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{1}g_{5}} + \sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{2}g_{5}} + \sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{2}g_{5}} + \sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{2}g_{5}} + \sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{2}g_{5}} + \sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{2}g_{5}m+4C_{1}C_{5}R_{2}g_{5}} + \sqrt{2}C_{1}C_{5}R_{1}R_{2}g_{5}m+4C_{1}C_{5}R_{2}g_{5}} + \sqrt{2}C_{1}C$$

9.7 INVALID-WZ-7 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_1 C_2 R_1 R_5 s^2 + R_5 g_m + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_2 R_5 \right) - 1}{2 g_m + s^2 \left(4 C_1 C_2 R_1 + C_1 C_2 R_5 \right) + s \left(2 C_1 R_1 g_m + C_1 + 4 C_2 \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{4\sqrt{2}C_{1}C_{2}R_{1}\sqrt{\frac{g_{m}}{4C_{1}C_{2}R_{1}+C_{1}C_{2}R_{5}}} + \sqrt{2}C_{1}C_{2}R_{5}\sqrt{\frac{g_{m}}{4C_{1}C_{2}R_{1}+C_{1}C_{2}R_{5}}}}{2C_{1}R_{1}g_{m}+C_{1}+4C_{2}} \\ & \text{wo:} \ \sqrt{2}\sqrt{\frac{g_{m}}{4C_{1}C_{2}R_{1}+C_{1}C_{2}R_{5}}} \\ & \text{bandwidth:} \ \frac{\sqrt{2}\sqrt{\frac{g_{m}}{4C_{1}C_{2}R_{1}+C_{1}C_{2}R_{5}}} (2C_{1}R_{1}g_{m}+C_{1}+4C_{2})}{4\sqrt{2}C_{1}C_{2}R_{1}\sqrt{\frac{g_{m}}{4C_{1}C_{2}R_{1}+C_{1}C_{2}R_{5}}} + \sqrt{2}C_{1}C_{2}R_{5}\sqrt{\frac{g_{m}}{4C_{1}C_{2}R_{1}+C_{1}C_{2}R_{5}}}} \\ & \text{K-LP:} \ \frac{R_{5}g_{m}-1}{2g_{m}} \\ & \text{K-HP:} \ \frac{R_{1}R_{5}}{4R_{1}+R_{5}} \\ & \text{K-BP:} \ \frac{C_{1}R_{1}R_{5}g_{m}-C_{1}R_{1}+C_{2}R_{5}}{2C_{1}R_{1}g_{m}+C_{1}+4C_{2}} \\ & \text{Qz:} \ \frac{\sqrt{2}C_{1}C_{2}R_{1}R_{5}\sqrt{\frac{g_{m}}{4C_{1}C_{2}R_{1}+C_{1}C_{2}R_{5}}}}{C_{1}R_{1}S_{5}g_{m}-C_{1}R_{1}+C_{2}R_{5}} \\ & \text{Wz:} \ \sqrt{\frac{R_{5}g_{m}-1}{C_{1}C_{2}R_{1}R_{5}}} \end{aligned}$$

9.8 INVALID-WZ-8
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{C_1C_2R_1R_2R_5s^2 + R_2R_5g_m - R_2 + R_5 + s\left(C_1R_1R_2R_5g_m - C_1R_1R_2 + C_1R_1R_5 + C_2R_2R_5\right)}{2R_2g_m + s^2\left(4C_1C_2R_1R_2 + C_1C_2R_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 4C_2R_2\right) + 4}$$

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

Wz:
$$\sqrt{\frac{R_2R_5g_m - R_2 + R_5}{C_1C_2R_1R_2R_5}}$$

9.9 INVALID-WZ-9
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_1 C_2 R_1 R_2 R_5 g_m - C_1 C_2 R_1 R_2 + C_1 C_2 R_1 R_5\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_2 R_2 R_5 g_m - C_2 R_2 + C_2 R_5\right) - 1}{2 g_m + s^2 \left(2 C_1 C_2 R_1 R_2 g_m + 4 C_1 C_2 R_1 + C_1 C_2 R_2 + C_1 C_2 R_5\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_2 R_2 g_m + 4 C_2\right)}$$

 $Q: \frac{2\sqrt{2}C_{1}C_{2}R_{1}R_{2}g_{m}\sqrt{\frac{g_{m}}{2C_{1}C_{2}R_{1}R_{2}g_{m}+4C_{1}C_{2}R_{1}+C_{1}C_{2}R_{2}}} + 4\sqrt{2}C_{1}C_{2}R_{1}\sqrt{\frac{g_{m}}{2C_{1}C_{2}R_{1}R_{2}g_{m}+4C_{1}C_{2}R_{2}}} + \sqrt{2}C_{1}C_{2}R_{2}\sqrt{\frac{g_{m}}{2C_{1}C_{2}R_{1}R_{2}g_{m}+4C_{1}C_{2}R_{2}}} + \sqrt{2}C_{1}C_{2}R_{5}\sqrt{\frac{g_{m}}{2C_{1}C_{2}R_{1}R_{2}g_{m}+4C_{1}C_{2}R_{2}}} + \sqrt{2}C_{1}C_{2}R_{1}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}C_{2}R_{2}$

wo: $\sqrt{2}\sqrt{\frac{g_m}{2C_1C_2R_1R_2g_m+4C_1C_2R_1+C_1C_2R_2+C_1C_2R_5}}$

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

 $\text{K-LP:} \frac{R_5 g_m - 1}{2 g_m} \\ \text{K-HP:} \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5}{2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5} \\ \text{K-BP:} \frac{C_1 R_1 R_5 g_m - C_1 R_1 + C_2 R_2 g_m + 4 C_2}{2 C_1 R_1 g_m + C_1 + 2 C_2 R_2 g_m + 4 C_2} \\ \text{Oz:} \frac{\sqrt{2} C_1 C_2 R_1 R_2 R_5 g_m \sqrt{\frac{g_m}{2C_1 C_2 R_1 R_2 g_m + 4 C_1 C_2 R_2 + C_1 C_2 R_5}} - \sqrt{2} C_1 C_2 R_1 R_2 \sqrt{\frac{g_m}{2C_1 C_2 R_1 R_2 g_m + 4 C_1 C_2 R_2 + C_1 C_2 R_5}} \\ + \sqrt{2} C_1 C_2 R_1 R_2 R_5 g_m \sqrt{\frac{g_m}{2C_1 C_2 R_1 R_2 g_m + 4 C_1 C_2 R_2 + C_1 C_2 R_5}} - \sqrt{2} C_1 C_2 R_1 R_2 \sqrt{\frac{g_m}{2C_1 C_2 R_1 R_2 g_m + 4 C_1 C_2 R_2 + C_1 C_2 R_5}} \\ + C_1 R_1 R_5 g_m - C_1 R_1 + C_2 R_2 R_5 g_m - C_2 R_2 + C_2 R_5}$

INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (R_1, R_2, \infty, \infty, R_5, \infty)$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5}{2R_1 R_2 g_m + 4R_1 + R_2 + R_5}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(R_1, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_2 s + R_1 R_2 g_m + R_1}{s \left(2C_5 R_1 R_2 g_m + 4C_5 R_1 + C_5 R_2\right) + 1}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(R_1, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s\left(2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5\right)}$$

10.4 INVALID-ORDER-4 $Z(s) = \left(R_1, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_5 \right)}{s \left(2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 + C_5 R_5 \right) + 1}$$

10.5 INVALID-ORDER-5 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 R_1 R_5 s + R_1 R_5 g_m - R_1}{2R_1 g_m + s \left(4C_2 R_1 + C_2 R_5\right) + 1}$$

10.6 INVALID-ORDER-6
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_1 g_m + s (C_2 R_1 - C_5 R_1)}{4C_2 C_5 R_1 s^2 + s (C_2 + 2C_5 R_1 g_m + C_5)}$$

10.7 INVALID-ORDER-7
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2 C_5 R_1 R_5 s^2 + R_1 g_m + s \left(C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1 \right)}{s^2 \left(4 C_2 C_5 R_1 + C_2 C_5 R_5 \right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5 \right)}$$

10.8 INVALID-ORDER-8
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2 C_5 L_5 R_1 s^3 + C_5 L_5 R_1 g_m s^2 + R_1 g_m + s \left(C_2 R_1 - C_5 R_1\right)}{C_2 C_5 L_5 s^3 + 4 C_2 C_5 R_1 s^2 + s \left(C_2 + 2 C_5 R_1 g_m + C_5\right)}$$

10.9 INVALID-ORDER-9
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_5 R_1 g_m s - R_1 + s^2 \left(C_2 L_5 R_1 - C_5 L_5 R_1 \right)}{4 C_2 C_5 L_5 R_1 s^3 + 4 C_2 R_1 s + 2 R_1 g_m + s^2 \left(C_2 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5 \right) + 1}$$

10.10 INVALID-ORDER-10
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1s^3 + R_1g_m + s^2\left(C_2C_5R_1R_5 + C_5L_5R_1g_m\right) + s\left(C_2R_1 + C_5R_1R_5g_m - C_5R_1\right)}{C_2C_5L_5s^3 + s^2\left(4C_2C_5R_1 + C_2C_5R_5\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.11 INVALID-ORDER-11
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-R_1R_5 + s^2\left(C_2L_5R_1R_5 - C_5L_5R_1R_5\right) + s\left(L_5R_1R_5g_m - L_5R_1\right)}{4C_2C_5L_5R_1R_5s^3 + 2R_1R_5g_m + R_5 + s^2\left(4C_2L_5R_1 + C_2L_5R_5 + 2C_5L_5R_1R_5g_m + C_5L_5R_5\right) + s\left(4C_2R_1R_5 + 2L_5R_1g_m + L_5\right)}$$

10.12 INVALID-ORDER-12
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(C_2L_5R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s\left(C_2R_1R_5 + L_5R_1g_m\right)}{2R_1g_m + s^3\left(4C_2C_5L_5R_1 + C_2C_5L_5R_5\right) + s^2\left(C_2L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(4C_2R_1 + C_2R_5\right) + 1}$$

10.13 INVALID-ORDER-13
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s\left(C_2R_1R_5 - C_5R_1R_5\right)}{2R_1g_m + s^3\left(4C_2C_5L_5R_1 + C_2C_5L_5R_5\right) + s^2\left(4C_2C_5R_1R_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(4C_2R_1 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.14 INVALID-ORDER-14
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{C_2 R_1 R_2 R_5 s + R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5}{2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s \left(4 C_2 R_1 R_2 + C_2 R_2 R_5\right)}$$

10.15 INVALID-ORDER-15
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_5L_5R_1R_2g_m + C_5L_5R_1\right) + s\left(C_2R_1R_2 - C_5R_1R_2\right)}{C_2C_5L_5R_2s^3 + s^2\left(4C_2C_5R_1R_2 + C_5L_5\right) + s\left(C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

10.16 INVALID-ORDER-16
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-R_1R_2 + s^2\left(C_2L_5R_1R_2 - C_5L_5R_1R_2\right) + s\left(L_5R_1R_2g_m + L_5R_1\right)}{4C_2C_5L_5R_1R_2s^3 + 2R_1R_2g_m + 4R_1 + R_2 + s^2\left(C_2L_5R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2\right) + s\left(4C_2R_1R_2 + L_5\right)}$$

10.17 INVALID-ORDER-17
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2C_5R_1R_2R_5 + C_5L_5R_1R_2g_m + C_5L_5R_1\right) + s\left(C_2R_1R_2 + C_5R_1R_2R_5g_m - C_5R_1R_2 + C_5R_1R_5\right)}{C_2C_5L_5R_2s^3 + s^2\left(4C_2C_5R_1R_2 + C_2C_5R_2R_5 + C_5L_5\right) + s\left(C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2 + C_5R_5\right) + 1}$$

10.18 INVALID-ORDER-18
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-R_1R_2R_5 + s^2\left(C_2L_5R_1R_2R_5 - C_5L_5R_1R_2R_5\right) + s\left(L_5R_1R_2R_5g_m - L_5R_1R_2 + L_5R_1R_5\right)}{4C_2C_5L_5R_1R_2R_5s^3 + 2R_1R_2R_5g_m + 4R_1R_5 + R_2R_5 + s^2\left(4C_2L_5R_1R_2 + C_2L_5R_2R_5 + 2C_5L_5R_1R_2R_5g_m + 4C_5L_5R_1R_5 + C_5L_5R_2R_5\right) + s\left(4C_2R_1R_2R_5 + 2L_5R_1R_2g_m + 4L_5R_1 + L_5R_2 + L_5R_5\right)}$$

10.19 INVALID-ORDER-19
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_2L_5R_1R_2 + C_5L_5R_1R_2R_5g_m - C_5L_5R_1R_2 + C_5L_5R_1R_5\right) + s\left(C_2R_1R_2R_5 + L_5R_1R_2g_m + L_5R_1\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(4C_2C_5L_5R_1R_2 + C_2C_5L_5R_2R_5\right) + s^2\left(C_2L_5R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2 + C_5L_5R_5\right) + s\left(4C_2R_1R_2 + C_2R_2R_5 + L_5R_5\right)}$$

10.20 INVALID-ORDER-20
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_5L_5R_1R_2R_5g_m - C_5L_5R_1R_2 + C_5L_5R_1R_5\right) + s\left(C_2R_1R_2R_5 - C_5R_1R_2R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(4C_2C_5L_5R_1R_2 + C_2C_5L_5R_2R_5\right) + s^2\left(4C_2C_5R_1R_2R_5 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2 + C_5L_5R_5\right) + s\left(4C_2R_1R_2 + C_2R_2R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5\right)}$$

10.21 INVALID-ORDER-21 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5 \right)}{2 R_1 g_m + s \left(2 C_2 R_1 R_2 g_m + 4 C_2 R_1 + C_2 R_2 + C_2 R_5 \right) + 1}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_2C_5R_1R_2s^2 + R_1g_m + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1\right)}{s^2\left(2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_2\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.23 INVALID-ORDER-23 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 g_m + s^2 \left(C_2 C_5 R_1 R_2 R_5 g_m - C_2 C_5 R_1 R_2 + C_2 C_5 R_1 R_5 \right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1 \right)}{s^2 \left(2 C_2 C_5 R_1 R_2 g_m + 4 C_2 C_5 R_1 + C_2 C_5 R_2 + C_2 C_5 R_5 \right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5 \right)}$$

10.24 INVALID-ORDER-24 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 g_m + s^3 \left(C_2 C_5 L_5 R_1 R_2 g_m + C_2 C_5 L_5 R_1 \right) + s^2 \left(-C_2 C_5 R_1 R_2 + C_5 L_5 R_1 g_m \right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 - C_5 R_1 \right)}{C_2 C_5 L_5 s^3 + s^2 \left(2 C_2 C_5 R_1 R_2 g_m + 4 C_2 C_5 R_1 + C_2 C_5 R_2 \right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5 \right)}$$

10.25 INVALID-ORDER-25
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_5R_1R_2s^3 - R_1 + s^2\left(C_2L_5R_1R_2g_m + C_2L_5R_1 - C_5L_5R_1\right) + s\left(-C_2R_1R_2 + L_5R_1g_m\right)}{2R_1g_m + s^3\left(2C_2C_5L_5R_1R_2g_m + 4C_2C_5L_5R_1 + C_2C_5L_5R_2\right) + s^2\left(C_2L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_2R_1R_2g_m + 4C_2R_1 + C_2R_2\right) + 1}$$

10.26 INVALID-ORDER-26
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_1 g_m + s^3 \left(C_2 C_5 L_5 R_1 R_2 g_m + C_2 C_5 L_5 R_1\right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 g_m - C_2 C_5 R_1 R_2 + C_2 C_5 R_1 R_5 + C_5 L_5 R_1 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1\right)}{C_2 C_5 L_5 s^3 + s^2 \left(2 C_2 C_5 R_1 R_2 g_m + 4 C_2 C_5 R_1 + C_2 C_5 R_2 + C_2 C_5 R_5\right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5\right)}$$

10.27 INVALID-ORDER-27
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_5R_1R_2R_5s^3 - R_1R_5 + s^2\left(C_2L_5R_1R_2R_5g_m - C_2L_5R_1R_2 + C_2L_5R_1R_5 - C_5L_5R_1R_5\right) + s\left(-C_2R_1R_2R_5 + L_5R_1R_5g_m - L_5R_1\right)}{2R_1R_5g_m + R_5 + s^3\left(2C_2C_5L_5R_1R_2R_5g_m + 4C_2C_5L_5R_1R_5 + C_2C_5L_5R_2R_5\right) + s^2\left(2C_2L_5R_1R_2g_m + 4C_2L_5R_1 + C_2L_5R_2 + C_2L_5R_5 + 2C_5L_5R_1R_5g_m + C_5L_5R_5\right) + s\left(2C_2R_1R_2R_5g_m + 4C_2R_1R_5 + C_2R_2R_5 + 2L_5R_1g_m + L_5\right)}$$

10.28 INVALID-ORDER-28
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_2 C_5 L_5 R_1 R_2 R_5 g_m - C_2 C_5 L_5 R_1 R_2 + C_2 C_5 L_5 R_1 R_5\right) + s^2 \left(C_2 L_5 R_1 R_2 g_m + C_2 L_5 R_1 + C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5 + L_5 R_1 g_m\right)}{2 R_1 g_m + s^3 \left(2 C_2 C_5 L_5 R_1 R_2 g_m + 4 C_2 C_5 L_5 R_1 + C_2 C_5 L_5 R_2 + C_2 C_5 L_5 R_5\right) + s^2 \left(C_2 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(2 C_2 R_1 R_2 g_m + 4 C_2 R_1 + C_2 R_2 + C_2 R_5\right) + 1}$$

10.29 INVALID-ORDER-29
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.30 INVALID-ORDER-30
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_1s^3 + C_2L_2R_1g_ms^2 + R_1g_m + s\left(C_2R_1 - C_5R_1\right)}{4C_2C_5R_1s^2 + s^3\left(2C_2C_5L_2R_1g_m + C_2C_5L_2\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.31 INVALID-ORDER-31
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(C_2L_2R_1R_5g_m - C_2L_2R_1\right) + s\left(C_2R_1R_5 - C_5R_1R_5\right)}{2R_1g_m + s^3\left(2C_2C_5L_2R_1R_5g_m + C_2C_5L_2R_5\right) + s^2\left(4C_2C_5R_1R_5 + 2C_2L_2R_1g_m + C_2L_2\right) + s\left(4C_2R_1 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.32 INVALID-ORDER-32
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_1 g_m + s^3 \left(C_2 C_5 L_2 R_1 R_5 g_m - C_2 C_5 L_2 R_1 \right) + s^2 \left(C_2 C_5 R_1 R_5 + C_2 L_2 R_1 g_m \right) + s \left(C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1 \right)}{s^3 \left(2 C_2 C_5 L_2 R_1 g_m + C_2 C_5 L_2 \right) + s^2 \left(4 C_2 C_5 R_1 + C_2 C_5 R_5 \right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5 \right)}$$

10.33 INVALID-ORDER-33
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_2C_5L_2R_1 + C_2C_5L_5R_1\right) + s^2\left(C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1\right)}{4C_2C_5R_1s^2 + s^3\left(2C_2C_5L_2R_1g_m + C_2C_5L_2 + C_2C_5L_5\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.34 INVALID-ORDER-34
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2L_5R_1s^4 + C_2L_2L_5R_1g_ms^3 + L_5R_1g_ms - R_1 + s^2\left(-C_2L_2R_1 + C_2L_5R_1 - C_5L_5R_1\right)}{4C_2C_5L_5R_1s^3 + 4C_2R_1s + 2R_1g_m + s^4\left(2C_2C_5L_2L_5R_1g_m + C_2C_5L_2L_5\right) + s^2\left(2C_2L_2R_1g_m + C_2L_2 + C_2L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + 1}$$

10.35 INVALID-ORDER-35
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5R_1g_ms^4 + R_1g_m + s^3\left(C_2C_5L_2R_1R_5g_m - C_2C_5L_2R_1 + C_2C_5L_5R_1\right) + s^2\left(C_2C_5R_1R_5 + C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1 + C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(2C_2C_5L_2R_1g_m + C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(4C_2C_5R_1 + C_2C_5R_5\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.36 INVALID-ORDER-36
$$Z(s) = \left(R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2L_5R_1R_5s^4 - R_1R_5 + s^3\left(C_2L_2L_5R_1R_5g_m - C_2L_2L_5R_1\right) + s^2\left(-C_2L_2R_1R_5 + C_2L_5R_1R_5 - C_5L_5R_1R_5\right) + s\left(L_5R_1R_5g_m - L_5R_1\right)}{2R_1R_5g_m + R_5 + s^4\left(2C_2C_5L_2L_5R_1R_5g_m + C_2C_5L_2L_5R_1\right) + s^3\left(4C_2C_5L_2L_5R_1R_5 + 2C_2L_2L_5R_1g_m + C_2L_2L_5\right) + s^2\left(2C_2L_2R_1R_5g_m + C_2L_2R_5 + 4C_2L_5R_1 + C_2L_5R_5 + 2C_5L_5R_1R_5g_m + C_5L_5R_5\right) + s\left(4C_2R_1R_5 + 2L_5R_1g_m + L_5\right)}$$

10.37 INVALID-ORDER-37
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_2 L_5 R_1\right) + s^3 \left(C_2 C_5 L_5 R_1 R_5 + C_2 L_2 L_5 R_1 g_m\right) + s^2 \left(C_2 L_2 R_1 R_5 g_m - C_2 L_2 R_1 + C_2 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right) + s \left(C_2 R_1 R_5 + L_5 R_1 g_m\right)}{2 R_1 g_m + s^4 \left(2 C_2 C_5 L_2 L_5 R_1 g_m + C_2 C_5 L_2 L_5\right) + s^3 \left(4 C_2 C_5 L_5 R_1 + C_2 C_5 L_5 R_5\right) + s^2 \left(2 C_2 L_2 R_1 g_m + C_2 L_2 + C_2 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(4 C_2 R_1 R_5 + L_5 R_1 g_m\right)}$$

10.38 INVALID-ORDER-38
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.39 INVALID-ORDER-39
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_1s^3 + R_1g_m + s^2\left(-C_2C_5R_1R_2 + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1\right)}{s^3\left(2C_2C_5L_2R_1g_m + C_2C_5L_2\right) + s^2\left(2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_2\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.40 INVALID-ORDER-40
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(-C_2C_5R_1R_2R_5 + C_2L_2R_1R_5g_m - C_2L_2R_1\right) + s\left(C_2R_1R_2R_5g_m - C_2R_1R_2 + C_2R_1R_5 - C_5R_1R_5\right)}{2R_1g_m + s^3\left(2C_2C_5L_2R_1R_5g_m + C_2C_5L_2R_5\right) + s^2\left(2C_2C_5R_1R_2R_5g_m + 4C_2C_5R_1R_5 + C_2C_5R_2R_5 + 2C_2L_2R_1g_m + C_2L_2\right) + s\left(2C_2R_1R_2g_m + 4C_2R_1 + C_2R_2 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.41 INVALID-ORDER-41
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_1 g_m + s^3 \left(C_2 C_5 L_2 R_1 R_5 g_m - C_2 C_5 L_2 R_1\right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 g_m - C_2 C_5 R_1 R_2 + C_2 C_5 R_1 R_5 + C_2 L_2 R_1 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1\right)}{s^3 \left(2 C_2 C_5 L_2 R_1 g_m + C_2 C_5 L_2\right) + s^2 \left(2 C_2 C_5 R_1 R_2 g_m + 4 C_2 C_5 R_1 + C_2 C_5 R_2 + C_2 C_5 R_5\right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5\right)}$$

10.42 INVALID-ORDER-42
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_2C_5L_2R_1 + C_2C_5L_5R_1R_2g_m + C_2C_5L_5R_1\right) + s^2\left(-C_2C_5R_1R_2 + C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1\right)}{s^3\left(2C_2C_5L_2R_1g_m + C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_2\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.43 INVALID-ORDER-43 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2L_5R_1s^4 - R_1 + s^3\left(-C_2C_5L_5R_1R_2 + C_2L_2L_5R_1g_m\right) + s^2\left(-C_2L_2R_1 + C_2L_5R_1R_2g_m + C_2L_5R_1 - C_5L_5R_1\right) + s\left(-C_2R_1R_2 + L_5R_1g_m\right)}{2R_1g_m + s^4\left(2C_2C_5L_2L_5R_1g_m + C_2C_5L_2L_5\right) + s^3\left(2C_2C_5L_5R_1R_2g_m + 4C_2C_5L_5R_1 + C_2C_5L_5R_2\right) + s^2\left(2C_2L_2R_1g_m + C_2L_2 + C_2L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_2R_1R_2g_m + 4C_2R_1 + C_2R_2\right) + 1}$

10.44 INVALID-ORDER-44 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_2C_5L_2L_5R_1g_ms^4 + R_1g_m + s^3\left(C_2C_5L_2R_1R_5g_m - C_2C_5L_2R_1 + C_2C_5L_5R_1R_2g_m + C_2C_5L_5R_1\right) + s^2\left(C_2C_5R_1R_2R_5g_m - C_2C_5R_1R_2 + C_2C_5R_1R_5 + C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(2C_2C_5L_2R_1g_m + C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_2 + C_2C_5R_5\right) + s\left(C_2 + 2C_5R_1g_m + C_5R_1g_m + C_5R$

10.45 INVALID-ORDER-45 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2L_5R_1R_5s^4 - R_1R_5 + s^3\left(-C_2C_5L_5R_1R_2R_5 + C_2L_2L_5R_1R_5g_m - C_2L_2L_5R_1\right) + s^2\left(-C_2L_2R_1R_5 + C_2L_5R_1R_2R_5g_m - C_2L_5R_1R_2 + C_2L_5R_1R_5 - C_5L_5R_1R_5\right) + s\left(-C_2R_1R_2R_5 + L_5R_1R_5g_m - C_2L_2L_5R_1R_5 + C_2L_5R_1R_5 + C_2L_5R_1R$

10.46 INVALID-ORDER-46 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_2 L_5 R_1\right) + s^3 \left(C_2 C_5 L_5 R_1 R_2 R_5 g_m - C_2 C_5 L_5 R_1 R_2 + C_2 C_5 L_5 R_1 R_5 + C_2 L_2 L_5 R_1 g_m\right) + s^2 \left(C_2 L_2 R_1 R_5 g_m - C_2 L_5 R_1 R_2 g_m + C_2 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5 g_m - C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2$

10.47 INVALID-ORDER-47 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_2 R_1 R_5 g_m - C_2 C_5 L_2 R_1 R_5 g_m - C_2 C_5 L_5 R_1 R_2 R_5 g_m - C_2 C_5 L_5 R_1 R_2 + C_2 C_5 L_5 R_1 R_2 R_5 g_m - C_2 L_2 R_1 R_5 g_m - C_2 L_2 R_1 R_5 g_m - C_5 L_5 R_1 R_2 R_5 g_m - C_5 L_5 R_1 R_5 g_m - C_5 L_5 R$

10.48 INVALID-ORDER-48 $Z(s) = \left(R_1, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{-C_2C_5L_2R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 - C_5L_2R_1\right) + s\left(-C_5R_1R_2 + L_2R_1g_m\right)}{s^3\left(2C_2C_5L_2R_1R_2g_m + 4C_2C_5L_2R_1 + C_2C_5L_2R_2\right) + s^2\left(C_2L_2 + 2C_5L_2R_1g_m + C_5L_2\right) + s\left(2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

10.49 INVALID-ORDER-49 $Z(s) = \left(R_1, \ \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \ \infty, \ \infty, \ \frac{R_5}{C_5R_5s + 1}, \ \infty\right)$

 $H(s) = \frac{-C_2C_5L_2R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_2L_2R_1R_2R_5g_m - C_2L_2R_1R_2 + C_2L_2R_1R_5 - C_5L_2R_1R_5\right) + s\left(-C_5R_1R_2R_5 + L_2R_1R_5g_m - L_2R_1\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(2C_2C_5L_2R_1R_2R_5g_m + 4C_2C_5L_2R_1R_5 + c_2C_5L_2R_1R_2g_m + 4C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_5 + 2C_5L_2R_1R_5g_m + C_5L_2R_5\right) + s\left(2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5 + 2L_2R_1g_m + 4C_5R_1R_5 + C_5R_2R_5 + 2L_2R_1g_m + 4C_5R_1R_5 + C_5R_2R_5 + 2L_2R_1R_5g_m + 4C_5R_1R_5 + C_5R_2R_5 + 2L_2R_1R_5g_m + 4C_5R_1R_5g_m + 4C_5R_1R_5 + C_5R_2R_5 + 2L_2R_1R_5g_m + 4C_5R_1R_5g_m + 4C_5R_1R_5g$

10.50 INVALID-ORDER-50 $Z(s) = \left(R_1, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_5 L_2 R_1 R_2 R_5 g_m - C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_2 R_1 R_5\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_5 L_2 R_1 R_5 g_m - C_5 L_2 R_1\right) + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_5 + L_2 R_1 g_m\right)}{s^3 \left(2 C_2 C_5 L_2 R_1 R_2 g_m + 4 C_2 C_5 L_2 R_1 + C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_5\right) + s^2 \left(C_2 L_2 + 2 C_5 L_2 R_1 g_m + C_5 L_2\right) + s \left(2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 + C_5 R_5\right) + 1}$

10.51 INVALID-ORDER-51 $Z(s) = \left(R_1, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_2 C_5 L_2 L_5 R_1\right) + s^3 \left(-C_2 C_5 L_2 R_1 R_2 + C_5 L_2 L_5 R_1 g_m\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 - C_5 L_2 R_1 + C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(-C_5 R_1 R_2 + L_2 R_1 g_m\right)}{C_2 C_5 L_2 L_5 s^4 + s^3 \left(2C_2 C_5 L_2 R_1 R_2 g_m + 4C_2 C_5 L_2 R_1 + C_2 C_5 L_2 R_2\right) + s^2 \left(C_2 L_2 + 2C_5 L_2 R_1 g_m + C_5 L_2 + C_5 L_5\right) + s \left(2C_5 R_1 R_2 g_m + 4C_5 R_1 + C_5 R_2\right) + 1}$

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10.52 INVALID-ORDER-52 Z(s) = \left(R_1, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)
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$$H(s) = \frac{-C_2C_5L_2L_5R_1R_2s^4 - R_1R_2 + s^3\left(C_2L_2L_5R_1R_2g_m + C_2L_2L_5R_1 - C_5L_2L_5R_1\right) + s^2\left(-C_2L_2R_1R_2 - C_5L_5R_1g_m\right) + s\left(-L_2R_1 + L_5R_1R_2g_m + L_5R_1\right)}{2R_1R_2g_m + 4R_1 + R_2 + s^4\left(2C_2C_5L_2L_5R_1R_2g_m + 4C_2C_5L_2L_5R_1 + C_2C_5L_2L_5R_2\right) + s^3\left(C_2L_2L_5 + 2C_5L_2L_5R_1g_m + C_5L_2L_5\right) + s^2\left(2C_2L_2R_1R_2g_m + 4C_2L_2R_1 + C_2L_2R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_2L_2R_1R_2g_m + 4C_2L_2R_1 + C_2L_2R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_2L_2R_1R_2g_m + 4C_3L_2R_1 + C_3L_2R_1\right) + s^2\left(2C_3L_2R_1R_2g_m + 4C_3L_2R_1\right) + s^2\left(2C_3L_2R_1R_2g_m + 4C_3L_2R_1 + C_3L_2R_1\right) + s^2\left(2C_3L_2R_1R_2g_m + 4C_3L_2R_1\right) + s^2\left(2C_3L_$$

10.53 INVALID-ORDER-53
$$Z(s) = \left(R_1, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_1R_2g_m + R_1 + s^4\left(C_2C_5L_2L_5R_1R_2g_m + C_2C_5L_2L_5R_1\right) + s^3\left(C_2C_5L_2R_1R_2R_5g_m - C_2C_5L_2R_1R_2 + C_2C_5L_2R_1R_5 + C_5L_2L_5R_1g_m\right) + s^2\left(C_2L_2R_1R_2g_m + C_5L_2R_1R_5g_m - C_5L_2R_1 + C_5L_5R_1R_2g_m + C_5L_5R_1\right) + s\left(C_5R_1R_2R_5g_m - C_5R_1R_2 + C_5R_1R_2g_m + C_5R_1R_2g$$

10.54 INVALID-ORDER-54
$$Z(s) = \left(R_1, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2L_5R_1R_2R_5s^4 - R_1R_2R_5 + s^3\left(C_2L_2L_5R_1R_2 + C_2L_2L_5R_1R_5 - C_5L_2L_5R_1R_5\right) + s^2\left(-C_2L_2R_1R_2R_5 - C_5L_5R_1R_2R_5 + L_2L_5R_1R_5g_m - L_2L_5R_1\right) + s^2\left(-C_2L_2R_1R_2R_5 + s^4\left(2C_2C_5L_2L_5R_1R_2R_5 + s^4\left(2C_2C_5L_2L_5R_1R_2R_5 + s^4\left(2C_2L_5R_1R_2R_5 + C_2L_2L_5R_1R_2g_m + 4C_2L_2L_5R_1 + C_2L_2L_5R_1R_2g_m + 4C_2L_2L_5R_1\right) + s^2\left(2C_2L_2R_1R_2R_5 + s^4\left(2C_2C_5L_2L_5R_1R_2R_5 + s^4c_2C_5L_2L_5R_1R_2R_5 + s^4c_2C_5L_2L_5R_1R_2R_5 + s^4c_2C_5L_2R_2R_5 +$$

10.55 INVALID-ORDER-55
$$Z(s) = \left(R_1, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_2C_5L_2L_5R_1R_2R_5g_m - C_2C_5L_2L_5R_1R_2 + C_2C_5L_2L_5R_1R_2 + C_2C_5L_2L_5R_1R_2 + C_2L_2R_1R_2 + C_$$

10.56 INVALID-ORDER-56
$$Z(s) = \left(R_1, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

10.57 INVALID-ORDER-57
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1\right) + s\left(C_2R_1R_2 - C_5R_1R_2\right)}{s^3\left(2C_2C_5L_2R_1R_2g_m + 4C_2C_5L_2R_1 + C_2C_5L_2R_2\right) + s^2\left(4C_2C_5R_1R_2 + C_2L_2\right) + s\left(C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

10.58 INVALID-ORDER-58
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_2L_2R_1R_2R_5g_m - C_2L_2R_1R_2 + C_2L_2R_1R_5\right) + s\left(C_2R_1R_2R_5 - C_5R_1R_2R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(2C_2C_5L_2R_1R_2R_5g_m + 4C_2C_5L_2R_1R_5 + s^2\left(4C_2C_5R_1R_2R_5 + 2C_2L_2R_1R_2g_m + 4C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_5\right) + s\left(4C_2R_1R_2 + C_2R_2R_5 + 2C_5R_1R_2R_5 + 2C_5R_1R_2R_5\right)}$$

10.59 INVALID-ORDER-59
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_5 L_2 R_1 R_2 R_5 g_m - C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_2 R_1 R_5\right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1\right) + s \left(C_2 R_1 R_2 + C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_2\right)}{s^3 \left(2 C_2 C_5 L_2 R_1 R_2 g_m + 4 C_2 C_5 L_2 R_1 + C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_5\right) + s^2 \left(4 C_2 C_5 R_1 R_2 + C_2 C_5 R_2 R_5 + C_2 L_2\right) + s \left(C_2 R_2 + 2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 + C_5 R_5\right) + 1}$$

10.60 INVALID-ORDER-60
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_2 C_5 L_2 L_5 R_1\right) + s^3 \left(-C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_5 R_1 R_2\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 - C_5 R_1 R_2\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 - C_5 R_1 R_2\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 - C_5 R_1 R_2\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 G_m + C_5 L_5 R_1 R_2 G_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 G_m + C_5 L_5 R_1 R_2 G_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 G_m + C_5 L_5 R_1 R_2 G_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 G_m +$$

$$\textbf{10.61} \quad \textbf{INVALID-ORDER-61} \ \ Z(s) = \left(R_1, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty \right)$$

$$H(s) = \frac{-C_2 C_5 L_2 L_5 R_1 R_2 s^4 - R_1 R_2 + s^3 \left(C_2 L_2 L_5 R_1 R_2 g_m + C_2 L_2 L_5 R_1 \right) + s^2 \left(-C_2 L_2 R_1 R_2 + C_2 L_5 R_1 R_2 \right) + s \left(L_5 R_1 R_2 g_m + L_5 R_1 \right) }{2 R_1 R_2 g_m + 4 R_1 + R_2 + s^4 \left(2 C_2 C_5 L_2 L_5 R_1 R_2 g_m + 4 C_2 C_5 L_2 L_5 R_1 + C_2 C_5 L_2 L_5 R_2 \right) + s^3 \left(4 C_2 C_5 L_5 R_1 R_2 + C_2 L_2 L_5 \right) + s^2 \left(2 C_2 L_2 R_1 R_2 g_m + 4 C_2 L_2 R_1 + C_2 L_2 R_2 + C_2 L_5 R_2 + 2 C_5 L_5 R_1 R_2 g_m + 4 C_5 L_5 R_1$$

10.62 INVALID-ORDER-62
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_2 C_5 L_2 L_5 R_1\right) + s^3 \left(C_2 C_5 L_2 R_1 R_2 R_5 g_m - C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_2 R_1 R_2\right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 + C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_2\right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 + C_2 L_2 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 + C_5 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 R_5 + C_2 L_2 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(C_2 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2\right) + s \left(C_2 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2\right) + s \left(C_2 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2\right) + s \left(C_2 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2\right) + s \left(C_2 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2\right) + s \left(C_2 R_1 R_2 R_5 R_1 R_2 R_5 R_1 R_2\right) + s \left$

10.63 INVALID-ORDER-63
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

 $H(s) = \frac{-C_2C_5L_2L_5R_1R_2R_5s^4 - R_1R_2R_5 + s^3\left(C_2L_2L_5R_1R_2 + C_2L_2L_5R_1R_2 + C_2L_2L_5R_1R_2 + C_2L_2L_5R_1R_2 + C_2L_2R_1R_2R_5 + C_2L_5R_1R_2R_5 + C_5L_5R_1R_2R_5 + s^4\left(2C_2C_5L_2L_5R_1R_2R_5 + s^4c_2C_5L_2L_5R_1R_2R_5 + s^4c_2C_5L_2R_1R_2R_5 + s^4c_2C_5L_2R_1R_2R_5$

10.64 INVALID-ORDER-64
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$$

 $H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_2 R_5 g_m - C_2 C_5 L_2 L_5 R_1 R_2 + C_2 L_5 R_1 R_2 + C_2 L_5 R_1 R_2 R_5 + C_2 L_2 L_5 R_1 R_2 R_5 + C_2 L_2 L_5 R_1 R_2 R_5 g_m - C_2 L_2 R_1 R_2 + C_2 L_2 R_1 R_2 +$

10.65 INVALID-ORDER-65
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

10.66 INVALID-ORDER-66 $Z(s) = (L_1 s, R_2, \infty, \infty, R_5, \infty)$

$$H(s) = \frac{s(L_1R_2R_5g_m - L_1R_2 + L_1R_5)}{R_2 + R_5 + s(2L_1R_2g_m + 4L_1)}$$

10.67 INVALID-ORDER-67 $Z(s) = \left(L_1 s, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_2 s^2 + s^3 \left(C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{C_5 R_2 s + s^2 \left(2 C_5 L_1 R_2 g_m + 4 C_5 L_1 + C_5 L_5 \right) + 1}$$

10.68 INVALID-ORDER-68 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_2 s^3 - L_1 R_2 s + s^2 \left(L_1 L_5 R_2 g_m + L_1 L_5\right)}{C_5 L_5 R_2 s^2 + R_2 + s^3 \left(2C_5 L_1 L_5 R_2 g_m + 4C_5 L_1 L_5\right) + s \left(2L_1 R_2 g_m + 4L_1 + L_5\right)}$$

10.69 INVALID-ORDER-69 $Z(s) = \left(L_1 s, \ R_2, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{s^3 \left(C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5 \right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^2 \left(2 C_5 L_1 R_2 g_m + 4 C_5 L_1 + C_5 L_5 \right) + s \left(C_5 R_2 + C_5 R_5 \right) + 1}$$

10.70 INVALID-ORDER-70
$$Z(s) = \left(L_1 s, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_5L_1L_5R_2R_5s^3 - L_1R_2R_5s + s^2\left(L_1L_5R_2R_5g_m - L_1L_5R_2 + L_1L_5R_5\right)}{R_2R_5 + s^3\left(2C_5L_1L_5R_2g_m + 4C_5L_1L_5R_5\right) + s^2\left(C_5L_5R_2R_5 + 2L_1L_5R_2g_m + 4L_1L_5\right) + s\left(2L_1R_2R_5g_m + 4L_1R_5 + L_5R_2 + L_5R_5\right)}$$

10.71 INVALID-ORDER-71
$$Z(s) = \left(L_1 s, R_2, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{s^3 \left(C_5 L_1 L_5 R_2 R_5 g_m - C_5 L_1 L_5 R_2 + C_5 L_1 L_5 R_5\right) + s^2 \left(L_1 L_5 R_2 g_m + L_1 L_5\right) + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5\right)}{R_2 + R_5 + s^3 \left(2 C_5 L_1 L_5 R_2 g_m + 4 C_5 L_1 L_5\right) + s^2 \left(C_5 L_5 R_2 + C_5 L_5 R_5\right) + s \left(2 L_1 R_2 g_m + 4 L_1 + L_5\right)}$$

10.72 INVALID-ORDER-72
$$Z(s) = \left(L_1 s, R_2, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_1R_2R_5s^2 + s^3\left(C_5L_1L_5R_2R_5g_m - C_5L_1L_5R_2 + C_5L_1L_5R_5\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{R_2 + R_5 + s^3\left(2C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(2C_5L_1R_2R_5g_m + 4C_5L_1R_5 + C_5L_5R_2 + C_5L_5R_5\right) + s\left(C_5R_2R_5 + 2L_1R_2g_m + 4L_1\right)}$$

10.73 INVALID-ORDER-73
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{s^2 \left(C_2 L_1 R_5 - C_5 L_1 R_5 \right) + s \left(L_1 R_5 g_m - L_1 \right)}{4 C_2 C_5 L_1 R_5 s^3 + s^2 \left(4 C_2 L_1 + 2 C_5 L_1 R_5 g_m \right) + s \left(C_2 R_5 + C_5 R_5 + 2 L_1 g_m \right) + 1}$$

10.74 INVALID-ORDER-74
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2 C_5 L_1 L_5 s^3 + C_5 L_1 L_5 g_m s^2 + L_1 g_m + s \left(C_2 L_1 - C_5 L_1 \right)}{C_2 + 2 C_5 L_1 g_m s + C_5 + s^2 \left(4 C_2 C_5 L_1 + C_2 C_5 L_5 \right)}$$

10.75 INVALID-ORDER-75
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_1 L_5 g_m s^2 - L_1 s + s^3 \left(C_2 L_1 L_5 - C_5 L_1 L_5 \right)}{4 C_2 C_5 L_1 L_5 s^4 + 2 C_5 L_1 L_5 g_m s^3 + 2 L_1 g_m s + s^2 \left(4 C_2 L_1 + C_2 L_5 + C_5 L_5 \right) + 1}$$

10.76 INVALID-ORDER-76
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_5s^3 + L_1g_m + s^2\left(C_2C_5L_1R_5 + C_5L_1L_5g_m\right) + s\left(C_2L_1 + C_5L_1R_5g_m - C_5L_1\right)}{C_2 + C_5 + s^2\left(4C_2C_5L_1 + C_2C_5L_5\right) + s\left(C_2C_5R_5 + 2C_5L_1g_m\right)}$$

10.77 INVALID-ORDER-77
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-L_1R_5s + s^3\left(C_2L_1L_5R_5 - C_5L_1L_5R_5\right) + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{4C_2C_5L_1L_5R_5s^4 + R_5 + s^3\left(4C_2L_1L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(4C_2L_1R_5 + C_2L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(2L_1R_5g_m + L_5\right)}$$

10.78 INVALID-ORDER-78
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_5R_5s^4 + s^3\left(C_2L_1L_5 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_2L_1R_5 + L_1L_5g_m\right) + s\left(L_1R_5g_m - L_1\right)}{4C_2C_5L_1L_5s^4 + s^3\left(C_2C_5L_5R_5 + 2C_5L_1L_5g_m\right) + s^2\left(4C_2L_1 + C_2L_5 + C_5L_5\right) + s\left(C_2R_5 + 2L_1g_m\right) + 1}$$

10.79 INVALID-ORDER-79
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_5R_5s^4 + s^3\left(C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_2L_1R_5 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{4C_2C_5L_1L_5s^4 + s^3\left(4C_2C_5L_1R_5 + C_2C_5L_5R_5 + 2C_5L_1L_5g_m\right) + s^2\left(4C_2L_1 + 2C_5L_1R_5g_m + C_5L_5\right) + s\left(C_2R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.80 INVALID-ORDER-80
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{s^2 \left(C_2 L_1 R_2 - C_5 L_1 R_2 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{4 C_2 C_5 L_1 R_2 s^3 + s^2 \left(2 C_5 L_1 R_2 g_m + 4 C_5 L_1 \right) + s \left(C_2 R_2 + C_5 R_2 \right) + 1}$$

10.81 INVALID-ORDER-81
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{s^2 \left(C_2 L_1 R_2 R_5 - C_5 L_1 R_2 R_5\right) + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5\right)}{4 C_2 C_5 L_1 R_2 R_5 s^3 + R_2 + R_5 + s^2 \left(4 C_2 L_1 R_2 + 2 C_5 L_1 R_2 R_5 g_m + 4 C_5 L_1 R_5\right) + s \left(C_2 R_2 R_5 + C_5 R_2 R_5 + 2 L_1 R_2 g_m + 4 L_1\right)}$$

10.82 INVALID-ORDER-82
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1R_2R_5s^3 + s^2\left(C_2L_1R_2 + C_5L_1R_2R_5g_m - C_5L_1R_2 + C_5L_1R_5\right) + s\left(L_1R_2g_m + L_1\right)}{4C_2C_5L_1R_2s^3 + s^2\left(C_2C_5R_2R_5 + 2C_5L_1R_2g_m + 4C_5L_1\right) + s\left(C_2R_2 + C_5R_2 + C_5R_5\right) + 1}$$

10.83 INVALID-ORDER-83
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_5R_2s^4 + s^3\left(C_5L_1L_5R_2g_m + C_5L_1L_5\right) + s^2\left(C_2L_1R_2 - C_5L_1R_2\right) + s\left(L_1R_2g_m + L_1\right)}{s^3\left(4C_2C_5L_1R_2 + C_2C_5L_5R_2\right) + s^2\left(2C_5L_1R_2g_m + 4C_5L_1 + C_5L_5\right) + s\left(C_2R_2 + C_5R_2\right) + 1}$$

10.84 INVALID-ORDER-84
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-L_1R_2s + s^3\left(C_2L_1L_5R_2 - C_5L_1L_5R_2\right) + s^2\left(L_1L_5R_2g_m + L_1L_5\right)}{4C_2C_5L_1L_5R_2s^4 + R_2 + s^3\left(2C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(4C_2L_1R_2 + C_2L_5R_2 + C_5L_5R_2\right) + s\left(2L_1R_2g_m + 4L_1 + L_5\right)}$$

10.85 INVALID-ORDER-85
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_5R_2s^4 + s^3\left(C_2C_5L_1R_2R_5 + C_5L_1L_5R_2g_m + C_5L_1L_5\right) + s^2\left(C_2L_1R_2 + C_5L_1R_2R_5g_m - C_5L_1R_2 + C_5L_1R_5\right) + s\left(L_1R_2g_m + L_1\right)}{s^3\left(4C_2C_5L_1R_2 + C_2C_5L_5R_2\right) + s^2\left(C_2C_5R_2R_5 + 2C_5L_1R_2g_m + 4C_5L_1 + C_5L_5\right) + s\left(C_2R_2 + C_5R_2 + C_5R_5\right) + 1}$$

10.86 INVALID-ORDER-86
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

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

10.87 INVALID-ORDER-87
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_5R_2R_5s^4 + s^3\left(C_2L_1L_5R_2 + C_5L_1L_5R_2R_5g_m - C_5L_1L_5R_2 + C_5L_1L_5R_5\right) + s^2\left(C_2L_1R_2R_5 + L_1L_5R_2g_m + L_1L_5\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{4C_2C_5L_1L_5R_2s^4 + R_2 + R_5 + s^3\left(C_2C_5L_5R_2R_5 + 2C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(4C_2L_1R_2 + C_2L_5R_2 + C_5L_5R_2 + C_5L_5R_5\right) + s\left(C_2R_2R_5 + 2L_1R_2g_m + 4L_1 + L_5\right)}$$

$$\begin{aligned} \textbf{10.88} \quad \textbf{INVALID-ORDER-88} \ Z(s) &= \left(L_1 s, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \\ & H(s) &= \frac{C_2 C_5 L_1 L_5 R_2 R_5 s^4 + s^3 \left(C_5 L_1 L_5 R_2 R_5 g_m - C_5 L_1 L_5 R_2 + C_5 L_1 L_5 R_5 \right) + s^2 \left(C_2 L_1 R_2 R_5 - C_5 L_1 R_2 R_5 \right) + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5 \right) }{4 C_2 C_5 L_1 L_5 R_2 s^4 + R_2 + R_5 + s^3 \left(4 C_2 C_5 L_1 R_2 R_5 + 2 C_5 L_1 L_5 R_2 g_m + 4 C_5 L_1 L_5 \right) + s^2 \left(4 C_2 L_1 R_2 + 2 C_5 L_1 R_2 R_5 g_m + 4 C_5 L_1 R_5 + C_5 L_5 R_5 \right) + s \left(C_2 R_2 R_5 + C_5 R_2 R_5 + 2 L_1 R_2 g_m + 4 L_1 \right) }{4 C_2 C_5 L_1 L_5 R_2 s^4 + R_2 + R_5 + s^3 \left(4 C_2 C_5 L_1 R_2 R_5 + 2 C_5 L_1 L_5 R_2 g_m + 4 C_5 L_1 L_5 \right) + s^2 \left(4 C_2 L_1 R_2 R_5 g_m + 4 C_5 L_1 R_5 + C_5 L_5 R_5 \right) + s \left(C_2 R_2 R_5 + C_5 R_2 R_5 + 2 L_1 R_2 g_m + 4 L_1 \right) }{4 C_2 C_5 L_1 L_5 R_2 s^4 + R_2 + R_5 + s^3 \left(4 C_2 C_5 L_1 R_2 R_5 + 2 C_5 L_1 L_5 R_2 g_m + 4 C_5 L_1 L_5 \right) + s^2 \left(4 C_2 L_1 R_2 R_5 g_m + 4 C_5 L_1 R_5 + C_5 L_5 R_5 \right) + s \left(C_2 R_2 R_5 + C_5 R_2 R_5 + 2 L_1 R_2 g_m + 4 L_1 \right) }{4 C_2 C_5 L_1 L_5 R_2 s^4 + R_2 + R_5 + s^3 \left(4 C_2 C_5 L_1 R_2 R_5 + 2 C_5 L_1 L_5 R_2 g_m + 4 C_5 L_1 L_5 \right) + s^2 \left(4 C_2 L_1 R_2 R_5 + 2 C_5 L_1 R_2 R_5 \right) + s \left(4 C_2 L_1 R_2 R_5 + 2 C_5 L_1 R_2 R_5 \right) + s \left(4 C_2 L_1 R_2 R_5 + 2 C_5 L_1 R_2 R_5 \right) + s \left(4 C_2 L_1 R_2 R_5 + 2 C_5 L_1 R_2 R_5 \right) + s \left(4 C_2 L_1 R_2 R_5 \right)$$

10.89 INVALID-ORDER-89
$$Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_1R_2R_5s^3 + s^2\left(C_2L_1R_2R_5g_m - C_2L_1R_2 + C_2L_1R_5 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{s^3\left(2C_2C_5L_1R_2R_5g_m + 4C_2C_5L_1R_5\right) + s^2\left(C_2C_5R_2R_5 + 2C_2L_1R_2g_m + 4C_2L_1 + 2C_5L_1R_5g_m\right) + s\left(C_2R_2 + C_2R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.90 INVALID-ORDER-90
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_5 L_1 L_5 R_2 g_m + C_2 C_5 L_1 L_5 \right) + s^2 \left(-C_2 C_5 L_1 R_2 + C_5 L_1 L_5 g_m \right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 - C_5 L_1 \right)}{C_2 + C_5 + s^2 \left(2C_2 C_5 L_1 R_2 g_m + 4C_2 C_5 L_1 + C_2 C_5 L_5 \right) + s \left(C_2 C_5 R_2 + 2C_5 L_1 g_m \right)}$$

10.91 INVALID-ORDER-91
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

$$H(s) = \frac{-C_2C_5L_1L_5R_2s^4 - L_1s + s^3\left(C_2L_1L_5R_2g_m + C_2L_1L_5 - C_5L_1L_5\right) + s^2\left(-C_2L_1R_2 + L_1L_5g_m\right)}{s^4\left(2C_2C_5L_1L_5R_2g_m + 4C_2C_5L_1L_5\right) + s^3\left(C_2C_5L_5R_2 + 2C_5L_1L_5g_m\right) + s^2\left(2C_2L_1R_2g_m + 4C_2L_1 + C_2L_5 + C_5L_5\right) + s\left(C_2R_2 + 2L_1g_m\right) + 1}$$

10.92 INVALID-ORDER-92
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_5 L_1 L_5 R_2 g_m + C_2 C_5 L_1 L_5\right) + s^2 \left(C_2 C_5 L_1 R_2 R_5 g_m - C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_5 + C_5 L_1 L_5 g_m\right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_2 + C_5 + s^2 \left(2 C_2 C_5 L_1 R_2 g_m + 4 C_2 C_5 L_1 + C_2 C_5 L_5\right) + s \left(C_2 C_5 R_2 + C_2 C_5 R_5 + 2 C_5 L_1 g_m\right)}$$

10.93 INVALID-ORDER-93
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$$

$$H(s) = \frac{-C_2C_5L_1L_5R_2R_5s^4 - L_1R_5s + s^3\left(C_2L_1L_5R_2R_5g_m - C_2L_1L_5R_2 + C_2L_1L_5R_5 - C_5L_1L_5R_5\right) + s^2\left(-C_2L_1R_2R_5 + L_1L_5R_5g_m - L_1L_5\right)}{R_5 + s^4\left(2C_2C_5L_1L_5R_2g_m + 4C_2C_5L_1L_5R_5\right) + s^3\left(C_2C_5L_5R_2R_5 + 2C_2L_1L_5R_2g_m + 4C_2L_1L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m + 4C_2L_1R_5 + C_2L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(C_2R_2R_5 + 2L_1R_5g_m + 4C_2L_1R_5 + 2C_2L_1R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m + 4C_2L_1R_5 + C_2L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(C_2R_2R_5 + 2L_1R_5g_m + 4C_2L_1R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m + 4C_2L_1R_5 + C_2L_5R_5 + C_2L_5R_5 + C_2L_5R_5 + 2L_1L_5g_m\right) + s\left(C_2R_2R_5 + 2L_1R_5g_m + 4C_2L_1R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m + 4C_2L_1R_5 + 2C_2L_1R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m + 4C_2L_1R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m\right) + s^2\left(2C_2L_1R_2R_5g_m$$

10.94 INVALID-ORDER-94
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

$$H(s) = \frac{s^4 \left(C_2 C_5 L_1 L_5 R_2 R_5 g_m - C_2 C_5 L_1 L_5 R_2 + C_2 C_5 L_1 L_5 R_5\right) + s^3 \left(C_2 L_1 L_5 R_2 g_m + C_2 L_1 L_5 + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 R_2 + C_2 L_1 R_5 + L_1 L_5 g_m\right) + s \left(L_1 R_5 g_m - L_1\right)}{s^4 \left(2 C_2 C_5 L_1 L_5 R_2 g_m + 4 C_2 C_5 L_1 L_5\right) + s^3 \left(C_2 C_5 L_5 R_2 + C_2 C_5 L_5 R_5 + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(2 C_2 L_1 R_2 g_m + 4 C_2 L_1 + C_2 L_5 + C_5 L_5\right) + s \left(C_2 R_2 + C_2 R_5 + 2 L_1 g_m\right) + 1}$$

10.95 INVALID-ORDER-95
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

10.96 INVALID-ORDER-96
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5, \ \infty\right)$$

$$H(s) = \frac{C_2 L_1 R_5 s^2 + s^3 \left(C_2 L_1 L_2 R_5 g_m - C_2 L_1 L_2 \right) + s \left(L_1 R_5 g_m - L_1 \right)}{2 C_2 L_1 L_2 g_m s^3 + s^2 \left(4 C_2 L_1 + C_2 L_2 \right) + s \left(C_2 R_5 + 2 L_1 g_m \right) + 1}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{-C_2C_5L_1L_2s^3 + C_2L_1L_2g_ms^2 + L_1g_m + s\left(C_2L_1 - C_5L_1\right)}{2C_2C_5L_1L_2g_ms^3 + C_2 + 2C_5L_1g_ms + C_5 + s^2\left(4C_2C_5L_1 + C_2C_5L_2\right)}$$

10.98 INVALID-ORDER-98 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)$

$$H(s) = \frac{-C_2C_5L_1L_2R_5s^4 + s^3\left(C_2L_1L_2R_5g_m - C_2L_1L_2\right) + s^2\left(C_2L_1R_5 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{2C_2C_5L_1L_2R_5g_ms^4 + s^3\left(4C_2C_5L_1R_5 + C_2C_5L_2R_5 + 2C_2L_1L_2g_m\right) + s^2\left(4C_2L_1 + C_2L_2 + 2C_5L_1R_5g_m\right) + s\left(C_2R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.99 INVALID-ORDER-99 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_5 L_1 L_2 R_5 g_m - C_2 C_5 L_1 L_2 \right) + s^2 \left(C_2 C_5 L_1 R_5 + C_2 L_1 L_2 g_m \right) + s \left(C_2 L_1 + C_5 L_1 R_5 g_m - C_5 L_1 \right)}{2 C_2 C_5 L_1 L_2 g_m s^3 + C_2 + C_5 + s^2 \left(4 C_2 C_5 L_1 + C_2 C_5 L_2 \right) + s \left(C_2 C_5 R_5 + 2 C_5 L_1 g_m \right)}$$

10.100 INVALID-ORDER-100 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{C_2C_5L_1L_2L_5g_ms^4 + L_1g_m + s^3\left(-C_2C_5L_1L_2 + C_2C_5L_1L_5\right) + s^2\left(C_2L_1L_2g_m + C_5L_1L_5g_m\right) + s\left(C_2L_1 - C_5L_1\right)}{2C_2C_5L_1L_2g_ms^3 + C_2 + 2C_5L_1g_ms + C_5 + s^2\left(4C_2C_5L_1 + C_2C_5L_2 + C_2C_5L_5\right)}$$

10.101 INVALID-ORDER-101 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$

$$H(s) = \frac{-C_2C_5L_1L_2L_5s^5 + C_2L_1L_2L_5g_ms^4 + L_1L_5g_ms^2 - L_1s + s^3\left(-C_2L_1L_2 + C_2L_1L_5 - C_5L_1L_5\right)}{2C_2C_5L_1L_2L_5g_ms^5 + 2L_1g_ms + s^4\left(4C_2C_5L_1L_5 + C_2C_5L_2L_5\right) + s^3\left(2C_2L_1L_2g_m + 2C_5L_1L_5g_m\right) + s^2\left(4C_2L_1 + C_2L_2 + C_2L_5 + C_5L_5\right) + 1}$$

10.102 INVALID-ORDER-102 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{C_2C_5L_1L_2L_5g_ms^4 + L_1g_m + s^3\left(C_2C_5L_1L_2R_5g_m - C_2C_5L_1L_2 + C_2C_5L_1L_5\right) + s^2\left(C_2C_5L_1R_5 + C_2L_1L_2g_m + C_5L_1L_5g_m\right) + s\left(C_2L_1 + C_5L_1R_5g_m - C_5L_1\right)}{2C_2C_5L_1L_2g_ms^3 + C_2 + C_5 + s^2\left(4C_2C_5L_1 + C_2C_5L_2 + C_2C_5L_5\right) + s\left(C_2C_5R_5 + 2C_5L_1g_m\right)}$$

10.103 INVALID-ORDER-103 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$

$$H(s) = \frac{-C_2C_5L_1L_2L_5R_5s^5 - L_1R_5s + s^4\left(C_2L_1L_2L_5R_5g_m - C_2L_1L_2L_5\right) + s^3\left(-C_2L_1L_2R_5 + C_2L_1L_5R_5 - C_5L_1L_5R_5\right) + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{2C_2C_5L_1L_2L_5R_5g_ms^5 + R_5 + s^4\left(4C_2C_5L_1L_5R_5 + C_2C_5L_2L_5R_5 + 2C_2L_1L_2L_5g_m\right) + s^3\left(2C_2L_1L_2R_5g_m + 4C_2L_1L_5 + C_2L_2L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(4C_2L_1R_5 + C_2L_2R_5 + C_2L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(2L_1R_5g_m + L_5\right)}$$

10.104 INVALID-ORDER-104 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right)$

10.105 INVALID-ORDER-105 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$

10.106 INVALID-ORDER-106
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5, \ \infty\right)$$

$$H(s) = \frac{s^3 \left(C_2 L_1 L_2 R_5 g_m - C_2 L_1 L_2\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 R_2 + C_2 L_1 R_5\right) + s \left(L_1 R_5 g_m - L_1\right)}{2 C_2 L_1 L_2 g_m s^3 + s^2 \left(2 C_2 L_1 R_2 g_m + 4 C_2 L_1 + C_2 L_2\right) + s \left(C_2 R_2 + C_2 R_5 + 2 L_1 g_m\right) + 1}$$
10.107 INVALID-ORDER-107 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty\right)$

10.108 INVALID-ORDER-108
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = \frac{-C_2C_5L_1L_2R_5s^4 + s^3\left(-C_2C_5L_1R_2R_5 + C_2L_1L_2R_5g_m - C_2L_1L_2\right) + s^2\left(C_2L_1R_2R_5g_m - C_2L_1R_2 + C_2L_1R_5 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{2C_2C_5L_1L_2R_5g_ms^4 + s^3\left(2C_2C_5L_1R_2R_5g_m + 4C_2C_5L_1R_5 + C_2C_5L_2R_5 + 2C_2L_1L_2g_m\right) + s^2\left(C_2C_5R_2R_5 + 2C_2L_1R_2g_m + 4C_2L_1 + C_2L_2 + 2C_5L_1R_5g_m\right) + s\left(C_2R_2 + C_2R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

 $H(s) = \frac{-C_2C_5L_1L_2s^3 + L_1g_m + s^2\left(-C_2C_5L_1R_2 + C_2L_1L_2g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 - C_5L_1\right)}{2C_2C_5L_1L_2g_m + s^3 + C_2 + C_5 + s^2\left(2C_2C_5L_1R_2g_m + 4C_2C_5L_1 + C_2C_5L_2\right) + s\left(C_2C_5R_2 + 2C_5L_1g_m\right)}$

10.109 INVALID-ORDER-109
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_5 L_1 L_2 R_5 g_m - C_2 C_5 L_1 L_2\right) + s^2 \left(C_2 C_5 L_1 R_2 R_5 g_m - C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_5 + C_2 L_1 L_2 g_m\right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_5 L_1 R_5 g_m - C_5 L_1\right)}{2 C_2 C_5 L_1 L_2 g_m s^3 + C_2 + C_5 + s^2 \left(2 C_2 C_5 L_1 R_2 g_m + 4 C_2 C_5 L_1 + C_2 C_5 L_2\right) + s \left(C_2 C_5 R_2 + C_2 C_5 R_5 + 2 C_5 L_1 g_m\right)}$$

10.110 INVALID-ORDER-110
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_2L_5g_ms^4 + L_1g_m + s^3\left(-C_2C_5L_1L_2 + C_2C_5L_1L_5R_2g_m + C_2C_5L_1L_5\right) + s^2\left(-C_2C_5L_1R_2 + C_2L_1L_2g_m + C_5L_1L_5g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 - C_5L_1\right)}{2C_2C_5L_1L_2g_ms^3 + C_2 + C_5 + s^2\left(2C_2C_5L_1R_2g_m + 4C_2C_5L_1 + C_2C_5L_2 + C_2C_5L_5\right) + s\left(C_2C_5R_2 + 2C_5L_1g_m\right)}$$

10.111 INVALID-ORDER-111
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

$$H(s) = \frac{-C_2C_5L_1L_2L_5s^5 - L_1s + s^4\left(-C_2C_5L_1L_5R_2 + C_2L_1L_2L_5g_m\right) + s^3\left(-C_2L_1L_2 + C_2L_1L_5R_2g_m + C_2L_1L_5 - C_5L_1L_5\right) + s^2\left(-C_2L_1R_2 + L_1L_5g_m\right)}{2C_2C_5L_1L_2L_5g_ms^5 + s^4\left(2C_2C_5L_1L_5R_2g_m + 4C_2C_5L_1L_5 + C_2C_5L_2L_5\right) + s^3\left(C_2C_5L_5R_2 + 2C_2L_1L_2g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_2L_1R_2g_m + 4C_2L_1 + C_2L_2 + C_2L_5 + C_5L_5\right) + s\left(C_2R_2 + 2L_1g_m\right) + 1}$$

10.112 INVALID-ORDER-112
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_2L_5g_ms^4 + L_1g_m + s^3\left(C_2C_5L_1L_2R_5g_m - C_2C_5L_1L_2 + C_2C_5L_1L_5R_2g_m + C_2C_5L_1L_5\right) + s^2\left(C_2C_5L_1R_2R_5g_m - C_2C_5L_1R_2 + C_2C_5L_1R_5 + C_2L_1L_2g_m + C_5L_1L_5g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 + C_5L_1R_5g_m - C_5L_1\right)}{2C_2C_5L_1L_2g_ms^3 + C_2 + C_5 + s^2\left(2C_2C_5L_1R_2g_m + 4C_2C_5L_1 + C_2C_5L_2 + C_2C_5L_5\right) + s\left(C_2C_5R_2 + C_2C_5R_5 + 2C_5L_1g_m\right)}$$

10.113 INVALID-ORDER-113
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$$

$$H(s) = \frac{-C_2C_5L_1L_2L_5R_5s^5 - L_1R_5s + s^4\left(-C_2C_5L_1L_5R_2R_5 + C_2L_1L_2L_5R_5g_m - C_2L_1L_2R_5 + C_2L_1L_5R_2 + C_2L_1L_5R_2 + C_2L_1L_5R_5 - C_5L_1L_5R_5 + s^2\left(-C_2L_1R_2R_5 + L_1L_5R_5g_m - C_2L_1L_2R_5 + C_2L_1L_5R_5 + C_2L_1L_5R_$$

10.114 INVALID-ORDER-114
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

$$H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_2 C_5 L_1 L_2 L_5\right) + s^4 \left(C_2 C_5 L_1 L_5 R_2 g_m - C_2 C_5 L_1 L_5 R_2 + C_2 C_5 L_1 L_5 R_5 + C_2 L_1 L_2 L_5 g_m\right) + s^3 \left(C_2 L_1 L_2 R_5 g_m - C_2 L_1 L_5 + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 R_5 + L_1 L_5 g_m\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5 R_5 g_m - C_5 L_5\right) + s^2 \left(C_5 L_1 R_5$$

10.115 INVALID-ORDER-115
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_2 C_5 L_1 L_2 L_5\right) + s^4 \left(-C_2 C_5 L_1 L_2 R_5 + C_2 C_5 L_1 L_5 R_2 R_5 g_m - C_2 L_5 L_1 L_5 R_5\right) + s^3 \left(-C_2 C_5 L_1 L_2 R_5 g_m - C_2 L_1 L_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 L_2 R_5 g_m - C_2 L_1 L_5 R_5\right) + s^3 \left(-C_2 C_5 L_1 L_2 R_5 g_m - C_2 L_1 L_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 L_2 R_5 g_m - C_2 L_1 L_5 R_5\right) + s^3 \left(-C_2 C_5 L_1 L_2 R_5 g_m - C_2 L_1 L_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 L_5 R_5 g_m - C_2 L_1 L_5 R_5\right) + s^3 \left(-C_2 C_5 L_1 L_2 R_5 g_m - C_2 L_1 L_2 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^3 \left(-C_2 C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^3 \left(-C_2 C_5 L_1 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^3 \left(-C_2 C_5 L_5 R_5 + C_2 C_5 L_5 R_5\right) + s^3 \left(-C_2 C_5$$

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10.116 INVALID-ORDER-116 Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                             H(s) = \frac{s^3 \left(C_2 L_1 L_2 R_2 R_5 g_m - C_2 L_1 L_2 R_2 + C_2 L_1 L_2 R_5\right) + s^2 \left(L_1 L_2 R_5 g_m - L_1 L_2\right) + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5\right)}{R_2 + R_5 + s^3 \left(2 C_2 L_1 L_2 R_2 g_m + 4 C_2 L_1 L_2\right) + s^2 \left(C_2 L_2 R_2 + C_2 L_2 R_5 + 2 L_1 L_2 g_m\right) + s \left(2 L_1 R_2 g_m + 4 L_1 + L_2\right)}
10.117 INVALID-ORDER-117 Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                H(s) = \frac{-C_2C_5L_1L_2R_2s^4 + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2 - C_5L_1L_2\right) + s^2\left(-C_5L_1R_2 + L_1L_2g_m\right) + s\left(L_1R_2g_m + L_1\right)}{C_5R_2s + s^4\left(2C_2C_5L_1L_2R_2g_m + 4C_2C_5L_1L_2\right) + s^3\left(C_2C_5L_2R_2 + 2C_5L_1L_2g_m\right) + s^2\left(C_2L_2 + 2C_5L_1R_2g_m + 4C_5L_1 + C_5L_2\right) + 1}
10.118 INVALID-ORDER-118 Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                   H(s) = \frac{-C_2C_5L_1L_2R_2R_5s^4 + s^3\left(C_2L_1L_2R_2R_5g_m - C_2L_1L_2R_2 + C_2L_1L_2R_5 - C_5L_1L_2R_5\right) + s^2\left(-C_5L_1R_2R_5 + L_1L_2R_5g_m - L_1L_2\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{R_2 + R_5 + s^4\left(2C_2C_5L_1L_2R_5g_m + 4C_2C_5L_1L_2R_5\right) + s^3\left(C_2C_5L_2R_2R_5 + 2C_2L_1L_2R_2g_m + 4C_2L_1L_2 + 2C_5L_1L_2R_5g_m\right) + s^2\left(C_2L_2R_2 + C_2L_2R_5 + 2C_5L_1R_2R_5g_m - L_1L_2\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}
10.119 INVALID-ORDER-119 Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                 H(s) = \frac{s^4 \left(C_2 C_5 L_1 L_2 R_2 R_5 g_m - C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_5\right) + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5 + L_1 L_2 g_m\right) + s \left(L_1 R_2 g_m + L_1\right)}{s^4 \left(2 C_2 C_5 L_1 L_2 R_2 g_m + 4 C_2 C_5 L_1 L_2\right) + s^3 \left(C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_5 + 2 C_5 L_1 L_2 g_m\right) + s^2 \left(C_2 L_2 + 2 C_5 L_1 R_2 g_m + 4 C_5 L_1 + C_5 L_2\right) + s \left(C_5 R_2 + C_5 R_5\right) + 1}
10.120 INVALID-ORDER-120 Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                      H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 L_5\right) + s^4 \left(-C_2 C_5 L_1 L_2 R_2 + C_5 L_1 L_2 L_5 g_m\right) + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 - C_5 L_1 L_2 + C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5\right) + s^2 \left(-C_5 L_1 R_2 + L_1 L_2 g_m\right) + s \left(L_1 R_2 g_m + L_1\right)}{C_5 R_2 s + s^4 \left(2C_2 C_5 L_1 L_2 R_2 g_m + 4C_2 C_5 L_1 L_2 + C_5 L_2 L_5\right) + s^3 \left(C_2 C_5 L_2 R_2 + 2C_5 L_1 L_2 g_m\right) + s^2 \left(C_2 L_2 + 2C_5 L_1 R_2 g_m + 4C_5 L_1 + C_5 L_2 + C_5 L_5\right) + 1}
10.121 INVALID-ORDER-121 Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                  10.122 INVALID-ORDER-122 Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 L_5\right) + s^4 \left(C_2 C_5 L_1 L_2 R_5 g_m - C_2 C_5 L_1 L_2 R_5 + C_5 L_1 L_2 L_5 g_m\right) + s^3 \left(C_2 L_1 L_2 R_5 g_m - C_5 L_1 L_2 + C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5 + L_1 L_2 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m
10.123 INVALID-ORDER-123 Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2L_5R_2R_5s^5 - L_1R_2R_5s + s^4\left(C_2L_1L_2L_5R_2 + C_2L_1L_2L_5R_5 - C_5L_1L_2L_5R_5\right) + s^3\left(-C_2L_1L_2R_2R_5 - C_5L_1L_2R_5R_5 + L_1L_2L_5R_5g_m - L_1L_2L_5\right) + s^3\left(-C_2L_1L_2L_5R_5g_m + 4C_2L_1L_2L_5R_5g_m + 4C_2L_2L_5R_5g_m + 4C_2L_2
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 $H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 R_5 g_m - C_2 C_5 L_1 L_2 L_5 R_2 + C_2 C_5 L_1 L_2 L_5 R_2 + C_2 C_5 L_1 L_2 L_5 R_5 g_m + C_2 L_1 L_2 L_5 R_5 g_m - C_5 L_1 L_2 L_5 R_5 g_m - C_5 L_1 L_2 R$

10.124 INVALID-ORDER-124 $Z(s) = \left(L_1 s, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

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10.126 INVALID-ORDER-126 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                                                                                                         H(s) = \frac{C_2L_1R_2R_5s^2 + s^3\left(C_2L_1L_2R_2R_5g_m - C_2L_1L_2R_2 + C_2L_1L_2R_5\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{R_2 + R_5 + s^3\left(2C_2L_1L_2R_2g_m + 4C_2L_1L_2\right) + s^2\left(4C_2L_1R_2 + C_2L_2R_2 + C_2L_2R_5\right) + s\left(C_2R_2R_5 + 2L_1R_2g_m + 4L_1\right)}
10.127 INVALID-ORDER-127 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                     H(s) = \frac{-C_2C_5L_1L_2R_2s^4 + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2\right) + s^2\left(C_2L_1R_2 - C_5L_1R_2\right) + s\left(L_1R_2g_m + L_1\right)}{s^4\left(2C_2C_5L_1L_2R_2g_m + 4C_2C_5L_1L_2\right) + s^3\left(4C_2C_5L_1R_2 + C_2C_5L_2R_2\right) + s^2\left(C_2L_2 + 2C_5L_1R_2g_m + 4C_5L_1\right) + s\left(C_2R_2 + C_5R_2\right) + 1}
10.128 INVALID-ORDER-128 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                     H(s) = \frac{-C_2C_5L_1L_2R_2R_5s^4 + s^3\left(C_2L_1L_2R_2R_5g_m - C_2L_1L_2R_2 + C_2L_1L_2R_5\right) + s^2\left(C_2L_1R_2R_5 - C_5L_1R_2R_5\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{R_2 + R_5 + s^4\left(2C_2C_5L_1L_2R_2S_g_m + 4C_2C_5L_1L_2R_2\right) + s^3\left(4C_2C_5L_1R_2R_5 + C_2C_5L_2R_2R_5 + 2C_2L_1L_2R_2g_m + 4C_2L_1L_2\right) + s^2\left(4C_2L_1R_2 + C_2L_2R_2 + C_2L_2R_2 + C_2L_2R_3 + 2C_5L_1R_2R_5\right) + s\left(C_2R_2R_5 + C_5R_2R_5 + C_5R_2R_5 + 2C_5L_1R_2R_5\right) + s\left(C_2R_2R_5 + C_5R_2R_5 + C_5R_2R_5 + 2C_5L_1R_2R_5\right) + s\left(C_2R_2R_5 + C_5R_2R_5 + C_5R_2R_5 + 2C_5L_1R_2R_5\right) + s\left(C_2R_2R_5 + 2C_
10.129 INVALID-ORDER-129 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                             H(s) = \frac{s^4 \left(C_2 C_5 L_1 L_2 R_2 R_5 g_m - C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_5\right) + s^3 \left(C_2 C_5 L_1 R_2 R_5 + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2\right) + s^2 \left(C_2 L_1 R_2 + C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5\right) + s \left(L_1 R_2 g_m + L_1\right)}{s^4 \left(2 C_2 C_5 L_1 L_2 R_2 g_m + 4 C_2 C_5 L_1 L_2\right) + s^3 \left(4 C_2 C_5 L_1 R_2 + C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_5\right) + s^2 \left(C_2 C_5 R_2 R_5 + C_2 L_2 + 2 C_5 L_1 R_2 g_m + 4 C_5 L_1\right) + s \left(C_2 R_2 + C_5 R_2 + C_5 R_5\right) + 1}
10.130 INVALID-ORDER-130 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                   H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 L_5\right) + s^4 \left(-C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_5 R_2\right) + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_2 - C_5 L_1 R_2\right) + s \left(L_1 R_2 g_m + L_1\right)}{s^4 \left(2C_2 C_5 L_1 L_2 R_2 g_m + 4C_2 C_5 L_1 L_2 + C_2 C_5 L_2 L_5\right) + s^3 \left(4C_2 C_5 L_1 R_2 + C_2 C_5 L_2 R_2 + C_2 C_5 L_5 R_2\right) + s^2 \left(C_2 L_2 + 2C_5 L_1 R_2 g_m + 4C_5 L_1 + C_5 L_5\right) + s \left(C_2 R_2 + C_5 R_2\right) + 1}
10.131 INVALID-ORDER-131 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                H(s) = \frac{-C_2C_5L_1L_2L_5R_2s^5 - L_1R_2s + s^4\left(C_2L_1L_2L_5R_2g_m + C_2L_1L_2L_5\right) + s^3\left(-C_2L_1L_2R_2 + C_2L_1L_5R_2 - C_5L_1L_5R_2\right) + s^2\left(L_1L_5R_2g_m + L_1L_5\right)}{R_2 + s^5\left(2C_2C_5L_1L_2L_5R_2g_m + 4C_2C_5L_1L_5R_2\right) + s^4\left(4C_2C_5L_1L_5R_2 + C_2C_5L_2L_5R_2\right) + s^3\left(2C_2L_1L_2R_2g_m + 4C_2L_1L_2 + C_2L_2L_5 + 2C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(4C_2L_1R_2 + C_2L_2R_2 + C_5L_5R_2\right) + s^2\left(4C_2L_1R_2 + C_2L_2R_2 + C_5L_2R_2\right) + s^2\left(4C_2L_1R_2 + C_2L_2R_2 + C_2L_2R_2\right) + s^2\left(4C_2L_1R_2 + C_2L_2R_2 + C_2L_2R_2\right) + s^2\left(4C_2L_1R_2 + C_2L_2R_2\right) + s^
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$$\textbf{10.132} \quad \textbf{INVALID-ORDER-132} \ \ Z(s) = \left(L_1 s, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty \right)$$

$$H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 L_5 \right) + s^4 \left(C_2 C_5 L_1 L_2 R_2 g_m - C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 \right) + s^3 \left(C_2 C_5 L_1 L_2 R_2 g_m + C_2 L_1 L_2 R_2 g_m + C_5 L_1 L_5 \right) + s^2 \left(C_2 L_1 R_2 + C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_2 \right) + s^3 \left(C_2 C_5 L_1 L_2 R_2 g_m + C_5 L_1 L_2 R_2 g_m + C_5 L_1 L_5 \right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_5 L_$$

$$H(s) = \frac{-C_2C_5L_1L_2L_5R_2R_5s^5 - L_1R_2R_5s + s^4\left(C_2L_1L_2L_5R_2R_5g_m - C_2L_1L_2L_5R_2 + C_2L_1L_2L_5R_5\right) + s^3\left(-C_2L_1L_2R_2R_5 + C_2L_1L_5R_2R_5 - C_5L_1L_5R_2R_5\right) + s^2\left(L_1L_5R_2R_5 - C_5L_1L_5R_2R_5\right) + s^2\left(L_1L_5R_2R_5 - C_5L_1L_5R_2R_5\right) + s^2\left(2C_2L_5R_5 + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_5R_5\right) + s^2\left(2C_2L_5R_5R_5 + 2C_2L_$$

10.134 INVALID-ORDER-134
$$Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 R_5 g_m - C_2 C_5 L_1 L_2 L_5 R_2 + C_2 C_5 L_1 L_2 L_5 R_3 + s^4 \left(C_2 C_5 L_1 L_2 L_5 R_2 R_5 + C_2 L_1 L_2 L_5 R_2 g_m + C_2 L_1 L_2 L_5 \right) + s^3 \left(C_2 L_1 L_2 R_2 + C_2 L_1 L_2 R_5 + C_2 L_1 L_2 R_5 + C_2 L_1 L_5 R_2 + C_5 L_5 R_2 + C_5 L_5 R_2 + C_5 L_5$$

10.135 INVALID-ORDER-135
$$Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.136 INVALID-ORDER-136 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5}{2R_2 g_m + s \left(C_1 R_2 + C_1 R_5\right) + 4}$$

10.137 INVALID-ORDER-137 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 R_2 s + R_2 g_m + 1}{C_1 C_5 R_2 s^2 + s \left(C_1 + 2C_5 R_2 g_m + 4C_5\right)}$$

10.138 INVALID-ORDER-138 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_2 g_m + s \left(C_5 R_2 R_5 g_m - C_5 R_2 + C_5 R_5 \right) + 1}{s^2 \left(C_1 C_5 R_2 + C_1 C_5 R_5 \right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 \right)}$$

10.139 INVALID-ORDER-139 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 R_2 s + R_2 g_m + s^2 (C_5 L_5 R_2 g_m + C_5 L_5) + 1}{C_1 C_5 L_5 s^3 + C_1 C_5 R_2 s^2 + s (C_1 + 2C_5 R_2 g_m + 4C_5)}$$

10.140 INVALID-ORDER-140 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_2 s^2 - R_2 + s \left(L_5 R_2 g_m + L_5\right)}{C_1 C_5 L_5 R_2 s^3 + C_1 R_2 s + 2R_2 g_m + s^2 \left(C_1 L_5 + 2C_5 L_5 R_2 g_m + 4C_5 L_5\right) + 4}$$

10.141 INVALID-ORDER-141 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_5 L_5 R_2 g_m + C_5 L_5 \right) + s \left(C_5 R_2 R_5 g_m - C_5 R_2 + C_5 R_5 \right) + 1}{C_1 C_5 L_5 s^3 + s^2 \left(C_1 C_5 R_2 + C_1 C_5 R_5 \right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 \right)}$$

10.142 INVALID-ORDER-142 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_2R_5s^2 - R_2R_5 + s\left(L_5R_2R_5g_m - L_5R_2 + L_5R_5\right)}{C_1C_5L_5R_2R_5s^3 + 2R_2R_5g_m + 4R_5 + s^2\left(C_1L_5R_2 + C_1L_5R_5 + 2C_5L_5R_2R_5g_m + 4C_5L_5R_5\right) + s\left(C_1R_2R_5 + 2L_5R_2g_m + 4L_5\right)}$$

10.143 INVALID-ORDER-143 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^2 \left(C_5 L_5 R_2 R_5 g_m - C_5 L_5 R_2 + C_5 L_5 R_5\right) + s \left(L_5 R_2 g_m + L_5\right)}{2 R_2 g_m + s^3 \left(C_1 C_5 L_5 R_2 + C_1 C_5 L_5 R_5\right) + s^2 \left(C_1 L_5 + 2 C_5 L_5 R_2 g_m + 4 C_5 L_5\right) + s \left(C_1 R_2 + C_1 R_5\right) + 4}$$

10.144 INVALID-ORDER-144
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.145 INVALID-ORDER-145 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{g_m + s (C_2 - C_5)}{2C_5 g_m s + s^2 (C_1 C_2 + C_1 C_5 + 4C_2 C_5)}$$

10.146 INVALID-ORDER-146
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5R_5s^2 + g_m + s\left(C_2 + C_5R_5g_m - C_5\right)}{C_1C_2C_5R_5s^3 + 2C_5g_ms + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}$$

10.147 INVALID-ORDER-147
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2 C_5 L_5 s^3 + C_5 L_5 g_m s^2 + g_m + s (C_2 - C_5)}{C_1 C_2 C_5 L_5 s^4 + 2 C_5 g_m s + s^2 (C_1 C_2 + C_1 C_5 + 4 C_2 C_5)}$$

10.148 INVALID-ORDER-148
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_5 g_m s + s^2 \left(C_2 L_5 - C_5 L_5\right) - 1}{2C_5 L_5 g_m s^2 + 2g_m + s^3 \left(C_1 C_2 L_5 + C_1 C_5 L_5 + 4C_2 C_5 L_5\right) + s \left(C_1 + 4C_2\right)}$$

10.149 INVALID-ORDER-149
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5s^3 + g_m + s^2\left(C_2C_5R_5 + C_5L_5g_m\right) + s\left(C_2 + C_5R_5g_m - C_5\right)}{C_1C_2C_5L_5s^4 + C_1C_2C_5R_5s^3 + 2C_5g_ms + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}$$

10.150 INVALID-ORDER-150
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-R_5 + s^2 \left(C_2 L_5 R_5 - C_5 L_5 R_5 \right) + s \left(L_5 R_5 g_m - L_5 \right)}{2 R_5 g_m + s^3 \left(C_1 C_2 L_5 R_5 + C_1 C_5 L_5 R_5 + 4 C_2 C_5 L_5 R_5 \right) + s^2 \left(C_1 L_5 + 4 C_2 L_5 + 2 C_5 L_5 R_5 g_m \right) + s \left(C_1 R_5 + 4 C_2 R_5 + 2 L_5 g_m \right)}$$

10.151 INVALID-ORDER-151
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_5s^3 + R_5g_m + s^2\left(C_2L_5 + C_5L_5R_5g_m - C_5L_5\right) + s\left(C_2R_5 + L_5g_m\right) - 1}{C_1C_2C_5L_5R_5s^4 + 2g_m + s^3\left(C_1C_2L_5 + C_1C_5L_5 + 4C_2C_5L_5\right) + s^2\left(C_1C_2R_5 + 2C_5L_5g_m\right) + s\left(C_1 + 4C_2\right)}$$

10.152 INVALID-ORDER-152
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_5s^3 + R_5g_m + s^2\left(C_5L_5R_5g_m - C_5L_5\right) + s\left(C_2R_5 - C_5R_5\right) - 1}{C_1C_2C_5L_5R_5s^4 + 2g_m + s^3\left(C_1C_5L_5 + 4C_2C_5L_5\right) + s^2\left(C_1C_2R_5 + C_1C_5R_5 + 4C_2C_5R_5 + 2C_5L_5g_m\right) + s\left(C_1 + 4C_2 + 2C_5R_5g_m\right)}$$

10.153 INVALID-ORDER-153
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s (C_2 R_2 - C_5 R_2) + 1}{s^2 (C_1 C_2 R_2 + C_1 C_5 R_2 + 4 C_2 C_5 R_2) + s (C_1 + 2 C_5 R_2 g_m + 4 C_5)}$$

10.154 INVALID-ORDER-154
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5R_2R_5s^2 + R_2g_m + s\left(C_2R_2 + C_5R_2R_5g_m - C_5R_2 + C_5R_5\right) + 1}{C_1C_2C_5R_2R_5s^3 + s^2\left(C_1C_2R_2 + C_1C_5R_2 + C_1C_5R_5 + 4C_2C_5R_2\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$$

10.155 INVALID-ORDER-155
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2s^3 + R_2g_m + s^2\left(C_5L_5R_2g_m + C_5L_5\right) + s\left(C_2R_2 - C_5R_2\right) + 1}{C_1C_2C_5L_5R_2s^4 + C_1C_5L_5s^3 + s^2\left(C_1C_2R_2 + C_1C_5R_2 + 4C_2C_5R_2\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$$

10.156 INVALID-ORDER-156
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-R_2 + s^2 \left(C_2 L_5 R_2 - C_5 L_5 R_2\right) + s \left(L_5 R_2 g_m + L_5\right)}{2 R_2 g_m + s^3 \left(C_1 C_2 L_5 R_2 + C_1 C_5 L_5 R_2 + 4 C_2 C_5 L_5 R_2\right) + s^2 \left(C_1 L_5 + 2 C_5 L_5 R_2 g_m + 4 C_5 L_5\right) + s \left(C_1 R_2 + 4 C_2 R_2\right) + 4 C_5 L_5 R_2 g_m + 4 C_5 L_5\right)}$$

10.157 INVALID-ORDER-157
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2s^3 + R_2g_m + s^2\left(C_2C_5R_2R_5 + C_5L_5R_2g_m + C_5L_5\right) + s\left(C_2R_2 + C_5R_2R_5g_m - C_5R_2 + C_5R_5\right) + 1}{C_1C_2C_5L_5R_2s^4 + s^3\left(C_1C_2C_5R_2R_5 + C_1C_5L_5\right) + s^2\left(C_1C_2R_2 + C_1C_5R_2 + C_1C_5R_5 + 4C_2C_5R_2\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$$

10.158 INVALID-ORDER-158
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-R_2R_5 + s^2\left(C_2L_5R_2R_5 - C_5L_5R_2R_5\right) + s\left(L_5R_2R_5g_m - L_5R_2 + L_5R_5\right)}{2R_2R_5g_m + 4R_5 + s^3\left(C_1C_2L_5R_2R_5 + 4C_2C_5L_5R_2R_5\right) + s^2\left(C_1L_5R_2 + C_1L_5R_5 + 4C_2L_5R_2 + 2C_5L_5R_2R_5g_m + 4C_5L_5R_5\right) + s\left(C_1R_2R_5 + 4C_2R_2R_5 + 2L_5R_2g_m + 4L_5\right)}$$

10.159 INVALID-ORDER-159
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2R_5s^3 + R_2R_5g_m - R_2 + R_5 + s^2\left(C_2L_5R_2 + C_5L_5R_2R_5g_m - C_5L_5R_2 + C_5L_5R_5\right) + s\left(C_2R_2R_5 + L_5R_2g_m + L_5\right)}{C_1C_2C_5L_5R_2R_5s^4 + 2R_2g_m + s^3\left(C_1C_2L_5R_2 + C_1C_5L_5R_2 + C_1C_5L_5R_5 + 4C_2C_5L_5R_2\right) + s^2\left(C_1C_2R_2R_5 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s\left(C_1R_2 + C_1R_5 + 4C_2R_2\right) + 4C_5R_5}$$

10.160 INVALID-ORDER-160
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_2R_5s^3 + R_2R_5g_m - R_2 + R_5 + s^2\left(C_5L_5R_2R_5g_m - C_5L_5R_2 + C_5L_5R_5\right) + s\left(C_2R_2R_5 - C_5R_2R_5\right)}{C_1C_2C_5L_5R_2R_5s^4 + 2R_2g_m + s^3\left(C_1C_5L_5R_2 + C_1C_5L_5R_5 + 4C_2C_5L_5R_2\right) + s^2\left(C_1C_2R_2R_5 + C_1C_5R_2R_5 + 4C_2C_5R_2R_5 + 4C_2C_5R_5 + 4C_2C_5R_5$$

10.161 INVALID-ORDER-161
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_2C_5R_2s^2 + g_m + s\left(C_2R_2g_m + C_2 - C_5\right)}{C_1C_2C_5R_2s^3 + 2C_5g_ms + s^2\left(C_1C_2 + C_1C_5 + 2C_2C_5R_2g_m + 4C_2C_5\right)}$$

10.162 INVALID-ORDER-162
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5R_2R_5s^2 + R_5g_m + s\left(C_2R_2R_5g_m - C_2R_2 + C_2R_5 - C_5R_5\right) - 1}{C_1C_2C_5R_2R_5s^3 + 2g_m + s^2\left(C_1C_2R_2 + C_1C_2R_5 + C_1C_5R_5 + 2C_2C_5R_2R_5g_m + 4C_2C_5R_5\right) + s\left(C_1 + 2C_2R_2g_m + 4C_2 + 2C_5R_5g_m\right)}$$

10.163 INVALID-ORDER-163
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^2 \left(C_2 C_5 R_2 R_5 g_m - C_2 C_5 R_2 + C_2 C_5 R_5 \right) + s \left(C_2 R_2 g_m + C_2 + C_5 R_5 g_m - C_5 \right)}{2 C_5 g_m s + s^3 \left(C_1 C_2 C_5 R_2 + C_1 C_2 C_5 R_5 \right) + s^2 \left(C_1 C_2 + C_1 C_5 + 2 C_2 C_5 R_2 g_m + 4 C_2 C_5 \right)}$$

10.164 INVALID-ORDER-164
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^3 \left(C_2 C_5 L_5 R_2 g_m + C_2 C_5 L_5 \right) + s^2 \left(-C_2 C_5 R_2 + C_5 L_5 g_m \right) + s \left(C_2 R_2 g_m + C_2 - C_5 \right)}{C_1 C_2 C_5 L_5 s^4 + C_1 C_2 C_5 R_2 s^3 + 2 C_5 g_m s + s^2 \left(C_1 C_2 + C_1 C_5 + 2 C_2 C_5 R_2 g_m + 4 C_2 C_5 \right)}$$

10.165 INVALID-ORDER-165
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_5R_2s^3 + s^2\left(C_2L_5R_2g_m + C_2L_5 - C_5L_5\right) + s\left(-C_2R_2 + L_5g_m\right) - 1}{C_1C_2C_5L_5R_2s^4 + 2g_m + s^3\left(C_1C_2L_5 + C_1C_5L_5 + 2C_2C_5L_5R_2g_m + 4C_2C_5L_5\right) + s^2\left(C_1C_2R_2 + 2C_5L_5g_m\right) + s\left(C_1 + 2C_2R_2g_m + 4C_2C_3L_5\right)}$$

10.166 INVALID-ORDER-166
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^3 \left(C_2 C_5 L_5 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_2 C_5 R_2 R_5 g_m - C_2 C_5 R_2 + C_2 C_5 R_5 + C_5 L_5 g_m\right) + s \left(C_2 R_2 g_m + C_2 + C_5 R_5 g_m - C_5\right)}{C_1 C_2 C_5 L_5 s^4 + 2 C_5 g_m s + s^3 \left(C_1 C_2 C_5 R_2 + C_1 C_2 C_5 R_5\right) + s^2 \left(C_1 C_2 + C_1 C_5 + 2 C_2 C_5 R_2 g_m + 4 C_2 C_5\right)}$$

10.167 INVALID-ORDER-167
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_5R_2R_5s^3 - R_5 + s^2\left(C_2L_5R_2R_5g_m - C_2L_5R_2 + C_2L_5R_5 - C_5L_5R_5\right) + s\left(-C_2R_2R_5 + L_5R_5g_m - L_5\right)}{C_1C_2C_5L_5R_2R_5s^4 + 2R_5g_m + s^3\left(C_1C_2L_5R_2 + C_1C_2L_5R_5 + C_1C_5L_5R_5 + 2C_2C_5L_5R_2g_m + 4C_2C_5L_5R_5\right) + s^2\left(C_1C_2R_2R_5 + C_1L_5 + 2C_2L_5R_2g_m + 4C_2L_5 + 2C_5L_5R_5g_m\right) + s\left(C_1R_5 + 2C_2R_2R_5g_m + 4C_2R_5 + 2L_5g_m\right)}$$

10.168 INVALID-ORDER-168
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^3 \left(C_2 C_5 L_5 R_2 R_5 g_m - C_2 C_5 L_5 R_2 + C_2 C_5 L_5 R_5\right) + s^2 \left(C_2 L_5 R_2 g_m + C_2 L_5 + C_5 L_5 R_5 g_m - C_5 L_5\right) + s \left(C_2 R_2 R_5 g_m - C_2 R_2 + C_2 R_5 + L_5 g_m\right) - 1}{2 g_m + s^4 \left(C_1 C_2 C_5 L_5 R_2 + C_1 C_2 C_5 L_5 R_5\right) + s^3 \left(C_1 C_2 L_5 + C_1 C_5 L_5 + 2 C_2 C_5 L_5 R_2 g_m + 4 C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_5 + 2 C_5 L_5 g_m\right) + s \left(C_1 + 2 C_2 R_2 g_m + 4 C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 R_5 + C_1 C_2 R_5 + 2 C_5 L_5 g_m\right) + s \left(C_1 + 2 C_2 R_2 g_m + 4 C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 R_5 + C_1 C_2 R_5 + 2 C_5 L_5 g_m\right) + s \left(C_1 C_2 R_5 + C_1 C_2 R_5 + 2 C_5 L_5 R_5\right) + s^2 \left(C_1 C_2 R_5 + C_1 C_2 R_5 + 2 C_5 L_5 R_5\right) + s^2 \left(C_1 C_2 R_5 R_5 + C_1 C_2 R_5 R_5\right) + s^2 \left(C_1 C_2 R_5 R_5 R_5 + C_1 C_2 R_5 R_5\right) + s^2 \left(C_1 C_2 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 C_2 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 C_2 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 C_2 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 C_2 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 C_2 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5 R_5 R_5 R_5\right) + s^2 \left(C_1 R_5 R_5 R_5$$

10.169 INVALID-ORDER-169
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_5g_m + s^3\left(C_2C_5L_5R_2R_5g_m - C_2C_5L_5R_2 + C_2C_5L_5R_2 + C_2C_5L_5R_5\right) + s^2\left(-C_2C_5R_2R_5 + C_5L_5R_5g_m - C_5L_5\right) + s\left(C_2R_2R_5g_m - C_2R_2 + C_2R_5 - C_5R_5\right) - 1}{2g_m + s^4\left(C_1C_2C_5L_5R_2\right) + s^3\left(C_1C_2C_5R_2R_5 + C_1C_5L_5 + 2C_2C_5L_5R_2g_m + 4C_2C_5L_5\right) + s^2\left(C_1C_2R_2 + C_1C_2R_5 + C_1C_5R_5 + 2C_2C_5R_2R_5 + C_1C_5R_5 + 2C_2C_5R_2R_5 + C_1C_5R_5 + 2C_2C_5R_5R_5\right) + s^2\left(C_1C_2R_2 + C_1C_2R_5 + C_1C_5R_5 + 2C_2C_5R_5R_5\right) + s^2\left(C_1C_2R_2 + C_1C_2R_5 + C_1C_5R_5 + 2C_2C_5R_5R_5\right) + s^2\left(C_1C_2R_2 + C_1C_5R_5 + C_1C_5R_5 + 2C_2C_5R_5R_5\right) + s^2\left(C_1C_2R_2 + C_1C_5R_5 + C_1C_5R_5\right) + s^2\left(C_1C_2R_2 + C_1C_5R_5\right) + s^2\left(C_1C_2R_5 + C_1C_5R_5\right) + s^2\left(C_1C_2R_5\right) + s^$$

10.170 INVALID-ORDER-170 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 R_5 s + R_5 g_m + s^2 \left(C_2 L_2 R_5 g_m - C_2 L_2 \right) - 1}{C_1 C_2 L_2 s^3 + 2 g_m + s^2 \left(C_1 C_2 R_5 + 2 C_2 L_2 g_m \right) + s \left(C_1 + 4 C_2 \right)}$$

10.171 INVALID-ORDER-171
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2s^3 + C_2L_2g_ms^2 + g_m + s\left(C_2 - C_5\right)}{C_1C_2C_5L_2s^4 + 2C_2C_5L_2g_ms^3 + 2C_5g_ms + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}$$

10.172 INVALID-ORDER-172
$$Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_5s^3 + R_5g_m + s^2\left(C_2L_2R_5g_m - C_2L_2\right) + s\left(C_2R_5 - C_5R_5\right) - 1}{C_1C_2C_5L_2R_5s^4 + 2g_m + s^3\left(C_1C_2L_2 + 2C_2C_5L_2R_5g_m\right) + s^2\left(C_1C_2R_5 + C_1C_5R_5 + 4C_2C_5R_5 + 2C_2L_2g_m\right) + s\left(C_1 + 4C_2 + 2C_5R_5g_m\right)}$$

10.173 INVALID-ORDER-173
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^3 \left(C_2 C_5 L_2 R_5 g_m - C_2 C_5 L_2 \right) + s^2 \left(C_2 C_5 R_5 + C_2 L_2 g_m \right) + s \left(C_2 + C_5 R_5 g_m - C_5 \right)}{C_1 C_2 C_5 L_2 s^4 + 2 C_5 g_m s + s^3 \left(C_1 C_2 C_5 R_5 + 2 C_2 C_5 L_2 g_m \right) + s^2 \left(C_1 C_2 + C_1 C_5 + 4 C_2 C_5 \right)}$$

10.174 INVALID-ORDER-174
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 + g_m + s^3\left(-C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(C_2L_2g_m + C_5L_5g_m\right) + s\left(C_2 - C_5\right)}{2C_2C_5L_2g_ms^3 + 2C_5g_ms + s^4\left(C_1C_2C_5L_2 + C_1C_2C_5L_5\right) + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}$$

10.175 INVALID-ORDER-175
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2L_5s^4 + C_2L_2L_5g_ms^3 + L_5g_ms + s^2\left(-C_2L_2 + C_2L_5 - C_5L_5\right) - 1}{C_1C_2C_5L_2L_5s^5 + 2C_2C_5L_2L_5g_ms^4 + 2g_m + s^3\left(C_1C_2L_2 + C_1C_2L_5 + C_1C_5L_5 + 4C_2C_5L_5\right) + s^2\left(2C_2L_2g_m + 2C_5L_5g_m\right) + s\left(C_1 + 4C_2\right)}$$

10.176 INVALID-ORDER-176
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 + g_m + s^3\left(C_2C_5L_2R_5g_m - C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(C_2C_5R_5 + C_2L_2g_m + C_5L_5g_m\right) + s\left(C_2 + C_5R_5g_m - C_5\right)}{2C_5g_ms + s^4\left(C_1C_2C_5L_2 + C_1C_2C_5L_5\right) + s^3\left(C_1C_2C_5R_5 + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}$$

10.177 INVALID-ORDER-177
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2L_5R_5s^4 - R_5 + s^3\left(C_2L_2L_5R_5g_m - C_2L_2L_5\right) + s^2\left(-C_2L_2R_5 + C_2L_5R_5 - C_5L_5R_5\right) + s\left(L_5R_5g_m - L_5\right)}{C_1C_2C_5L_2L_5R_5s^5 + 2R_5g_m + s^4\left(C_1C_2L_2L_5 + 2C_2C_5L_2L_5R_5g_m\right) + s^3\left(C_1C_2L_2R_5 + C_1C_2L_5R_5 + C_1C_5L_5R_5 + 4C_2C_5L_5R_5 + 2C_2L_2L_5g_m\right) + s^2\left(C_1L_5 + 2C_2L_2R_5g_m + 4C_2L_5 + 2C_5L_5R_5g_m\right) + s\left(C_1R_5 + 4C_2R_5 + 2L_5g_m\right)}$$

10.178 INVALID-ORDER-178
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

10.179 INVALID-ORDER-179
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_2 C_5 L_2 L_5 R_5 g_m - C_2 C_5 L_2 L_5\right) + s^3 \left(-C_2 C_5 L_2 R_5 + C_2 C_5 L_5 R_5\right) + s^2 \left(C_2 L_2 R_5 g_m - C_2 L_2 + C_5 L_5 R_5 g_m - C_5 L_5\right) + s \left(C_2 R_5 - C_5 R_5\right) - 1}{C_1 C_2 C_5 L_2 L_5 s^5 + 2 g_m + s^4 \left(C_1 C_2 C_5 L_2 R_5 + C_1 C_2 C_5 L_5 R_5 + 2 C_2 C_5 L_2 L_5 g_m\right) + s^3 \left(C_1 C_2 L_2 + C_1 C_5 L_5 + 2 C_2 C_5 L_2 R_5 g_m + 4 C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 R_5 + C_1 C_5 R_5 + 2 C_2 L_2 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + 4 C_2 + 2 C_5 R_5 g_m\right)}$$

10.180 INVALID-ORDER-180
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_2 L_2 R_5 g_m - C_2 L_2 \right) + s \left(C_2 R_2 R_5 g_m - C_2 R_2 + C_2 R_5 \right) - 1}{C_1 C_2 L_2 s^3 + 2 g_m + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_5 + 2 C_2 L_2 g_m \right) + s \left(C_1 + 2 C_2 R_2 g_m + 4 C_2 \right)}$$

10.181 INVALID-ORDER-181
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2s^3 + g_m + s^2\left(-C_2C_5R_2 + C_2L_2g_m\right) + s\left(C_2R_2g_m + C_2 - C_5\right)}{C_1C_2C_5L_2s^4 + 2C_5g_ms + s^3\left(C_1C_2C_5R_2 + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 2C_2C_5R_2g_m + 4C_2C_5\right)}$$

10.182 INVALID-ORDER-182
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_5s^3 + R_5g_m + s^2\left(-C_2C_5R_2R_5 + C_2L_2R_5g_m - C_2L_2\right) + s\left(C_2R_2R_5g_m - C_2R_2 + C_2R_5 - C_5R_5\right) - 1}{C_1C_2C_5L_2R_5s^4 + 2g_m + s^3\left(C_1C_2C_5R_2R_5 + C_1C_2L_2 + 2C_2C_5L_2R_5g_m\right) + s^2\left(C_1C_2R_2 + C_1C_2R_5 + C_1C_2R_5 + C_1C_5R_5 + 2C_2C_5R_2R_5g_m + 4C_2C_5R_5 + 2C_2L_2g_m\right) + s\left(C_1 + 2C_2R_2g_m + 4C_2 + 2C_5R_5g_m\right)}$$

10.183 INVALID-ORDER-183
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^3 \left(C_2 C_5 L_2 R_5 g_m - C_2 C_5 L_2\right) + s^2 \left(C_2 C_5 R_2 R_5 g_m - C_2 C_5 R_2 + C_2 C_5 R_5 + C_2 L_2 g_m\right) + s \left(C_2 R_2 g_m + C_2 + C_5 R_5 g_m - C_5\right)}{C_1 C_2 C_5 L_2 s^4 + 2 C_5 g_m s + s^3 \left(C_1 C_2 C_5 R_2 + C_1 C_2 C_5 R_5 + 2 C_2 C_5 L_2 g_m\right) + s^2 \left(C_1 C_2 + C_1 C_5 + 2 C_2 C_5 R_2 g_m + 4 C_2 C_5\right)}$$

10.184 INVALID-ORDER-184
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 + g_m + s^3\left(-C_2C_5L_2 + C_2C_5L_5R_2g_m + C_2C_5L_5\right) + s^2\left(-C_2C_5R_2 + C_2L_2g_m + C_5L_5g_m\right) + s\left(C_2R_2g_m + C_2 - C_5\right)}{2C_5g_ms + s^4\left(C_1C_2C_5L_2 + C_1C_2C_5L_5\right) + s^3\left(C_1C_2C_5R_2 + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 2C_2C_5R_2g_m + 4C_2C_5\right)}$$

10.185 INVALID-ORDER-185
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2L_5s^4 + s^3\left(-C_2C_5L_5R_2 + C_2L_2L_5g_m\right) + s^2\left(-C_2L_2 + C_2L_5R_2g_m + C_2L_5 - C_5L_5\right) + s\left(-C_2R_2 + L_5g_m\right) - 1}{C_1C_2C_5L_2L_5s^5 + 2g_m + s^4\left(C_1C_2C_5L_5R_2 + 2C_2C_5L_2L_5g_m\right) + s^3\left(C_1C_2L_2 + C_1C_2L_5 + C_1C_5L_5 + 2C_2C_5L_5R_2g_m + 4C_2C_5L_5\right) + s^2\left(C_1C_2R_2 + 2C_2L_2g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_2R_2g_m + 4C_2C_5L_5\right) + s\left(C_1C_2R_2 + 2C_2L_2g_m + 2C_5L_5g_m\right) + s\left(C_1C_2R_2 + 2C_2L_2g_m + 2C_2L_2g_m\right) + s\left(C_1C_2R_2 + 2C_2L_2g_m\right) + s\left(C_1C_2R$$

10.186 INVALID-ORDER-186
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5g_ms^4 + g_m + s^3\left(C_2C_5L_2R_5g_m - C_2C_5L_2 + C_2C_5L_5R_2g_m + C_2C_5L_5\right) + s^2\left(C_2C_5R_2R_5g_m - C_2C_5R_2 + C_2C_5R_5 + C_2L_2g_m + C_5L_5g_m\right) + s\left(C_2R_2g_m + C_2 + C_5R_5g_m - C_5\right)}{2C_5g_ms + s^4\left(C_1C_2C_5L_2 + C_1C_2C_5L_5\right) + s^3\left(C_1C_2C_5R_2 + C_1C_2C_5R_5 + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 2C_2C_5R_2g_m + 4C_2C_5\right)}$$

10.187 INVALID-ORDER-187
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2L_5R_5s^4 - R_5 + s^3\left(-C_2C_5L_5R_2R_5 + C_2L_2L_5R_5g_m - C_2L_2L_5\right) + s^2\left(-C_2L_2R_5 + C_2L_5R_2 + C_2L_5R_5 - C_5L_5R_5\right) + s\left(-C_2R_2R_5 + L_5R_5g_m - L_5\right)}{C_1C_2C_5L_2L_5R_5s^5 + 2R_5g_m + s^4\left(C_1C_2C_5L_5R_2R_5 + C_1C_2L_5R_5g_m\right) + s^3\left(C_1C_2L_2R_5 + C_1C_2L_5R_5 + C_1C_$$

10.188 INVALID-ORDER-188
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

10.189 INVALID-ORDER-189
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.190 INVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5, \infty\right)$ $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^2 \left(C_2 L_2 R_2 R_5 g_m - C_2 L_2 R_2 + C_2 L_2 R_5\right) + s \left(L_2 R_5 g_m - L_2\right)}{2 R_2 g_m + s^3 \left(C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_5\right) + s^2 \left(C_1 L_2 + 2 C_2 L_2 R_2 g_m + 4 C_2 L_2\right) + s \left(C_1 R_2 + C_1 R_5 + 2 L_2 g_m\right) + 4 C_2 L_2 R_3}$ 10.191 INVALID-ORDER-191 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{-C_2C_5L_2R_2s^3 + R_2g_m + s^2\left(C_2L_2R_2g_m + C_2L_2 - C_5L_2\right) + s\left(-C_5R_2 + L_2g_m\right) + 1}{C_1C_2C_5L_2R_2s^4 + s^3\left(C_1C_2L_2 + C_1C_5L_2 + 2C_2C_5L_2R_2g_m + 4C_2C_5L_2\right) + s^2\left(C_1C_5R_2 + 2C_5L_2g_m\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$ 10.192 INVALID-ORDER-192 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ **10.193** INVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$ 10.194 INVALID-ORDER-194 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$ 10.195 INVALID-ORDER-195 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = \frac{-C_2C_5L_2L_5R_2s^4 - R_2 + s^3\left(C_2L_2L_5R_2g_m + C_2L_2L_5 - C_5L_2L_5\right) + s^2\left(-C_2L_2R_2 - C_5L_5R_2 + L_2L_5g_m\right) + s\left(-L_2 + L_5R_2g_m + L_5\right)}{C_1C_2C_5L_2L_5R_2s^5 + 2R_2g_m + s^4\left(C_1C_2L_2L_5 + C_1C_5L_2L_5 + 2C_2C_5L_2L_5\right) + s^3\left(C_1C_2L_2R_2 + C_1C_5L_5R_2 + 2C_5L_2L_5g_m\right) + s^2\left(C_1L_2 + C_1L_5 + 2C_2L_2R_2g_m + 4C_5L_5\right) + s\left(C_1R_2 + 2L_2g_m\right) + 4C_5R_2g_m + 4C_5R_2g_m\right)}$ 10.196 INVALID-ORDER-196 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{R_2 g_m + s^4 \left(C_2 C_5 L_2 L_5 R_2 g_m + C_2 C_5 L_2 L_5\right) + s^3 \left(C_2 C_5 L_2 R_2 R_5 g_m - C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_5 + C_5 L_2 L_5 g_m\right) + s^2 \left(C_2 L_2 R_2 g_m + C_2 L_2 + C_5 L_2 R_5 g_m - C_5 L_2 + C_5 L_5 R_2 g_m + C_5 L_5\right) + s \left(C_5 R_2 R_5 g_m - C_5 R_2 + C_5 R_5 + L_2 g_m\right) + 1}{C_1 C_2 C_5 L_2 L_5 s^5 + s^4 \left(C_1 C_2 C_5 L_2 R_2 + C_1 C_2 C_5 L_2 R_5\right) + s^3 \left(C_1 C_2 L_2 + C_1 C_5 L_2 +$ 10.197 INVALID-ORDER-197 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2L_5R_2R_5s^4 - R_2R_5 + s^3\left(C_2L_2L_5R_2R_5g_m - C_2L_2L_5R_2 + C_2L_2L_5R_5 - C_5L_2L_5R_5\right) + s^2\left(-C_2L_2R_2R_5 - C_5L_5R_2R_5 + L_2L_5R_5g_m - L_2L_5\right) + s\left(-L_2R_5 + R_5R_5g_m - L_2L_5\right) + s\left(-L_2R_5 + R_5R_5g_m - L_2L_5\right) + s\left(-L_2R_5 + R_5R_5g_m - L_2L_5R_5g_m + 4R_5 + s^4\left(C_1C_2L_2L_5R_5 + C_1C_5L_2L_5R_5 + C_1C_5L_2L_5R_5\right) + s^3\left(C_1C_2L_2R_2R_5 + C_1L_2L_5 + 2C_2L_2L_5R_2g_m + 4C_2L_2L_5 + 2C_5L_2L_5R_5g_m + 4C_2L_2L_5R_5 + C_1L_2L_5 + 2C_2L_2L_5R_5g_m + 4C_2L_2L_5R_5g_m + 4C_2L_2L_5R_5g$

10.198 INVALID-ORDER-198 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^4 \left(C_2 C_5 L_2 L_5 R_2 g_m - C_2 C_5 L_2 L_5 R_2 + C_2 C_5 L_2 L_5 R_2 + C_2 C_5 L_2 L_5 R_3 + S^2 \left(C_2 L_2 R_2 g_m + C_2 L_2 L_5 R_2 g_m - C_5 L_2 L_5 R_3 - C_5 L_2 L_5 R_3 - C_5 L_2 L_5 R_3 + C_5 L_2 R_5 g_m - C_5 L_2 L_5 R_3 + C_5 L_2 R_5 g_m - C_5 L_5 R_2 + C_5 L_5 R_3 + C_5 L_5$

10.199 INVALID-ORDER-199 $Z(s) = \left(\frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $R_{2}R_{5}g_{m}-R_{2}+R_{5}+s^{4}\left(C_{2}C_{5}L_{2}L_{5}R_{2}+C_{2}C_{5}L_{2}L_{5}R_{2}+C_{2}C_{5}L_{2}L_{5}R_{5}+s^{3}\left(-C_{2}C_{5}L_{2}L_{5}R_{5}g_{m}-C_{5}L_{2}L_{5}\right)+s^{2}\left(C_{2}L_{2}R_{2}R_{5}g_{m}-C_{2}L_{2}R_{5}+C_{2}L_{2}R_{5}+C_{5}L_{2}R_{5}+C$

$$\textbf{10.204} \quad \textbf{INVALID-ORDER-204} \ \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_2 C_5 L_2 L_5 R_2 g_m + C_2 C_5 L_2 L_5\right) + s^3 \left(-C_2 C_5 L_2 R_2 + C_2 C_5 L_5 R_2\right) + s^2 \left(C_2 L_2 R_2 g_m + C_2 L_2 + C_5 L_5 R_2 g_m + C_5 L_5\right) + s \left(C_2 R_2 - C_5 R_2\right) + 1}{C_1 C_2 C_5 L_2 L_5 s^5 + s^4 \left(C_1 C_2 C_5 L_2 R_2 + C_1 C_2 C_5 L_5 R_2\right) + s^3 \left(C_1 C_2 L_2 + C_1 C_5 L_2 R_2 g_m + 4 C_2 C_5 L_2\right) + s^2 \left(C_1 C_2 R_2 + C_1 C_5 R_2 + 4 C_2 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 C_5 L_2\right) + s^2 \left(C_1 C_2 R_2 + C_1 C_5 R_2 + 4 C_2 C_5 R_2\right) + s \left(C_1 C_2 R_2 + C_1 C_5 R_$$

$$\textbf{10.206} \quad \textbf{INVALID-ORDER-206} \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_2 C_5 L_2 L_5 R_2 g_m + C_2 C_5 L_2 L_5\right) + s^3 \left(C_2 C_5 L_2 R_2 R_5 g_m - C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_5 + C_2 C_5 L_2 R_5 + C_2 C_5 L_2 R_5 + C_2 L_2 R_2 g_m + C_2 L_2 + C_5 L_5 R_2 g_m + C_5 L_5\right) + s \left(C_2 R_2 + C_5 R_2 R_5 g_m - C_5 R_2 + C_5 R_5\right) + 1}{C_1 C_2 C_5 L_2 L_5 s^5 + s^4 \left(C_1 C_2 C_5 L_2 R_5 + C_1 C_2 C_5 L_2 R$$

10.208 INVALID-ORDER-208
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^4 \left(C_2 C_5 L_2 L_5 R_2 g_m - C_2 C_5 L_2 L_5 R_2 + C_2 L_2 L_5 R_2 g_m - C_2 L_2 R$$

10.209 INVALID-ORDER-209
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^4 \left(C_2 C_5 L_2 L_5 R_2 g_m - C_2 C_5 L_2 L_5 R_2 + C_2 C_5 L_2 R_2 R_5 + C_2 C_5 L_2 R_2 R_5 + c^2 \left(C_2 L_2 R_2 R_5 g_m - C_2 L_2 R_2 + C_2 L_2 R_5 + C_5 L_5 R_2 R_5 g_m - C_2 L_2 R_2 + C_2 L_2 R_5 + C_5 L_5 R_2 R_5 g_m - C_2 L_2 R_2 R_5 + C_5 L_5 R_2 R_5 g_m - C_2 L_2 R_2 R_5 g_m - C_2 L$

10.210 INVALID-ORDER-210 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5}{2R_1 R_2 q_m + 4R_1 + R_2 + R_5 + s \left(C_1 R_1 R_2 + C_1 R_1 R_5\right)}$$

10.211 INVALID-ORDER-211 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_5L_5R_1R_2g_m + C_5L_5R_1\right)}{C_1C_5L_5R_1s^3 + s^2\left(C_1C_5R_1R_2 + C_5L_5\right) + s\left(C_1R_1 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

10.212 INVALID-ORDER-212 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_2s^2 - R_1R_2 + s\left(L_5R_1R_2g_m + L_5R_1\right)}{C_1C_5L_5R_1R_2s^3 + 2R_1R_2g_m + 4R_1 + R_2 + s^2\left(C_1L_5R_1 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2\right) + s\left(C_1R_1R_2 + L_5\right)}$$

10.213 INVALID-ORDER-213 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1 \right) + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_5 \right)}{C_1 C_5 L_5 R_1 s^3 + s^2 \left(C_1 C_5 R_1 R_2 + C_1 C_5 R_1 R_5 + C_5 L_5 \right) + s \left(C_1 R_1 + 2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 + C_5 R_5 \right) + 1}$$

10.214 INVALID-ORDER-214 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_2R_5s^2 - R_1R_2R_5 + s\left(L_5R_1R_2R_5g_m - L_5R_1R_2 + L_5R_1R_5\right)}{C_1C_5L_5R_1R_2R_5s^3 + 2R_1R_2R_5g_m + 4R_1R_5 + R_2R_5 + s^2\left(C_1L_5R_1R_2 + C_5L_5R_1R_2 + 2C_5L_5R_1R_2R_5g_m + 4C_5L_5R_1R_5 + C_5L_5R_2R_5\right) + s\left(C_1R_1R_2R_5 + 2L_5R_1R_2g_m + 4L_5R_1 + L_5R_2 + L_5R_5\right)}$$

10.215 INVALID-ORDER-215 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^2 \left(C_5 L_5 R_1 R_2 R_5 g_m - C_5 L_5 R_1 R_2 + C_5 L_5 R_1 R_5\right) + s \left(L_5 R_1 R_2 g_m + L_5 R_1\right)}{2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s^3 \left(C_1 C_5 L_5 R_1 R_2 + C_1 C_5 L_5 R_1 R_5\right) + s^2 \left(C_1 L_5 R_1 + 2 C_5 L_5 R_1 R_2 g_m + 4 C_5 L_5 R_1 + C_5 L_5 R_2 + C_5 L_5 R_5\right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_5 + L_5\right)}$$

10.216 INVALID-ORDER-216 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_5L_5R_1R_2R_5g_m - C_5L_5R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_1R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2\right) + s^2\left(C_1C_5R_1R_2R_5 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2 + C_5L_5R_5\right) + s\left(C_1R_1R_2 + C_1R_1R_5 + 2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5\right)}$$

10.217 INVALID-ORDER-217 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 g_m + s \left(C_2 R_1 - C_5 R_1\right)}{s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 + 4 C_2 C_5 R_1\right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5\right)}$$

10.218 INVALID-ORDER-218
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5R_1R_5s^2 + R_1g_m + s\left(C_2R_1 + C_5R_1R_5g_m - C_5R_1\right)}{C_1C_2C_5R_1R_5s^3 + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 4C_2C_5R_1 + C_2C_5R_5\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.219 INVALID-ORDER-219
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1s^3 + C_5L_5R_1g_ms^2 + R_1g_m + s\left(C_2R_1 - C_5R_1\right)}{C_1C_2C_5L_5R_1s^4 + C_2C_5L_5s^3 + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 4C_2C_5R_1\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.220 INVALID-ORDER-220
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_5 R_1 g_m s - R_1 + s^2 \left(C_2 L_5 R_1 - C_5 L_5 R_1\right)}{2 R_1 g_m + s^3 \left(C_1 C_2 L_5 R_1 + C_1 C_5 L_5 R_1 + 4 C_2 C_5 L_5 R_1\right) + s^2 \left(C_2 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(C_1 R_1 + 4 C_2 R_1\right) + 1}$$

10.221 INVALID-ORDER-221
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1s^3 + R_1g_m + s^2\left(C_2C_5R_1R_5 + C_5L_5R_1g_m\right) + s\left(C_2R_1 + C_5R_1R_5g_m - C_5R_1\right)}{C_1C_2C_5L_5R_1s^4 + s^3\left(C_1C_2C_5R_1R_5 + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 4C_2C_5R_1 + C_2C_5R_5\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.222 INVALID-ORDER-222
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-R_1R_5 + s^2\left(C_2L_5R_1R_5 - C_5L_5R_1R_5\right) + s\left(L_5R_1R_5g_m - L_5R_1\right)}{2R_1R_5g_m + R_5 + s^3\left(C_1C_2L_5R_1R_5 + 4C_2C_5L_5R_1R_5\right) + s^2\left(C_1L_5R_1 + 4C_2L_5R_1 + C_2L_5R_5 + 2C_5L_5R_1R_5g_m + C_5L_5R_5\right) + s\left(C_1R_1R_5 + 4C_2R_1R_5 + 4C_2R_1R_5 + 4C_2R_1R_5 + 4C_2R_1R_5\right)}$$

10.223 INVALID-ORDER-223
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(C_2L_5R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s\left(C_2R_1R_5 + L_5R_1g_m\right)}{C_1C_2C_5L_5R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_2L_5R_1 + C_1C_5L_5R_1 + 4C_2C_5L_5R_1 + C_2C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_2L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 4C_2R_1 + C_2R_5\right) + 1}$$

10.224 INVALID-ORDER-224
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s\left(C_2R_1R_5 - C_5R_1R_5\right)}{C_1C_2C_5L_5R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_5L_5R_1 + 4C_2C_5L_5R_1 + C_2C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1C_5R_1R_5 + 4C_2C_5R_1R_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 4C_2R_1 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.225 INVALID-ORDER-225
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5R_1R_2R_5s^2 + R_1R_2g_m + R_1 + s\left(C_2R_1R_2 + C_5R_1R_2R_5g_m - C_5R_1R_2 + C_5R_1R_5\right)}{C_1C_2C_5R_1R_2R_5s^3 + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_2 + C_1C_5R_1R_5 + 4C_2C_5R_1R_2 + C_2C_5R_2R_5\right) + s\left(C_1R_1 + C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2 + C_5R_5\right) + 1}$$

10.226 INVALID-ORDER-226
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_5R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_5L_5R_1R_2g_m + C_5L_5R_1\right) + s\left(C_2R_1R_2 - C_5R_1R_2\right)}{C_1C_2C_5L_5R_1R_2s^4 + s^3\left(C_1C_5L_5R_1 + C_2C_5L_5R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_2 + 4C_2C_5R_1R_2 + C_5L_5\right) + s\left(C_1R_1 + C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

10.227 INVALID-ORDER-227 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = \frac{-R_1R_2 + s^2\left(C_2L_5R_1R_2 - C_5L_5R_1R_2\right) + s\left(L_5R_1R_2g_m + L_5R_1\right)}{2R_1R_2g_m + 4R_1 + R_2 + s^3\left(C_1C_2L_5R_1R_2 + C_1C_5L_5R_1R_2 + 4C_2C_5L_5R_1R_2\right) + s^2\left(C_1L_5R_1 + C_2L_5R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2\right) + s\left(C_1R_1R_2 + 4C_2R_1R_2 + L_5\right)}$ 10.228 INVALID-ORDER-228 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{C_2C_5L_5R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2C_5R_1R_2R_5 + C_5L_5R_1R_2g_m + C_5L_5R_1\right) + s\left(C_2R_1R_2 + C_5R_1R_2R_5g_m - C_5R_1R_2 + C_5R_1R_2 + C_5R_1R_2\right)}{C_1C_2C_5L_5R_1R_2s^4 + s^3\left(C_1C_2C_5R_1R_2R_5 + C_1C_5L_5R_1 + C_2C_5L_5R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_2 + C_1C_5R_1R_2 + C_2C_5R_2R_5 + C_5L_5\right) + s\left(C_1R_1 + C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2 + C_5R_5\right) + 1}$ **10.229** INVALID-ORDER-229 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$ $H(s) = \frac{-R_1R_2R_5 + s^2\left(C_2L_5R_1R_2R_5 - C_5L_5R_1R_2R_5\right) + s\left(L_5R_1R_2R_5g_m - L_5R_1R_2 + L_5R_1R_5\right)}{2R_1R_2R_5g_m + 4R_1R_5 + R_2R_5 + s^3\left(C_1C_2L_5R_1R_2R_5 + 4C_2C_5L_5R_1R_2R_5\right) + s^2\left(C_1L_5R_1R_2 + C_2L_5R_1R_2 + C_2L_5R_1R_2$ 10.230 INVALID-ORDER-230 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = \frac{C_2C_5L_5R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_2L_5R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_$ 10.231 INVALID-ORDER-231 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$ $\frac{C_2C_5L_5R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_5L_5R_1R_2R_5g_m - C_5L_5R_1R_2 + C_5L_5R_1$ **10.232** INVALID-ORDER-232 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{-C_2C_5R_1R_2s^2 + R_1g_m + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1\right)}{C_1C_2C_5R_1R_2s^3 + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_2\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$ **10.233** INVALID-ORDER-233 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $H(s) = \frac{-C_2C_5R_1R_2R_5s^2 + R_1R_5g_m - R_1 + s\left(C_2R_1R_2R_5g_m - C_2R_1R_2 + C_2R_1R_5 - C_5R_1R_5\right)}{C_1C_2C_5R_1R_2R_5s^3 + 2R_1g_m + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_5 + C_1C_5R_1R_5 + 2C_2C_5R_1R_2R_5g_m + 4C_2C_5R_1R_5 + C_2C_5R_2R_5\right) + s\left(C_1R_1 + 2C_2R_1R_2g_m + 4C_2R_1 + C_2R_2 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$

10.233 INVALID-ORDER-233
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

10.234 INVALID-ORDER-234
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_1 g_m + s^2 \left(C_2 C_5 R_1 R_2 R_5 g_m - C_2 C_5 R_1 R_2 + C_2 C_5 R_1 R_5 \right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1 \right)}{s^3 \left(C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_5 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 + 2 C_2 C_5 R_1 R_2 g_m + 4 C_2 C_5 R_1 + C_2 C_5 R_2 + C_2 C_5 R_5 \right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5 \right)}$$

10.235 INVALID-ORDER-235
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_1 g_m + s^3 \left(C_2 C_5 L_5 R_1 R_2 g_m + C_2 C_5 L_5 R_1\right) + s^2 \left(-C_2 C_5 R_1 R_2 + C_5 L_5 R_1 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 - C_5 R_1\right)}{C_1 C_2 C_5 L_5 R_1 s^4 + s^3 \left(C_1 C_2 C_5 R_1 R_2 + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 + 2 C_2 C_5 R_1 R_2 g_m + 4 C_2 C_5 R_1 + C_2 C_5 R_2\right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5\right)}$$

10.236 INVALID-ORDER-236 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = \frac{-C_2C_5L_5R_1R_2s^3 - R_1 + s^2\left(C_2L_5R_1R_2g_m + C_2L_5R_1 - C_5L_5R_1\right) + s\left(-C_2R_1R_2 + L_5R_1g_m\right)}{C_1C_2C_5L_5R_1R_2s^4 + 2R_1g_m + s^3\left(C_1C_2L_5R_1 + C_1C_5L_5R_1 + 2C_2C_5L_5R_1R_2g_m + 4C_2C_5L_5R_1\right) + s^2\left(C_1C_2R_1R_2 + L_5R_1g_m\right) + s^2\left(C_1C_2R_1R_2 + C_2L_5R_1R_2g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_2R_1R_2g_m + 4C_2R_1 + C_2R_2\right) + 1}$ **10.237** INVALID-ORDER-237 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{R_1 g_m + s^3 \left(C_2 C_5 L_5 R_1 R_2 g_m + C_2 C_5 L_5 R_1\right) + s^2 \left(C_2 C_5 R_1 R_2 R_5 g_m - C_2 C_5 R_1 R_2 + C_2 C_5 R_1 R_5 + C_5 L_5 R_1 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1\right)}{C_1 C_2 C_5 L_5 R_1 s^4 + s^3 \left(C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_5 + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 + 2 C_2 C_5 R_1 R_2 g_m + 4 C_2 C_5 R_1 + C_2 C_5 R_2 + C_2 C_5 R_5\right) + s \left(C_2 C_5 R_1 R_2 + C_2 C_5 R_1 R_2 + C_2$ 10.238 INVALID-ORDER-238 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$ $H(s) = \frac{-C_2C_5L_5R_1R_2R_5s^3 - R_1R_5 + s^2\left(C_2L_5R_1R_2R_5g_m - C_2L_5R_1R_2 + C_2L_5R_1R_5 - C_5L_5R_1R_5\right) + s\left(-C_2R_1R_2R_5 + L_5R_1R_5g_m - L_5R_1\right)}{C_1C_2C_5L_5R_1R_2R_5s^4 + 2R_1R_5g_m + R_5 + s^3\left(C_1C_2L_5R_1R_2 + C_1C_2L_5R_1R_5 + C_2C_5L_5R_1R_5 + C_2C_5L_5R_1R_5$ **10.239** INVALID-ORDER-239 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_2 C_5 L_5 R_1 R_2 R_5 g_m - C_2 C_5 L_5 R_1 R_2 + C_2 C_5 L_5 R_1 R_2 +$ 10.240 INVALID-ORDER-240 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$ $\frac{R_{1}R_{5}g_{m}-R_{1}+s^{3}\left(C_{2}C_{5}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{5}R_{1}R_{5}+s^{2}\left(-C_{2}C_{5}R_{1}R_{2}R_{5}+C_{5}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{5}R_{1}\right)+s\left(C_{2}R_{1}R_{2}R_{5}g_{m}-C_{2}R_{1}R_{2}+C_{2}R_{1}R_{5}-C_{5}R_{1}R_{5}+c_{5$ **10.241** INVALID-ORDER-241 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$ $H(s) = \frac{C_2R_1R_5s + R_1R_5g_m - R_1 + s^2\left(C_2L_2R_1R_5g_m - C_2L_2R_1\right)}{C_1C_2L_2R_1s^3 + 2R_1g_m + s^2\left(C_1C_2R_1R_5 + 2C_2L_2R_1g_m + C_2L_2\right) + s\left(C_1R_1 + 4C_2R_1 + C_2R_5\right) + 1}$ **10.242** INVALID-ORDER-242 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{-C_2C_5L_2R_1s^3 + C_2L_2R_1g_ms^2 + R_1g_m + s\left(C_2R_1 - C_5R_1\right)}{C_1C_2C_5L_2R_1s^4 + s^3\left(2C_2C_5L_2R_1g_m + C_2C_5L_2\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 4C_2C_5R_1\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$ **10.243** INVALID-ORDER-243 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $H(s) = \frac{-C_2C_5L_2R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(C_2L_2R_1R_5g_m - C_2L_2R_1\right) + s\left(C_2R_1R_5 - C_5R_1R_5\right)}{C_1C_2C_5L_2R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_2L_2R_1 + 2C_2C_5L_2R_1R_5g_m + C_2C_5L_2R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1C_5R_1R_5 + 4C_2C_5R_1R_5 + 2C_2L_2R_1g_m + C_2L_2\right) + s\left(C_1R_1 + 4C_2R_1 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$ **10.244** INVALID-ORDER-244 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$10.244 \quad \text{INVALID-ORDER-244} \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{R_1 g_m + s^3 \left(C_2 C_5 L_2 R_1 R_5 g_m - C_2 C_5 L_2 R_1\right) + s^2 \left(C_2 C_5 R_1 R_5 + C_2 L_2 R_1 g_m\right) + s \left(C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1\right) }{C_1 C_2 C_5 L_2 R_1 s^4 + s^3 \left(C_1 C_2 C_5 R_1 R_5 + 2 C_2 C_5 L_2 R_1 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 + 4 C_2 C_5 R_1 + C_2 C_5 R_5\right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5\right) }$$

$$\textbf{10.245} \quad \textbf{INVALID-ORDER-245} \ \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \infty, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$$

$$H(s) = \frac{C_2C_5L_2L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_2C_5L_2R_1 + C_2C_5L_5R_1\right) + s^2\left(C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1\right)}{s^4\left(C_1C_2C_5L_2R_1 + C_1C_2C_5L_5R_1\right) + s^3\left(2C_2C_5L_2R_1g_m + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 4C_2C_5R_1\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.246 INVALID-ORDER-246 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2L_5R_1s^4 + C_2L_2L_5R_1g_ms^3 + L_5R_1g_ms - R_1 + s^2\left(-C_2L_2R_1 + C_2L_5R_1 - C_5L_5R_1\right)}{C_1C_2C_5L_2L_5R_1s^5 + 2R_1g_m + s^4\left(2C_2C_5L_2L_5R_1g_m + C_2C_5L_2L_5\right) + s^3\left(C_1C_2L_2R_1 + C_1C_5L_5R_1 + 4C_2C_5L_5R_1\right) + s^2\left(2C_2L_2R_1g_m + C_2L_2 + C_2L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 4C_2R_1\right) + 1}$

10.247 INVALID-ORDER-247 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_2C_5L_2L_5R_1g_ms^4 + R_1g_m + s^3\left(C_2C_5L_2R_1R_5g_m - C_2C_5L_2R_1 + C_2C_5L_5R_1\right) + s^2\left(C_2C_5R_1R_5 + C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1 + C_5R_1R_5g_m - C_5R_1\right)}{s^4\left(C_1C_2C_5L_2R_1 + C_1C_2C_5L_5R_1\right) + s^3\left(C_1C_2C_5R_1R_5 + 2C_2C_5L_2R_1g_m + C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 4C_2C_5R_1 + C_2C_5R_5\right) + s\left(C_2 + 2C_5R_1g_m + C_5R_1\right)}$

10.248 INVALID-ORDER-248 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2L_5R_1R_5s^4 - R_1R_5 + s^3\left(C_2L_2L_5R_1R_5g_m - C_2L_2L_5R_1\right) + s^2\left(-C_2L_2R_1R_5 + C_2L_5R_1R_5 - C_5L_5R_1R_5\right) + s\left(L_5R_1R_5g_m - L_5R_1\right)}{C_1C_2C_5L_2L_5R_1R_5s^5 + 2R_1R_5g_m + R_5 + s^4\left(C_1C_2L_2L_5R_1 + 2C_2C_5L_2L_5R_1R_5g_m + C_2L_2L_5R_1\right) + s^3\left(C_1C_2L_2R_1R_5 + C_1C_5L_5R_1R_5 + C_1C_5L_5R_1R_5 + 2C_2L_2L_5R_1g_m + C_2L_2L_5\right) + s^2\left(C_1L_5R_1 + 2C_2L_2R_1R_5g_m + C_2L_2R_1R_5g_m +$

10.249 INVALID-ORDER-249 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_2 L_5 R_1 \right) + s^3 \left(C_2 C_5 L_5 R_1 R_5 + C_2 L_2 L_5 R_1 g_m\right) + s^2 \left(C_2 L_2 R_1 R_5 g_m - C_2 L_2 R_1 + C_2 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right) + s \left(C_2 R_1 R_5 + L_5 R_1 g_m\right)}{C_1 C_2 C_5 L_2 L_5 R_1 g_m + s^4 \left(C_1 C_2 C_5 L_5 R_1 R_5 + 2 C_2 C_5 L_2 L_5 R_1 g_m + C_2 C_5 L_2 L_5\right) + s^3 \left(C_1 C_2 L_2 R_1 + C_1 C_2 L_5 R_1 + C_1 C_5 L_5 R_1 + C_2 C_5 L_5 R_1\right) + s^2 \left(C_1 C_2 R_1 R_5 + 2 C_2 L_2 R_1 g_m + C_2 L_2 + C_2 L_5 R_1 g_m + C_5 L_5\right) + s \left(C_1 R_1 + 4 C_2 R_1 + C_2 R_1 R_5 + C_2 R_1 R_5 + C_2 R_1 R_5 + C_2 R_1 R_5 + C_2 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R_5 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_1 R$

10.250 INVALID-ORDER-250 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_2 L_5 R_1 R_5 + c_2 C_5 L_2 R_1 R_5 - C_2 L_2 R_1 R_5 g_m - C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1 R_5 - C_5 R_1 R_5 R_1 R_5 g_m - C_5 L_5 R_1 R_5 g$

10.251 INVALID-ORDER-251 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^2 \left(C_2 L_2 R_1 R_5 g_m - C_2 L_2 R_1\right) + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right)}{C_1 C_2 L_2 R_1 s^3 + 2 R_1 g_m + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_2 R_1 R_5 + 2 C_2 L_2 R_1 g_m + C_2 L_2\right) + s \left(C_1 R_1 + 2 C_2 R_1 R_2 g_m + 4 C_2 R_1 + C_2 R_2 + C_2 R_5\right) + 1}$

10.252 INVALID-ORDER-252 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2R_1s^3 + R_1g_m + s^2\left(-C_2C_5R_1R_2 + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1\right)}{C_1C_2C_5L_2R_1s^4 + s^3\left(C_1C_2C_5R_1R_2 + 2C_2C_5L_2R_1g_m + C_2C_5L_2\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_2\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$

10.253 INVALID-ORDER-253 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(-C_2C_5R_1R_2R_5 + C_2L_2R_1R_5g_m - C_2L_2R_1\right) + s\left(C_2R_1R_2R_5g_m - C_2R_1R_2 + C_2R_1R_5 - C_5R_1R_5\right)}{C_1C_2C_5L_2R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_2C_5R_1R_2R_5 + C_1C_2L_2R_1 + 2C_2C_5L_2R_1R_5g_m + C_2C_5L_2R_1\right) + s\left(C_1C_2R_1R_5 + C_1C_2R_1R_5 + C_1C_2R_1R_5 + C_2C_5R_1R_5 + C_2C_5R_1$

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10.254 INVALID-ORDER-254 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                          10.255 INVALID-ORDER-255 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                     H(s) = \frac{C_2C_5L_2L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_2C_5L_2R_1 + C_2C_5L_5R_1R_2g_m + C_2C_5L_5R_1\right) + s^2\left(-C_2C_5R_1R_2 + C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1\right)}{s^4\left(C_1C_2C_5L_2R_1 + C_1C_2C_5L_5R_1\right) + s^3\left(C_1C_2C_5R_1R_2 + 2C_2C_5L_2R_1g_m + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_2\right) + s\left(C_2+2C_5R_1g_m + C_5R_1\right)}
10.256 INVALID-ORDER-256 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_2L_5R_1s^4 - R_1 + s^3\left(-C_2C_5L_5R_1R_2 + C_2L_2L_5R_1g_m\right) + s^2\left(-C_2L_2R_1 + C_2L_5R_1g_m + C_2L_5R_1 - C_5L_5R_1\right) + s\left(-C_2R_1R_2 + L_5R_1g_m\right)}{C_1C_2C_5L_2L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_2C_5L_5R_1R_2 + 2C_2C_5L_2L_5R_1g_m + C_2C_5L_5R_1 + C_1C_5L_5R_1 + C_2C_5L_5R_1 + C_2C_5L_5R_1\right) + s^2\left(C_1C_2R_1R_2 + 2C_2L_2R_1g_m + C_2L_2 + C_2L_5R_1g_m + C_5L_5\right) + s^2\left(C_1C_2R_1R_2 + 2C_2L_2R_1g_m + C_2L_2R_1g_m + C_2L
10.257 INVALID-ORDER-257 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                               H(s) = \frac{C_2C_5L_2L_5R_1g_ms^4 + R_1g_m + s^3\left(C_2C_5L_2R_1R_5g_m - C_2C_5L_2R_1 + C_2C_5L_5R_1R_2g_m + C_2C_5L_5R_1\right) + s^2\left(C_2C_5R_1R_2R_5g_m - C_2C_5R_1R_2 + C_2C_5R_1R_5 + C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_5R_1R_5g_m - C_5R_1\right)}{s^4\left(C_1C_2C_5L_2R_1 + C_1C_2C_5L_5R_1\right) + s^3\left(C_1C_2C_5R_1R_2 + C_2C_5L_2R_1g_m + C_2C_5L_2R_1g_m + C_2C_5L_2R_1g_m + C_2C_5L_2R_1g_m + C_2C_5R_1R_2 + C_2C_5R_1R_2g_m + C_2C_5R_1R
10.258 INVALID-ORDER-258 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           H(s) = \frac{-C_2C_5L_2L_5R_1R_5s^2 - R_1R_5 + s^2\left(-C_2C_5L_5R_1R_2R_5 + C_2L_2L_5R_1R_5g_m - C_2L_2L_5R_1\right) + s^2\left(-C_2L_2L_5R_1\right) + s^2\left
10.259 INVALID-ORDER-259 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_2 L_5 R_1 R_2 F_2 g_m - C_2 C_5 L_5 R_1 R_2 + C_2 C_5 L_5 R_1 R_2 - C_2 L_5 R_1 R_2 g_m + C_2 L_5 R
10.260 INVALID-ORDER-260 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_2 L_5 R_1 R_2 + C_2 C_5 L_5 R_1 R
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$$H(s) = \frac{1}{C_1C_2C_5L_2L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_2C_5L_2R_1R_5 + C_1C_2C_5L_5R_1R_2 + C_1C_2C_5L_5R_1R_5 + 2C_2C_5L_2R_1R_5 + C_1C_2C_5L_5R_1R_2 + C_1C_2C_5L_5R_1R_2 + C_1C_2C_5L_5R_1R_2R_5 + C_1C_2C_5L_2R_1 + C_1C_5L_5R_1 + C_2C_5L_2R_1 + C_1C_5L_5R_1 + C_2C_5L_5R_1R_2R_5 + C_1C_2C_5L_5R_1R_2R_5 + C_1C_2C_5L_5R_1R_5 + C_1C_2C_5L_5$$

10.261 INVALID-ORDER-261
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^2 \left(C_2 L_2 R_1 R_2 R_5 g_m - C_2 L_2 R_1 R_2 + C_2 L_2 R_1 R_5\right) + s \left(L_2 R_1 R_5 g_m - L_2 R_1\right)}{2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s^3 \left(C_1 C_2 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 R_5\right) + s^2 \left(C_1 L_2 R_1 + 2 C_2 L_2 R_1 R_2 g_m + 4 C_2 L_2 R_1 + C_2 L_2 R_2 + C_2 L_2 R_5\right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_5 + 2 L_2 R_1 g_m + L_2\right)}$$

10.262 INVALID-ORDER-262
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_2C_5L_2R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 - C_5L_2R_1\right) + s\left(-C_5R_1R_2 + L_2R_1g_m\right)}{C_1C_2C_5L_2R_1R_2s^4 + s^3\left(C_1C_2L_2R_1 + C_1C_5L_2R_1 + 2C_2C_5L_2R_1R_2g_m + 4C_2C_5L_2R_1 + C_2C_5L_2R_2\right) + s^2\left(C_1C_5R_1R_2 + C_2L_2 + 2C_5L_2R_1g_m + C_5L_2\right) + s\left(C_1R_1 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

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10.263 INVALID-ORDER-263 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)
 H(s) = \frac{-C_2C_5L_2R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_2L_2R_1R_2 + C_2L_2R_1R_5 - C_5L_2R_1R_5\right) + s\left(-C_5R_1R_2R_5 + L_2R_1R_5g_m - L_2R_1\right)}{C_1C_2C_5L_2R_1R_2R_5s^4 + 2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_5 + C_1C_5L_2R_1R_5 + C_2C_5L_2R_1R_5 +
 10.264 INVALID-ORDER-264 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
 H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_5 L_2 R_1 R_2 R_5 g_m - C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_5 L_2 R_1 R_5 g_m - C_5 L_2 R_1 \right) + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_5 + L_2 R_1 g_m \right)}{s^4 \left(C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_5 L_2 R_1 + C_1 C_5 L_2 R_1 + C_2 C_5 L_2 R_1 R_2 g_m + 4 C_2 C_5 L_2 R_1 + C_2 C_5 L_2 R_1 
 10.265 INVALID-ORDER-265 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)
 H(s) = \frac{R_1R_2g_m + R_1 + s^4\left(C_2C_5L_2L_5R_1R_2g_m + C_2C_5L_2L_5R_1\right) + s^3\left(-C_2C_5L_2R_1R_2 + C_5L_2L_5R_1g_m\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 - C_5L_2R_1 + C_5L_5R_1\right) + s\left(-C_5R_1R_2 + L_2R_1g_m\right)}{C_1C_2C_5L_2R_1s^5 + s^4\left(C_1C_2C_5L_2R_1R_2 + C_2C_5L_2R_1\right) + s^3\left(C_1C_2L_2R_1 + C_1C_5L_2R_1 + C_2C_5L_2R_1\right) + s^2\left(C_1C_5R_1R_2 + C_2L_2R_1 + C_2C_5L_2R_1\right) + s^2\left(C_1C_5R_1R_2 + C_2L_2 + C_5L_2R_1\right) + s^2\left(C_1C_5R_1R_2 + C_2L_2R_1\right) + s^2\left(C_1C_5R_1R_2 + C_2L_2
 10.266 INVALID-ORDER-266 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
 H(s) = \frac{-C_2C_5L_2L_5R_1R_2s^4 - R_1R_2 + s^3\left(C_2L_2L_5R_1R_2g_m + C_2L_2L_5R_1 - C_5L_2L_5R_1\right) + s^2\left(-C_2L_2R_1R_2 - C_5L_5R_1R_2 + L_2L_5R_1g_m\right) + s\left(-L_2R_1 + L_5R_1R_2g_m + L_
 10.267 INVALID-ORDER-267 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
 H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_2 C_5 L_2 R_1 R_2 R_5 g_m - C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_2 R_1 R_5 + C_5 L_2 L_5 R_1 g_m + S^2 \left(C_2 L_2 R_1 R_2 g_m + C_5 L_2 R_1 + C_5 L_2 R_1 R_5 g_m - C_5 L_2 R_1 + C_5 L_2 R_1 R_2 g_m + C_5 L_2 R_1 R_2
 10.268 INVALID-ORDER-268 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -C_{2}C_{5}L_{2}L_{5}R_{1}R_{2}R_{5}s^{4}-R_{1}R_{2}R_{5}+s^{3}\left(C_{2}L_{2}L_{5}R_{1}R_{2}R_{5}g_{m}-C_{2}L_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}R_{5}g_{m}-C_{2}L_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}R_{5}g_{m}-C_{2}L_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}R_{5}g_{m}-C_{2}L_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}R_{5}g_{m}-C_{2}L_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}R_{5}g_{m}-C_{2}L_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}R_{2}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2}L_{5}R_{1}+C_{2
 H(s) = \frac{C_1C_2C_5L_2L_5R_1R_2R_5s^5 + 2R_1R_2R_5g_m + 4R_1R_5 + R_2R_5 + s^4\left(C_1C_2L_2L_5R_1R_2 + C_1C_2L_2L_5R_1R_5 + C_2C_5L_2L_5R_1R_2 + C_2C_5L_2L_5R_1R_2 + C_1C_2L_2R_1R_2 + s^4\left(C_1C_2L_2L_5R_1R_2 + C_1C_2L_2L_5R_1R_2 + C_2C_5L_2L_5R_1R_2 + C_2C_5L_2R_1R_2 
 10.269 INVALID-ORDER-269 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
                                                         \frac{R_{1}R_{2}R_{5}g_{m}-R_{1}R_{2}+R_{1}R_{5}+s^{4}\left(C_{2}C_{5}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{2}L_{5}R_{1}R_{5}\right)+s^{3}\left(C_{2}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{2}L_{5}R_{1}\right)+s^{2}\left(C_{2}L_{2}R_{1}R_{2}R_{5}g_{m}+C_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{5}R_{1}R_{5}g_{m}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{2}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{
10.270 INVALID-ORDER-270 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_2C_5L_2L_5R_1R_2R_5g_m - C_2C_5L_2L_5R_1R_2 + C_2C_5L_2L_5R_1R_5\right) + s^3\left(-C_2C_5L_2L_5R_1R_2 + C_2C_5L_2L_5R_1R_2 + C_2C_5L_2L_5R_1R_2 + C_2C_5L_2L_5R_1R_2\right) + s^3\left(-C_2C_5L_2L_5R_1R_2 + C_2C_5L_2R_2\right) + s^3\left(-C_2C_5L_2L_5R_2 + C_2C_5L_2R_2\right) + s^3\left(-C_2C_5L_2L_5R_2R_2\right) + s^3\left(-C_2C_5L_2L_5R_2R_2\right) + s^3\left(-C_2C_5L_2L_5R_2\right) + s^3\left(-C_2C_5L_2L_2R_2\right) + s^3\left(-C_2C_5L_2R_2\right) + s^3\left(-C_2C_5L_2R_2\right) + s^3\left(-C_2C_5L_2R_2\right) + s^3\left(-C_2C_5L_2R_2\right) + s^3\left(-C_2C_5L_2R_2\right) + s^3\left(-C_2C_5L_2R_2\right) + s
 H(s) = \frac{1611621639m - 161162 + 161163 + 6 - (\sqrt{2}\sqrt{3})22301172 + \sqrt{2}\sqrt{3})22301172 + \sqrt{2}\sqrt{3}}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^5 \left(C_1C_2C_5L_2L_5R_1R_2 + C_1C_5L_2L_5R_1R_2g_m + 4C_2C_5L_2L_5R_1 + C_2C_5L_2L_5R_5\right) + s^3 \left(C_1C_2L_2R_1R_2 + C_1C_5L_2R_1R_5 + C_1C_5L_2R_1R_5 + C_1C_5L_2R_1R_5 + C_1C_5L_2R_1R_5\right) + s^4 \left(C_1C_2C_5L_2R_1R_2 + C_1C_5L_2R_1R_2 + C_1C_5
 10.271 INVALID-ORDER-271 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_5, \infty\right)
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 $H(s) = \frac{C_2R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_2L_2R_1R_2R_5g_m - C_2L_2R_1R_2 + C_2L_2R_1R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_5\right) + s^2\left(C_1C_2R_1R_2R_5 + 2C_2L_2R_1R_2g_m + 4C_2L_2R_1 + C_2L_2R_5\right) + s\left(C_1R_1R_2 + C_1R_1R_5 + 4C_2R_1R_2 + C_2R_2R_5\right)}$

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10.272 INVALID-ORDER-272 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                         H(s) = \frac{-C_2C_5L_2R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1\right) + s\left(C_2R_1R_2 - C_5R_1R_2\right)}{C_1C_2C_5L_2R_1R_2s^4 + s^3\left(C_1C_2L_2R_1 + 2C_2C_5L_2R_1R_2g_m + 4C_2C_5L_2R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_2 + 4C_2C_5R_1R_2 + C_2L_2\right) + s\left(C_1R_1 + C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}
10.273 INVALID-ORDER-273 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_2R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_2L_2R_1R_2R_5g_m - C_2L_2R_1R_2 + C_2L_2R_1R_5\right) + s\left(C_2R_1R_2R_5 - C_5R_1R_2R_5\right)}{C_1C_2C_5L_2R_1R_2R_5s^4 + 2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(C_1C_2L_2R_1R_2 + C_2C_5L_2R_1R_2R_5 + C_2C_5L_2R_1R_5 + C_2C_5L_2R_1R_5 + C_2
10.274 INVALID-ORDER-274 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_5 L_2 R_1 R_2 R_5 g_m - C_2 C_5 L_2 R_1 R_2 + C_2 C_5 L_2 R_1 R_2 + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 \right) + s \left(C_2 R_1 R_2 + C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_2 \right)}{s^4 \left(C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 + 2 C_2 C_5 L_2 R_1 + C_2 C_5 L_2 R_1 + C_2 C_5 L_2 R_2 \right) + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_5 R_1 R_2 + C_2 C_5 R_2 R_5 + C_2 L_2 \right) + s \left(C_1 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_2 C_5 R_1 R_2 \right)}
10.275 INVALID-ORDER-275 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                     \frac{R_{1}R_{2}g_{m}+R_{1}+s^{4}\left(C_{2}C_{5}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}C_{5}L_{2}L_{5}R_{1}R_{2}+s^{2}\left(C_{2}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{2}R_{1}R_{2}+C_{5}L_{5}R_{1}R_{2}+s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m}+C_{5}L_{5}R_{1}R_{2}+C_{5}L_{5}R_{1}\right)+s\left(C_{2}R_{1}R_{2}-C_{5}R_{1}R_{2}\right)}{C_{1}C_{2}C_{5}L_{2}L_{5}R_{1}s^{5}+s^{4}\left(C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}+C_{1}C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_{2}C_{5}L_{2}R_{1}+C_
10.276 INVALID-ORDER-276 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_2L_5R_1R_2s^4 - R_1R_2 + s^3\left(C_2L_2L_5R_1R_2g_m + C_2L_2L_5R_1\right) + s^2\left(-C_2L_2R_1R_2 + C_2L_5R_1R_2 - C_5L_5R_1R_2\right) + s\left(L_5R_1R_2g_m + L_5R_1\right)}{C_1C_2C_5L_2L_5R_1R_2s^5 + 2R_1R_2g_m + 4R_1 + R_2 + s^4\left(C_1C_2L_2L_5R_1 + 2C_2C_5L_2L_5R_1 + 2C_2C_5L_2L_5R_2\right) + s^3\left(C_1C_2L_2R_1R_2 + C_1C_5L_5R_1R_2 + 4C_2C_5L_5R_1R_2 + 4C_2C_5L_5
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 $\mathbf{10.277} \quad \mathbf{INVALID-ORDER-277} \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2 \left(C_2 L_2 S^2 + 1\right)}{C_2 L_2 S^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{R_1R_2g_m + R_1 + s^4 \left(C_2C_5L_2L_5R_1R_2g_m + C_2C_5L_2L_5R_1\right) + s^3 \left(C_2C_5L_2R_1R_2 + C_2C_5L_2R_1R_2 + C_2C_5L_2R_1R_2\right) + s^2 \left(C_2C_5R_1R_2R_5 + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_5L_5R_1R_2g_m + C_5L_2R_1R_2\right) + s^2 \left(C_2C_5R_1R_2R_5 + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_5L_5R_1R_2g_m + C_5L_2R_1R_2\right) + s^2 \left(C_2C_5R_1R_2R_5 + C_2C_5L_2R_1R_2 + C_2C_5L_2R_1R_2\right) + s^2 \left(C_2C_5R_1R_2R_5 + C_2C_5L_2R_1R_2 + C_2C_5L_2R_1R_2\right) + s^2 \left(C_2C_5R_1R_2R_5 + C_2C_5L_2R_1R_2\right) + s^2 \left(C_2C_5R_1R_2R$

10.278 INVALID-ORDER-278 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_2C_5L_2L_5R_1R_2R_5s^4 - R_1R_2R_5 + s^3\left(C_2L_2L_5R_1R_2R_5g_m - C_2L_2L_5R_1R_2 + C_2L$

10.279 INVALID-ORDER-279 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^4 \left(C_2 C_5 L_2 L_5 R_1 R_2 R_5 g_m - C_2 C_5 L_2 L_5 R_1 R_2 + C_2 C_5 L_2 L_5 R_1 R_2 R_5 + C_2 L_2 L_5 R_1 R_2 R_5 + C_2$

10.280 INVALID-ORDER-280 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.281 INVALID-ORDER-281
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s \left(C_1 R_1 R_2 R_5 g_m - C_1 R_1 R_2 + C_1 R_1 R_5 \right)}{2 R_2 g_m + s \left(2 C_1 R_1 R_2 g_m + 4 C_1 R_1 + C_1 R_2 + C_1 R_5 \right) + 4}$$

10.282 INVALID-ORDER-282
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5R_1R_2s^2 + R_2g_m + s\left(C_1R_1R_2g_m + C_1R_1 - C_5R_2\right) + 1}{s^2\left(2C_1C_5R_1R_2g_m + 4C_1C_5R_1 + C_1C_5R_2\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$$

10.283 INVALID-ORDER-283
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_1 C_5 R_1 R_2 R_5 g_m - C_1 C_5 R_1 R_2 + C_1 C_5 R_1 R_5\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_5 R_2 R_5 g_m - C_5 R_2 + C_5 R_5\right) + 1}{s^2 \left(2 C_1 C_5 R_1 R_2 g_m + 4 C_1 C_5 R_1 + C_1 C_5 R_2 + C_1 C_5 R_5\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5\right)}$$

10.284 INVALID-ORDER-284
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_5 L_5 R_1 R_2 g_m + C_1 C_5 L_5 R_1\right) + s^2 \left(-C_1 C_5 R_1 R_2 + C_5 L_5 R_2 g_m + C_5 L_5\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 - C_5 R_2\right) + 1}{C_1 C_5 L_5 s^3 + s^2 \left(2 C_1 C_5 R_1 R_2 g_m + 4 C_1 C_5 R_1 + C_1 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5\right)}$$

10.285 INVALID-ORDER-285
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

10.286 INVALID-ORDER-286
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_2g_m + s^3\left(C_1C_5L_5R_1R_2g_m + C_1C_5L_5R_1\right) + s^2\left(C_1C_5R_1R_2R_5g_m - C_1C_5R_1R_2 + C_1C_5R_1R_5 + C_5L_5R_2g_m + C_5L_5\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_5R_2R_5g_m - C_5R_2 + C_5R_5\right) + 1}{C_1C_5L_5s^3 + s^2\left(2C_1C_5R_1R_2g_m + 4C_1C_5R_1 + C_1C_5R_2 + C_1C_5R_5\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_5R_2R_5g_m - C_5R_2 + C_5R_5\right) + 1}$$

10.287 INVALID-ORDER-287
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_5R_1R_2R_5s^3 - R_2R_5 + s^2\left(C_1L_5R_1R_2R_5g_m - C_1L_5R_1R_2 + C_1L_5R_1R_5 - C_5L_5R_2R_5\right) + s\left(-C_1R_1R_2R_5 + L_5R_2R_5g_m - L_5R_2 + L_5R_5\right)}{2R_2R_5g_m + 4R_5 + s^3\left(2C_1C_5L_5R_1R_2R_5g_m + 4C_1C_5L_5R_1R_5 + C_1C_5L_5R_2R_5\right) + s^2\left(2C_1L_5R_1R_2g_m + 4C_1L_5R_1 + C_1L_5R_2 + C_1L_5R_5 + 2C_5L_5R_2R_5\right) + s\left(2C_1R_1R_2R_5g_m + 4C_1R_1R_5 + C_1R_2R_5 + 2L_5R_2g_m + 4C_1L_5R_5\right)}$$

10.288 INVALID-ORDER-288
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left(C_1 C_5 L_5 R_1 R_2 R_5 g_m - C_1 C_5 L_5 R_1 R_2 + C_1 C_5 L_5 R_1 R_2 + C_1 C_5 L_5 R_1 R_2 + C_1 L_5 R_1 R_2 g_m + C_1 L_5 R_1 + C_5 L_5 R_2 R_5 g_m - C_5 L_5 R_2 + C_5 L_5 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_1 R_1 R_2 + C_1 R_1 R_5 + L_5 R_2 g_m + L_5\right)}{2 R_2 g_m + s^3 \left(2 C_1 C_5 L_5 R_1 R_2 g_m + 4 C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_2 + C_1 C_5 L_5 R_5\right) + s^2 \left(C_1 L_5 + 2 C_5 L_5 R_2 g_m + 4 C_5 L_5\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_1 R_1 + C_1 R_2 + C_1 R_5\right) + 4$$

10.289 INVALID-ORDER-289
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.290 INVALID-ORDER-290
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^2 (C_1 C_2 R_1 - C_1 C_5 R_1) + s (C_1 R_1 g_m + C_2 - C_5)}{4C_1 C_2 C_5 R_1 s^3 + 2C_5 g_m s + s^2 (C_1 C_2 + 2C_1 C_5 R_1 g_m + C_1 C_5 + 4C_2 C_5)}$$

10.291 INVALID-ORDER-291
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_5g_m + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_5 - C_5R_5\right) - 1}{4C_1C_2C_5R_1R_5s^3 + 2g_m + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5 + 4C_2C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 4C_2 + 2C_5R_5g_m\right)}$$

10.292 INVALID-ORDER-292
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5R_1R_5s^3 + g_m + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_2C_5R_5\right) + s\left(C_1R_1g_m + C_2 + C_5R_5g_m - C_5\right)}{2C_5g_ms + s^3\left(4C_1C_2C_5R_1 + C_1C_2C_5R_5\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 4C_2C_5\right)}$$

10.293 INVALID-ORDER-293
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_5R_1s^4 + g_m + s^3\left(C_1C_5L_5R_1g_m + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 - C_1C_5R_1 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_2 - C_5\right)}{C_1C_2C_5L_5s^4 + 4C_1C_2C_5R_1s^3 + 2C_5g_ms + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 4C_2C_5\right)}$$

10.294 INVALID-ORDER-294
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{s^3 \left(C_1 C_2 L_5 R_1 - C_1 C_5 L_5 R_1\right) + s^2 \left(C_1 L_5 R_1 g_m + C_2 L_5 - C_5 L_5\right) + s \left(-C_1 R_1 + L_5 g_m\right) - 1}{4 C_1 C_2 C_5 L_5 R_1 s^4 + 2 g_m + s^3 \left(C_1 C_2 L_5 + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + 4 C_2 C_5 L_5\right) + s^2 \left(4 C_1 C_2 R_1 + 2 C_5 L_5 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 4 C_2\right)}$$

10.295 INVALID-ORDER-295
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_5R_1s^4 + g_m + s^3\left(C_1C_2C_5R_1R_5 + C_1C_5L_5R_1g_m + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_2C_5R_5 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_2 + C_5R_5g_m - C_5\right)}{C_1C_2C_5L_5s^4 + 2C_5g_ms + s^3\left(4C_1C_2C_5R_1 + C_1C_2C_5R_5\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 4C_2C_5\right)}$$

10.296 INVALID-ORDER-296
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-R_5 + s^3 \left(C_1 C_2 L_5 R_1 R_5 - C_1 C_5 L_5 R_1 R_5\right) + s^2 \left(C_1 L_5 R_1 R_5 g_m - C_1 L_5 R_1 + C_2 L_5 R_5 - C_5 L_5 R_5\right) + s \left(-C_1 R_1 R_5 + L_5 R_5 g_m - L_5\right)}{4 C_1 C_2 C_5 L_5 R_1 R_5 s^4 + 2 R_5 g_m + s^3 \left(4 C_1 C_2 L_5 R_1 + C_1 C_2 L_5 R_5 + 2 C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_5\right) + s^2 \left(4 C_1 C_2 R_1 R_5 + 2 C_1 L_5 R_1 g_m + C_1 L_5 + 4 C_2 L_5 + 2 C_5 L_5 R_5 g_m\right) + s \left(2 C_1 R_1 R_5 g_m + C_1 R_5 + 4 C_2 R_5 + 2 L_5 g_m\right)}{4 C_1 C_2 C_5 L_5 R_1 R_5 s^4 + 2 R_5 g_m + s^3 \left(4 C_1 C_2 L_5 R_1 + C_1 C_2 L_5 R_5 + 2 C_1 C_5 L_5 R_5\right) + s^2 \left(4 C_1 C_2 R_1 R_5 + 2 C_1 L_5 R_1 g_m + C_1 L_5 + 4 C_2 L_5 + 2 C_5 L_5 R_5\right) + s \left(2 C_1 R_1 R_5 g_m + C_1 R_5 + 4 C_2 R_5 + 2 C_1 R_5 R_5\right)}$$

10.297 INVALID-ORDER-297
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_5R_1R_5s^4 + R_5g_m + s^3\left(C_1C_2L_5R_1 + C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1 + C_2C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5g_m - C_5L_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_5 + L_5g_m\right) - 1}{2g_m + s^4\left(4C_1C_2C_5L_5R_1 + C_1C_2C_5L_5R_5\right) + s^3\left(C_1C_2L_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5 + 4C_2C_5L_5\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1A_5R_5g_m - C_1A_5R_5g_m\right) + s\left(2C_1R_1g_m + C_$$

10.298 INVALID-ORDER-298
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_5R_1R_5s^4 + R_5g_m + s^3\left(C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1 + C_2C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_5L_5R_5g_m - C_5L_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_5 - C_5R_5\right) - 1}{2g_m + s^4\left(4C_1C_2C_5L_5R_1 + C_1C_2C_5L_5R_5\right) + s^3\left(4C_1C_2C_5R_1R_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5 + 4C_2C_5L_5\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_1R_5g_m - C_5L_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_5 - C_5R_5\right) - 1}{2g_m + s^4\left(4C_1C_2C_5L_5R_5\right) + s^3\left(4C_1C_2C_5L_5R_1R_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5R_5\right) + s^2\left(4C_1C_2R_1 + C_1C_5R_5 + 2C_1C_5R_5g_m + C_1C_5R_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_5 - C_5R_5\right) - 1}{2g_m + s^4\left(4C_1C_2C_5L_5R_5\right) + s^3\left(4C_1C_2C_5L_5R_1g_m + C_1C_5L_5R_1g_m + C_1C_5L_5\right) + s^2\left(4C_1C_2R_1 + C_1C_5R_5g_m + C_1C_5R_5\right) + s^2\left(4C_1C_2R_1 + C_1C_5R_5\right) + s^2\left(4C_1$$

10.299 INVALID-ORDER-299 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_1 C_2 R_1 R_2 - C_1 C_5 R_1 R_2 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_2 R_2 - C_5 R_2 \right) + 1}{4 C_1 C_2 C_5 R_1 R_2 s^3 + s^2 \left(C_1 C_2 R_2 + 2 C_1 C_5 R_1 R_2 g_m + 4 C_1 C_5 R_1 + C_1 C_5 R_2 + 4 C_2 C_5 R_2 \right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 \right)}$$

10.300 INVALID-ORDER-300 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_2R_5g_m - R_2 + R_5 + s^2\left(C_1C_2R_1R_2R_5 - C_1C_5R_1R_2R_5\right) + s\left(C_1R_1R_2R_5g_m - C_1R_1R_2 + C_1R_1R_5 + C_2R_2R_5 - C_5R_2R_5\right)}{4C_1C_2C_5R_1R_2R_5s^3 + 2R_2g_m + s^2\left(4C_1C_2R_1R_2 + C_1C_5R_1R_2R_5g_m + 4C_1C_5R_1R_5 + C_1C_5R_2R_5 + 4C_2C_5R_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 4C_2R_2 + 2C_5R_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 4C_2R_2 + 2C_5R_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 4C_2R_2 + 2C_5R_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 4C_2R_2 + 2C_5R_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 4C_2R_2 + 2C_5R_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 4C_2R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1R_2 + C_1R_2g_m + 4C_1R_2g_m + C_1R_2g_m\right) + s\left(2C_1R_1R_2g_m + 4C_1R_2g_m + 4C_1R_2g_m + C_1R_2g_m\right) + s\left(2C_1R_1R_2g_m + 4C_1R_2g_m + 4C_1R_2g_m + 4C_1R_2g_m\right) + s\left(2C_1R_1R_2g_m + 4C_1R_2g_m + 4C_1R_2g_m\right) + s\left$

10.301 INVALID-ORDER-301 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5R_1R_2R_5s^3 + R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_2R_5g_m - C_1C_5R_1R_2 + C_1C_5R_1R_5 + C_2C_5R_2R_5\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_5R_2R_5g_m - C_5R_2 + C_5R_5\right) + 1}{s^3\left(4C_1C_2C_5R_1R_2 + C_1C_2C_5R_2R_5\right) + s^2\left(C_1C_2R_2 + 2C_1C_5R_1R_2g_m + 4C_1C_5R_1 + C_1C_5R_2 + C_1C_5R_5 + 4C_2C_5R_2\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$

10.302 INVALID-ORDER-302 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_5R_1R_2s^4 + R_2g_m + s^3\left(C_1C_5L_5R_1R_2g_m + C_1C_5L_5R_1 + C_2C_5L_5R_2\right) + s^2\left(C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_5L_5R_2g_m + C_5L_5\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 - C_5R_2\right) + 1}{C_1C_2C_5L_5R_2s^4 + s^3\left(4C_1C_2C_5R_1R_2 + C_1C_5L_5\right) + s^2\left(C_1C_2R_2 + 2C_1C_5R_1R_2g_m + 4C_1C_5R_1 + C_1C_5R_2 + 4C_2C_5R_2\right) + s\left(C_1+2C_5R_2g_m + 4C_5\right)}$

10.303 INVALID-ORDER-303 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-R_2 + s^3 \left(C_1 C_2 L_5 R_1 R_2 - C_1 C_5 L_5 R_1 R_2\right) + s^2 \left(C_1 L_5 R_1 R_2 g_m + C_1 L_5 R_1 + C_2 L_5 R_2 - C_5 L_5 R_2\right) + s \left(-C_1 R_1 R_2 + L_5 R_2 g_m + L_5\right)}{4 C_1 C_2 C_5 L_5 R_1 R_2 s^4 + 2 R_2 g_m + s^3 \left(C_1 C_2 L_5 R_2 + 2 C_1 C_5 L_5 R_1 R_2 g_m + 4 C_1 C_5 L_5 R_2 + 4 C_2 C_5 L_5 R_2\right) + s^2 \left(4 C_1 C_2 R_1 R_2 + C_1 L_5 + 2 C_5 L_5 R_2 g_m + 4 C_5 L_5\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_1 R_2 + 4 C_2 R_2\right) + 4 C_1 R_2 g_m + 4 C_2 R_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_2 R_2 R_2 + 4 C_2 R_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_2 R_2 R_2 + 4 C_2 R_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_2 R_2 R_2 R_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_2 R_2 R_2 R_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_2 R_2 R_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_2 R_2 R_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_2 R_2 R_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_2 R_2\right$

10.304 INVALID-ORDER-304 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_5R_1R_2s^4 + R_2g_m + s^3\left(C_1C_2C_5R_1R_2R_5 + C_1C_5L_5R_1R_2g_m + C_1C_5L_5R_1 + C_2C_5L_5R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_2R_5g_m - C_1C_5R_1R_2 + C_1C_5R$

10.305 INVALID-ORDER-305 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-R_2R_5 + s^3\left(C_1C_2L_5R_1R_2R_5 - C_1C_5L_5R_1R_2R_5 - C_1L_5R_1R_2 + C_1L_5R_1R_2 + C_1L_5R_1R_5 + C_2L_5R_2R_5 - C_5L_5R_2R_5\right) + s\left(-C_1R_1R_2R_5 + L_5R_2R_5g_m - L_5R_2 + L_5R_2R_5g_m - L_5R_2 + L_5R_2R_5g_m - L_5R_2R_5 + L_5R_2R_5g_m + 4C_1C_5L_5R_1R_2R_5g_m + 4C_1C_5L_5R_1R_2R_5g_m + 4C_1C_5L_5R_1R_2R_5 + 2C_1L_5R_1R_2R_5 + 2C_1L_5R_1R_2g_m + 4C_1L_5R_1 + C_1L_5R_2 + C_1L_5R_1R_2g_m + 4C_1L_5R_2 + C_1L_5R_1R_2g_m + 4C_1L_5R_1R_2g_m + 4C$

10.306 INVALID-ORDER-306 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_5R_1R_2R_5s^4 + R_2R_5g_m - R_2 + R_5 + s^3\left(C_1C_2L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1 + C_1C_5L_5R_1 + C_1C_5L_5R_2 + C_1C_5L_5R_$

10.307 INVALID-ORDER-307 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_5R_1R_2R_5s^4 + R_2R_5g_m - R_2 + R_5 + s^3\left(C_1C_5L_5R_1R_2R_5g_m - C_1C_5L_5R_1R_2 + C_1C_5L_5R_$

10.308 INVALID-ORDER-308 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_1C_2C_5R_1R_2s^3 + g_m + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 - C_1C_5R_1 - C_2C_5R_2\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2 - C_5\right)}{2C_5g_ms + s^3\left(2C_1C_2C_5R_1R_2g_m + 4C_1C_2C_5R_1 + C_1C_2C_5R_2\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 2C_2C_5R_2g_m + 4C_2C_5\right)}$$

10.309 INVALID-ORDER-309 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5R_1R_2R_5s^3 + R_5g_m + s^2\left(C_1C_2R_1R_2R_5g_m - C_1C_2R_1R_2 + C_1C_2R_1R_5 - C_1C_5R_1R_5 - C_2C_5R_2R_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_2R_5g_m - C_2R_2 + C_2R_5 - C_5R_5\right) - 1}{2g_m + s^3\left(2C_1C_2C_5R_1R_2R_5g_m + 4C_1C_2C_5R_1R_5 + C_1C_2R_1R_2g_m + 4C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5g_m + 4C_2C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_2R_2g_m + 4C_2C_5R_5g_m\right)}$

10.310 INVALID-ORDER-310 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{g_m + s^3 \left(C_1 C_2 C_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_5\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_2 C_5 R_2 R_5 g_m - C_2 C_5 R_2 + C_2 C_5 R_5\right) + s \left(C_1 R_1 g_m + C_2 R_2 g_m + C_2 + C_5 R_5 g_m - C_5 C_5 R_5\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + 4 C_1 C_2 C_5 R_1 R_2 g_m + 4 C_1 C_2 C_5 R_2 + C_1 C_2 C_5 R_5\right) + s^2 \left(C_1 C_2 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_2 C_5 R_2 g_m + 4 C_2 C_5\right)}$

10.311 INVALID-ORDER-311 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_5 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_5 R_1\right) + s^3 \left(-C_1 C_2 C_5 R_1 R_2 + C_1 C_5 L_5 R_1 g_m + C_2 C_5 L_5 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 - C_1 C_5 R_1 - C_2 C_5 R_2 + C_5 L_5 g_m\right) + s \left(C_1 R_1 g_m + C_2 R_2 g_m + C_2 C_5 L_5 R_2 g_m + C_2 C_5 R_1 R_2 g_m + C_1 C_2 R_1 R_2 g_m + C_$

10.312 INVALID-ORDER-312 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_5R_1R_2s^4 + s^3\left(C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1 - C_1C_5L_5R_1 - C_2C_5L_5R_2\right) + s^2\left(-C_1C_2R_1R_2 + C_1L_5R_1g_m + C_2L_5R_2g_m + C_2L_5 - C_5L_5\right) + s\left(-C_1R_1 - C_2R_2 + L_5g_m\right) - 1}{2g_m + s^4\left(2C_1C_2C_5L_5R_1R_2g_m + 4C_1C_2C_5L_5R_1 + C_1C_2C_5L_5R_2\right) + s^3\left(C_1C_2L_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5 + 2C_2C_5L_5R_2g_m + 4C_2C_5L_5\right) + s^2\left(2C_1C_2R_1R_2g_m + 4C_1C_2R_1 + C_1C_2R_2 + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1C_2R_2g_m + 4C_2C_5L_5\right) + s^2\left(2C_1C_2R_1R_2g_m + 4C_1C_2R_1 + C_1C_2R_2 + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1C_2R_2g_m + 4C_2C_5L_5\right) + s\left(2C_1C_2R_1R_2g_m + 4C_1C_2R_2 + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1C_2R_2 + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + 2C_1R_2g_m + 2C_1C_2R_2g_m\right) + s\left(2C_1R_1g_m + 2C_1R_2g_m + 2C_1C_2R_2g_m\right) + s\left(2C_1R_1g_m + 2C_1R_2g_m + 2C_1R_2g_m\right) + s\left(2C_1R_1g_m$

10.313 INVALID-ORDER-313 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_5 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_5 R_1 R_2 g_m + C_1 C_2 C_5 R_1 R_2 F_2 g_m - C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_2 g_m + C_2 C_5 L_5 \right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 R_2 g_m - C_1 C_5 R_1 R_2 g_m - C_2 C_5 R_2 + C_2 C_$

10.314 INVALID-ORDER-314 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_5R_1R_2R_5s^4 - R_5 + s^3\left(C_1C_2L_5R_1R_2R_5g_m - C_1C_2L_5R_1R_2 + C_1C_2L_5R_1R_5 - C_2C_5L_5R_2R_5\right) + s^2\left(-C_1C_2R_1R_2R_5 + C_1L_5R_1R_5g_m - C_1L_5R_1 + C_2L_5R_2R_5g_m - C_2L_5R_2R_5\right)}{2R_5g_m + s^4\left(2C_1C_2C_5L_5R_1R_2R_5g_m + 4C_1C_2L_5R_1R_2g_m + 4C_1C_2L_5R_1 + C_1C_2L_5R_2 + C_1C_2L_5R_2 + C_1C_2L_5R_3 + C_1C_2L_5R_3 + C_1C_2L_5R_3\right) + s^2\left(2C_1C_2R_1R_2R_5g_m - C_1L_5R_1R_2g_m - C_1L_$

10.315 INVALID-ORDER-315 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_2 C_5 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 g_m + C_1 C_2 L_5 R_1 R_2 g_m + C_1 C_2 L_5 R_1 R_2 g_m - C_1 C$

10.316 INVALID-ORDER-316 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_2 C_5 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 G_m - C_1 C_5 L_5 R_1 R_2 G_m - C_1 C_5 L_5 R_1 R_2 G_m - C_1 C_2 C_5 L_5 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 G_m - C_1 C_2 C_5 L_5 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 G_m - C_1 C_2 C_5 L_5 R_2 G_m - C_1 C_2 C_5 L_5 R_2$

10.317 INVALID-ORDER-317 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$ $H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_2 L_2 R_1 R_5 g_m - C_1 C_2 L_2 R_1\right) + s^2 \left(C_1 C_2 R_1 R_5 + C_2 L_2 R_5 g_m - C_2 L_2\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_2 R_5\right) - 1}{2 g_m + s^3 \left(2 C_1 C_2 L_2 R_1 g_m + C_1 C_2 L_2\right) + s^2 \left(4 C_1 C_2 R_1 + C_1 C_2 R_5 + 2 C_2 L_2 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 4 C_2\right)}$ **10.318** INVALID-ORDER-318 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{-C_1C_2C_5L_2R_1s^4 + g_m + s^3\left(C_1C_2L_2R_1g_m - C_2C_5L_2\right) + s^2\left(C_1C_2R_1 - C_1C_5R_1 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2 - C_5\right)}{2C_5g_m + s^4\left(2C_1C_2C_5L_2R_1g_m + C_1C_2C_5L_2\right) + s^3\left(4C_1C_2C_5R_1 + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 4C_2C_5\right)}$ 10.319 INVALID-ORDER-319 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $H(s) = \frac{-C_1C_2C_5L_2R_1R_5s^4 + R_5g_m + s^3\left(C_1C_2L_2R_1R_5g_m - C_1C_2L_2R_1 - C_2C_5L_2R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_2L_2R_5g_m - C_2L_2\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_5 - C_5R_5\right) - 1}{2g_m + s^4\left(2C_1C_2C_5L_2R_1R_5g_m + C_1C_2C_5L_2R_5\right) + s^3\left(4C_1C_2C_5R_1R_5 + 2C_1C_2L_2R_1g_m + C_1C_2L_2 + 2C_2C_5L_2R_5g_m\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5 + 4C_2C_5R_5 + 2C_2L_2g_m\right) + s\left(2C_1R_1g_m + C_1 + 4C_2 + 2C_5R_5g_m\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5 + 4C_2C_5R_5 + 2C_2L_2g_m\right) + s\left(2C_1R_1g_m + C_1C_2C_5R_1R_5 + 2C_2C_5R_5g_m\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5 + 4C_2C_5R_5 + 2C_2L_2g_m\right) + s\left(2C_1R_1g_m + C_1C_2C_5R_1R_5 + 2C_2C_5R_5g_m\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_5g_m + C_1C_5R_5 + 4C_2C_5R_5 + 2C_2L_2g_m\right) + s\left(2C_1R_1g_m + C_1C_2C_5R_5 + 2C_2C_5R_5g_m\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_5g_m\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_5g_m\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_3R_5g_m\right) + s^2\left(4C_1C_2R_1 + 2C_1C_2R_5 + 2C_1C_5R_5g_m\right) + s^2\left(4C_1C_2R_5 + 2C$ 10.320 INVALID-ORDER-320 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_5 L_2 R_1 R_5 g_m - C_1 C_2 C_5 L_2 R_1 \right) + s^3 \left(C_1 C_2 C_5 R_1 R_5 + C_1 C_2 L_2 R_1 g_m + C_2 C_5 L_2 R_5 g_m - C_2 C_5 L_2 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_2 C_5 R_5 + C_2 L_2 g_m \right) + s \left(C_1 R_1 g_m + C_2 + C_5 R_5 g_m - C_5 C_5 R_5 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_2 C_5 R_5 + C_2 L_2 g_m \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 R_5 g_$ 10.321 INVALID-ORDER-321 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{C_1C_2C_5L_2L_5R_1g_ms^5 + g_m + s^4\left(-C_1C_2C_5L_2R_1 + C_1C_2C_5L_2R_1 + C_2C_5L_2L_5g_m\right) + s^3\left(C_1C_2L_2R_1g_m + C_1C_5L_5R_1g_m - C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 - C_1C_5R_1 + C_2L_2g_m + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_2C_5L_2\right)}{2C_5g_ms + s^4\left(2C_1C_2C_5L_2R_1g_m + C_1C_2C_5L_2 + C_1C_2C_5L_5\right) + s^3\left(4C_1C_2C_5R_1 + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 4C_2C_5\right)}$ 10.322 INVALID-ORDER-322 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

10.323 INVALID-ORDER-323 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_2L_5R_1g_ms^5 + g_m + s^4\left(C_1C_2C_5L_2R_1R_5g_m - C_1C_2C_5L_2R_1 + C_1C_2C_5L_2R_1 + C_1C_2C_5L_2R_1 + C_1C_2C_5L_2R_1g_m + C_1C_5L_2R_1g_m + C_1C_5L_2R_1g_m + C_1C_5L_2R_1g_m + C_2C_5L_2 + C_2C_5L_2\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_2C_5R_5 + C_2L_2g_m + C_1C_5R_1R_5g_m - C$

10.324 INVALID-ORDER-324 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_2L_5R_1R_5s^5 - R_5 + s^4\left(C_1C_2L_2L_5R_1R_5g_m - C_1C_2L_2L_5R_1 - C_2C_5L_2L_5R_5\right) + s^3\left(-C_1C_2L_2R_1R_5 + C_1C_2L_5R_1R_5 - C_1C_5L_5R_1R_5 + C_2L_2L_5R_5g_m - C_2L_2L_5\right) + s^2\left(C_1L_5R_1R_5g_m - C_1L_5R_1R_5g_m - C$

10.325 INVALID-ORDER-325 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_5g_m + s^5\left(C_1C_2C_5L_2L_5R_1R_5g_m - C_1C_2C_5L_2L_5R_1\right) + s^4\left(C_1C_2C_5L_5R_1R_5 + C_1C_2L_2L_5R_1g_m + C_2C_5L_2L_5\right) + s^3\left(C_1C_2L_2R_1R_5g_m - C_1C_2L_5R_1 + C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1 + C_2C_5L_5R_5 + C_2L_2L_5g_m\right) + s^2\left(C_1C_2R_1R_5 + C_2C_5L_5R_1R_5g_m - C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1R_$

10.326 INVALID-ORDER-326 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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

 $\begin{aligned} \textbf{10.327} \quad \textbf{INVALID-ORDER-327} \ Z(s) &= \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5, \ \infty \right) \\ & H(s) &= \frac{R_5 g_m + s^3 \left(C_1 C_2 L_2 R_1 R_5 g_m - C_1 C_2 L_2 R_1 \right) + s^2 \left(C_1 C_2 R_1 R_2 R_5 g_m - C_1 C_2 R_1 R_2 + C_1 C_2 R_1 R_5 + C_2 L_2 R_5 g_m - C_2 L_2 \right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_2 R_2 R_5 g_m - C_2 R_2 + C_2 R_5 \right) - 1}{2 g_m + s^3 \left(2 C_1 C_2 L_2 R_1 g_m + C_1 C_2 L_2 \right) + s^2 \left(2 C_1 C_2 R_1 R_2 g_m + 4 C_1 C_2 R_1 + C_1 C_2 R_2 + C_1 C_2 R_5 + 2 C_2 L_2 g_m \right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_2 R_2 g_m + 4 C_2 R_3 \right) - 1} \end{aligned}$

10.328 INVALID-ORDER-328 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_2R_1s^4 + g_m + s^3\left(-C_1C_2C_5R_1R_2 + C_1C_2L_2R_1g_m - C_2C_5L_2\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 - C_1C_5R_1 - C_2C_5R_2 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2 - C_5\right)}{2C_5g_ms + s^4\left(2C_1C_2C_5L_2R_1g_m + C_1C_2C_5L_2\right) + s^3\left(2C_1C_2C_5R_1R_2g_m + 4C_1C_2C_5R_1 + C_1C_2C_5R_2 + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 2C_2C_5R_2g_m + 4C_2C_5\right)}$

10.329 INVALID-ORDER-329 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_2R_1R_5s^4 + R_5g_m + s^3\left(-C_1C_2C_5R_1R_2R_5 + C_1C_2L_2R_1R_5g_m - C_1C_2L_2R_1 - C_2C_5L_2R_5\right) + s^2\left(C_1C_2R_1R_2R_5g_m - C_1C_2R_1R_5 - C_1C_5R_1R_5 - C_2C_5R_2R_5 + C_2L_2R_5g_m - C_2L_2\right) + s\left(C_1R_1R_5g_m - C_1R_1R_5g_m - C_1R_1$

10.330 INVALID-ORDER-330 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_5 L_2 R_1 R_5 g_m - C_1 C_2 C_5 L_2 R_1 \right) + s^3 \left(C_1 C_2 C_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_5 + C_1 C_2 L_2 R_1 g_m + C_2 C_5 L_2 R_5 g_m - C_2 C_5 L_2 \right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 R_5 g_m - C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 R_5 g_m - C_2 C_5 R_2 R_5 g_m - C_2 C_5 R_5 g_m - C_2 C_5$

10.331 INVALID-ORDER-331 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_2L_5R_1g_ms^5 + g_m + s^4\left(-C_1C_2C_5L_2R_1 + C_1C_2C_5L_2R_1 + C_1C_2C_5L_5R_1R_2g_m + C_1C_2L_5g_m\right) + s^3\left(-C_1C_2C_5R_1R_2 + C_1C_2L_2R_1g_m + C_1C_5L_5R_1g_m - C_2C_5L_2 + C_2C_5L_5R_2g_m + C_2C_5L_5\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 - C_1C_5R_1 - C_2C_5R_2 + C_2C$

10.332 INVALID-ORDER-332 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_2L_5R_1s^5 + s^4\left(-C_1C_2C_5L_5R_1R_2 + C_1C_2L_5R_1g_m - C_2C_5L_2L_5\right) + s^3\left(-C_1C_2L_2R_1 + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1 - C_2C_5L_5R_2 + C_2L_2L_5g_m\right) + s^2\left(-C_1C_2R_1R_2 + C_1L_5R_1g_m - C_2L_2 + C_2L_5R_2g_m + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1g_m +$

10.333 INVALID-ORDER-333 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_2L_5R_1g_ms^5 + g_m + s^4\left(C_1C_2C_5L_2R_1R_5g_m - C_1C_2C_5L_2R_1 + C_1C_2C_5L_5R_1R_2g_m + C_1C_2C_5L_5R_1 + C_2C_5L_2R_1g_m + C_1C_2C_5R_1R_2 + C_1C_2C_5R_1 + C_1C_2C_5R_1 + C_1C_2C_5R_1 + C_1C_2C_5R_1 + C_1C_2C_5R_1 + C_$

10.334 INVALID-ORDER-334 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_2L_5R_1R_5s^5 - R_5 + s^4\left(-C_1C_2C_5L_5R_1R_2R_5 + C_1C_2L_2L_5R_1R_5g_m - C_1C_2L_2L_5R_1 + s^3\left(-C_1C_2L_2R_1R_5 + C_1C_2L_5R_1R_2R_5g_m - C_1C_2L_5R_1R_2 + C_1C_2L_5$

10.335 INVALID-ORDER-335 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m - C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_3 g_m - C_2 C_5 L_2 L_5 \right) \\ + s^4 \left(C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 g_m + C_1 C_2 L_5 R_1$

10.336 INVALID-ORDER-336 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$

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10.337 INVALID-ORDER-337 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                  H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_1 C_2 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 R_5\right) + s^2 \left(C_1 L_2 R_1 R_5 g_m - C_1 L_2 R_1 + C_2 L_2 R_5 g_m - C_2 L_2 R_2 + C_2 L_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_1 R_1 R_2 + C_1 R_1 R_5 + L_2 R_5 g_m - L_2\right)}{2 R_2 g_m + s^3 \left(2 C_1 C_2 L_2 R_1 R_2 g_m + 4 C_1 C_2 L_2 R_1 + C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_5\right) + s^2 \left(2 C_1 L_2 R_1 g_m + C_1 L_2 + 2 C_2 L_2 R_2 g_m + 4 C_2 L_2\right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_1 R_1 + C_1 R_2 + C_1 R_5 + L_2 R_5 g_m - L_2\right)}{4 R_1 R_2 R_2 g_m + 4 C_1 R_2 R
10.338 INVALID-ORDER-338 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{1}{C_{5s}}, \infty\right)
                                                                                                                    H(s) = \frac{-C_1C_2C_5L_2R_1R_2s^4 + R_2g_m + s^3\left(C_1C_2L_2R_1R_2g_m + C_1C_2L_2R_1 - C_1C_5L_2R_1 - C_2C_5L_2R_2\right) + s^2\left(-C_1C_5R_1R_2 + C_1L_2R_1g_m + C_2L_2R_2g_m + C_2L_2 - C_5L_2\right) + s\left(C_1R_1R_2g_m + C_1R_1 - C_5R_2 + L_2g_m\right) + 1}{s^4\left(2C_1C_2C_5L_2R_1R_2g_m + 4C_1C_2C_5L_2R_1 + C_1C_2C_5L_2R_2\right) + s^3\left(C_1C_2L_2 + 2C_1C_5L_2R_1g_m + C_1C_5L_2 + 2C_2C_5L_2R_2g_m + 4C_2C_5L_2\right) + s^2\left(2C_1C_5R_1R_2g_m + 4C_1C_5R_1 + C_1C_5R_2 + 2C_5L_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_1 - C_5R_2 + L_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_1 - C_5R_2 + L_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_1 - C_2R_2g_m + C_1R_1 - C_2R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_1 - C_2R_2g_m + C_2R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_1 - C_2R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_1 - C_2R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_2g_m + 
10.339 INVALID-ORDER-339 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                      -C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}R_{5}s^{4} + R_{2}R_{5}g_{m} - R_{2} + R_{5} + s^{3}\left(C_{1}C_{2}L_{2}R_{1}R_{2} + C_{1}C_{2}L_{2}R_{1}R_{5} - C_{1}C_{5}L_{2}R_{1}R_{5} - C_{2}C_{5}L_{2}R_{2}R_{5}\right) + s^{2}\left(-C_{1}C_{5}R_{1}R_{2}R_{5} + C_{1}L_{2}R_{1}R_{5}g_{m} - C_{1}L_{2}R_{1} + C_{2}L_{2}R_{5}g_{m} - C_{1}L_{2}R_{1}R_{5}g_{m} - C_{1
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10.340 INVALID-ORDER-340 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_2 C_5 L_2 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_5 L_2 R_1 R_2 g_m - C_1 C_5 L_2 R_2 R_2 g_m - C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_3 \right) \\ + s^4 \left(2 C_1 C_2 C_5 L_2 R_1 R_2 g_m + 4 C_1 C_2 C_5 L_2 R_1 + C_1 C_2 C_5 L_2 R_2 + C_1 C_5 L_2 R_3 g_m + C_1 C_5 L_2 R_2 g_m + 4 C_1 C_5 R_1 R_2 g_m$

10.341 INVALID-ORDER-341 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 L_5 R_1 R_2 g_m + C_1 C_5 L_2 R_1 R_2 g_m + C$

10.342 INVALID-ORDER-342 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $-C_{1}C_{2}C_{5}L_{2}L_{5}R_{1}R_{2}s^{5}-R_{2}+s^{4}\left(C_{1}C_{2}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{1}C_{2}L_{2}L_{5}R_{1}-C_{1}C_{5}L_{2}L_{5}R_{1}-C_{2}C_{5}L_{2}L_{5}R_{2}\right)+s^{3}\left(-C_{1}C_{2}L_{2}R_{1}R_{2}-C_{1}C_{5}L_{5}R_{1}R_{2}+C_{1}L_{2}L_{5}R_{2}g_{m}+C_{2}L_{2}L_{5}-C_{5}L_{2}L_{5}\right)+s^{2}\left(-C_{1}L_{2}L_{2}R_{1}R_{2}-C_{1}C_{5}L_{2}L_{5}R_{1}R_{2}+C_{1}L_{2}L_{5}R_{2}g_{m}+C_{2}L_{2}L_{5}-C_{5}L_{2}L_{5}\right)+s^{2}\left(-C_{1}L_{2}L_{5}R_{1}R_{2}+C_{1}C_{2}L_{5}R_{1}R_{2}+C_{1}L_{2}L_{5}R_{2}g_{m}+C_{2}L_{2}L_{5}+C_{5}L_{2}L_{5}\right)+s^{2}\left(-C_{1}L_{2}L_{5}R_{1}R_{2}+C_{1}L_{2}L_{5}R_{1}R_{2}+C_{1}L_{2}L_{5}R_{2}+C_{1}L_{2}L_{5}R_{2}R_{2}+C_{1}L_{2}L_{5}R_{2}R_{2}+C_{1}L_{2}L_{5}R_{2}R_{2}+C_{1}L_{2}L_{5}R_{2}R_{2}+C_{1}L_{2}L_{5}R_{2$

10.343 INVALID-ORDER-343 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C$ $C_{1}C_{2}C_{5}L_{2}L_{5}s^{5} + s^{4}\left(2C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}g_{m} + 4C_{1}C_{2}C_{5}L_{2}R_{1} + C_{1}C_{2}C_{5}L_{2}R_{2} + C_{1}C_{2}C_{5}L_{2}R_{5}\right) + s^{3}\left(C_{1}C_{2}L_{2} + 2C_{1}C_{5}L_{2}R_{1}g_{m} + C_{1}C_{2}C_{5}L_{2}R_{1}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}g_{m} + 4C_{1}C_{2}C_{5}L_{2}R_{1} + C_{1}C_{2}C_{5}L_{2}R_{2} + C_{1}C_{2}C_{5}L_{2}R_{5}\right) + s^{3}\left(2C_{1}C_{2}L_{2} + 2C_{1}C_{5}L_{2}R_{1}g_{m} + C_{1}C_{2}C_{5}L_{2}R_{1}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}g_{m} + 4C_{1}C_{2}C_{5}L_{2}R_{1} + C_{1}C_{2}C_{5}L_{2}R_{2}\right) + s^{3}\left(2C_{1}C_{2}L_{2} + 2C_{1}C_{5}L_{2}R_{1}g_{m} + C_{1}C_{2}C_{5}L_{2}R_{1}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}g_{m} + 4C_{1}C_{2}C_{5}L_{2}R_{1} + C_{1}C_{2}C_{5}L_{2}R_{2}\right) + s^{3}\left(2C_{1}C_{2}L_{2} + 2C_{1}C_{5}L_{2}R_{1}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}g_{m} + 4C_{1}C_{2}C_{5}L_{2}R_{1}\right) + c^{2}\left(2C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}g_{m} + 4C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C_{5}L_{2}R_{1}R_{2}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C_{2}L_{2}R_{2}R_{2}R_{2}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C_{2}L_{2}R_{2}R_{2}R_{2}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C_{2}L_{2}R_{2}R_{2}R_{2}g_{m}\right) + c^{2}\left(2C_{1}C_{2}C$

10.344 INVALID-ORDER-344 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_2L_5R_1R_2R_5s^5 - R_2R_5 + s^4\left(C_1C_2L_2L_5R_1R_2 + C_1C_2L_2L_5R_1R_2 + C_1C_2L_2L_5R_1R_5 - C_1C_5L_2L_5R_1R_5 - C_2C_5L_2L_5R_2R_5\right) + s^3\left(C_1C_2C_5L_2L_5R_1R_2s^2 + s^4\left(C_1C_2L_2L_5R_1R_2s^2 + C_1C_2L_2L_5R_1R_2 + C_1C_2L_2L_5R_1R_5 + C_1C_5L_2L_5R_1R_5\right) + s^4\left(C_1C_2L_2L_5R_1R_2s^2 + C_1C_2L_2L_5R_1 + C_1C_2L_2L_5R_1 + C_1C_2L_2L_5R_2 + C_1C_2L_2L_5R_1 + C_1C_2L_2L_5R_2 + C_1C_2L_2L_5R_2 + C_1C_2L_2L_5R_3 +$

10.345 INVALID-ORDER-345 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^5 \left(C_1 C_2 C_5 L_2 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 L_5 R_1 R_2 g_m + C_1 C_2 L_2 L_5 R_1 + C_1 C_5 L_2 L_5 R_1 + C_1 C_5 L_2 L_5 R_1 + C_1 C_2 L_5 R_2 R_5 g_m - C_2 C_5 L_2 L_5 R_2 + C_2 C_5 L_2 L_5 R_3 + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 L_5 R_2 R_5 g_m - C_2 C_5 L_2 L_5 R_5 g_m - C_2 C_5$

10.346 INVALID-ORDER-346 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $\frac{R_2R_5g_m - R_2 + R_5 + s^5\left(C_1C_2C_5L_2L_5R_1R_2R_5g_m - C_1C_2C_5L_2L_5R_1R_2 + C_1C_2C_5L_2L_5R_1R_5g_m - C_1C_5L_2L_5R_1R_5g_m - C_1C_5L_2L_5R_1 + C_2C_5L_2L_5R_2 +$

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 \begin{aligned} \textbf{10.347} \quad \textbf{INVALID-ORDER-347} \ Z(s) &= \left( R_1 + \frac{1}{C_1 s}, \ \frac{R_2 \left( C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ R_5, \ \infty \right) \\ H(s) &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_1 C_2 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 R_5 \right) + s^2 \left( C_1 C_2 R_1 R_2 R_5 + C_2 L_2 R_2 R_5 g_m - C_2 L_2 R_2 + C_2 L_2 R_5 \right) + s \left( C_1 R_1 R_2 R_5 g_m - C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_1 C_2 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 R_5 \right) + s^2 \left( C_1 C_2 R_1 R_2 R_5 - C_2 L_2 R_2 R_5 g_m - C_2 L_2 R_2 + C_2 L_2 R_5 \right) + s \left( C_1 R_1 R_2 R_5 g_m - C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_1 C_2 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 R_2 \right) + s^2 \left( C_1 C_2 R_1 R_2 R_5 g_m - C_2 L_2 R_2 R_5 g_m - C_2 L_2 R_2 \right) + s \left( C_1 R_1 R_2 R_5 g_m - C_1 R_1 R_2 + C_1 R_2 R_5 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_1 C_2 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 R_2 \right) + s^2 \left( C_1 C_2 R_1 R_2 R_5 + C_2 L_2 R_2 R_5 g_m - C_2 L_2 R_2 + C_2 L_2 R_5 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_1 C_2 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 R_2 \right) + s^2 \left( C_1 C_2 R_1 R_2 R_5 + C_2 L_2 R_2 R_5 + C_2 L_2 R_2 R_5 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_1 C_2 L_2 R_1 R_2 \right) + s^2 \left( C_1 R_1 R_2 R_5 g_m - C_2 L_2 R_2 R_5 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 C_2 L_2 R_1 R_2 R_5 g_m - C_1 C_2 L_2 R_1 R_2 \right) + s^2 \left( C_1 R_2 R_2 R_5 + C_1 C_2 R_2 R_5 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 C_2 L_2 R_1 R_2 R_5 + C_1 C_2 L_2 R_2 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 R_2 R_2 R_5 + C_1 C_2 L_2 R_2 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 R_2 R_2 R_5 + C_1 C_2 L_2 R_2 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 R_2 R_2 R_5 + C_1 C_2 L_2 R_2 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 R_2 R_5 R_5 + C_1 R_2 R_5 \right) \\ &= \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left( C_1 R_2 R_5
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$$\textbf{10.348} \quad \textbf{INVALID-ORDER-348} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty \right) \\ H(s) = \frac{-C_1 C_2 C_5 L_2 R_1 R_2 s^4 + R_2 g_m + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 - C_2 C_5 L_2 R_2 \right) + s^2 \left(C_1 C_2 R_1 R_2 - C_1 C_5 R_1 R_2 + C_2 L_2 R_2 g_m + C_2 L_2 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_2 R_2 - C_5 R_2 \right) + 1}{s^4 \left(2 C_1 C_2 C_5 L_2 R_1 R_2 g_m + 4 C_1 C_2 C_5 L_2 R_2 \right) + s^3 \left(4 C_1 C_2 C_5 R_1 R_2 + C_1 C_2 L_2 + 2 C_2 C_5 L_2 R_2 g_m + 4 C_2 C_5 L_2 \right) + s^2 \left(C_1 C_2 R_2 + 2 C_1 C_5 R_1 R_2 g_m + 4 C_1 C_5 R_1 + C_1 C_5 R_2 + 4 C_2 C_5 R_2 \right) + s \left(C_1 C_2 R_1 R_2 g_m + 4 C_1 C_5 R_1 R_2 g_m + 4 C_1 C_5$$

10.349 INVALID-ORDER-349
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_2R_1R_2R_5s^4 + R_2R_5g_m - R_2 + R_5 + s^3\left(C_1C_2L_2R_1R_2R_5g_m - C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_5 - C_2C_5L_2R_2R_5\right) + s^2\left(C_1C_2R_1R_2R_5 - C_1C_5R_1R_2R_5 + C_2L_2R_2R_5g_m - C_2L_2R_2 + C_2R_2R_5g_m - C_2L_2R_2R_5g_m + s^4\left(2C_1C_2C_5L_2R_1R_2R_5g_m + 4C_1C_2L_2R_1 + C_1C_2L_2R_2 + C_1C_2L_2R_2 + C_1C_2L_2R_5 + 2C_2C_5L_2R_5g_m + 4C_1C_2L_2R_5 + 2C_2C_5L_2R_5g_m + 4C_1C_2L_2R_5 + 2C_1C_2R_2R_5g_m + 4C_1C_2R_2R_5 + 2C_1C_2R_2R_5g_m + 4C_1C_2R_2R_5g_m +$

10.350 INVALID-ORDER-350
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_2 C_5 L_2 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 R_2 g_m - C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_3 + C_1 C_2 R_1 R_2 + C_1 C_5 R_1 R_2 + C$

10.351 INVALID-ORDER-351
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_5 L_2 R$

10.352 INVALID-ORDER-352
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_2L_5R_1R_2s^5 - R_2 + s^4\left(C_1C_2L_2L_5R_1R_2g_m + C_1C_2L_2L_5R_1 - C_2C_5L_2L_5R_1R_2 + C_1C_2L_5R_1R_2 + C_1C_2L_5R_1R_2 + C_2L_2L_5R_2g_m + C_2L_2L_5\right) + s^2\left(C_1L_5R_1R_2g_m + C_2L_2L_5R_1R_2 - C_1C_5L_5R_1R_2 + C_2L_2L_5R_2g_m + C_2L_2L_5\right) + s^2\left(C_1L_5R_1R_2g_m + C_2L_2L_5R_1R_2g_m + C_2L_2L_5R_1R_2g_m + C_2L_2L_5\right) + s^2\left(C_1L_5R_1R_2g_m + C_2L_2L_5R_1R_2g_m + C_2L_2L_5\right) + s^2\left(C_1L_5R_1R_2g_m + C_2L_2L_5R_1R_2g_m + C_2L_2L_5R_1R_2g_m + C_2L_2L_5\right) + s^2\left(C_1L_5R_1R_2g_m + C_2L_2R_2g_m + C_2L_2L_5\right) + s^2\left(C_1L_5R_1R_2g_m + C_2L_2R_2g_m + C_2L_2R_2g_m\right) + s^2\left(C_1L_5R_1R_2g_m + C_2L_2R_2g_m + C_2L_2R_2g$

10.353 INVALID-ORDER-353
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 R_1 R_2 G_m + C_1 C_2 C_5 L_2$

10.354 INVALID-ORDER-354
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_2L_5R_1R_2R_5s^5 - R_2R_5 + s^4\left(C_1C_2L_2L_5R_1R_2R_5g_m - C_1C_2L_2L_5R_1R_2 + C_1C_2L_2L_5R_1R_5 - C_2C_5L_2L_5R_2R_5\right)}{2R_2R_5g_m + 4R_5 + s^5\left(2C_1C_2C_5L_2L_5R_1R_2R_5g_m + 4C_1C_2L_2L_5R_1R_2R_5 + 2C_1C_2L_2L_5R_1 + C_1C_2L_2L_5R_2 +$

10.355 INVALID-ORDER-355
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^5 \left(C_1 C_2 C_5 L_2 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_2 L_5 R_1 R_2 R_5 + C_1 C_2 L_5 R_1 R_2 R_5 + C_1 C_2 L_5 R_1 R_2 g_m + C_1$

10.356 INVALID-ORDER-356 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_2R_5g_m - R_2 + R_5 + s^5\left(C_1C_2C_5L_2L_5R_1R_2R_5g_m - C_1C_2C_5L_2L_5R_1R_2 + C_1C_2C_5L_2L_5R_1R_2R_5 + C_1C_2C_5L_2R_1R_2R_5 + C_2C_5L_2L_5R_2R_5g_m - C_2C_5L_2L_5R_2 + C_2C_$

10.357 INVALID-ORDER-357 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_2s^3 - C_5R_2s + R_2g_m + s^2\left(C_1L_1R_2g_m + C_1L_1\right) + 1}{C_1C_5R_2s^2 + s^3\left(2C_1C_5L_1R_2g_m + 4C_1C_5L_1\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$$

10.358 INVALID-ORDER-358 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_2R_5s^3 - C_5R_2R_5s + R_2R_5g_m - R_2 + R_5 + s^2\left(C_1L_1R_2R_5g_m - C_1L_1R_2 + C_1L_1R_5\right)}{2R_2g_m + s^3\left(2C_1C_5L_1R_2R_5g_m + 4C_1C_5L_1R_5\right) + s^2\left(C_1C_5R_2R_5 + 2C_1L_1R_2g_m + 4C_1L_1\right) + s\left(C_1R_2 + C_1R_5 + 2C_5R_2R_5g_m + 4C_5R_5\right) + 4}$$

10.359 INVALID-ORDER-359 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_5 L_1 R_2 R_5 g_m - C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1\right) + s \left(C_5 R_2 R_5 g_m - C_5 R_2 + C_5 R_5\right) + 1}{s^3 \left(2 C_1 C_5 L_1 R_2 g_m + 4 C_1 C_5 L_1\right) + s^2 \left(C_1 C_5 R_2 + C_1 C_5 R_5\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5\right)}$$

10.360 INVALID-ORDER-360 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_2s^3 - C_5R_2s + R_2g_m + s^4\left(C_1C_5L_1L_5R_2g_m + C_1C_5L_1L_5\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_5L_5R_2g_m + C_5L_5\right) + 1}{C_1C_5R_2s^2 + s^3\left(2C_1C_5L_1R_2g_m + 4C_1C_5L_1 + C_1C_5L_5\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$$

10.361 INVALID-ORDER-361 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_2s^4 - R_2 + s^3\left(C_1L_1L_5R_2g_m + C_1L_1L_5\right) + s^2\left(-C_1L_1R_2 - C_5L_5R_2\right) + s\left(L_5R_2g_m + L_5\right)}{C_1C_5L_5R_2s^3 + C_1R_2s + 2R_2g_m + s^4\left(2C_1C_5L_1L_5R_2g_m + 4C_1C_5L_1L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 2C_1L_1R_2g_m + 2C_5L_5R_2g_m + 4C_5L_5\right) + s^2\left(2C_1L_1R_2g_m + 2C_5L_5R_2g_m +$$

10.362 INVALID-ORDER-362 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_5 L_1 L_5 R_2 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(C_1 C_5 L_1 R_2 R_5 g_m - C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_5 L_5 R_2 g_m + C_5 L_5\right) + s \left(C_5 R_2 R_5 g_m - C_5 R_2 + C_5 R_5\right) + 1}{s^3 \left(2 C_1 C_5 L_1 R_2 g_m + 4 C_1 C_5 L_1 + C_1 C_5 L_5\right) + s^2 \left(C_1 C_5 R_2 + C_1 C_5 R_5\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5\right)}$$

10.363 INVALID-ORDER-363 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_2R_5s^4 - R_2R_5 + s^3\left(C_1L_1L_5R_2R_5g_m - C_1L_1L_5R_2 + C_1L_1L_5R_5\right) + s^2\left(-C_1L_1R_2R_5 - C_5L_5R_2R_5\right) + s\left(L_5R_2R_5g_m - L_5R_2 + L_5R_5\right)}{2R_2R_5g_m + 4R_5 + s^4\left(2C_1C_5L_1L_5R_2g_m + 4C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_5L_5R_2R_5 + 2C_1L_1L_5R_2g_m + 4C_1L_1L_5\right) + s^2\left(2C_1L_1R_2R_5g_m + 4C_1L_1R_5 + C_1L_5R_5 + 2C_5L_5R_2R_5g_m + 4C_5L_5R_5\right) + s\left(C_1R_2R_5 + 2C_5L_5R_2R_5 + 2C_5L_5R_2R_5 + 2C_5L_5R_2R_5\right) + s\left(C_1R_2R_5 + 2C_5L_5R_2R_5 + 2C_5L_5R_2R_5\right) + s\left(C_1R_2R_5 + 2C_5L_5R_2R_5\right) + s\left(C_1R_2R_5 + 2C_5L_5R_5\right) + s\left(C_1R_2R_5$$

10.364 INVALID-ORDER-364 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

10.366 INVALID-ORDER-366 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_1 C_2 L_1 R_5 s^3 + C_2 R_5 s + R_5 g_m + s^2 (C_1 L_1 R_5 g_m - C_1 L_1) - 1}{4 C_1 C_2 L_1 s^3 + 2 g_m + s^2 (C_1 C_2 R_5 + 2 C_1 L_1 g_m) + s (C_1 + 4 C_2)}$$

10.367 INVALID-ORDER-367 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1 L_1 g_m s^2 + g_m + s^3 \left(C_1 C_2 L_1 - C_1 C_5 L_1 \right) + s \left(C_2 - C_5 \right)}{4 C_1 C_2 C_5 L_1 s^4 + 2 C_1 C_5 L_1 g_m s^3 + 2 C_5 g_m s + s^2 \left(C_1 C_2 + C_1 C_5 + 4 C_2 C_5 \right)}$$

10.368 INVALID-ORDER-368 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_2 L_1 R_5 - C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1\right) + s \left(C_2 R_5 - C_5 R_5\right) - 1}{4 C_1 C_2 C_5 L_1 R_5 s^4 + 2 g_m + s^3 \left(4 C_1 C_2 L_1 + 2 C_1 C_5 L_1 R_5 g_m\right) + s^2 \left(C_1 C_2 R_5 + C_1 C_5 R_5 + 2 C_1 L_1 g_m + 4 C_2 C_5 R_5\right) + s \left(C_1 + 4 C_2 + 2 C_5 R_5 g_m\right)}$$

10.369 INVALID-ORDER-369 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1R_5s^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_5L_1R_5g_m - C_1C_5L_1\right) + s^2\left(C_1L_1g_m + C_2C_5R_5\right) + s\left(C_2 + C_5R_5g_m - C_5\right)}{4C_1C_2C_5L_1s^4 + 2C_5g_ms + s^3\left(C_1C_2C_5R_5 + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}$$

10.370 INVALID-ORDER-370 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5s^5 + C_1C_5L_1L_5g_ms^4 + g_m + s^3\left(C_1C_2L_1 - C_1C_5L_1 + C_2C_5L_5\right) + s^2\left(C_1L_1g_m + C_5L_5g_m\right) + s\left(C_2 - C_5\right)}{2C_1C_5L_1g_ms^3 + 2C_5g_ms + s^4\left(4C_1C_2C_5L_1 + C_1C_2C_5L_5\right) + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}$$

10.371 INVALID-ORDER-371 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{C_1L_1L_5g_ms^3 + L_5g_ms + s^4\left(C_1C_2L_1L_5 - C_1C_5L_1L_5\right) + s^2\left(-C_1L_1 + C_2L_5 - C_5L_5\right) - 1}{4C_1C_2C_5L_1L_5s^5 + 2C_1C_5L_1L_5g_ms^4 + 2g_m + s^3\left(4C_1C_2L_1 + C_1C_2L_5 + C_1C_5L_5 + 4C_2C_5L_5\right) + s^2\left(2C_1L_1g_m + 2C_5L_5g_m\right) + s\left(C_1 + 4C_2\right)}$$

10.372 INVALID-ORDER-372 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5s^5 + g_m + s^4\left(C_1C_2C_5L_1R_5 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_2L_1 + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_2C_5L_5\right) + s^2\left(C_1L_1g_m + C_2C_5R_5 + C_5L_5g_m\right) + s\left(C_2 + C_5R_5g_m - C_5\right)}{2C_5g_ms + s^4\left(4C_1C_2C_5L_1 + C_1C_2C_5L_5\right) + s^3\left(C_1C_2C_5R_5 + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}$$

10.373 INVALID-ORDER-373 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

10.374 INVALID-ORDER-374 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

10.376 INVALID-ORDER-376 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_1C_2L_1R_2R_5s^3 + C_2R_2R_5s + R_2R_5g_m - R_2 + R_5 + s^2\left(C_1L_1R_2R_5g_m - C_1L_1R_2 + C_1L_1R_5\right)}{4C_1C_2L_1R_2s^3 + 2R_2g_m + s^2\left(C_1C_2R_2R_5 + 2C_1L_1R_2g_m + 4C_1L_1\right) + s\left(C_1R_2 + C_1R_5 + 4C_2R_2\right) + 4C_1C_2R_3R_5 + C_2R_3R_5 + C_2R_3R_5 + C_3R_3R_5 + C_3R_5 +$$

10.377 INVALID-ORDER-377 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_2 L_1 R_2 - C_1 C_5 L_1 R_2 \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_2 R_2 - C_5 R_2 \right) + 1}{4 C_1 C_2 C_5 L_1 R_2 s^4 + s^3 \left(2 C_1 C_5 L_1 R_2 g_m + 4 C_1 C_5 L_1 \right) + s^2 \left(C_1 C_2 R_2 + C_1 C_5 R_2 + 4 C_2 C_5 R_2 \right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 \right)}$$

10.378 INVALID-ORDER-378 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_2R_5g_m - R_2 + R_5 + s^3\left(C_1C_2L_1R_2R_5 - C_1C_5L_1R_2R_5\right) + s^2\left(C_1L_1R_2R_5g_m - C_1L_1R_2 + C_1L_1R_5\right) + s\left(C_2R_2R_5 - C_5R_2R_5\right)}{4C_1C_2C_5L_1R_2R_5s^4 + 2R_2g_m + s^3\left(4C_1C_2L_1R_2 + 2C_1C_5L_1R_2R_5g_m + 4C_1C_5L_1R_5\right) + s^2\left(C_1C_2R_2R_5 + C_1C_5R_2R_5 + 2C_1L_1R_2g_m + 4C_1L_1 + 4C_2C_5R_2R_5\right) + s\left(C_1R_2 + C_1R_5 + 4C_2R_2 + 2C_5R_2R_5g_m + 4C_5R_5\right) + s\left(C_1R_2 + C_1R_5 + 4C_2R_5 + 2C_1R_5 + 4C_2R_5 + 2C_3R_5\right) + s\left(C_1R_2 + C_1R_5 + 4C_2R_5 + 2C_3R_5\right) + s\left(C_1R_2 + C_1R_5 + 4C_2R_5 + 2C_3R_5\right) + s\left(C_1R_2 + C_1R_5 + 2C_3R_5\right) + s\left(C_1R_2 + C_1R_5\right) + s\left(C_1R_3 + C_1R_5\right) + s\left($$

10.379 INVALID-ORDER-379 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1R_2R_5s^4 + R_2g_m + s^3\left(C_1C_2L_1R_2 + C_1C_5L_1R_2R_5g_m - C_1C_5L_1R_2 + C_1C_5L_1R_5\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2C_5R_2R_5\right) + s\left(C_2R_2 + C_5R_2R_5g_m - C_5R_2 + C_5R_5\right) + 1}{4C_1C_2C_5L_1R_2s^4 + s^3\left(C_1C_2C_5R_2R_5 + 2C_1C_5L_1R_2g_m + 4C_1C_5L_1\right) + s^2\left(C_1C_2R_2 + C_1C_5R_2 + C_1C_5R_5 + 4C_2C_5R_2\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}$$

10.380 INVALID-ORDER-380 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5R_2s^5 + R_2g_m + s^4\left(C_1C_5L_1L_5R_2g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_2L_1R_2 - C_1C_5L_1R_2 + C_2C_5L_5R_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_5L_5R_2g_m + C_5L_5\right) + s\left(C_2R_2 - C_5R_2\right) + 1}{s^4\left(4C_1C_2C_5L_1R_2 + C_1C_2C_5L_5R_2\right) + s^3\left(2C_1C_5L_1R_2g_m + 4C_1C_5L_1 + C_1C_5L_5\right) + s^2\left(C_1C_2R_2 + C_1C_5R_2 + 4C_2C_5R_2\right) + s\left(C_1+2C_5R_2g_m + 4C_5\right)}$$

10.381 INVALID-ORDER-381 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

10.382 INVALID-ORDER-382 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5R_2s^5 + R_2g_m + s^4\left(C_1C_2C_5L_1R_2R_5 + C_1C_5L_1L_5R_2g_m + C_1C_5L_1R_2 + C_1C_$$

10.383 INVALID-ORDER-383 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-R_2R_5 + s^4 \left(C_1C_2L_1L_5R_2R_5 - C_1C_5L_1L_5R_2R_5\right) + s^3 \left(C_1L_1L_5R_2R_5g_m - C_1L_1L_5R_2 + C_1L_1L_5R_5\right) + s^2 \left(-C_1L_1R_2R_5 + C_2L_5R_2R_5 - C_5L_5R_2R_5\right) + s \left(L_5R_2R_5g_m - L_5R_2 + R_5R_5g_m - L_5R_2 + R_5R_5g_m - L_5R_2R_5\right) + s^2 \left(2C_1L_1R_2R_5 + C_2L_5R_2R_5 - C_5L_5R_2R_5\right) + s^2 \left(2C_1L_1R_2R_5 + C_1L_5R_2R_5g_m + 4C_1L_5R_2R_5 + C_1C_5L_5R_2R_5 + C_1C_5L_5R_2R_5 + C_1C_5L_5R_2R_5 + C_1C_5L_5R_2R_5\right) + s^2 \left(2C_1L_1R_2R_5 + C_1L_5R_2R_5 - C_5L_5R_2R_5\right) + s^2 \left(2C_1L_1R_2R_5 + C_1L_5R_2R_5 - C_5L_5R_2R_5\right) + s^2 \left(2C_1L_1R_2R_5 - C_5L_5R_2R_5\right) + s^2 \left(2C_1L_1$$

10.384 INVALID-ORDER-384 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5R_2R_5s^5 + R_2R_5g_m - R_2 + R_5 + s^4\left(C_1C_2L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1L_1L_5R_2g_m + C_1L_1L_5 + C_2C_5L_5R_2R_5\right) + s^2\left(C_1L_1R_2R_5g_m - C_1L_1R_2 + C_1L_1R_5 + C_2L_5R_2 + C_5L_5R_2 + C_5L_5R_2$$

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10.385 INVALID-ORDER-385 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{C_1C_2C_5L_1L_5R_2S^5 + R_2R_5g_m - R_2 + R_5 + s^4\left(C_1C_5L_1L_5R_2Sg_m - C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1R_2R_5 - C_1C_5L_1R_2R_5 + C_2C_5L_5R_2R_5\right) + s^2\left(C_1L_1R_2R_5g_m - C_1L_1R_2 + C_1L_1R_5 + C_5L_5R_2R_5 + C_1C_5L_1R_2R_5 - C_1C_5L_1R_2R_5 + C_1C_5
10.386 INVALID-ORDER-386 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                                                                                                   H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_2 L_1 R_2 R_5 g_m - C_1 C_2 L_1 R_2 + C_1 C_2 L_1 R_5\right) + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1\right) + s \left(C_2 R_2 R_5 g_m - C_2 R_2 + C_2 R_5\right) - 1}{2 g_m + s^3 \left(2 C_1 C_2 L_1 R_2 g_m + 4 C_1 C_2 L_1\right) + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_5 + 2 C_1 L_1 g_m\right) + s \left(C_1 + 2 C_2 R_2 q_m + 4 C_2\right)}
10.387 INVALID-ORDER-387 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                          H(s) = \frac{-C_1C_2C_5L_1R_2s^4 + g_m + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 - C_1C_5L_1\right) + s^2\left(C_1L_1g_m - C_2C_5R_2\right) + s\left(C_2R_2g_m + C_2 - C_5\right)}{2C_5g_ms + s^4\left(2C_1C_2C_5L_1R_2g_m + 4C_1C_2C_5L_1\right) + s^3\left(C_1C_2C_5R_2 + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 2C_2C_5R_2g_m + 4C_2C_5\right)}
10.388 INVALID-ORDER-388 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                 H(s) = \frac{-C_1C_2C_5L_1R_2R_5s^4 + R_5g_m + s^3\left(C_1C_2L_1R_2R_5g_m - C_1C_2L_1R_2 + C_1C_2L_1R_5 - C_1C_5L_1R_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 - C_2C_5R_2R_5\right) + s\left(C_2R_2R_5g_m - C_2R_2 + C_2R_5 - C_5R_5\right) - 1}{2g_m + s^4\left(2C_1C_2C_5L_1R_5g_m + 4C_1C_2C_5L_1R_5\right) + s^3\left(C_1C_2C_5R_2R_5 + 2C_1C_2L_1R_2g_m + 4C_1C_2L_1 + 2C_1C_5L_1R_5g_m\right) + s^2\left(C_1C_2R_2 + C_1C_2R_5 + C_1C_5R_5 + 2C_1L_1g_m + 2C_2C_5R_2R_5g_m + 4C_2C_5R_5\right) + s\left(C_1C_2R_2R_5g_m + 4C_2C_5R_5\right) + s\left(C_1C_2R_2R_5g_m - C_2R_2R_5g_m - C_2R_2R_5g_m + 4C_2C_5R_5\right) + s\left(C_1C_2R_2R_5g_m - C_2R_2R_5g_m - C_2R_2R_5g_m + 4C_2C_5R_5\right) + s\left(C_1C_2R_2R_5g_m + 4C_2C_5R_5g_m + 4C_2C_5R_5\right) + s\left(C_1R_2R_5g_m + 4C_2C_5R_5g_m + 4C_2C_5R_5\right) + s\left(C_1R_2R_5g_m + 4C_2C_5R_5g_m + 4C_2C_5R_5g_m + 4C_2C_5R_5\right) + s\left(C_1R_2R_5g_m + 4C_2C_5R_5g_m + 4C_2C_5R_5g_m + 4C_2C_5R_5\right) + s\left(C_1R_2R_5g_m + 4C_2C_5R_5g_m 
10.389 INVALID-ORDER-389 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)
                                                                                        10.390 INVALID-ORDER-390 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)
                                                                            H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_5\right) + s^4 \left(-C_1 C_2 C_5 L_1 R_2 + C_1 C_5 L_1 L_5 g_m\right) + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 - C_1 C_5 L_1 + C_2 C_5 L_5 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 L_1 g_m - C_2 C_5 R_2 + C_5 L_5 g_m\right) + s \left(C_2 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 C_2 C_5 L_1 R_2 g_m + C_2 C_5 L_5\right) + s^2 \left(C_1 
10.391 INVALID-ORDER-391 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                         H(s) = \frac{-C_1C_2C_5L_1L_5R_2s^5 + s^4\left(C_1C_2L_1L_5R_2g_m + C_1C_2L_1L_5 - C_1C_5L_1L_5\right) + s^3\left(-C_1C_2L_1R_2 + C_1L_1L_5g_m - C_2C_5L_5R_2\right) + s^2\left(-C_1L_1 + C_2L_5R_2g_m + C_2L_5 - C_5L_5\right) + s\left(-C_2R_2 + L_5g_m\right) - 1}{2g_m + s^5\left(2C_1C_2C_5L_1L_5R_2g_m + 4C_1C_2C_5L_1L_5\right) + s^4\left(C_1C_2C_5L_5R_2 + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_2L_1R_2g_m + 4C_1C_2L_1 + C_1C_2L_5 + C_1C_5L_5 + 2C_2C_5L_5R_2g_m + 4C_2C_5L_5\right) + s^2\left(C_1C_2R_2 + 2C_1L_1g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_2R_2g_m + 4C_2C_5L_5\right) + s^2\left(C_1C_2R_2 + 2C_1L_1g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_2R_2g_m + 4C_1C_2L_1 + C_1C_2L_5 + C_1C_5L_5\right) + s\left(-C_1R_2 + C_1C_2R_2 + C_1C_5L_5\right) + s\left(-C_1R_2 + C_1C_3L_5\right) + s\left(-C_1R_2 + C_1C_3L_
10.392 INVALID-ORDER-392 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.393 INVALID-ORDER-393 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)
                                   -C_{1}C_{2}C_{5}L_{1}L_{5}R_{2}R_{5}s^{5}-R_{5}+s^{4}\left(C_{1}C_{2}L_{1}L_{5}R_{2}+C_{1}C_{2}L_{1}L_{5}R_{5}-C_{1}C_{5}L_{1}L_{5}R_{5}\right)+s^{3}\left(-C_{1}C_{2}L_{1}R_{2}R_{5}+C_{1}L_{1}L_{5}R_{5}g_{m}-C_{1}L_{1}L_{5}-C_{2}C_{5}L_{5}R_{2}R_{5}\right)+s^{2}\left(-C_{1}L_{1}R_{5}+C_{2}L_{5}R_{2}R_{5}+C_{1}C_{2}L_{1}L_{5}R_{5}g_{m}+4C_{1}C_{2}L_{1}L_{5}+C_{2}C_{5}L_{5}R_{2}R_{5}\right)+s^{2}\left(-C_{1}L_{1}R_{5}+C_{2}L_{5}R_{2}R_{5}+C_{1}L_{5}R_{5}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_{1}L_{5}R_{2}g_{m}+4C_{1}C_{2}L_
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 $H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_1 L_5 R_2 g_m + C_1 C_2 L_1 L_5 + C_1 C_5 L_1 L_5 R_2 g_m - C_1 C_2 L_1 R_2 + C_1 C$

10.394 INVALID-ORDER-394 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

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10.395 INVALID-ORDER-395 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.396 INVALID-ORDER-396 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5, \ \infty\right)
                                                                                                                                                                                                                                                                                                                      H(s) = \frac{C_1C_2L_1R_5s^3 + C_2R_5s + R_5g_m + s^4\left(C_1C_2L_1L_2R_5g_m - C_1C_2L_1L_2\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 + C_2L_2R_5g_m - C_2L_2\right) - 1}{2C_1C_2L_1L_2g_ms^4 + 2g_m + s^3\left(4C_1C_2L_1 + C_1C_2L_2\right) + s^2\left(C_1C_2R_5 + 2C_1L_1g_m + 2C_2L_2g_m\right) + s\left(C_1 + 4C_2\right)}
10.397 INVALID-ORDER-397 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty\right)
                                                                                                                                                                                                                                                                                                     H(s) = \frac{-C_1C_2C_5L_1L_2s^5 + C_1C_2L_1L_2g_ms^4 + g_m + s^3\left(C_1C_2L_1 - C_1C_5L_1 - C_2C_5L_2\right) + s^2\left(C_1L_1g_m + C_2L_2g_m\right) + s\left(C_2 - C_5\right)}{2C_1C_2C_5L_1L_2g_ms^5 + 2C_5g_ms + s^4\left(4C_1C_2C_5L_1 + C_1C_2C_5L_2\right) + s^3\left(2C_1C_5L_1g_m + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)}
10.398 INVALID-ORDER-398 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)
                                H(s) = \frac{-C_1C_2C_5L_1L_2R_5s^5 + R_5g_m + s^4\left(C_1C_2L_1L_2R_5g_m - C_1C_2L_1L_2\right) + s^3\left(C_1C_2L_1R_5 - C_1C_5L_1R_5 - C_2C_5L_2R_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 + C_2L_2R_5g_m - C_2L_2\right) + s\left(C_2R_5 - C_5R_5\right) - 1}{2C_1C_2C_5L_1L_2R_5g_m + s^4\left(4C_1C_2C_5L_1R_5 + C_1C_2C_5L_2R_5 + 2C_1C_2L_1L_2g_m\right) + s^3\left(4C_1C_2L_1 + C_1C_2L_2 + 2C_1C_5L_1R_5g_m + 2C_2C_5L_2R_5g_m\right) + s^2\left(C_1C_2R_5 + C_1C_5R_5 + 2C_1L_1g_m + 4C_2C_5R_5 + 2C_2L_2g_m\right) + s\left(C_1C_2R_5 + C_1C_3R_5g_m - C_2R_5\right) + s^2\left(C_1C_2R_5 + C_1C_3R_5g_m - C_2R_5\right) + s^2\left(C_1C_2R_5g_m - C_2R_5\right)
10.399 INVALID-ORDER-399 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)
                                                                                   H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2\right) + s^4 \left(C_1 C_2 C_5 L_1 R_5 + C_1 C_2 L_1 L_2 g_m\right) + s^3 \left(C_1 C_2 L_1 + C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1 + C_2 C_5 L_2 R_5 g_m - C_2 C_5 L_2\right) + s^2 \left(C_1 L_1 g_m + C_2 C_5 R_5 + C_2 L_2 g_m\right) + s \left(C_2 + C_5 R_5 g_m - C_5 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 C_5 L_2\right) + s^2 \left(C_1 L_2 g_m + C_2 L
10.400 INVALID-ORDER-400 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)
                                                                               H(s) = \frac{C_1C_2C_5L_1L_2L_5g_ms^6 + g_m + s^5\left(-C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5\right) + s^4\left(C_1C_2L_1L_2g_m + C_1C_5L_1L_5g_m + C_2C_5L_2L_5g_m\right) + s^3\left(C_1C_2L_1 - C_1C_5L_1 - C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(C_1L_1g_m + C_2L_2g_m + C_5L_5g_m\right) + s\left(C_2C_5L_1L_2g_ms^5 + 2C_5g_ms + s^4\left(4C_1C_2C_5L_1 + C_1C_2C_5L_2 + C_1C_5L_5\right) + s^3\left(2C_1C_5L_1g_m + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right) + s^2\left(C_1C_2 + C_1C_5 + 4C_2C_5\right)
10.401 INVALID-ORDER-401 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)
                         H(s) = \frac{-C_1C_2C_5L_1L_2L_5s^6 + C_1C_2L_1L_2L_5g_ms^5 + L_5g_ms + s^4\left(-C_1C_2L_1L_2 + C_1C_2L_1L_5 - C_1C_5L_1L_5 - C_2C_5L_2L_5\right) + s^3\left(C_1L_1L_5g_m + C_2L_2L_5g_m\right) + s^2\left(-C_1L_1 - C_2L_2 + C_2L_5 - C_5L_5\right) - 1}{2C_1C_2C_5L_1L_2L_5g_ms^6 + 2g_m + s^5\left(4C_1C_2C_5L_1L_5 + C_1C_2C_5L_2L_5\right) + s^4\left(2C_1C_2L_1L_2g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(4C_1C_2L_1 + C_1C_2L_5 + C_1C_5L_5 + 4C_2C_5L_5\right) + s^2\left(2C_1L_1g_m + 2C_2L_2g_m\right) + s^2\left(2C_1L_1g_m + 2C_2L_2g
10.402 INVALID-ORDER-402 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)
H(s) = \frac{C_1C_2C_5L_1L_2L_5g_ms^6 + g_m + s^5\left(C_1C_2C_5L_1L_2R_5g_m - C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5\right) + s^4\left(C_1C_2C_5L_1R_5 + C_1C_2L_1L_2g_m + C_1C_5L_1L_5g_m + C_2C_5L_2L_5g_m\right) + s^3\left(C_1C_2L_1 + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(C_1L_1g_m + C_2C_5L_1L_2g_m + C_1C_5L_1L_2g_m + C_
10.403 INVALID-ORDER-403 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)
H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_5s^6 - R_5 + s^5\left(C_1C_2L_1L_2L_5R_5g_m - C_1C_2L_1L_2R_5 + C_1C_2L_1L_5R_5 - C_2C_5L_2L_5R_5\right) + s^3\left(C_1L_1L_5R_5g_m - C_1L_1L_5 + C_2L_2L_5R_5g_m - C_2L_2L_5
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 $H(s) = \frac{R_5 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(C_1 C_2 C_5 L_1 L_2 L_5 g_m\right) + s^4 \left(C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_2 L_1 L_5 + C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_2 L_5\right) + s^3 \left(C_1 C_2 L_1 R_5 + C_1 L_1 L_5 g_m + C_2 C_5 L_5 R_5 + C_1 C_2 L_5 R_5 g_m - C_1 C_5 L_1 L_5 R_5 g_m -$

10.404 INVALID-ORDER-404 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right)$

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 \begin{aligned} \textbf{10.405} \quad & \textbf{INVALID-ORDER-405} \ Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5(C_5 L_6 s^2 + 1)}{C_5 L_6 R_5 s^2 + C_5 R_6 s^2 + 1}, \ \infty \right) \\ & H(s) = \frac{R_5 g_m + s^6 (C_1 C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5) + s^6 (C_1 C_2 C_5 L_1 L_2 R_5 g_m + C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_2 L_1 L_2 + C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_1 L_5 + C_2 C_5 L_2 L_5 R_5 g_m - C_2 C_5 L_2 L_5) + s^3 (C_1 C_2 L_1 L_2 R_5 g_m + C_1 C_2 L_2 L_2 R_5 g_m + C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_5 L_1 L_2 R_5 g_m - C_1 C_5 L_1 L_5 R_5 g_m - C_2 C_5 L_2 L_5 g_m + C_2 L_5 g
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10.408 INVALID-ORDER-408 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_5s^5 + R_5g_m + s^4\left(-C_1C_2C_5L_1R_2R_5 + C_1C_2L_1L_2R_5g_m - C_1C_2L_1R_2 + C_1C_2L_1R_5 - C_2C_5L_2R_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 - C_2C_5R_2R_5 + C_2L_2R_5g_m - C_2L_2\right) + s^2\left(C_1C_2C_5L_1L_2R_5g_m + s^4\left(2C_1C_2C_5L_1R_2R_5g_m + 4C_1C_2C_5L_1R_5 + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2C_5R_2R_5 + 2C_1C_2L_1R_2g_m + 4C_1C_2L_1 + C_1C_2L_2 + 2C_1C_5L_1R_5g_m + 2C_2C_5L_2R_5g_m\right) + s^2\left(C_1C_2R_2 + C_1C_2R_5 + C_1C_2R_5 + C_1C_2R_5g_m + 4C_1C_2L_1R_2g_m + 4C_1C_2L_1 + C_1C_2L_2 + 2C_1C_5L_1R_5g_m + 2C_2C_5L_2R_5g_m\right) + s^2\left(C_1C_2R_2 + C_1C_2R_5 + C_1C_2R_5 + C_1C_2R_5 + C_1C_2R_5 + C_1C_2R_5g_m + 4C_1C_2L_1R_2g_m + 4C_1C_2L_1 + C_1C_2L_1 + C_1C_2L_1 + C_1C_2L_1 + C_1C_2L_1R_5g_m + 4C_1C_2L_1 + C_1C_2L_1R_5g_m\right) + s^2\left(C_1C_2R_5 + C_1C_2R_5 + C_1$

10.409 INVALID-ORDER-409 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

10.410 INVALID-ORDER-410 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_2L_5g_ms^6 + g_m + s^5\left(-C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5\right) + s^4\left(-C_1C_2C_5L_1L_2g_m + C_1C_5L_1L_5g_m + C_2C_5L_2L_5g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 - C_1C_5L_1 - C_2C_5L_2 + C_2C_5L_5R_2g_m + C_2C_5L_5\right) + s^2\left(C_1L_1g_m - C_2C_5L_1L_2g_m + C_2C_5L_1L_2g_m + C_2C_5L_2 + C_2C_5L_2g_m\right) + s^2\left(C_1C_2C_5L_1L_2g_m + C_2C_5L_2 + C_2C_5L_$

10.411 INVALID-ORDER-411 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5s^6 + s^5\left(-C_1C_2C_5L_1L_5R_2 + C_1C_2L_1L_2L_5g_m\right) + s^4\left(-C_1C_2L_1L_2 + C_1C_2L_1L_5 + C_1C_5L_1L_5 - C_2C_5L_2L_5\right) + s^3\left(-C_1C_2L_1R_2 + C_1L_1L_5g_m - C_2C_5L_5R_2 + C_2L_2L_5g_m\right) + s^2\left(-C_1L_1 - C_2L_2 + C_2L_5g_m\right) + s^2\left(-C_1L_1 - C_2L_1 + C_1L_5g_m\right) + s^2\left(-C_1L_1 - C_2L_1 + C_1L_1 + C_1L$

10.412 INVALID-ORDER-412 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_2L_5g_ms^6 + g_m + s^5\left(C_1C_2C_5L_1L_2R_5g_m - C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5\right) + s^4\left(C_1C_2C_5L_1R_2 + C_1C_2C_5L_1R_5 + C_1C_2L_1L_2g_m + C_1C_5L_1L_5g_m + C_2C_5L_2L_5g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1L_2g_m + C_1C_2L_1L_2g_m$

10.413 INVALID-ORDER-413 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_5s^6 - R_5 + s^5\left(-C_1C_2C_5L_1L_5R_2R_5 + C_1C_2L_1L_2L_5R_5g_m - C_1C_2L_1L_2R_5 + C_1C_2L_1L_5R_2R_5g_m - C_1C_2L_1L_5R_2 + C_1C_2L_1L_5R_5 - C_1C_5L_1L_5R_5 - C_1C_5L_1L_5R_5 - C_1C_5L_1L_5R_5 - C_1C_5L_5R_5R_5 + C_1C_2L_5R_5g_m + s^2\left(C_1C_2C_5L_1L_5R_5g_m + s^2c_1C_5L_1L_5R_5g_m + s^2c_1C_5L_1L_5R_5g_m + s^2c_1C_2C_5L_1L_5R_$

10.414 INVALID-ORDER-414 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right)$

 $H(s) = \frac{R_5 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_2 g_m - C_1 C_2 C_5 L_1 L_5 R_5 + C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_2 L_1 L_5 R_5 g_m$

10.418 INVALID-ORDER-418
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_2R_5s^5 + R_2R_5g_m - R_2 + R_5 + s^4\left(C_1C_2L_1L_2R_2R_5g_m - C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_5 - C_1C_5L_1L_2R_5\right) + s^3\left(-C_1C_5L_1R_2R_5 + C_1L_1L_2R_5g_m - C_1L_1L_2 - C_2C_5L_2R_2R_5\right) + s^2\left(C_1L_1R_2R_5g_m - C_1L_1L_2R_5g_m + s^2\left(C_1L_2R_5g_m + s^2c_1L_2R_5g_m + s^2\left(C_1L_2R_5g_m + s^2c_1L_2R_5g_m + s^2c_1L_2$

10.419 INVALID-ORDER-419
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 + C_1 C_5 L_1 L_2 R_5 g_m - C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_5 + C_1 L_1 L_2 g_m + C_2 C_5 L_2 R_2 + C_2 C$

10.420 INVALID-ORDER-420
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(-C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_5 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 - C_1 C_5 L_1 L_2 + C_1 C_5 L_1 L_5 R_2 g_m + C_1 C_5 L_1 L_5 + C_2 C_5 L_2 L_5\right) + s^3 \left(-C_1 C_5 L_1 R_2 + C_1 L_1 L_2 g_m - C_2 C_5 L_2 R_2 + C_1 C_5 L_1 L_2 R_2 g_m + C_1 C_5 L_1 L_2 R_2 g$

10.421 INVALID-ORDER-421
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_2s^6 - R_2 + s^5\left(C_1C_2L_1L_2L_5R_2g_m + C_1C_2L_1L_2L_5 - C_1C_5L_1L_2L_5\right) + s^4\left(-C_1C_2L_1L_2R_2 - C_1C_5L_1L_2R_2 - C_1C_5L_1L_2R_2 - C_1C_5L_1L_2R_2\right) + s^3\left(-C_1L_1L_2 + C_1L_1L_2 + C_1L_1L_5R_2g_m + C_1L_1L_5 + C_2L_2L_5\right)}{2R_2g_m + s^6\left(2C_1C_2C_5L_1L_2L_5R_2g_m + 4C_1C_2L_1L_2R_2g_m + 4C_1C_2L_1L_2 + C_1C_5L_1L_5R_2g_m + 4C_1C_5L_1L_5 + C_1C_5L_1L_5 + C_1C_5L_1L_5$

10.422 INVALID-ORDER-422
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_5 L_1 L_2 R_5 g_m + C_1 C_5 L_1 L_2 R_5 g_m + C_1 C_5 L_1 L_2 R_5 g_m - C_1 C_5 L_1 L_2 R_5 g_m + C_1 C_5 L_1 L_2 R_5 g_m$

10.423 INVALID-ORDER-423
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_2R_5s^6 - R_2R_5 + s^5\left(C_1C_2L_1L_2L_5R_2 + C_1C_2L_1L_2L_5R_2 + C_1C_2L_1L_2L_5R_5 + s^4\left(-C_1C_2L_1L_2R_2R_5 - C_1C_5L_1L_2L_5R_5 + s^4\left(-C_1C_2L_1L_2R_2R_5 - C_1C_5L_1L_2R_5 + s^4\left(-C_1C_2L_1L_2R_5 + s^4\right) + s^4\left(-C_1C_2L_1L_2R_5 + s^4\right) + s^4\left(-C_1C_2L_1L_2R_5 + s^4\right) + s^4\left(-C_1C_2L_1L_2R_5 + s^4\right) + s^4\left(-C_1C_2L_1L_2R_5 + s^$

10.424 INVALID-ORDER-424
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

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10.425 INVALID-ORDER-425 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
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 $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_5 \right) + s^5 \left(-C_1 C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_1 C_5 L_1 L_2 L_5 R_5 g_m - C_1 C_5 L_1 L_2 L_5 R_5 g_m - C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_2 L_1 L_2 R_5 - C_1 C_2 L_2 L_2 R_5 g_m - C_1 C_2 L_2 L_2$

10.426 INVALID-ORDER-426
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_5, \infty\right)$$

10.427 INVALID-ORDER-427
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_2s^5 + R_2g_m + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2\right) + s^3\left(C_1C_2L_1R_2 - C_1C_5L_1R_2 - C_2C_5L_2R_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2L_2R_2g_m + C_2L_2\right) + s\left(C_2R_2 - C_5R_2\right) + 1}{s^5\left(2C_1C_2C_5L_1L_2R_2g_m + 4C_1C_2C_5L_1L_2\right) + s^4\left(4C_1C_2C_5L_1R_2 + C_1C_2C_5L_2R_2\right) + s^3\left(C_1C_2L_2 + 2C_1C_5L_1R_2g_m + 4C_1C_5L_1 + 2C_2C_5L_2R_2\right) + s^2\left(C_1L_2R_2g_m + 4C_1C_2C_5L_1L_2\right) + s^2\left(C_1C_2R_2 + C_1C_5R_2 + 4C_2C_5R_2\right) + s^2\left(C_1C_2R_2 + C_1C_5R_2 + C_1C_5R_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_2 +$

10.428 INVALID-ORDER-428
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_2R_5s^5 + R_2R_5g_m - R_2 + R_5 + s^4\left(C_1C_2L_1L_2R_2R_5g_m - C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_5\right) + s^3\left(C_1C_2L_1R_2R_5 - C_1C_5L_1R_2R_5 - C_2C_5L_2R_2R_5\right) + s^2\left(C_1L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1C_2L_1L_2R_2\right) + s^3\left(C_1C_2L_1R_2R_5 - C_1C_5L_1R_2R_5 - C_2C_5L_2R_2R_5\right) + s^2\left(C_1L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1C_2L_1R_2R_5 - C_1C_5L_1R_2R_5g_m - C_1C_5L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1L_1R_2R_5g_m - C_1C_2L_1R_2R_5g_m - C_1C_2L_1R_2g_m -$

10.429 INVALID-ORDER-429
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_2 F_5 g_m - C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 + C_1 C_5 L_1 R_2 + C$

10.430 INVALID-ORDER-430
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(-C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_1 L_2 R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_5 L_1 L_5 R_2 g_m + C_1 C_5 L_1 L_5 + C_2 C_5 L_2 L_5\right) + s^3 \left(C_1 C_2 L_1 R_2 - C_1 C_5 L_1 R_2 - C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_5 L_1 L_5 R_2 g_m + C_1 C_5 L_5 R_2 g_m + C_1$

10.431 INVALID-ORDER-431
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_2s^6 - R_2 + s^5\left(C_1C_2L_1L_2L_5R_2g_m + C_1C_2L_1L_2R_2 + C_1C_2L_1L_5R_2 - C_2C_5L_2L_5R_2\right) + s^3\left(C_1L_1L_5R_2g_m + C_1L_1L_5 + C_2L_2L_5R_2g_m + C_1L_2L_5R_2g_m + C_1L_2L_5$

10.432 INVALID-ORDER-432
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_2 C_5 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_5 L_1 L_5 R_2 g_m + C_1 C_5 L_5 R_5 g_m + C_1 C_5 L_5 R_5$

10.433 INVALID-ORDER-433
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_2R_5s^6 - R_2R_5 + s^5\left(C_1C_2L_1L_2L_5R_2R_5g_m - C_1C_2L_1L_2L_5R_2 + C_1C_2L_1L_2L_5R_5\right) + s^4\left(-C_1C_2L_1L_2L_5R_2g_m + 4C_1C_2L_1L_2L_5R_2g_m + 4C_1C_2L_1L_2R_5 + s^4\left(2C_1C_2L_1L_2R_5 + 4C_1C_2L_1L_2R_5 + 4C_1C_2L_1L_2R_5$

10.434 INVALID-ORDER-434 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

10.435 INVALID-ORDER-435 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_2R_5g_m - R_2 + R_5 + s^6\left(C_1C_2C_5L_1L_2L_5R_2g_m - C_1C_2C_5L_1L_2L_5R_2 + C_1C_2C_5L_1L_2R_2R_5 + C_1C_2C_5L_1R_2R_5 + C_1C_$

10.436 INVALID-ORDER-436 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_2 s^2 + s \left(L_1 R_2 g_m + L_1\right)}{C_1 C_5 L_1 R_2 s^3 + C_5 R_2 s + s^2 \left(C_1 L_1 + 2 C_5 L_1 R_2 g_m + 4 C_5 L_1\right) + 1}$$

10.437 INVALID-ORDER-437 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_2R_5s^2 + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{C_1C_5L_1R_2R_5s^3 + R_2 + R_5 + s^2\left(C_1L_1R_2 + C_1L_1R_5 + 2C_5L_1R_2R_5g_m + 4C_5L_1R_5\right) + s\left(C_5R_2R_5 + 2L_1R_2g_m + 4L_1\right)}$$

10.438 INVALID-ORDER-438 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^3 \left(C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_5 \right) + s^2 \left(C_1 L_1 + 2 C_5 L_1 R_2 g_m + 4 C_5 L_1 \right) + s \left(C_5 R_2 + C_5 R_5 \right) + 1}$$

10.439 INVALID-ORDER-439 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_2s^2 + s^3\left(C_5L_1L_5R_2g_m + C_5L_1L_5\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_5L_1L_5s^4 + C_1C_5L_1R_2s^3 + C_5R_2s + s^2\left(C_1L_1 + 2C_5L_1R_2g_m + 4C_5L_1 + C_5L_5\right) + 1}$$

10.440 INVALID-ORDER-440 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_2s^3 - L_1R_2s + s^2\left(L_1L_5R_2g_m + L_1L_5\right)}{C_1C_5L_1L_5R_2s^4 + R_2 + s^3\left(C_1L_1L_5 + 2C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(C_1L_1R_2 + C_5L_5R_2\right) + s\left(2L_1R_2g_m + 4L_1 + L_5\right)}$$

10.441 INVALID-ORDER-441 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{s^3 \left(C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5\right) + s^2 \left(C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5\right) + s \left(L_1 R_2 g_m + L_1\right)}{C_1 C_5 L_1 L_5 s^4 + s^3 \left(C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 L_1 + 2 C_5 L_1 R_2 g_m + 4 C_5 L_1 + C_5 L_5\right) + s \left(C_5 R_2 + C_5 R_5\right) + 1}$$

10.442 INVALID-ORDER-442 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_2R_5s^3 - L_1R_2R_5s + s^2\left(L_1L_5R_2R_5g_m - L_1L_5R_2 + L_1L_5R_5\right)}{C_1C_5L_1L_5R_2R_5s^4 + R_2R_5 + s^3\left(C_1L_1L_5R_2 + C_1L_1L_5R_5 + 2C_5L_1L_5R_2R_5g_m + 4C_5L_1L_5R_5\right) + s^2\left(C_1L_1R_2R_5 + C_5L_5R_2R_5 + 2L_1L_5R_2g_m + 4L_1L_5\right) + s\left(2L_1R_2R_5g_m + 4L_1R_5 + L_5R_5 + 2C_5L_5R_5\right)}$$

10.443 INVALID-ORDER-443
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{s^3 \left(C_5 L_1 L_5 R_2 R_5 g_m - C_5 L_1 L_5 R_2 + C_5 L_1 L_5 R_5\right) + s^2 \left(L_1 L_5 R_2 g_m + L_1 L_5\right) + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5\right)}{R_2 + R_5 + s^4 \left(C_1 C_5 L_1 L_5 R_2 + C_1 C_5 L_1 L_5 R_5\right) + s^3 \left(C_1 L_1 L_5 + 2 C_5 L_1 L_5 R_2 g_m + 4 C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_5 + C_5 L_5 R_2 + C_5 L_5 R_5\right) + s \left(2 L_1 R_2 g_m + 4 L_1 + L_5\right)}$$

10.444 INVALID-ORDER-444
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_1R_2R_5s^2 + s^3\left(C_5L_1L_5R_2R_5g_m - C_5L_1L_5R_2 + C_5L_1L_5R_5\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{R_2 + R_5 + s^4\left(C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(C_1L_1R_2 + C_1L_1R_5 + 2C_5L_1R_2R_5g_m + 4C_5L_1R_5 + C_5L_5R_2 + C_5L_5R_5\right) + s\left(C_5R_2R_5 + 2L_1R_2g_m + 4L_1\right)}$$

10.445 INVALID-ORDER-445 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 L_1 R_5 s^2 + s (L_1 R_5 g_m - L_1)}{C_1 C_2 L_1 R_5 s^3 + s^2 (C_1 L_1 + 4C_2 L_1) + s (C_2 R_5 + 2L_1 g_m) + 1}$$

10.446 INVALID-ORDER-446 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{s^2 \left(C_2 L_1 R_5 - C_5 L_1 R_5 \right) + s \left(L_1 R_5 g_m - L_1 \right)}{s^3 \left(C_1 C_2 L_1 R_5 + C_1 C_5 L_1 R_5 + 4 C_2 C_5 L_1 R_5 \right) + s^2 \left(C_1 L_1 + 4 C_2 L_1 + 2 C_5 L_1 R_5 g_m \right) + s \left(C_2 R_5 + C_5 R_5 + 2 L_1 g_m \right) + 1}$$

10.447 INVALID-ORDER-447 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_1R_5s^2 + L_1g_m + s\left(C_2L_1 + C_5L_1R_5g_m - C_5L_1\right)}{C_1C_2C_5L_1R_5s^3 + C_2 + C_5 + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 4C_2C_5L_1\right) + s\left(C_2C_5R_5 + 2C_5L_1g_m\right)}$$

10.448 INVALID-ORDER-448 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_1L_5s^3 + C_5L_1L_5g_ms^2 + L_1g_m + s\left(C_2L_1 - C_5L_1\right)}{C_1C_2C_5L_1L_5s^4 + C_2 + 2C_5L_1g_ms + C_5 + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 4C_2C_5L_1 + C_2C_5L_5\right)}$$

10.449 INVALID-ORDER-449 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{1}{C_2s}, \infty, \infty, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

$$H(s) = \frac{L_1 L_5 g_m s^2 - L_1 s + s^3 \left(C_2 L_1 L_5 - C_5 L_1 L_5\right)}{2 C_5 L_1 L_5 g_m s^3 + 2 L_1 g_m s + s^4 \left(C_1 C_2 L_1 L_5 + C_1 C_5 L_1 L_5 + 4 C_2 C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 + 4 C_2 L_1 + C_2 L_5 + C_5 L_5\right) + 1}$$

10.450 INVALID-ORDER-450 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_1L_5s^3 + L_1g_m + s^2\left(C_2C_5L_1R_5 + C_5L_1L_5g_m\right) + s\left(C_2L_1 + C_5L_1R_5g_m - C_5L_1\right)}{C_1C_2C_5L_1L_5s^4 + C_1C_2C_5L_1R_5s^3 + C_2 + C_5 + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 4C_2C_5L_1 + C_2C_5L_5\right) + s\left(C_2C_5R_5 + 2C_5L_1g_m\right)}$$

10.451 INVALID-ORDER-451 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-L_1R_5s + s^3\left(C_2L_1L_5R_5 - C_5L_1L_5R_5\right) + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{R_5 + s^4\left(C_1C_2L_1L_5R_5 + C_1C_5L_1L_5R_5 + 4C_2C_5L_1L_5R_5\right) + s^3\left(C_1L_1L_5 + 4C_2L_1L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 4C_2L_1R_5 + C_2L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(2L_1R_5g_m + L_5\right)}$$

10.452 INVALID-ORDER-452
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_5R_5s^4 + s^3\left(C_2L_1L_5 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_2L_1R_5 + L_1L_5g_m\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_2C_5L_1L_5R_5s^5 + s^4\left(C_1C_2L_1L_5 + C_1C_5L_1L_5 + 4C_2C_5L_1L_5\right) + s^3\left(C_1C_2L_1R_5 + C_2C_5L_5R_5 + 2C_5L_1L_5g_m\right) + s^2\left(C_1L_1 + 4C_2L_1 + C_2L_5 + C_5L_5\right) + s\left(C_2R_5 + 2L_1g_m\right) + 1}$$

10.453 INVALID-ORDER-453
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_2C_5L_1L_5R_5s^4 + s^3\left(C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_2L_1R_5 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_2C_5L_1L_5R_5s^5 + s^4\left(C_1C_5L_1L_5 + 4C_2C_5L_1L_5\right) + s^3\left(C_1C_2L_1R_5 + 4C_2C_5L_1R_5 + 4C_2C_5L_1R_5 + 2C_5L_1L_5g_m\right) + s^2\left(C_1L_1 + 4C_2L_1 + 2C_5L_1R_5g_m + C_5L_5\right) + s\left(C_2R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.454 INVALID-ORDER-454 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5, \infty\right)$

$$H(s) = \frac{C_2 L_1 R_2 R_5 s^2 + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5 \right)}{C_1 C_2 L_1 R_2 R_5 s^3 + R_2 + R_5 + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_5 + 4 C_2 L_1 R_2 \right) + s \left(C_2 R_2 R_5 + 2 L_1 R_2 g_m + 4 L_1 \right)}$$

10.455 INVALID-ORDER-455 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{s^2 \left(C_2 L_1 R_2 - C_5 L_1 R_2 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^3 \left(C_1 C_2 L_1 R_2 + C_1 C_5 L_1 R_2 + 4 C_2 C_5 L_1 R_2 \right) + s^2 \left(C_1 L_1 + 2 C_5 L_1 R_2 g_m + 4 C_5 L_1 \right) + s \left(C_2 R_2 + C_5 R_2 \right) + 1}$$

10.456 INVALID-ORDER-456 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{s^2 \left(C_2 L_1 R_2 R_5 - C_5 L_1 R_2 R_5 \right) + s \left(L_1 R_2 R_5 g_m - L_1 R_2 + L_1 R_5 \right)}{R_2 + R_5 + s^3 \left(C_1 C_2 L_1 R_2 R_5 + C_1 C_5 L_1 R_2 R_5 + 4 C_2 C_5 L_1 R_2 R_5 \right) + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_5 + 4 C_2 L_1 R_2 + 2 C_5 L_1 R_2 R_5 g_m + 4 C_5 L_1 R_5 \right) + s \left(C_2 R_2 R_5 + C_5 R_2 R_5 + 2 L_1 R_2 g_m + 4 L_1 \right)}$$

10.457 INVALID-ORDER-457 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_1R_2R_5s^3 + s^2\left(C_2L_1R_2 + C_5L_1R_2R_5g_m - C_5L_1R_2 + C_5L_1R_5\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_5L_1R_2R_5s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_5L_1R_2 + C_1C_5L_1R_5 + 4C_2C_5L_1R_2\right) + s^2\left(C_1L_1 + C_2C_5R_2R_5 + 2C_5L_1R_2g_m + 4C_5L_1\right) + s\left(C_2R_2 + C_5R_2 + C_5R_5\right) + 1}$$

10.458 INVALID-ORDER-458 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_1L_5R_2s^4 + s^3\left(C_5L_1L_5R_2g_m + C_5L_1L_5\right) + s^2\left(C_2L_1R_2 - C_5L_1R_2\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_5L_1L_5R_2s^5 + C_1C_5L_1L_5s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_5L_1R_2 + 4C_2C_5L_1R_2 + C_2C_5L_5R_2\right) + s^2\left(C_1L_1 + 2C_5L_1R_2g_m + 4C_5L_1 + C_5L_5\right) + s\left(C_2R_2 + C_5R_2\right) + 1}$$

10.459 INVALID-ORDER-459 $Z(s) = \left(\frac{L_{1s}}{C_1L_1s^2+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \frac{L_{5s}}{C_5L_5s^2+1}, \infty\right)$

$$H(s) = \frac{-L_1R_2s + s^3\left(C_2L_1L_5R_2 - C_5L_1L_5R_2\right) + s^2\left(L_1L_5R_2g_m + L_1L_5\right)}{R_2 + s^4\left(C_1C_2L_1L_5R_2 + C_1C_5L_1L_5R_2 + 4C_2C_5L_1L_5R_2\right) + s^3\left(C_1L_1L_5 + 2C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(C_1L_1R_2 + 4C_2L_1R_2 + C_5L_5R_2\right) + s\left(2L_1R_2g_m + 4L_1 + L_5\right)}$$

10.460 INVALID-ORDER-460 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_2C_5L_1L_5R_2s^4 + s^3\left(C_2C_5L_1R_2R_5 + C_5L_1L_5R_2g_m + C_5L_1L_5\right) + s^2\left(C_2L_1R_2 + C_5L_1R_2R_5g_m - C_5L_1R_2 + C_5L_1R_5\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_5L_1L_5R_2s^5 + s^4\left(C_1C_2C_5L_1R_2R_5 + C_1C_5L_1L_5\right) + s^3\left(C_1C_2L_1R_2 + C_1C_5L_1R_5 + 4C_2C_5L_1R_2 + C_2C_5L_5R_2\right) + s^2\left(C_1L_1 + C_2C_5R_2R_5 + 2C_5L_1R_2g_m + 4C_5L_1 + C_5L_5\right) + s\left(C_2R_2 + C_5R_2 + C_5R_5\right) + 1}$$

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10.461 INVALID-ORDER-461 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-L_1R_2R_5s + s^3\left(C_2L_1L_5R_2R_5 - C_5L_1L_5R_2R_5\right) + s^2\left(L_1L_5R_2R_5g_m - L_1L_5R_2 + L_1L_5R_5\right)}{R_2R_5 + s^4\left(C_1C_2L_1L_5R_2R_5 + 4C_2C_5L_1L_5R_2R_5\right) + s^3\left(C_1L_1L_5R_2 + 4C_2L_1L_5R_2 + 2C_5L_1L_5R_2\right) + s^2\left(C_1L_1R_2R_5 + 4C_2L_1R_2R_5 + 4C_2L
10.462 INVALID-ORDER-462 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{C_2C_5L_1L_5R_2R_5s^4 + s^3\left(C_2L_1L_5R_2 + C_5L_1L_5R_2 + C_5L_5R_2 + C_5L_5R_
10.463 INVALID-ORDER-463 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{C_2C_5L_1L_5R_2R_5s^4 + s^3\left(C_5L_1L_5R_2R_5g_m - C_5L_1L_5R_2 + C_5L_1L_5R_2 + C_5L_1L_5R_5\right) + s^2\left(C_2L_1R_2R_5 - C_5L_1R_2R_5\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{C_1C_2C_5L_1L_5R_2R_5s^5 + R_2 + R_5 + s^4\left(C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_5 + 4C_2C_5L_1R_2R_5 + 4C_2C_5L_1R_2R_5 + 4C_2C_5L_1R_2R_5 + 2C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(C_1L_1R_2 + C_1L_1R_5 + 4C_2L_1R_2 + C_1L_1R_5 + 4C_2L_1R_2 + 2C_5L_1R_2R_5 + 4C_2C_5L_1R_2R_5 + 4C_2C_5L_1R_2R
10.464 INVALID-ORDER-464 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                                                                                           H(s) = \frac{s^2 \left( C_2 L_1 R_2 R_5 g_m - C_2 L_1 R_2 + C_2 L_1 R_5 \right) + s \left( L_1 R_5 g_m - L_1 \right)}{s^3 \left( C_1 C_2 L_1 R_2 + C_1 C_2 L_1 R_5 \right) + s^2 \left( C_1 L_1 + 2 C_2 L_1 R_2 g_m + 4 C_2 L_1 \right) + s \left( C_2 R_2 + C_2 R_5 + 2 L_1 g_m \right) + 1}
10.465 INVALID-ORDER-465 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                        H(s) = \frac{-C_2C_5L_1R_2s^2 + L_1g_m + s\left(C_2L_1R_2g_m + C_2L_1 - C_5L_1\right)}{C_1C_2C_5L_1R_2s^3 + C_2 + C_5 + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 2C_2C_5L_1R_2g_m + 4C_2C_5L_1\right) + s\left(C_2C_5R_2 + 2C_5L_1g_m\right)}
10.466 INVALID-ORDER-466 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                    H(s) = \frac{-C_2C_5L_1R_2R_5s^3 + s^2\left(C_2L_1R_2R_5g_m - C_2L_1R_2 + C_2L_1R_5 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_2C_5L_1R_2R_5s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_2L_1R_5 + C_1C_5L_1R_5 + 2C_2C_5L_1R_2R_5g_m + 4C_2C_5L_1R_5\right) + s^2\left(C_1L_1 + C_2C_5R_2R_5 + 2C_2L_1R_2g_m + 4C_2L_1 + 2C_5L_1R_5g_m\right) + s\left(C_2R_2 + C_2R_5 + C_5R_5 + 2L_1g_m\right) + 1}
10.467 INVALID-ORDER-467 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                  H(s) = \frac{L_1 g_m + s^2 \left( C_2 C_5 L_1 R_2 R_5 g_m - C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_5 \right) + s \left( C_2 L_1 R_2 g_m + C_2 L_1 + C_5 L_1 R_5 g_m - C_5 L_1 \right)}{C_2 + C_5 + s^3 \left( C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_1 R_5 \right) + s^2 \left( C_1 C_2 L_1 + C_1 C_5 L_1 + 2 C_2 C_5 L_1 R_2 g_m + 4 C_2 C_5 L_1 \right) + s \left( C_2 C_5 R_2 + C_2 C_5 R_5 + 2 C_5 L_1 g_m \right)}
10.468 INVALID-ORDER-468 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                  H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_5 L_1 L_5 R_2 g_m + C_2 C_5 L_1 L_5\right) + s^2 \left(-C_2 C_5 L_1 R_2 + C_5 L_1 L_5 g_m\right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 - C_5 L_1\right)}{C_1 C_2 C_5 L_1 L_5 s^4 + C_1 C_2 C_5 L_1 R_2 s^3 + C_2 + C_5 + s^2 \left(C_1 C_2 L_1 + C_1 C_5 L_1 + 2 C_2 C_5 L_1 R_2 g_m + 4 C_2 C_5 L_1 + C_2 C_5 L_5\right) + s \left(C_2 C_5 R_2 + 2 C_5 L_1 g_m\right)}
10.469 INVALID-ORDER-469 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
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10.470 INVALID-ORDER-470 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                        H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_5 L_1 L_5 R_2 g_m + C_2 C_5 L_1 L_5\right) + s^2 \left(C_2 C_5 L_1 R_2 R_5 g_m - C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_5 + C_5 L_1 L_5 g_m\right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_1 C_2 C_5 L_1 L_5 s^4 + C_2 + C_5 + s^3 \left(C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_1 R_5\right) + s^2 \left(C_1 C_2 L_1 + C_1 C_5 L_1 + 2 C_2 C_5 L_1 R_2 g_m + 4 C_2 C_5 L_1 + C_2 C_5 L_5\right) + s \left(C_2 C_5 R_2 + C_2 C_5 R_5 + 2 C_5 L_1 g_m\right)}
10.471 INVALID-ORDER-471 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_5R_2R_5s^4 - L_1R_5s + s^3\left(C_2L_1L_5R_2R_5g_m - C_2L_1L_5R_2 + C_2L_1L_5R_5 - C_5L_1L_5R_5\right) + s^2\left(-C_2L_1R_2R_5 + L_1L_5R_5g_m - L_1L_5\right)}{C_1C_2C_5L_1L_5R_2R_5s^5 + R_5 + s^4\left(C_1C_2L_1L_5R_2 + C_1C_2L_1L_5R_5 + C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_2L_1R_2R_5 + C_1L_1L_5 + C_2C_5L_5R_2R_5 + 2C_2L_1L_5R_2g_m + 4C_2L_1L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5R_5 + C_1C_2L_1R_5R_5 + C_1C_2L_1R_5 +
10.472 INVALID-ORDER-472 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.473 INVALID-ORDER-473 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.474 INVALID-ORDER-474 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                              H(s) = \frac{C_2 L_1 R_5 s^2 + s^3 \left( C_2 L_1 L_2 R_5 g_m - C_2 L_1 L_2 \right) + s \left( L_1 R_5 g_m - L_1 \right)}{C_1 C_2 L_1 L_2 s^4 + s^3 \left( C_1 C_2 L_1 R_5 + 2 C_2 L_1 L_2 g_m \right) + s^2 \left( C_1 L_1 + 4 C_2 L_1 + C_2 L_2 \right) + s \left( C_2 R_5 + 2 L_1 g_m \right) + 1}
10.475 INVALID-ORDER-475 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                      H(s) = \frac{-C_2C_5L_1L_2s^3 + C_2L_1L_2g_ms^2 + L_1g_m + s\left(C_2L_1 - C_5L_1\right)}{C_1C_2C_5L_1L_2s^4 + 2C_2C_5L_1L_2g_ms^3 + C_2 + 2C_5L_1g_ms + C_5 + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 4C_2C_5L_1 + C_2C_5L_2\right)}
10.476 INVALID-ORDER-476 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                            H(s) = \frac{-C_2C_5L_1L_2R_5s^4 + s^3\left(C_2L_1L_2R_5g_m - C_2L_1L_2\right) + s^2\left(C_2L_1R_5 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_2C_5L_1L_2R_5s^5 + s^4\left(C_1C_2L_1L_2 + 2C_2C_5L_1L_2R_5g_m\right) + s^3\left(C_1C_2L_1R_5 + C_1C_5L_1R_5 + 4C_2C_5L_1R_5 + 2C_2L_1L_2g_m\right) + s^2\left(C_1L_1 + 4C_2L_1 + C_2L_2 + 2C_5L_1R_5g_m\right) + s\left(C_2R_5 + C_5R_5 + 2L_1g_m\right) + 1}
10.477 INVALID-ORDER-477 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                     H(s) = \frac{L_1 g_m + s^3 \left( C_2 C_5 L_1 L_2 R_5 g_m - C_2 C_5 L_1 L_2 \right) + s^2 \left( C_2 C_5 L_1 R_5 + C_2 L_1 L_2 g_m \right) + s \left( C_2 L_1 + C_5 L_1 R_5 g_m - C_5 L_1 \right)}{C_1 C_2 C_5 L_1 L_2 s^4 + C_2 + C_5 + s^3 \left( C_1 C_2 C_5 L_1 R_5 + 2 C_2 C_5 L_1 L_2 g_m \right) + s^2 \left( C_1 C_2 L_1 + C_1 C_5 L_1 + 4 C_2 C_5 L_1 + C_2 C_5 L_2 \right) + s \left( C_2 C_5 R_5 + 2 C_5 L_1 g_m \right)}
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$$\begin{aligned} \textbf{10.478} \quad \textbf{INVALID-ORDER-478} \ \ Z(s) &= \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right) \\ & H(s) &= \frac{C_2 C_5 L_1 L_2 L_5 g_m s^4 + L_1 g_m + s^3 \left(-C_2 C_5 L_1 L_2 + C_2 C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 L_2 g_m + C_5 L_1 L_5 g_m\right) + s \left(C_2 L_1 - C_5 L_1\right) }{2 C_2 C_5 L_1 L_2 g_m s^3 + C_2 + 2 C_5 L_1 g_m s + C_5 + s^4 \left(C_1 C_2 C_5 L_1 L_2 + C_1 C_2 C_5 L_1 L_5\right) + s^2 \left(C_1 C_2 L_1 + C_1 C_5 L_1 + 4 C_2 C_5 L_1 + C_2 C_5 L_2 + C_2 C_5 L_5\right)} \end{aligned}$$

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10.479 INVALID-ORDER-479 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                            H(s) = \frac{-C_2C_5L_1L_2L_5s^5 + C_2L_1L_2L_5g_ms^4 + L_1L_5g_ms^2 - L_1s + s^3\left(-C_2L_1L_2 + C_2L_1L_5 - C_5L_1L_5\right)}{C_1C_2C_5L_1L_2L_5s^6 + 2C_2C_5L_1L_2L_5g_ms^5 + 2L_1g_ms + s^4\left(C_1C_2L_1L_2 + C_1C_2L_1L_5 + C_1C_5L_1L_5 + 4C_2C_5L_1L_5 + C_2C_5L_2L_5\right) + s^3\left(2C_2L_1L_2g_m + 2C_5L_1L_5g_m\right) + s^2\left(C_1L_1 + 4C_2L_1 + C_2L_2 + C_2L_5 + C_5L_5\right) + 1}
10.480 INVALID-ORDER-480 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                              H(s) = \frac{C_2C_5L_1L_2L_5g_ms^4 + L_1g_m + s^3\left(C_2C_5L_1L_2R_5g_m - C_2C_5L_1L_2 + C_2C_5L_1L_5\right) + s^2\left(C_2C_5L_1R_5 + C_2L_1L_2g_m + C_5L_1L_5g_m\right) + s\left(C_2L_1 + C_5L_1R_5g_m - C_5L_1\right)}{C_2 + C_5 + s^4\left(C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5\right) + s^3\left(C_1C_2C_5L_1R_5 + 2C_2C_5L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 4C_2C_5L_1 + C_2C_5L_2 + C_2C_5L_5\right) + s\left(C_2C_5R_5 + 2C_5L_1g_m\right)}
10.481 INVALID-ORDER-481 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2L_5R_5s^5 - L_1R_5s + s^4\left(C_2L_1L_2L_5R_5g_m - C_2L_1L_2L_5\right) + s^3\left(-C_2L_1L_2R_5 + C_2L_1L_5R_5 - C_5L_1L_5R_5\right) + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{C_1C_2C_5L_1L_2L_5R_5s^6 + R_5 + s^5\left(C_1C_2L_1L_2L_5 + 2C_2C_5L_1L_2L_5R_5g_m\right) + s^4\left(C_1C_2L_1L_2R_5 + C_1C_5L_1L_5R_5 + 4C_2C_5L_1L_5R_5 + 4C
10.482 INVALID-ORDER-482 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_2 C_5 L_1 L_2 L_5\right) + s^4 \left(C_2 C_5 L_1 L_2 L_5 g_m\right) + s^3 \left(C_2 L_1 L_2 L_5 g_m\right) + s^3 \left(C_2 L_1 L_2 R_5 g_m - C_2 L_1 L_2 + C_2 L_1 L_5 + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_2 L_1 R_5 + L_1 L_5 g_m\right) + s \left(L_1 R_5 g_m - L_1\right)}{C_1 C_2 C_5 L_1 L_2 L_5 s^6 + s^5 \left(C_1 C_2 C_5 L_1 L_2 L_5 g_m\right) + s^4 \left(C_1 C_2 L_1 L_2 + C_1 C_2 L_1 L_5 + C_1 C_5 L_1 L_5 + C_2 C_5 L_2 L_5\right) + s^3 \left(C_1 C_2 L_1 R_5 + C_2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + 4 C_2 L_1 + C_2 L_2 + C_2 L_5 + C_5 L_5\right) + s \left(C_2 R_5 + 2 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_5 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_5 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_5 L_5\right) + s^2 \left(C_3 L_1 L_5 R_5 g_m - C_5 L_5 L_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 L_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 L_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 L_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 L_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_5 g_m - C_5 L_5 R_5\right) 
10.483 INVALID-ORDER-483 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                 s^{5} \left(C_{2} C_{5} L_{1} L_{2} L_{5} R_{5} g_{m}-C_{2} C_{5} L_{1} L_{2} L_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{5}\right)+s^{3} \left(C_{2} L_{1} L_{2} R_{5} g_{m}-C_{2} L_{1} L_{2}+C_{5} L_{1} L_{5} R_{5} g_{m}-C_{5} L_{1} L_{5}\right)+s^{2} \left(C_{2} L_{1} R_{5}-C_{5} L_{1} R_{5}\right)+s^{2} \left(C_{2} L_{1} R_{5}-C_{5} L_{1} L_{5}\right)+s^{2} \left(C_{2} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{5}\right)+s^{2} \left(C_{2} L_{1} L_{5} R_{5}+C_{2} L_{5} L_{5}\right)+s^{2} \left(C_{2} L_{1} L_{5} R_{5}+C_{2} L_{5} L_{5}\right)+s^{2} \left(C_{2} L_{1} L_{5} R_{5}+C_{2} L_{5} L_{5}\right)+s^{2} \left(C_{2} L_{1} L_{5}
10.484 INVALID-ORDER-484 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                                                   H(s) = \frac{s^3 \left(C_2 L_1 L_2 R_5 g_m - C_2 L_1 L_2\right) + s^2 \left(C_2 L_1 R_2 R_5 g_m - C_2 L_1 R_2 + C_2 L_1 R_5\right) + s \left(L_1 R_5 g_m - L_1\right)}{C_1 C_2 L_1 L_2 s^4 + s^3 \left(C_1 C_2 L_1 R_2 + C_1 C_2 L_1 R_5 + 2 C_2 L_1 L_2 g_m\right) + s^2 \left(C_1 L_1 + 2 C_2 L_1 R_2 g_m + 4 C_2 L_1 + C_2 L_2\right) + s \left(C_2 R_2 + C_2 R_5 + 2 L_1 g_m\right) + 1}
10.485 INVALID-ORDER-485 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                       H(s) = \frac{-C_2C_5L_1L_2s^3 + L_1g_m + s^2\left(-C_2C_5L_1R_2 + C_2L_1L_2g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 - C_5L_1\right)}{C_1C_2C_5L_1L_2s^4 + C_2 + C_5 + s^3\left(C_1C_2C_5L_1R_2 + 2C_2C_5L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 2C_2C_5L_1R_2g_m + 4C_2C_5L_1 + C_2C_5L_2\right) + s\left(C_2C_5R_2 + 2C_5L_1g_m\right)}
10.486 INVALID-ORDER-486 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2R_5s^4 + s^3\left(-C_2C_5L_1R_2R_5 + C_2L_1L_2R_5g_m - C_2L_1L_2\right) + s^2\left(C_2L_1R_2R_5g_m - C_2L_1R_2 + C_2L_1R_5 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_2C_5L_1L_2R_5s^5 + s^4\left(C_1C_2C_5L_1R_2R_5 + C_1C_2L_1L_2 + 2C_2C_5L_1L_2R_5g_m\right) + s^3\left(C_1C_2L_1R_5 + C_1C_5L_1R_5 + 2C_2C_5L_1R_5 + 2C_2C_
10.487 INVALID-ORDER-487 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
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 $H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_5 L_1 L_2 R_5 g_m - C_2 C_5 L_1 L_2\right) + s^2 \left(C_2 C_5 L_1 R_2 R_5 g_m - C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_5 + C_2 L_1 L_2 g_m\right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_1 C_2 C_5 L_1 L_2 s^4 + C_2 + C_5 + s^3 \left(C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_1 R_5 + 2 C_2 C_5 L_1 L_2 g_m\right) + s^2 \left(C_1 C_2 L_1 + C_1 C_5 L_1 + 2 C_2 C_5 L_1 R_2 g_m + 4 C_2 C_5 L_1 + C_2 C_5 L_2\right) + s \left(C_2 C_5 R_2 + C_2 C_5 R_5 + 2 C_5 L_1 g_m\right)}$

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10.488 INVALID-ORDER-488 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                      H(s) = \frac{C_2C_5L_1L_2L_5g_ms^4 + L_1g_m + s^3\left(-C_2C_5L_1L_2 + C_2C_5L_1L_5R_2g_m + C_2C_5L_1L_5\right) + s^2\left(-C_2C_5L_1R_2 + C_2L_1L_2g_m + C_5L_1L_5g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 - C_5L_1\right)}{C_2 + C_5 + s^4\left(C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5\right) + s^3\left(C_1C_2C_5L_1R_2 + 2C_2C_5L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 2C_2C_5L_1R_2g_m + 4C_2C_5L_1 + C_2C_5L_2 + C_2C_5L_5\right) + s\left(C_2C_5R_2 + 2C_5L_1g_m\right)}
10.489 INVALID-ORDER-489 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2L_5s^5 - L_1s + s^4\left(-C_2C_5L_1L_5R_2 + C_2L_1L_2L_5g_m\right) + s^3\left(-C_2L_1L_2 + C_2L_1L_5 + C_2L_1L_5 - C_5L_1L_5\right) + s^2\left(-C_2L_1R_2 + L_1L_5g_m\right)}{C_1C_2C_5L_1L_2L_5s^6 + s^5\left(C_1C_2C_5L_1L_5R_2 + 2C_2C_5L_1L_5R_2 + 2C_2C_5L_1L_5 + C_1C_5L_1L_5 + 2C_2C_5L_1L_5 + 2C_2C_5L_1L_5 + C_2C_5L_2L_5\right) + s^3\left(C_1C_2L_1R_2 + C_2C_5L_1L_5R_2 + 2C_2C_5L_1L_5R_2 + 2C_2C_5L_1L_5R_2
10.490 INVALID-ORDER-490 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                       H(s) = \frac{C_2C_5L_1L_2L_5g_ms^4 + L_1g_m + s^3\left(C_2C_5L_1L_2R_5g_m - C_2C_5L_1L_2 + C_2C_5L_1L_5R_2g_m + C_2C_5L_1L_5\right) + s^2\left(C_2C_5L_1R_2R_5g_m - C_2C_5L_1R_2 + C_2C_5L_1R_5 + C_2L_1L_2g_m + C_5L_1L_5g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 + C_5L_1R_5g_m - C_5L_1\right)}{C_2 + C_5 + s^4\left(C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5\right) + s^3\left(C_1C_2C_5L_1R_5 + 2C_2C_5L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_5L_1 + 2C_2C_5L_1R_2g_m + 4C_2C_5L_1 + C_2C_5L_2 + C_2C_5L_5\right) + s\left(C_2C_5R_5 + 2C_5L_1g_m\right)}
10.491 INVALID-ORDER-491 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2L_5R_5s^5 - L_1R_5s + s^4\left(-C_2C_5L_1L_5R_2R_5 + C_2L_1L_2L_5R_5g_m - C_2L_1L_2L_5\right) + s^3\left(-C_2L_1L_2R_5 + C_2L_1L_5R_5g_m - C_2L_1L_2L_5\right) + s^3\left(-C_2L_1L_2R_5 + C_2L_1L_5R_5g_m - C_2L_1L_2R_5 + C_2L_1L_2R_5 + C_2L_1L_5R_5g_m - C_2L_1L_5R_5g
10.492 INVALID-ORDER-492 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_2 C_5 L_1 L_5 R_5 g_m - C_2 C_5 L_1 L_5 R_2 R_5 g_m - C_2 C_5 L_1 L_5 R_5 g_m - C_2 C_5 L_1 L_5 R_5 g_m - C_2 C_5 L_1 L_5 R_5 g_m - C_2 L_1 L_5 R_5 g_m - C_2 L_1 L_5 R_5 g_m - C_5 L_5 R_5 g_m
10.493 INVALID-ORDER-493 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
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$$\begin{aligned} \textbf{10.494} \quad \textbf{INVALID-ORDER-494} \ \ Z(s) &= \left(\frac{L_1s}{C_1L_1s^2+1}, \ \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \ \infty, \ \infty, \ \infty, \ R_5, \ \infty\right) \\ & H(s) &= \frac{s^3\left(C_2L_1L_2R_2R_5g_m - C_2L_1L_2R_2 + C_2L_1L_2R_5\right) + s^2\left(L_1L_2R_5g_m - L_1L_2\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{R_2 + R_5 + s^4\left(C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_5\right) + s^3\left(C_1L_1L_2 + 2C_2L_1L_2R_2g_m + 4C_2L_1L_2\right) + s^2\left(C_1L_1R_2 + C_1L_1R_5 + C_2L_2R_2 + C_2L_2R_5 + 2L_1L_2g_m\right) + s\left(2L_1R_2g_m + 4L_1 + L_2\right)} \end{aligned} \\ \textbf{10.495} \quad \textbf{INVALID-ORDER-495} \ \ Z(s) &= \left(\frac{L_1s}{C_1L_1s^2+1}, \ \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \ \infty, \ \infty, \ \frac{1}{C_5s}, \ \infty\right) \\ H(s) &= \frac{-C_2C_5L_1L_2R_2s^4 + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2 - C_5L_1L_2\right) + s^2\left(-C_5L_1R_2 + L_1L_2g_m\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_5L_1L_2R_2s^5 + C_5R_2s + s^4\left(C_1C_2L_1L_2 + C_1C_5L_1L_2 + 2C_2C_5L_1L_2R_2g_m + 4C_2C_5L_1L_2\right) + s^3\left(C_1C_5L_1R_2 + C_2C_5L_1L_2g_m\right) + s^2\left(C_1L_1 + C_2L_2 + 2C_5L_1R_2g_m + 4C_5L_1 + C_5L_2\right) + 1} \end{aligned}$$

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10.497 INVALID-ORDER-497 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^4 \left(C_2 C_5 L_1 L_2 R_2 R_5 g_m - C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2 \right) \\ + s^2 \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5 + L_1 L_2 g_m \right) \\ + s \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5 + L_1 L_2 g_m \right) \\ + s \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_5 + L_1 L_2 g_m \right) \\ + s \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_5 + L_1 L_2 g_m \right) \\ + s \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_5 + L_1 L_2 g_m \right) \\ + s \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_5 + L_1 L_2 g_m \right) \\ + s \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m - C_5 L_1 R_5 g_m 
10.498 INVALID-ORDER-498 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 L_5\right) + s^4 \left(-C_2 C_5 L_1 L_2 L_5 g_m\right) + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 - C_5 L_1 L_2 + C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5\right) + s^2 \left(-C_5 L_1 R_2 + L_1 L_2 g_m\right) + s \left(L_1 R_2 g_m + L_1\right)}{C_1 C_2 C_5 L_1 L_2 L_2 s^5 + C_1 C_2 C_5 L_1 L_2 + C_1 C_5 L_1 L_2 + C_2 C_5 L_1 L_2 R_2 g_m + 4 C_2 C_5 L_1 L_2 + C_2 C_5 L_1 L_2 R_2 g_m + 4 C_2 C_5 L_1 L_2 R_2 g_m + 4 C_2 C_5 L_1 L_2 R_2 g_m + 4 C_2 C_5 L_1 L_2 R_2 g_m + C_2 L_1 
10.499 INVALID-ORDER-499 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \infty, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2L_5R_2s^5 - L_1R_2s + s^4\left(C_2L_1L_2L_5R_2g_m + C_2L_1L_2L_5 - C_5L_1L_2L_5\right) + s^3\left(-C_2L_1L_2R_2 - C_5L_1L_5R_2 + L_1L_2L_5g_m\right) + s^2\left(-L_1L_2 + L_1L_5R_2g_m + L_1L_2L_5R_2g_m + L_1L_2L_5R_2g_m\right)}{C_1C_2C_5L_1L_2L_5R_2s^6 + R_2 + s^5\left(C_1C_2L_1L_2L_5 + C_2C_5L_1L_2L_5 + C_2C_5L_1L_2L_5R_2g_m + 4C_2C_5L_1L_2L_5R_2g_m + 4C_2C_5L_1L_2R_2g_m + 4C_2C_5L_
10.500 INVALID-ORDER-500 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 L_5\right) + s^4 \left(C_2 C_5 L_1 L_2 R_2 g_m - C_2 C_5 L_1 L_2 R_5 + C_5 L_1 L_2 R_5 g_m - C_5 L_1 L_2 R_5 g_m + C_5 L_1 L_2 R_5 g_m - C_5 L_1
10.501 INVALID-ORDER-501 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -C_{2}C_{5}L_{1}L_{2}L_{5}R_{2}R_{5}s^{5}-L_{1}R_{2}R_{5}s+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{2}R_{5}g_{m}-C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{2}L_{2}+C_{2}L_{1}L_{2}L_{2}+C_{2}L_{1}L_{2}L_{2}+C_{2}L_{1}L_{2}L_{2}+C_{2}L_{1}L_{2}+C_{2}L_{2}+C_{2}L_{1}L_{2}+C_{2}L_{2}+C_{2}L_{1}L_{2}+C_{2}L_{2}+C_{2}L_{1}L_{2}+C_{2}L_{2}+C_{2}L_{1}L_{2}+C_{2}L_{2}+C_{2}L_{1}+C_{2}L_{2}+C_{2}L_{1}+C_{2}L_{2}+C_{2}L_{1}+C_{2}L_{2}+C_{2}L_{1}+C_{2}L_{1}+C_{2}L_{2}+C_{2}L_
H(s) = \frac{C_2C_5L_1L_2L_5R_2R_5s^6 + R_2R_5 + s^5\left(C_1C_2L_1L_2L_5R_2 + C_1C_2L_1L_2L_5R_5 + C_1C_5L_1L_2L_5R_5 + s^4\left(C_1C_2L_1L_2R_2R_5 + C_1C_5L_1L_2L_5R_5 + s^4\left(C_1C_2L_1L_2R_2R_5 + C_1C_5L_1L_2L_5R_2 + C_1C_5L_1L_2L_5R_5 + s^4\left(C_1C_2L_1L_2R_2R_5 + C_1C_5L_1L_2L_5R_2 + C_1C_5L_1L_2L_5R_2 + s^4\left(C_1C_2L_1L_2R_3R_5 + C_1C_5L_1L_2L_5R_3 + s^4\left(C_1C_2L_1L_2R_3R_5 + C_1C_5L_1L_2R_3R_5 + c^4\left(C_1C_2L_1L_2R_3R_5 + c^
10.502 INVALID-ORDER-502 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m - C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 L_1 L_2 L_5 R_2 g_m + C_2 L_1 L_2 L_5 R_2 g_m - C_5 L_1 L_2 L_5 R_2
10.503 INVALID-ORDER-503 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   H(s) = \frac{s + (C_1C_5L_1L_2L_5R_2 + C_1C_5L_1L_2L_5R_2 + C_1C_5L_1L_2R_2 + C_1C_5L_
10.504 INVALID-ORDER-504 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                  H(s) = \frac{C_2L_1R_2R_5s^2 + s^3\left(C_2L_1L_2R_2R_5g_m - C_2L_1L_2R_2 + C_2L_1L_2R_5\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{R_2 + R_5 + s^4\left(C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_5\right) + s^3\left(C_1C_2L_1R_2R_5 + 2C_2L_1L_2R_2g_m + 4C_2L_1L_2\right) + s^2\left(C_1L_1R_2 + C_1L_1R_5 + 4C_2L_1R_2 + C_2L_2R_5\right) + s\left(C_2R_2R_5 + 2L_1R_2g_m + 4L_1\right)}
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 $H(s) = \frac{-C_2C_5L_1L_2R_2s^4 + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2\right) + s^2\left(C_2L_1R_2 - C_5L_1R_2\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_5L_1L_2R_2s^5 + s^4\left(C_1C_2L_1L_2 + 2C_2C_5L_1L_2R_2g_m + 4C_2C_5L_1L_2\right) + s^3\left(C_1C_2L_1R_2 + C_1C_5L_1R_2 + 4C_2C_5L_1R_2 + C_2C_5L_2R_2\right) + s^2\left(C_1L_1 + C_2L_2 + 2C_5L_1R_2g_m + 4C_5L_1\right) + s\left(C_2R_2 + C_5R_2\right) + 1}$

10.505 INVALID-ORDER-505 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

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H(s) = \frac{-C_2C_5L_1L_2R_2R_5s^4 + s^3\left(C_2L_1L_2R_2S_5g_m - C_2L_1L_2R_2 + C_2L_1L_2R_5\right) + s^2\left(C_2L_1R_2R_5 - C_5L_1R_2R_5\right) + s\left(L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{C_1C_2C_5L_1L_2R_2S_5^5 + R_2 + R_5 + s^4\left(C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_5 + 2C_2C_5L_1L_2R_5\right) + s^3\left(C_1C_2L_1R_2R_5 + C_2C_5L_1R_2R_5 + 4C_2C_5L_1R_2R_5 + 4C_2C_5L
10.507 INVALID-ORDER-507 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^4 \left(C_2 C_5 L_1 L_2 R_2 F_5 g_m - C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + S^2 \left(C_2 L_1 R_2 + C_5 L_1 R_2 F_5 g_m - C_5 L_1 R_2 + C_5
10.508 INVALID-ORDER-508 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5 \right) + s^2 \left(C_2 L_1 R_2 - C_5 L_1 R_2 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{C_1 C_2 C_5 L_1 L_2 L_5 s^6 + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_5 L_1 L_2 + C_1 C_5 L_1 L_2 + C_2 C_5 L_1 L_2 R_2 g_m + 4 C_2 C_5 L_1 L_2 + C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_2 + C_2 C_5 L_2 R_2 + C_2 C_5 L_1 R
10.509 INVALID-ORDER-509 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                    \frac{-C_2C_5L_1L_2L_5R_2s^5-L_1R_2s+s^4\left(C_2L_1L_2L_5R_2g_m+C_2L_1L_2L_5\right)+s^3\left(-C_2L_1L_2R_2+C_2L_1L_5R_2-C_5L_1L_5R_2\right)+s^2\left(L_1L_5R_2g_m+L_1L_5\right)}{C_1C_2C_5L_1L_2L_5R_2s^6+R_2+s^5\left(C_1C_2L_1L_2L_5+2C_2C_5L_1L_2L_5\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_5L_1L_5R_2+C_1C_5L_1L_5R_2+C_2C_5L_1L_5R_2\right)+s^3\left(C_1L_1L_5+2C_2L_1L_2R_2g_m+4C_2L_1L_2+C_2L_2L_5\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2+C_1C_5L_1L_5R_2+C_2C_5L_1L_5R_2\right)+s^3\left(C_1L_1L_5+2C_2L_1L_2R_2+C_2L_1L_5R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_5R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_2R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_2R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_2R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_1L_2R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_2R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_2R_2\right)+s^4\left(C_1C_2L_1L_2R_2+C_1C_2L_2R_2\right)+s
10.510 INVALID-ORDER-510 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 R_5 g_m - C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_5 + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5 \right) + s^2 \left(C_2 L_1 L_2 R_5 + C_1 C_2 C_5 L_1 L_2 R_5 + 
10.511 INVALID-ORDER-511 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -C_{2}C_{5}L_{1}L_{2}L_{5}R_{2}R_{5}s^{5}-L_{1}R_{2}R_{5}s+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{2}R_{5}g_{m}-C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{5}R_{2}+C_{2}L_{1}L_{2}L_{2}L_{2}+C_{2}L_{1}L_{2}L_{2}+C_{2}L_{1}L_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2
H(s) = \frac{-C_2C_5L_1L_2L_5R_2R_5s^6 - L_1R_2R_5s + s \cdot (C_2L_1L_2L_5R_2R_5g_m - C_2L_1L_2L_5R_2R_5g_m - C_2L_1L_2L_5R_2R_5g_m - C_2L_1L_2L_5R_2R_5g_m - C_2L_1L_2L_5R_2R_5g_m - C_2L_1L_2L_5R_2R_5g_m - C_2L_1L_2L_5R_2R_5g_m - C_2L_1L_2L_5R_2g_m - C_2L_1L_2L_5R_2
10.512 INVALID-ORDER-512 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.513 INVALID-ORDER-513 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    s^{5} \left(C_{2} C_{5} L_{1} L_{2} L_{5} R_{2} R_{5} g_{m}-C_{2} C_{5} L_{1} L_{2} L_{5} R_{2}+C_{2} C_{5} L_{1} L_{2} L_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{2} R_{5}+C_{2} C_{5} L_{1} L_{2} L_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} L_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} L_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} L_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5}+C_{2} R_{5} R_{5}+C_{2} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{5}+C_{2} R_{5}\right)+s^{4} \left
                                                 \frac{s \cdot (c_2c_5L_1L_2L_5R_2+c_1c_2L_5L_2L_5R_3-c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2L_5R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c_2c_5L_1L_2R_3+c
10.514 INVALID-ORDER-514 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           H(s) = \frac{-C_1C_5L_1R_2s^3 + R_2g_m + s^2\left(-C_1C_5R_1R_2 + C_1L_1R_2g_m + C_1L_1\right) + s\left(C_1R_1R_2g_m + C_1R_1 - C_5R_2\right) + 1}{s^3\left(2C_1C_5L_1R_2g_m + 4C_1C_5L_1\right) + s^2\left(2C_1C_5R_1R_2g_m + 4C_1C_5R_1 + C_1C_5R_2\right) + s\left(C_1 + 2C_5R_2g_m + 4C_5\right)}
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10.506 INVALID-ORDER-506 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

10.515 INVALID-ORDER-515
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_2R_5s^3 + R_2R_5g_m - R_2 + R_5 + s^2\left(-C_1C_5R_1R_2R_5 + C_1L_1R_2R_5g_m - C_1L_1R_2 + C_1L_1R_5\right) + s\left(C_1R_1R_2R_5g_m - C_1R_1R_2 + C_1R_1R_5 - C_5R_2R_5\right)}{2R_2g_m + s^3\left(2C_1C_5L_1R_2R_5g_m + 4C_1C_5L_1R_5\right) + s^2\left(2C_1C_5R_1R_2R_5g_m + 4C_1C_5R_1R_5 + C_1C_5R_2R_5 + 2C_1L_1R_2g_m + 4C_1L_1\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 2C_5R_2R_5g_m + 4C_5R_5\right) + 4C_5R_5 + C_5R_5R_5$$

10.516 INVALID-ORDER-516
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_5 L_1 R_2 R_5 g_m - C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 C_5 R_1 R_2 R_5 g_m - C_1 C_5 R_1 R_2 + C_1 C_5 R_1 R_5 + C_1 L_1 R_2 g_m + C_1 L_1\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_5 R_2 R_5 g_m - C_5 R_2 + C_5 R_5\right) + 1}{s^3 \left(2 C_1 C_5 L_1 R_2 g_m + 4 C_1 C_5 L_1\right) + s^2 \left(2 C_1 C_5 R_1 R_2 g_m + 4 C_1 C_5 R_1 + C_1 C_5 R_2 + C_1 C_5 R_5\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5\right)}$$

10.517 INVALID-ORDER-517
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_5 L_1 L_5 R_2 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(-C_1 C_5 L_1 R_2 + C_1 C_5 L_5 R_1 R_2 g_m + C_1 C_5 L_5 R_1\right) + s^2 \left(-C_1 C_5 R_1 R_2 + C_1 L_1 R_2 g_m + C_1 L_1 + C_5 L_5 R_2 g_m + C_5 L_5\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 - C_5 R_2\right) + 1}{s^3 \left(2C_1 C_5 L_1 R_2 g_m + 4C_1 C_5 L_1 + C_1 C_5 L_5\right) + s^2 \left(2C_1 C_5 R_1 R_2 g_m + 4C_1 C_5 R_1 + C_1 C_5 R_2\right) + s \left(C_1 + 2C_5 R_2 g_m + 4C_5\right)}$$

10.518 INVALID-ORDER-518
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_2s^4 - R_2 + s^3\left(-C_1C_5L_5R_1R_2 + C_1L_1L_5R_2g_m + C_1L_1L_5\right) + s^2\left(-C_1L_1R_2 + C_1L_5R_1R_2g_m + C_1L_5R_1 - C_5L_5R_2\right) + s\left(-C_1R_1R_2 + L_5R_2g_m + L_5\right)}{2R_2g_m + s^4\left(2C_1C_5L_1L_5R_2g_m + 4C_1C_5L_1L_5\right) + s^3\left(2C_1C_5L_5R_1R_2g_m + 4C_1C_5L_5R_2\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5 + 2C_5L_5R_2g_m + 4C_5L_5\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1 + C_1L_5\right) + s^2\left(2C_1L_1R_2g_m + 4C_1L_1\right) + s^2\left(2C_1L_$$

10.519 INVALID-ORDER-519
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_5 L_1 L_5 R_2 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(C_1 C_5 L_1 R_2 R_5 g_m - C_1 C_5 L_1 R_2 + C_1 C_5 R_1 R_2$$

10.520 INVALID-ORDER-520
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_2R_5s^4 - R_2R_5 + s^3\left(-C_1C_5L_5R_1R_2R_5 + C_1L_1L_5R_2R_5g_m - C_1L_1L_5R_2 + C_1L_1L_5R_2 + C_1L_1R_2R_5 + C_1$$

10.521 INVALID-ORDER-521
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_2R_5g_m - R_2 + R_5 + s^4\left(C_1C_5L_1L_5R_2R_5g_m - C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1L_1L_5R_2g_m + C_1L_1L_5\right) + s^2\left(C_1L_1R_2R_5g_m - C_1L_1R_2 + C_1L_1R_5 + C_1L_1R$$

10.522 INVALID-ORDER-522
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^4 \left(C_1 C_5 L_1 L_5 R_2 R_5 g_m - C_1 C_5 L_1 L_5 R_2 + C_1 C_5 L_1 L_5 R_2 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_5 R_1 R_2 R_5 g_m - C_1 C_5 L_5 R_1 R_2 + C_1 C_5 L_5 R_1 R_2 R_5 g_m - C_1 L_1 R_2 R_5 g_m - C_1 L_1 R_2 + C_1 L_1 R_5 + C_5 L_5 R_2 R_5 g_m - C_5 L_5 R_5 R_5 g_m - C_5 L_5$$

10.523 INVALID-ORDER-523
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1R_5s^3 + R_5g_m + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_5\right) - 1}{4C_1C_2L_1s^3 + 2g_m + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1L_1g_m\right) + s\left(2C_1R_1g_m + C_1 + 4C_2\right)}$$

10.524 INVALID-ORDER-524 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{g_m + s^3 \left(C_1 C_2 L_1 - C_1 C_5 L_1 \right) + s^2 \left(C_1 C_2 R_1 - C_1 C_5 R_1 + C_1 L_1 g_m \right) + s \left(C_1 R_1 g_m + C_2 - C_5 \right)}{4 C_1 C_2 C_5 L_1 s^4 + 2 C_5 g_m s + s^3 \left(4 C_1 C_2 C_5 R_1 + 2 C_1 C_5 L_1 g_m \right) + s^2 \left(C_1 C_2 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 4 C_2 C_5 \right)}$$

10.525 INVALID-ORDER-525 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_5g_m + s^3\left(C_1C_2L_1R_5 - C_1C_5L_1R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_5 - C_5R_5\right) - 1}{4C_1C_2C_5L_1R_5s^4 + 2g_m + s^3\left(4C_1C_2C_5R_1R_5 + 4C_1C_2L_1 + 2C_1C_5L_1R_5g_m\right) + s^2\left(4C_1C_2R_1 + C_1C_2R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5 + 2C_1L_1g_m + 4C_2C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 4C_2 + 2C_5R_5g_m\right)}$$

10.526 INVALID-ORDER-526 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1R_5s^4 + g_m + s^3\left(C_1C_2C_5R_1R_5 + C_1C_2L_1 + C_1C_5L_1R_5g_m - C_1C_5L_1\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1L_1g_m + C_2C_5R_5\right) + s\left(C_1R_1g_m + C_2 + C_5R_5g_m - C_5\right)}{4C_1C_2C_5L_1s^4 + 2C_5g_ms + s^3\left(4C_1C_2C_5R_1 + C_1C_2C_5R_5 + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 4C_2C_5\right)}$$

10.527 INVALID-ORDER-527 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5s^5 + g_m + s^4\left(C_1C_2C_5L_5R_1 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_2L_1 - C_1C_5L_1 + C_1C_5L_5R_1g_m + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 - C_1C_5R_1 + C_1L_1g_m + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_2 - C_5\right)}{2C_5g_ms + s^4\left(4C_1C_2C_5L_1 + C_1C_2C_5L_5\right) + s^3\left(4C_1C_2C_5R_1 + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 4C_2C_5\right)}$$

10.528 INVALID-ORDER-528 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{s^4 \left(C_1 C_2 L_1 L_5 - C_1 C_5 L_1 L_5\right) + s^3 \left(C_1 C_2 L_5 R_1 - C_1 C_5 L_5 R_1 + C_1 L_1 L_5 g_m\right) + s^2 \left(-C_1 L_1 + C_1 L_5 R_1 g_m + C_2 L_5 - C_5 L_5\right) + s \left(-C_1 R_1 + L_5 g_m\right) - 1}{4 C_1 C_2 C_5 L_1 L_5 s^5 + 2 g_m + s^4 \left(4 C_1 C_2 C_5 L_5 R_1 + 2 C_1 C_5 L_1 L_5 g_m\right) + s^3 \left(4 C_1 C_2 L_1 + C_1 C_2 L_5 + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5\right) + s^2 \left(4 C_1 C_2 R_1 + 2 C_1 L_1 g_m + 2 C_5 L_5 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 4 C_2\right)}{4 C_1 C_2 C_5 L_5 R_1 g_m + c_1 C_5 L_5 R_1$$

10.529 INVALID-ORDER-529 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5s^5 + g_m + s^4\left(C_1C_2C_5L_1R_5 + C_1C_2C_5L_5R_1 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_2C_5R_1R_5 + C_1C_2L_1 + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m + C_2C_5L_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1L_1g_m + C_2C_5R_5 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_2C_5R_1 + C_1C_2C_5R_1 + C_1C_2C_5R_1 + C_1C_2C_5R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1R_5g_m - C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1R_5g_m - C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1g_m + C_2C_5R_5\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1g_m + C_1C_5R_$$

10.530 INVALID-ORDER-530 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

10.531 INVALID-ORDER-531 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5R_5s^5 + R_5g_m + s^4\left(C_1C_2C_5L_5R_1R_5 + C_1C_2L_1L_5 + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5\right) + s^3\left(C_1C_2L_1R_5 + C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1 + C_1L_1L_5g_m + C_2C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_2L_5 + C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_1L_5R_1g_m + C_1L_5R_1g_$$

10.532 INVALID-ORDER-532 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{C_1C_2C_5L_1L_5R_5s^5 + R_5g_m + s^4\left(C_1C_2C_5L_5R_1R_5 + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5\right) + s^3\left(C_1C_2L_1R_5 - C_1C_5L_1R_5 + C_1C_5L_5R_1 + C_2C_5L_5R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_5L_5R_5g_m - C_5L_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_5L_5R_5g_m - C_5L_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1C_5R_1R_5 + C_1C_5R_5R_5 + C_1C_5R_5R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1C_5R_5R_5 - C_1C_5R_5R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1C_5R_5R_5 - C_1C_5R_5R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1C_5R_5R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5\right) + s^2\left(C_1C_2R_1R_5\right) + s^2\left(C_1C_2R_$$

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10.533 INVALID-ORDER-533 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                                                                                                H(s) = \frac{C_1C_2L_1R_2R_5s^3 + R_2R_5g_m - R_2 + R_5 + s^2\left(C_1C_2R_1R_2R_5 + C_1L_1R_2R_5g_m - C_1L_1R_2 + C_1L_1R_5\right) + s\left(C_1R_1R_2R_5g_m - C_1R_1R_2 + C_1R_1R_5 + C_2R_2R_5\right)}{4C_1C_2L_1R_2s^3 + 2R_2g_m + s^2\left(4C_1C_2R_1R_2 + C_1C_2R_2R_5 + 2C_1L_1R_2g_m + 4C_1L_1\right) + s\left(2C_1R_1R_2g_m + 4C_1R_1 + C_1R_2 + C_1R_5 + 4C_2R_2\right) + 4}
10.534 INVALID-ORDER-534 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                        H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_2 L_1 R_2 - C_1 C_5 L_1 R_2\right) + s^2 \left(C_1 C_2 R_1 R_2 - C_1 C_5 R_1 R_2 + C_1 L_1 R_2 g_m + C_1 L_1\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_2 R_2 - C_5 R_2\right) + 1}{4 C_1 C_2 C_5 L_1 R_2 s^4 + s^3 \left(4 C_1 C_2 C_5 R_1 R_2 + 2 C_1 C_5 L_1 R_2 g_m + 4 C_1 C_5 L_1\right) + s^2 \left(C_1 C_2 R_2 + 2 C_1 C_5 R_1 R_2 g_m + 4 C_1 C_5 R_1 + C_1 C_5 R_2 + 4 C_2 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 R_2\right) + s \left(C_1 + 2 C_5 R_2 g_m + 4 C_5 R_2\right) + 
10.535 INVALID-ORDER-535 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^3 \left(C_1 C_2 L_1 R_2 R_5 - C_1 C_5 L_1 R_2 R_5 + C_1 L_1 R_2 R_5 g_m - C_1 L_1 R_2 + C_1 L_1 R_5 \right) + s \left(C_1 R_1 R_2 R_5 g_m - C_1 R_1 R_2 + C_1 R_1 R_5 + C_2 R_2 R_5 - C_5 R_2 R_5 \right)}{4 C_1 C_2 C_5 L_1 R_2 R_5 s^4 + 2 R_2 g_m + s^3 \left(4 C_1 C_2 C_5 R_1 R_2 R_5 + 4 C_1 C_2 L_1 R_2 + 2 C_1 C_5 L_1 R_2 R_5 g_m + 4 C_1 C_5 R_1 R_2 + C_1 C_5 R_1 R_5 + C_1 C_5 R_1 R_2 R_5 + 2 C_1 L_1 R_2 g_m + 4 C_1 L_1 + 4 C_2 C_5 R_2 R_5 \right) + s \left(2 C_1 R_1 R_2 g_m + 4 C_1 R_1 R_2 R_5 g_m + 4 C_1 R_2 R_5
10.536 INVALID-ORDER-536 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_1C_2C_5L_1R_2R_5s^4 + R_2g_m + s^3\left(C_1C_2C_5R_1R_2R_5 + C_1C_2L_1R_2 + C_1C_5L_1R_2 + C_1C_5L_1R_2 + C_1C_5L_1R_2 + C_1C_5R_1R_2 + C_1C_5R_1R_
10.537 INVALID-ORDER-537 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_1C_2C_5L_1L_5R_2s^5 + R_2g_m + s^4\left(C_1C_2C_5L_5R_1R_2 + C_1C_5L_1L_5R_2g_m + C_1C_5L_1R_2 + C_1C_5L_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1 + C_2C_5L_5R_2\right) + s^2\left(C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_5L_5R_2g_m + C_5L_5\right) + s\left(C_1R_1R_2g_m + C_1C_5L_1R_2 + C_1C_5L_1R_2 + C_1C_5L_1R_2 + C_1C_5L_5R_1 + C_2C_5L_5R_2\right) + s^2\left(C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_5L_5R_2g_m + C_5L_5\right) + s\left(C_1R_1R_2g_m + C_1C_5L_1R_2 + C_
10.538 INVALID-ORDER-538 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                -R_2 + s^4 \left(C_1 C_2 L_1 L_5 R_2 - C_1 C_5 L_1 L_5 R_2\right) + s^3 \left(C_1 C_2 L_5 R_1 R_2 - C_1 C_5 L_5 R_1 R_2 + C_1 L_1 L_5 R_2 g_m + C_1 L_1 L_5\right) + s^2 \left(-C_1 L_1 R_2 + C_1 L_5 R_1 R_2 g_m + C_1 L_5 R_1 + C_2 L_5 R_2 - C_5 L_5 R_2\right) + s \left(-C_1 R_1 R_2 + L_5 R_2 g_m + L_5\right) + s^2 \left(-C_1 L_1 R_2 + C_1 L_5 R_2 g_m + C_
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10.539 INVALID-ORDER-539 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_2s^5 + R_2g_m + s^4\left(C_1C_2C_5L_1R_2R_5 + C_1C_2C_5L_5R_1R_2 + C_1C_5L_1L_5\right) + s^3\left(C_1C_2C_5R_1R_2R_5 + C_1C_5L_1R_2 + C_1C_5L$

10.540 INVALID-ORDER-540 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

10.541 INVALID-ORDER-541 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_2R_5s^5 + R_2R_5g_m - R_2 + R_5 + s^4\left(C_1C_2C_5L_5R_1R_2R_5 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_$

10.542 INVALID-ORDER-542 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_2S^5 + R_2R_5g_m - R_2 + R_5 + s^4\left(C_1C_2C_5L_5R_1R_2R_5 + C_1C_5L_1L_5R_2Sg_m - C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1L_5R_2 + C_1C_5L_1R_2R_5 - C_1C_5L_1R_2R_5 + C_1C_5L_5R_1R_2R_5g_m - C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_2 + C_1C_5L_5R_2$

10.543 INVALID-ORDER-543 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_2 L_1 R_2 R_5 g_m - C_1 C_2 L_1 R_2 + C_1 C_2 L_1 R_5\right) + s^2 \left(C_1 C_2 R_1 R_2 R_5 g_m - C_1 C_2 R_1 R_2 + C_1 C_2 R_1 R_5 + C_1 L_1 R_5 g_m - C_1 L_1\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_2 R_2 R_5 g_m - C_2 R_2 + C_2 R_5\right) - 1}{2 g_m + s^3 \left(2 C_1 C_2 L_1 R_2 g_m + 4 C_1 C_2 L_1\right) + s^2 \left(2 C_1 C_2 R_1 R_2 g_m + 4 C_1 C_2 R_1 + C_1 C_2 R_2 + C_1 C_2 R_5 + 2 C_1 L_1 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_2 R_2 g_m + 4 C_2\right)}$

10.544 INVALID-ORDER-544 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1R_2s^4 + g_m + s^3\left(-C_1C_2C_5R_1R_2 + C_1C_2L_1R_2g_m + C_1C_2L_1 - C_1C_5L_1\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 - C_1C_5R_1 + C_1L_1g_m - C_2C_5R_2\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2C_5R_1R_2g_m + C_2$

10.545 INVALID-ORDER-545 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1R_2R_5s^4 + R_5g_m + s^3\left(-C_1C_2C_5R_1R_2R_5 + C_1C_2L_1R_2R_5g_m - C_1C_2L_1R_2 + C_1C_2L_1R_5 - C_1C_5L_1R_5\right) + s^2\left(C_1C_2R_1R_2R_5g_m - C_1C_2R_1R_2 + C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 - C_2C_5R_2R_5\right) + s\left(C_1R_1R_5g_m - C_1C_2R_1R_2 + C_1C_2R_1R_2 + C_1C_2R_1R_2 + C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 - C_2C_5R_2R_5\right) + s\left(C_1R_1R_5g_m + 4C_1C_2C_5L_1R_2R_5g_m + 4C_1C_2C_5L_1R_2g_m + 4C_1C_2L_1R_2g_m + 4C_1C_2L_1R_2g_m + 4C_1C_2R_1R_2g_m + 4C_1C_2R_1 + C_1C_2R_2 + C$

10.546 INVALID-ORDER-546 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_5 L_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_2 + C_1 C_2 C_5 R_1 R_2 + C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 + C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1 \right) \\ + s^2 \left(C_1 C_2 R_1 R_2 G_m - C_1 C_2 C_5 L_1 R_2 G_m - C_1 C_5 R_1 R_2 G_m - C_1 C_5 R_1$

10.547 INVALID-ORDER-547 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_5\right) + s^4 \left(-C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m + C_1 L_2 L_1 R_2 g_$

10.548 INVALID-ORDER-548 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_5R_2s^5 + s^4\left(-C_1C_2C_5L_5R_1R_2 + C_1C_2L_1L_5R_2g_m + C_1C_2L_1L_5 - C_1C_5L_1L_5\right) + s^3\left(-C_1C_2L_1R_2 + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1 - C_1C_5L_5R_1 + C_1L_1L_5g_m - C_2C_5L_5R_2\right) + s^2\left(-C_1C_2R_1R_2 - C_1L_1 + C_1L_5R_1g_m + C_2L_5R_1R_2g_m + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_2g_m + C_1C_2L_5R_2g_m + C_1C_2L_5R_2g_m + C_1C_2L_$

10.549 INVALID-ORDER-549 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_5\right) + s^4 \left(C_1 C_2 C_5 L_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_1 R_5 + C_1 C_2 C_5 L_1 R_2 g_m + C_1 C_2 C_5 R_1 R_2 g$

10.550 INVALID-ORDER-550 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_5R_2R_5s^5 - R_5 + s^4\left(-C_1C_2C_5L_5R_1R_2R_5 + C_1C_2L_1L_5R_2 + C_1C_2L_1L_5R_5 - C_1C_5L_1L_5R_5\right) + s^3\left(-C_1C_2L_1R_2R_5 + C_1C_2L_5R_1R_2R_5g_m - C_1C_2L_5R_1R_2R_5g$

10.551 INVALID-ORDER-551 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 L_1 L_5 R_2 g_m + C_1 C_2 L_1 L_5 R_2 g_m + C_1 C_2 L_1 L_5 R_2 g_m - C_1 C_5 L_1 L_5 \right) \\ - 2 g_m + s^5 \left(2 C_1 C_2 C_5 L_1 L_5 R_2 g_m + 4 C_1 C_2 C_5 L_5 R_1 R_2 g_m + 4 C_1 C_2 C_5 L_5 R_1 + C_1 C_2 C_5 L_5 R_2 + C_1 C_2 C_5 L_5 R_3 + C_1 C_2 L_1 L_5 g_m \right) \\ + s^5 \left(2 C_1 C_2 C_5 L_1 L_5 R_2 g_m + 4 C_1 C_2 C_5 L_5 R_1 R_2 g_m + 4 C_1 C_2 C_5 L_5 R_1 + C_1 C_2 C_5 L_5 R_2 + C_1 C_2 C_5 L_5 R_3 + C_1 C_2 C$

10.552 INVALID-ORDER-552 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_1 R_2 R_5 + C_1 C_2 C_5 L_1 R_2 R_5 g_m - C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_5 R_2 g_m - C_1 C_2 C_5 L_1 R_2 R_5 g_m - C_1 C_2 C_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 R_1 R_2 R_5 g$

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10.553 INVALID-ORDER-553 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5, \ \infty\right)
                                                                                                    H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_2 L_1 L_2\right) + s^3 \left(C_1 C_2 L_1 R_5 + C_1 C_2 L_2 R_1 R_5 g_m - C_1 C_2 L_2 R_1\right) + s^2 \left(C_1 C_2 R_1 R_5 + C_1 L_1 R_5 g_m - C_1 L_1 + C_2 L_2 R_5 g_m - C_2 L_2\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_2 R_5\right) - 1}{2 C_1 C_2 L_1 L_2 g_m s^4 + 2 g_m + s^3 \left(4 C_1 C_2 L_1 + 2 C_1 C_2 L_2 R_1 g_m + C_1 C_2 L_2\right) + s^2 \left(4 C_1 C_2 R_1 + C_1 C_2 R_5 + 2 C_1 L_1 g_m + 2 C_2 L_2 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 4 C_2\right)}
10.554 INVALID-ORDER-554 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty\right)
                                                                                                            H(s) = \frac{-C_1C_2C_5L_1L_2s^5 + g_m + s^4\left(-C_1C_2C_5L_2R_1 + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2L_1 + C_1C_2L_2R_1g_m - C_1C_5L_1 - C_2C_5L_2\right) + s^2\left(C_1C_2R_1 - C_1C_5R_1 + C_1L_1g_m + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2 - C_5\right)}{2C_1C_2C_5L_1L_2g_ms^5 + 2C_5g_ms + s^4\left(4C_1C_2C_5L_1 + 2C_1C_2C_5L_2R_1g_m + C_1C_2C_5L_2\right) + s^3\left(4C_1C_2C_5R_1 + 2C_1C_5L_1g_m + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5 + 4C_2C_5\right)}
10.555 INVALID-ORDER-555 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)
H(s) = \frac{-C_1C_2C_5L_1L_2R_5s^5 + R_5g_m + s^4\left(-C_1C_2C_5L_2R_1R_5 + C_1C_2L_1L_2R_5g_m - C_1C_2L_1L_2\right) + s^3\left(C_1C_2L_1R_5 + C_1C_2L_2R_1R_5g_m - C_1C_2L_2R_1 - C_1C_5L_1R_5 - C_2C_5L_2R_5\right) + s^2\left(C_1C_2R_1R_5 - C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_2L_2R_5g_m - C_1L_1 + C_2L_2R_5g_m - C_1L_1R_5g_m - C_1L_1R_5g
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10.556 INVALID-ORDER-556 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2\right) + s^4 \left(C_1 C_2 C_5 L_1 R_5 + C_1 C_2 C_5 L_2 R_1 R_5 g_m - C_1 C_2 C_5 L_2 R_1 + C_1 C_2 L_1 L_2 g_m\right) + s^3 \left(C_1 C_2 C_5 R_1 R_5 + C_1 C_2 L_1 + C_1 C_2 L_1 R_5 g_m - C_1 C_5 L_1 R_5 g_m$

10.557 INVALID-ORDER-557 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_2L_5g_ms^6 + g_m + s^5\left(-C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5 + C_1C_2C_5L_2R_1g_m\right) + s^4\left(-C_1C_2C_5L_2R_1 + C_1C_2C_5L_2R_1 + C_1C_2L_1L_2g_m + C_1C_5L_1L_5g_m + C_2C_5L_2L_5g_m\right) + s^3\left(C_1C_2L_1 + C_1C_2L_2R_1g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m - C_2C_5L_2 + C_2C_5L_5\right) + s^2\left(-C_1C_2C_5L_1L_2g_ms^5 + 2C_5g_ms + s^4\left(4C_1C_2C_5L_1 + 2C_1C_2C_5L_2R_1g_m + C_1C_2C_5L_2\right) + s^3\left(4C_1C_2C_5R_1 + 2C_1C_5L_1g_m + 2C_2C_5L_2g_m\right) + s^2\left(C_1C_2 + 2C_1C_5R_1g_m + C_1C_5L_1R_1g_m + C_1C_5R_1g_m +$

10.558 INVALID-ORDER-558 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$

 $\frac{-C_1C_2C_5L_1L_2L_5s^6+s^5\left(-C_1C_2C_5L_2L_5R_1+C_1C_2L_1L_2+C_1C_2L_1L_5+C_1C_2L_1L_5+C_1C_2L_1L_5+C_1C_2L_5R_1g_m-C_1C_5L_1L_5-C_2C_5L_2L_5\right)+s^3\left(-C_1C_2L_2R_1+C_1C_2L_5R_1-C_1C_5L_5R_1+C_1L_1L_5g_m+C_2L_2L_5g_m\right)+s^2\left(-C_1L_1+C_1L_5C_2C_5L_2L_5R_1+C_1C_2L_5$

10.559 INVALID-ORDER-559 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_2L_5g_ms^6 + g_m + s^5\left(C_1C_2C_5L_1L_2R_5g_m - C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5 + C_1C_2C_5L_2R_1R_5g_m - C_1C_2C_5L_2R_1 + C_1C_$ $\frac{2C_{1}C_{2}C_{5}L_{1}L_{2}g_{m}s^{5}+2C_{5}g_{m}s+s^{4}\left(4C_{1}C_{2}C_{5}L_{1}+2C_{1}C_{2}C_{5}L_{2}R_{1}g_{m}+C_{1}C_{2}C_{5}L_{2}+C_{1}C_{2}C_{5}L_{5}\right)+s^{3}\left(4C_{1}C_{2}C_{5}R_{1}+C_{1}C_{2}C_{5}R_{1}+C_{2}C_{5}R_{$

10.560 INVALID-ORDER-560 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$

 $-C_{1}C_{2}C_{5}L_{1}L_{2}L_{5}R_{5}s^{6}-R_{5}+s^{5}\left(-C_{1}C_{2}C_{5}L_{2}L_{5}R_{1}R_{5}+C_{1}C_{2}L_{1}L_{2}L_{5}\right)+s^{4}\left(-C_{1}C_{2}L_{1}L_{2}R_{5}+C_{1}C_{2}L_{1}L_{5}R_{5}+C_{1}C_{2}L_{2}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{2}L_{2}L_{5}R_{1}-C_{1}C_{5}L_{1}L_{5}R_{5}-C_{2}L_{2}L_{5}R_{5}-C_{2}L_{2}L_{5}R_{5}-C_{2}L_{2}L_{5}R_{5}-C_{2}L_{2}L_{5}R_{5}+C_{1}C_{2}L_{2}L_{5}R_{5}+C_{1}C_{2}L_{2}L_{5}R_{5}+C_{1}C_{2}L_{2}L_{5}R_{5}+C_{1}C_{2}L_{2}L_{5}R_{5}-C_{2}L_{2}L_{$

10.561 INVALID-ORDER-561 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_5 + C_1 C_2 C_5 L_2 L_5 R_1 R_5 g_m - C_1 C_2 C_5 L_2 L_5 R_1 R_5 + C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_2 L_1 L_2 + C_1 C_2 L_1 L_5 + C_1 C_2 L_2 L_5 R_1 g_m + C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_5 R_1 R_5 + C_1 C_2 C_5 L_5 R_1 R_5 + C_1 C_5 L_5 R_5 + C_1 C_5 L_5 R_5 + C_1 C_5 L_5 R_5 + C_1 C_5$

10.562 INVALID-ORDER-562 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$

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10.563 INVALID-ORDER-563 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5, \ \infty\right)
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$$H(s) = \frac{R_5g_m + s^4\left(C_1C_2L_1L_2R_5g_m - C_1C_2L_1L_2\right) + s^3\left(C_1C_2L_1R_2R_5g_m - C_1C_2L_1R_2 + C_1C_2L_1R_5 + C_1C_2L_2R_1R_5g_m - C_1C_2L_2R_1\right) + s^2\left(C_1C_2R_1R_2R_5g_m - C_1C_2R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_2L_2R_5g_m - C_2L_2\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_2R_2R_5g_m - C_1R_1R_5g_m - C$$

10.564 INVALID-ORDER-564
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{-C_1C_2C_5L_1L_2s^5 + g_m + s^4\left(-C_1C_2C_5L_1R_2 - C_1C_2C_5L_2R_1 + C_1C_2L_1L_2g_m\right) + s^3\left(-C_1C_2C_5R_1R_2 + C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_2L_2R_1g_m - C_1C_5L_1 - C_2C_5L_2\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 - C_1C_5R_1 + C_1L_1g_m - C_2C_5R_2 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2C_5R_1R_2g_m + C_1C_2C_5L_1R_2g_m + C_1C_2C_5R_1R_2g_m + C_1C_2C$$

10.565 INVALID-ORDER-565
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = \frac{-C_1C_2C_5L_1L_2R_5s^5 + R_5g_m + s^4\left(-C_1C_2C_5L_1R_2R_5 - C_1C_2C_5L_2R_1R_5 + C_1C_2L_1L_2\right) + s^3\left(-C_1C_2C_5R_1R_2R_5 + C_1C_2L_1R_2 + C_1C_2L_1R_5 + C_1C_2L_1R_5 + C_1C_2L_1R_5 + C_1C_2L_1R_5 - C_2C_5L_2R_1 - C_1C_5L_1R_5 - C_2C_5L_2R_1 - C_1C_5L_1R_5 - C_2C_5L_2R_1 - C_1C_2L_1R_2 - C_1C$$

10.566 INVALID-ORDER-566
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2\right) + s^4 \left(C_1 C_2 C_5 L_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_1 R_2 + C_1 C_2 C_5 L_1 R_5 + C_1 C_2 C_5 L_1 R_5 g_m - C_1 C_2 C_5 L_1 R_2 R_5 g_m - C_1 C_2 C_5 R_1 R_2 + C_1 C_2$$

10.567 INVALID-ORDER-567
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_1L_2L_5g_ms^6 + g_m + s^5\left(-C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5R_2g_m + C_1C_2C_5L_1L_5 + C_1C_2C_5L_1R_2 - C_1C_2C_5L_1R_2 - C_1C_2C_5L_2R_1 + C_1C_2C_5L_5R_1R_2g_m + C_1C_2C_5L_5R_1 + C_1C_2L_1L_2g_m + C_1C_5L_1L_5g_m + C_2C_5L_2L_5g_m\right) + s^3\left(-C_1C_2C_5R_1R_2 - C_1C_2C_5L_1R_2g_m + C_1C_2C_5L_1R_2g_$$

10.568 INVALID-ORDER-568
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

$$H(s) = \frac{-C_1C_2C_5L_1L_2L_5s^6 + s^5\left(-C_1C_2C_5L_1L_5R_2 - C_1C_2C_5L_2L_5R_1 + C_1C_2L_1L_2L_5g_m\right) + s^4\left(-C_1C_2C_5L_5R_1R_2 - C_1C_2L_1L_5 + C_1C_2L_1L_5 + C_1C_2L_1L_5 + C_1C_2L_1L_5 + C_1C_2L_1L_5 - C_2C_5L_2L_5\right) + s^3\left(-C_1C_2L_1R_2 - C_1C_2L_1R_2 - C_1C_2L_1R_2 - C_1C_2L_1L_5 + C_1C_2L_1L_5 +$$

10.569 INVALID-ORDER-569
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_1L_2L_5g_ms^6 + g_m + s^5\left(C_1C_2C_5L_1L_2R_5g_m - C_1C_2C_5L_1L_2 + C_1C_2C_5L_1L_5 + C_1C_2C_5L_1L_5 + C_1C_2C_5L_1R_2 + C_1C_2C_5L_$$

10.570 INVALID-ORDER-570
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$$

$$H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_5s^6 - R_5 + s^5\left(-C_1C_2C_5L_1L_5R_2R_5 - C_1C_2C_5L_2L_5R_1R_5 + C_1C_2L_1L_2L_5\right) + s^4\left(-C_1C_2C_5L_5R_1R_2R_5 - C_1C_2L_1L_2R_5 + C_1C_2L_1L_5R_2R_5g_m - C_1C_2L_1L_2L_5\right) + s^4\left(-C_1C_2C_5L_5R_1R_2R_5 - C_1C_2L_1L_2R_5 + C_1C_2L_1L_5R_2R_5g_m - C_1C_2L_1L_2L_5\right) + s^4\left(-C_1C_2C_5L_5R_1R_2R_5 - C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_5R_1R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_5R_1R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_5R_1R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_5R_1R_5 + C_1C_2L_1L_2R_5 + C_1C_2L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_1L_2R_5 + C_1C_2L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_1L_2R_5 + C_1C_2L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_1L_2R_5 + C_1C_2L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_1L_2R_5\right) + s^4\left(-C_1C_2C_5L_$$

10.571 INVALID-ORDER-571
$$Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \ \infty\right)$$

10.572 INVALID-ORDER-572
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(-C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_2 C_5 L_1 L_5 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_1 L_5 R_5 + C_1 C_2 C_5 L_1 L_5 R_5 + C_1 C_2 C_5 L_1 L_5 R_5 - C_1 C_2 C_5 L_1 L_5 R_5 - C_1 C_2 C_5 L_2 R_1 R_5 + C_1 C_2 C_5 L_2 R_1 R_5 + C_1 C_2 C_5 L_2 R_1 R_5 - C_1 C_2 C_5 L_2 R_1 R_5 + C_1 C_2 C_5 L_2 R_1 R_5 - C_1 C_2 C_5 L_2 R_1 R_5 + C_1 C_2 C_5 L_2 R_1 R_5 - C_1 C_2 C_5 L_2 R_5 - C_1 C_2 C_5$$

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10.573 INVALID-ORDER-573 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, R_5, \infty\right)
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10.574 INVALID-ORDER-574
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_2s^5 + R_2g_m + s^4\left(-C_1C_2C_5L_2R_1R_2 + C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2 + s^3\left(C_1C_2L_2R_1R_2g_m + C_1C_2L_2R_1 - C_1C_5L_1R_2 - C_1C_5L_2R_1 + C_1L_1L_2g_m - C_2C_5L_2R_2\right) + s^2\left(-C_1C_5R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_1L_2R_1g_m + C_2L_2R_2g_m + C_1C_2L_2R_1 - C_1C_5L_1R_2g_m + C_1C_2L_2R_1 - C_1C_5L_2R_1 + C_1L_1L_2g_m - C_2C_5L_2R_2\right) + s^2\left(-C_1C_5R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_1L_2R_1g_m + C_2L_2R_2g_m + C_1C_2L_2R_1 - C_1C_5L_1R_2g_m + C_1C_5$

10.575 INVALID-ORDER-575
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_2R_5s^5 + R_2R_5g_m - R_2 + R_5 + s^4\left(-C_1C_2C_5L_2R_1R_2R_5 + C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_5 - C_1C_5L_1L_2R_5\right) + s^3\left(C_1C_2L_2R_1R_2R_5g_m - C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_$

10.576 INVALID-ORDER-576
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_2 g_m - C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 C_5 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 R_5 g_m - C_1 C_5 L_1 L_2 + C_1 C_5 L_1 L_2 R_5 g_m - C_1 C_5 L_1 L_2 R$

10.577 INVALID-ORDER-577
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(-C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 + C_1 C_5 L_1 L_2 L_5 g_m\right) + s^4 \left(-C_1 C_2 C_5 L_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 - C_1 C_5 L_1 L_2 + C_1 C_5 L_1 L_5 R_2 g_m + C_1 C_5 L_1 L_5 + C_1 C_5 L_2 L_5 R_1 R_2 g_m\right)}{s^5 \left(2C_1 C_2 C_5 L_1 L_2 R_2 g_m + 4C_1 C_2 C_5 L_2 L_5\right) + s^4 \left(2C_1 C_2 C_5 L_2 R_1 R_2 g_m + 4C_1 C_2 C_5 L_2 R_1 + C_1 C_2 C_5 L_2 R_1 R_2 g_m\right)}{s^5 \left(2C_1 C_2 C_5 L_1 L_2 R_2 g_m + 4C_1 C_2 C_5 L_2 L_5\right) + s^4 \left(2C_1 C_2 C_5 L_2 R_1 R_2 g_m + 4C_1 C_2 C_5 L_2 R_1 R_2 g_m\right)}$

10.578 INVALID-ORDER-578
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_2s^6 - R_2 + s^5\left(-C_1C_2C_5L_2L_5R_1R_2 + C_1C_2L_1L_2L_5 - C_1C_5L_1L_2L_5\right) + s^4\left(-C_1C_2L_1L_2R_2 + C_1C_2L_2L_5R_1R_2g_m + C_1C_2L_2L_5R_1 - C_1C_5L_1L_5R_2 - C_1C_5L_2L_5R_1 + C_1L_2L_5\right)}{2R_2g_m + s^6\left(2C_1C_2C_5L_1L_2L_5R_2g_m + 4C_1C_2C_5L_2L_5R_1R_2g_m + 4C_1C_2C_5L_2L_5R_1 + C_1C_5L_2L_5R_2\right) + s^4\left(2C_1C_2L_1L_2R_2g_m + 4C_1C_2L_1L_2 + C_1C_2L_2L_5 + 2C_1C_5L_1L_2R_2g_m + 4C_1C_2L_2L_5 + 2C_1C_5L_1L_2R_2g_m + 4C_1C_2L_2L_5 + 2C_1C_5L_2L_5R_1R_2g_m + 4C_1C_2L_2L_5R_1R_2g_m + 4C_1C_2L_2L_2R_2g_m + 4C_1C_2L_2R_2g_m + 4C_1C_2L_2L_2R_2g_m + 4C_1C_2L_2L_2R_2g_m + 4C_1C_2L_2R_2g_m + 4C_1C_2L_2L_2R_2g_m + 4C_1C_2L_2R_2g_m + 4C_1C_2L_2R$

10.579 INVALID-ORDER-579
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 R_1 R_2 R_2 g_m + C_1 C_2 C_5 L_2 R_2 R_2 g_m + C_1 C_2 C_5 L$

10.580 INVALID-ORDER-580
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_2R_5s^6 - R_2R_5 + s^5\left(-C_1C_2C_5L_2L_5R_1R_2R_5 + C_1C_2L_1L_2L_5R_2R_5g_m - C_1C_2L_1L_2L_5R_2 + C_1C_2L_1L_2L_5R_5 - C_1C_2L_1L_2L_5R_2R_5g_m + 4C_1C_2C_5L_2L_5R_1R_2R_5g_m + 4C_1C_2C_5L_2L_5R_1R_2R_5g_m + 4C_1C_2L_1L_2L_5R_2g_m + 4C_1C_2L_1L_2L_2R_2g_m + 4C_1C_2L_2L_2R_2g_m + 4C$

10.581 INVALID-ORDER-581
$$Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$$

10.582 INVALID-ORDER-582
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_3 + C_1 C_2 C_5 L_1 L_2 L_5 R_3 - C_1 C_2 C_5 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_2 L_5 R_2 + C_1 C_2 C_5 L_2$

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10.583 INVALID-ORDER-583 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_5, \infty\right)
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 $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^4 \left(C_1 C_2 L_1 L_2 R_2 F_5 g_m - C_1 C_2 L_1 L_2 R_2 + C_1 C_2 L_1 L_2 R_5 + s^3 \left(C_1 C_2 L_1 R_2 R_5 + C_1 C_2 L_2 R_1 R_2 F_5 g_m - C_1 L_2 R_2 F_5 - C_1 L_1 R_2 F_5 g_m - C_1 L_1 R_2 + C_1 L_1 R_5 + C_2 L_2 R_2 F_5 g_m - C_2 L_2 R_2 + C_2 L_2 R_5 \right) + s \left(C_1 C_2 R_1 R_2 F_5 - C_1 L_1 R_2 F_5 - C_2 L_2 R_2 F_$

10.584 INVALID-ORDER-584
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_2s^5 + R_2g_m + s^4\left(-C_1C_2C_5L_2R_1R_2 + C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2\right) + s^3\left(C_1C_2L_1R_2 + C_1C_2L_2R_1R_2g_m + C_1C_2L_2R_1 - C_1C_5L_1R_2 - C_2C_5L_2R_2\right) + s^2\left(C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_2L_2R_2g_m + C_2L_2\right) + s\left(C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1C_5R_1R_2 + C_1L_1R_2g_m + C_2L_2\right) + s\left(C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1C_2R_2R_2\right) + s^2\left(C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1C_2R_1R_2 - C_1C_5R_1R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_1R_2 - C_1C_5R_1R_2\right) + s^2\left(C_1C_2R_1R_2\right) + s^2\left$

10.585 INVALID-ORDER-585
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_2R_5s^5 + R_2R_5g_m - R_2 + R_5 + s^4\left(-C_1C_2C_5L_2R_1R_2R_5 + C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_5\right) + s^3\left(C_1C_2L_1R_2R_5 + C_1C_2L_2R_1R_2R_5g_m - C_1C_2L_1L_2R_2R_5g_m - C_1C_2L_1L_2R_2\right) + s^3\left(C_1C_2L_1R_2R_5 + C_1C_2L_2R_1R_2R_5g_m - C_1C_2L_1L_2R_2\right) + s^3\left(C_1C_2L_1L_2R_2 + C_1C_2L_1R_2R_5 + C_1C_2L_2R_1R_2R_5g_m - C_1C_2L_1R_2R_5\right) + s^3\left(C_1C_2L_1R_2R_5 + C_1C_2L_2R_1R_2R_5g_m - C_1C_2L_1L_2R_2\right) + s^3\left(C_1C_2L_1R_2R_5 + C_1C_2L_1R_2R_5 + C_1C_2L_1R_2R_5\right) + s^3\left(C_1C_2L_1R_2R_5 + C_1C_2L_1R_2R_5 + C_1C_2L_1R_2R_5\right) + s^3\left(C_1C_2L_1R_2R_5 + C_1C_2L_1R_2R_5\right) + s^3\left(C_1C_2L_1R_2R_5\right) + s^3\left(C_1C_2L_$

10.586 INVALID-ORDER-586
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2g_m + s^5 \left(C_1C_2C_5L_1L_2R_2g_m - C_1C_2C_5L_1L_2R_2 + C_1C_2C_5L_1L_2R_2 + C_1C_2C_5L_1R_2R_5 + C_1C_2C_5L_2R_1R_2R_5 - C_1C_2C_5L_2R_1R_2 + C_1C_2C_5L_2R_1 + C_1C$

10.587 INVALID-ORDER-587
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(-C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_1 L_5 R_2 + C_1 C_2 C_5 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_2 R_2 +$

10.588 INVALID-ORDER-588
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_2s^6 - R_2 + s^5\left(-C_1C_2C_5L_2L_5R_1R_2 + C_1C_2L_1L_2L_5\right) + s^4\left(-C_1C_2L_1L_2R_2 + C_1C_2L_1L_5R_2 + C_1C_2L_1L_5R_2 + C_1C_2L_5R_1R_2g_m + C_1C_2L_5R_1 - C_1C_5L_5R_1R_2g_m + C_1C_2L_5R_1R_2g_m + C_1C_2L$

10.589 INVALID-ORDER-589
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5\right) + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_2 C_5 L_1 L_2 R_5 + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_4 L_5 R_5 g_m + C_1 C_2 C_5 L_5 R_5 g_m + C_1 C$

10.590 INVALID-ORDER-590
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $-C_1C_2C_5L_1L_2L_5R_2R_5s^6 - R_2R_5 + s^5\left(-C_1C_2C_5L_2L_5R_1R_2R_5 + C_1C_2L_1L_2L_5R_2R_5 + C_1C_2L_5L_5R_1R_2R_5 + C_1C_2L_5R_2R_5 + C_1C_2L_5R_5R_5 + C_1C_2L_5R_5R_5 + C_1C_2L_5R_5R_5 + C_1C_2L_5R_5R_5 + C_1C_2L_5R_5R_5 + C_1C_2L_5R_5R_5 + C_1C_2L_5R_5R_5$

10.591 INVALID-ORDER-591
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{R_2 R_5 g_m - R_2 + R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_3 + s^5 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_2 + C_1 C_2 C_5 L_2 L_5 R_1 R_2 + C_1 C_2 C$

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10.592 INVALID-ORDER-592 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{R_2R_5g_m - R_2 + R_5 + s^6\left(C_1C_2C_5L_1L_2L_5R_2g_m - C_1C_2C_5L_1L_2L_5R_2 + C_1C_2C_5L_1L_2R_2R_5 + C_1C_2C_5L_1L_2R_2R_5 + C_1C_2C_5L_2L_5R_1R_2R_5g_m - C_1C_2C_5L_2L_5R_1R_2 + C_1C_2C_5L_2L_5R_1R_2R_5 + C_1C_2C_5L_2L_5R_1R_2R_5g_m - C_1C_2C_5L_2L_5R_1R_2 + C_1C_2C_5L_2L_5R_1R_2R_5g_m - C_
10.593 INVALID-ORDER-593 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                           H(s) = \frac{-C_5L_1R_1R_2s^2 + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_5L_1R_1R_2s^3 + R_1 + s^2\left(C_1L_1R_1 + 2C_5L_1R_1R_2g_m + 4C_5L_1R_1 + C_5L_1R_2\right) + s\left(C_5R_1R_2 + L_1\right)}
10.594 INVALID-ORDER-594 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                     H(s) = \frac{-C_5L_1R_1R_2R_5s^2 + s\left(L_1R_1R_2R_5g_m - L_1R_1R_2 + L_1R_1R_5\right)}{C_1C_5L_1R_1R_2R_5s^3 + R_1R_2 + R_1R_5 + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_5 + 2C_5L_1R_1R_2R_5g_m + 4C_5L_1R_1R_5 + C_5L_1R_2R_5\right) + s\left(C_5R_1R_2R_5 + 2L_1R_1R_2g_m + 4L_1R_1 + L_1R_2 + L_1R_5\right)}
10.595 INVALID-ORDER-595 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                             H(s) = \frac{s^2 \left( C_5 L_1 R_1 R_2 R_5 g_m - C_5 L_1 R_1 R_2 + C_5 L_1 R_1 R_5 \right) + s \left( L_1 R_1 R_2 g_m + L_1 R_1 \right)}{R_1 + s^3 \left( C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_1 R_5 \right) + s^2 \left( C_1 L_1 R_1 + 2 C_5 L_1 R_1 R_2 g_m + 4 C_5 L_1 R_1 + C_5 L_1 R_2 + C_5 L_1 R_5 \right) + s \left( C_5 R_1 R_2 + C_5 R_1 R_5 + L_1 \right)}
10.596 INVALID-ORDER-596 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                           H(s) = \frac{-C_5L_1R_1R_2s^2 + s^3\left(C_5L_1L_5R_1R_2g_m + C_5L_1L_5R_1\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_5L_1L_5R_1s^4 + R_1 + s^3\left(C_1C_5L_1R_1R_2 + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + 2C_5L_1R_1R_2g_m + 4C_5L_1R_1 + C_5L_1R_2 + C_5L_5R_1\right) + s\left(C_5R_1R_2 + L_1\right)}
10.597 INVALID-ORDER-597 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                 H(s) = \frac{-C_5L_1L_5R_1R_2s^3 - L_1R_1R_2s + s^2\left(L_1L_5R_1R_2g_m + L_1L_5R_1\right)}{C_1C_5L_1L_5R_1R_2s^4 + R_1R_2 + s^3\left(C_1L_1L_5R_1 + 2C_5L_1L_5R_1R_2g_m + 4C_5L_1L_5R_1 + C_5L_1L_5R_2\right) + s^2\left(C_1L_1R_1R_2 + C_5L_5R_1R_2 + L_1L_5\right) + s\left(2L_1R_1R_2g_m + 4L_1R_1 + L_1R_2 + L_5R_1\right)}
10.598 INVALID-ORDER-598 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                               H(s) = \frac{s^3 \left(C_5 L_1 L_5 R_1 R_2 g_m + C_5 L_1 L_5 R_1\right) + s^2 \left(C_5 L_1 R_1 R_2 R_5 g_m - C_5 L_1 R_1 R_2 + C_5 L_1 R_1 R_5\right) + s \left(L_1 R_1 R_2 g_m + L_1 R_1\right)}{C_1 C_5 L_1 L_5 R_1 s^4 + R_1 + s^3 \left(C_1 C_5 L_1 R_1 R_2 + C_5 L_1 R_1 R_5 + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_1 + 2 C_5 L_1 R_1 R_2 g_m + 4 C_5 L_1 R_1 + C_5 L_1 R_2 + C_5 L_1 R_5 + C_5 L_5 R_1\right) + s \left(C_5 R_1 R_2 + C_5 R_1 R_5 + L_1\right)}
10.599 INVALID-ORDER-599 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_5L_1L_5R_1R_2R_5s^3 - L_1R_1R_2R_5s + s^2\left(L_1L_5R_1R_2R_5g_m - L_1L_5R_1R_2 + L_1L_5R_1R_5\right)}{C_1C_5L_1L_5R_1R_2R_5s^4 + R_1R_2R_5 + s^3\left(C_1L_1L_5R_1R_2 + C_1L_1L_5R_1R_5 + 2C_5L_1L_5R_1R_2 + C_5L_1L_5R_1R_5 + C_5L_1L_5R_2R_5\right) + s^2\left(C_1L_1R_1R_2R_5 + C_5L_5R_1R_2R_5 + 2L_1L_5R_1R_2R_5 + L_1L_5R_1 + L_1L_5R_2 + L_1L_5R_5\right) + s\left(2L_1R_1R_2R_5g_m + 4L_1R_2R_5 + L_1R_2R_5\right) + s^2\left(2L_1R_1R_2R_5 + 2L_1L_5R_1R_2R_5 + 2L_1L_5R_1R_2R_5 + L_1L_5R_1R_2 + L_1L_5R_1R_2 + L_1L_5R_1R_2 + L_1L_5R_1R_2R_5\right) + s^2\left(2L_1R_1R_2R_5 + 2L_1L_5R_1R_2R_5 + 2L_1L_5R_1R_2R_5 + L_1L_5R_1R_2 +
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 $H(s) = \frac{s^3 \left(C_5 L_1 L_5 R_1 R_2 R_5 g_m - C_5 L_1 L_5 R_1 R_2 + C_5 L_1 L_5 R_1 R_2 + C_5 L_1 L_5 R_1 R_2 g_m + L_1 L_5 R_1\right) + s \left(L_1 R_1 R_2 R_5 g_m - L_1 R_1 R_2 + L_1 R_1 R_5\right)}{R_1 R_2 + R_1 R_5 + s^4 \left(C_1 C_5 L_1 L_5 R_1 R_2 + C_1 L_5 R_1 R_2 + C_5 L_1 L_5 R_1 + 2 C_5 L_1 L_5 R_1 + C_5 L_1 L_5 R_1 + C_5 L_1 L_5 R_2 + C_5 L_1 L_5 R_3\right) + s^2 \left(C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_$

10.600 INVALID-ORDER-600 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

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10.601 INVALID-ORDER-601 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_5L_1R_1R_2R_5s^2 + s^3\left(C_5L_1L_5R_1R_2R_5g_m - C_5L_1L_5R_1R_2 + C_5L_1L_5R_1R_2 + C_5L_1L_5R_1R_2 + C_5L_1L_5R_1R_2 + L_1R_1R_5\right)}{R_1R_2 + R_1R_5 + s^4\left(C_1C_5L_1L_5R_1R_2 + C_5L_1L_5R_1R_2 + C_5L_1L_5R_1 + C_5L_1L_5R_1 + C_5L_1L_5R_2 + C_5L_1L_5R_1 + C_5L_1L_5R_2 + C_5L_1L_5R_2 + C_5L_1R_1R_2 + C_5L_1R
10.602 INVALID-ORDER-602 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                                                     H(s) = \frac{C_2 L_1 R_1 R_5 s^2 + s \left( L_1 R_1 R_5 g_m - L_1 R_1 \right)}{C_1 C_2 L_1 R_1 R_5 s^3 + R_1 + s^2 \left( C_1 L_1 R_1 + 4 C_2 L_1 R_1 + C_2 L_1 R_5 \right) + s \left( C_2 R_1 R_5 + 2 L_1 R_1 g_m + L_1 \right)}
10.603 INVALID-ORDER-603 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                H(s) = \frac{s^2 \left( C_2 L_1 R_1 R_5 - C_5 L_1 R_1 R_5 \right) + s \left( L_1 R_1 R_5 g_m - L_1 R_1 \right)}{R_1 + s^3 \left( C_1 C_2 L_1 R_1 R_5 + C_1 C_5 L_1 R_1 R_5 + 4 C_2 C_5 L_1 R_1 R_5 \right) + s^2 \left( C_1 L_1 R_1 + 4 C_2 L_1 R_1 + C_2 L_1 R_5 + 2 C_5 L_1 R_1 R_5 g_m + C_5 L_1 R_5 \right) + s \left( C_2 R_1 R_5 + C_5 R_1 R_5 + 2 L_1 R_1 g_m + L_1 \right)}
10.604 INVALID-ORDER-604 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                      H(s) = \frac{C_2C_5L_1R_1R_5s^2 + L_1R_1g_m + s\left(C_2L_1R_1 + C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{C_1C_2C_5L_1R_1R_5s^3 + C_2R_1 + C_5R_1 + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + 4C_2C_5L_1R_1 + C_2C_5L_1R_5\right) + s\left(C_2C_5R_1R_5 + C_2L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}
10.605 INVALID-ORDER-605 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                   H(s) = \frac{C_2C_5L_1L_5R_1s^3 + C_5L_1L_5R_1g_ms^2 + L_1R_1g_m + s\left(C_2L_1R_1 - C_5L_1R_1\right)}{C_1C_2C_5L_1L_5R_1s^4 + C_2C_5L_1L_5s^3 + C_2R_1 + C_5R_1 + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + 4C_2C_5L_1R_1 + C_2C_5L_5R_1\right) + s\left(C_2L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}
10.606 INVALID-ORDER-606 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                           H(s) = \frac{L_1 L_5 R_1 g_m s^2 - L_1 R_1 s + s^3 \left(C_2 L_1 L_5 R_1 - C_5 L_1 L_5 R_1\right)}{R_1 + s^4 \left(C_1 C_2 L_1 L_5 R_1 + C_1 C_5 L_1 L_5 R_1 + 4 C_2 C_5 L_1 L_5 R_1\right) + s^3 \left(C_2 L_1 L_5 + 2 C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_1 + 4 C_2 L_1 R_1 + C_2 L_5 R_1 + C_5 L_5 R_1\right) + s \left(2 L_1 R_1 g_m + L_1\right)}
10.607 INVALID-ORDER-607 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                        H(s) = \frac{C_2C_5L_1L_5R_1s^3 + L_1R_1g_m + s^2\left(C_2C_5L_1R_1R_5 + C_5L_1L_5R_1g_m\right) + s\left(C_2L_1R_1 + C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{C_1C_2C_5L_1L_5R_1s^4 + C_2R_1 + C_5R_1 + s^3\left(C_1C_2C_5L_1R_1R_5 + C_2C_5L_1L_5\right) + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + 4C_2C_5L_1R_1 + C_2C_5L_1R_5 + C_2C_5L_5R_1\right) + s\left(C_2C_5R_1R_5 + C_2L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}
10.608 INVALID-ORDER-608 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-L_1R_1R_5s + s^3\left(C_2L_1L_5R_1R_5 - C_5L_1L_5R_1R_5\right) + s^2\left(L_1L_5R_1R_5g_m - L_1L_5R_1\right)}{R_1R_5 + s^4\left(C_1C_2L_1L_5R_1R_5 + C_1C_5L_1L_5R_1R_5 + 4C_2C_5L_1L_5R_1R_5\right) + s^3\left(C_1L_1L_5R_1 + 4C_2L_1L_5R_1 + 4C
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 $H(s) = \frac{C_2C_5L_1L_5R_1R_5s^4 + s^3\left(C_2L_1L_5R_1 + C_5L_1L_5R_1R_5g_m - C_5L_1L_5R_1\right) + s^2\left(C_2L_1R_1R_5 + L_1L_5R_1g_m\right) + s\left(L_1R_1R_5g_m - L_1R_1\right)}{C_1C_2C_5L_1L_5R_1R_5s^5 + R_1 + s^4\left(C_1C_2L_1L_5R_1 + C_1C_5L_1L_5R_1 + C_2C_5L_1L_5R_1\right) + s^2\left(C_2L_1R_1R_5 + C_2L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + C_2L_1R_5 + C_2L_5R_1 + C_5L_5R_1\right) + s\left(C_2R_1R_5 + C_2L_1R_5 + C_2L_1L_5R_1\right) + s^2\left(C_2L_1R_1R_5 + C_2L_1L_5R_1 + C_2L_1R_5 + C_2L_1R_5\right) + s^2\left(C_2L_1R_1R_5 + C_2L_1R_5 + C_2L_1R_5\right) + s^2\left(C_2L_1R_1R_5 + C_2L_1R_5 + C_2L_1R_5\right) + s^2\left(C_2L_1R_1R_5 + C_2L_1R_5\right) + s^2\left(C_2L_1R_1R_5\right) + s^2\left(C_2L_1R_1R_5\right) + s^2\left(C_2L_1R_1R_5\right) + s^2\left(C_2L_1R_5\right) + s^2\left(C_2L_1R_5$

10.609 INVALID-ORDER-609 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

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10.610 INVALID-ORDER-610 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{C_2C_5L_1L_5R_1R_5s^4 + s^3\left(C_5L_1L_5R_1R_5g_m - C_5L_1L_5R_1\right) + s^2\left(C_2L_1R_1R_5 - C_5L_1R_1R_5\right) + s\left(L_1R_1R_5g_m - L_1R_1\right)}{C_1C_2C_5L_1L_5R_1R_5s^5 + R_1 + s^4\left(C_1C_5L_1L_5R_1 + 4C_2C_5L_1L_5R_1 + C_2C_5L_1R_1R_5 + 4C_2C_5L_1R_1R_5 + 4C_2C
10.611 INVALID-ORDER-611 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                                                                                       H(s) = \frac{C_2L_1R_1R_2R_5s^2 + s\left(L_1R_1R_2R_5g_m - L_1R_1R_2 + L_1R_1R_5\right)}{C_1C_2L_1R_1R_2R_5s^3 + R_1R_2 + R_1R_5 + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_5 + 4C_2L_1R_1R_2 + C_2L_1R_2R_5\right) + s\left(C_2R_1R_2R_5 + 2L_1R_1R_2g_m + 4L_1R_1 + L_1R_2 + L_1R_5\right)}
10.612 INVALID-ORDER-612 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                   H(s) = \frac{s^2 \left(C_2 L_1 R_1 R_2 - C_5 L_1 R_1 R_2\right) + s \left(L_1 R_1 R_2 g_m + L_1 R_1\right)}{R_1 + s^3 \left(C_1 C_2 L_1 R_1 R_2 + C_1 C_5 L_1 R_1 R_2 + 4 C_2 C_5 L_1 R_1 R_2\right) + s^2 \left(C_1 L_1 R_1 + C_2 L_1 R_2 + 2 C_5 L_1 R_1 R_2 g_m + 4 C_5 L_1 R_1 + C_5 L_1 R_2\right) + s \left(C_2 R_1 R_2 + C_5 R_1 R_2 + L_1\right)}
10.613 INVALID-ORDER-613 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{s^2 \left( C_2 L_1 R_1 R_2 R_5 - C_5 L_1 R_1 R_2 R_5 \right) + s \left( L_1 R_1 R_2 R_5 g_m - L_1 R_1 R_2 + L_1 R_1 R_5 \right)}{R_1 R_2 + R_1 R_5 + s^3 \left( C_1 C_2 L_1 R_1 R_2 R_5 + C_1 C_5 L_1 R_1 R_2 R_5 \right) + s^2 \left( C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_2 + C_2 L_1 R_1 R_2 + C_2 L_1 R_1 R_2 + C_2 L_1 R_1 R_2 + C_3 L_1 R_1 R_2 + C_5 L_1 R_1 R_2 + C_5 L_1 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2 R_5 + C_5 R_1 R_2 R_5 \right) + s \left( C_2 R_1 R_2
10.614 INVALID-ORDER-614 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_2C_5L_1R_1R_2R_5s^3 + s^2\left(C_2L_1R_1R_2 + C_5L_1R_1R_2 + C_5L_1R_1R_
10.615 INVALID-ORDER-615 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_2C_5L_1L_5R_1R_2s^4 + s^3\left(C_5L_1L_5R_1R_2g_m + C_5L_1L_5R_1\right) + s^2\left(C_2L_1R_1R_2 - C_5L_1R_1R_2\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_5L_1L_5R_1R_2s^5 + R_1 + s^4\left(C_1C_5L_1L_5R_1 + C_2C_5L_1L_5R_2\right) + s^3\left(C_1C_2L_1R_1R_2 + C_2C_5L_1R_1R_2 + C_2C_5L_5R_1R_2 + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + C_2L_1R_2 + C_5L_1R_1 + C_5L_1R_2 + C_5L_5R_1\right) + s\left(C_2R_1R_2 + C_5R_1R_2 + C_5R
10.616 INVALID-ORDER-616 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-L_1R_1R_2s + s^3\left(C_2L_1L_5R_1R_2 - C_5L_1L_5R_1R_2 + s^2\left(L_1L_5R_1R_2g_m + L_1L_5R_1\right)\right.}{R_1R_2 + s^4\left(C_1C_2L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_2 + 4C_2C_5L_1L_5R_1R_2\right) + s^3\left(C_1L_1L_5R_1 + C_2L_1L_5R_1R_2g_m + 4C_5L_1L_5R_1 + C_5L_1L_5R_1\right) + s^2\left(C_1L_1R_1R_2 + C_2L_5R_1R_2 + C_5L_5R_1R_2 + L_1L_5\right) + s\left(2L_1R_1R_2g_m + 4L_1R_1 + L_1R_2 + L_5R_1R_2g_m\right) + s^2\left(2L_1R_1R_2 + C_2L_1R_1R_2 + C_2L_5R_1R_2 + C_5L_5R_1R_2 + L_5R_1R_2\right) + s^2\left(2L_1R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_1R_2 + L_5R_1R_2\right) + s^2\left(2L_1R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_1R_2\right) + s^2\left(2L_1R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_1R_2\right) + s^2\left(2L_1R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_1R_2 + C_5L_5R_1R_2\right) + s^2\left(2L_1R_1R_2 + 
10.617 INVALID-ORDER-617 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                             \frac{C_2C_5L_1L_5R_1R_2s^4 + s^3\left(C_2C_5L_1R_1R_2R_5 + C_5L_1L_5R_1R_2g_m + C_5L_1L_5R_1\right) + s^2\left(C_2L_1R_1R_2 + C_5L_1R_1R_2 +
10.618 INVALID-ORDER-618 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -L_1R_1R_2R_5s + s^3\left(C_2L_1L_5R_1R_2R_5 - C_5L_1L_5R_1R_2R_5\right) + s^2\left(L_1L_5R_1R_2R_5g_m - L_1L_5R_1R_2 + L_1L_5R_1R_5\right)
H(s) = \frac{-L_1R_1R_2R_5s + s^3\left(C_2L_1L_5R_1R_2R_5 - C_5L_1L_5R_1R_2R_5\right) + s^2\left(L_1L_5R_1R_2R_5g_m - L_1L_5R_1R_2 + L_1L_5R_1R_5\right)}{R_1R_2R_5 + s^4\left(C_1C_2L_1L_5R_1R_2R_5 + C_5L_1L_5R_1R_2R_5 + 4C_2L_1L_5R_1R_2 + C_5L_1L_5R_1R_2 + C_5L_5R_1R_2 + C_5L
10.619 INVALID-ORDER-619 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_{2}C_{5}L_{1}L_{5}R_{1}R_{2}R_{5}s^{4} + s^{3}\left(C_{2}L_{1}L_{5}R_{1}R_{2} + C_{5}L_{1}L_{5}R_{1}R_{2}R_{5}g_{m} - C_{5}L_{1}L_{5}R_{1}R_{2} + C_{5}L_{1}L_{5}R_{1}R_{5}\right) + s^{2}\left(C_{2}L_{1}R_{1}R_{2}R_{5} + L_{1}L_{5}R_{1}R_{2}R_{5}g_{m} - C_{5}L_{1}L_{5}R_{1}R_{2} + C_{5}L_{1}L_{5}R_{1}R_{5}\right) + s^{2}\left(C_{2}L_{1}R_{1}R_{2}R_{5} + L_{1}L_{5}R_{1}R_{5}\right) + s^{2}\left(C_{2}L_{1}R_{1}R_{2} + L_{1}L_{5}R_{1}R_{5}\right) + s^{2}\left(C_{2}L_{1}R_
                                               \frac{C_2C_5L_1L_5R_1R_2R_5s^5 + R_1R_2 + C_5L_1L_5R_1R_2 + C_5L_1L_
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C_2C_5L_1L_5R_1R_2R_5s^4 + s^3\left(C_5L_1L_5R_1R_2R_5g_m - C_5L_1L_5R_1R_2 + C_5L_1L_5R_1R_5\right) + s^2\left(C_2L_1R_1R_2R_5 - C_5L_1L_5R_1R_2R_5 - C_5L_1L_5R_1R_2R_5\right) + s^2\left(C_5L_1L_5R_1R_2R_5 - C_5L_1L_5R_1R_2\right) + s^2\left(C_5L_1L_5R_1R_2R_5 - C_5L_1L_5R_1R_2\right) + s^2\left(C_5L_1L_5R_1R_2R_5 - C_5L_1L_5R_1R_2\right) + s^2\left(C_5L_1L_5R_1R_2 - C_5L_1L_5R_1R_2\right) + s^2\left(C_5L_1R_1R_2R_5 - C_5L_1L_5R_1R_2\right) + s^2\left(C_5L_1R_1R_2 - C_5L_1R_2\right) + s^2\left(C_5L_1R_2 - C_5L_1R_2\right) + s^2\left(C_5L_1R_2\right) + s^2\left(C_5
H(s) = \frac{C_2C_5L_1L_5R_1R_2R_5s^4 + s^3\left(C_5L_1L_5R_1R_2R_5g_m - C_5L_1L_5R_1R_2 + C_5L_1L_5R_1R_2 +
10.621 INVALID-ORDER-621 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                          H(s) = \frac{s^2 \left( C_2 L_1 R_1 R_2 R_5 g_m - C_2 L_1 R_1 R_2 + C_2 L_1 R_1 R_5 \right) + s \left( L_1 R_1 R_5 g_m - L_1 R_1 \right)}{R_1 + s^3 \left( C_1 C_2 L_1 R_1 R_2 + C_1 C_2 L_1 R_1 R_5 \right) + s^2 \left( C_1 L_1 R_1 + 2 C_2 L_1 R_1 R_2 g_m + 4 C_2 L_1 R_1 + C_2 L_1 R_2 + C_2 L_1 R_5 \right) + s \left( C_2 R_1 R_2 + C_2 R_1 R_5 + 2 L_1 R_1 g_m + L_1 \right)}
10.622 INVALID-ORDER-622 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                              H(s) = \frac{-C_2C_5L_1R_1R_2s^2 + L_1R_1g_m + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1 - C_5L_1R_1\right)}{C_1C_2C_5L_1R_1R_2s^3 + C_2R_1 + C_5R_1 + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + 2C_2C_5L_1R_1R_2g_m + 4C_2C_5L_1R_1 + C_2C_5L_1R_2\right) + s\left(C_2C_5R_1R_2 + C_2L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}
10.623 INVALID-ORDER-623 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_1R_1R_2R_5s^3 + s^2\left(C_2L_1R_1R_2R_5g_m - C_2L_1R_1R_2 + C_2L_1R_1R_5 - C_5L_1R_1R_5\right) + s\left(L_1R_1R_5g_m - L_1R_1\right)}{C_1C_2C_5L_1R_1R_2R_5s^4 + R_1 + s^3\left(C_1C_2L_1R_1R_5 + C_1C_5L_1R_1R_5 + C_2C_5L_1R_1R_5 + C_2C_5L_1R_1R_5 + C_2C_5L_1R_1R_5\right) + s^2\left(C_1L_1R_1 + C_2C_5R_1R_2R_5 + 2C_2L_1R_1R_2g_m + 4C_2L_1R_1 + C_2L_1R_2 + C_2L_1R_1 + C_2L_1R_
10.624 INVALID-ORDER-624 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                             H(s) = \frac{L_1 R_1 g_m + s^2 \left(C_2 C_5 L_1 R_1 R_2 R_5 g_m - C_2 C_5 L_1 R_1 R_2 + C_2 C_5 L_1 R_1 R_5\right) + s \left(C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_1 + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_2 R_1 + C_5 R_1 + s^3 \left(C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 + C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_1 + C_2 C_5 L_1 R_1 R_2 g_m + 4 C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_5\right) + s \left(C_2 C_5 R_1 R_2 + C_2 C_5 R_1 R_5 + C_2 L_1 + 2 C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_5\right)}
10.625 INVALID-ORDER-625 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                          H(s) = \frac{L_1 R_1 g_m + s^3 \left(C_2 C_5 L_1 L_5 R_1 R_2 g_m + C_2 C_5 L_1 L_5 R_1\right) + s^2 \left(-C_2 C_5 L_1 R_1 R_2 + C_5 L_1 L_5 R_1 g_m\right) + s \left(C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_1 - C_5 L_1 R_1\right)}{C_1 C_2 C_5 L_1 L_5 R_1 s^4 + C_2 R_1 + C_5 R_1 + s^3 \left(C_1 C_2 C_5 L_1 R_1 R_2 + C_2 C_5 L_1 L_5\right) + s^2 \left(C_1 C_2 L_1 R_1 + C_1 C_5 L_1 R_1 + 2 C_2 C_5 L_1 R_1 R_2 g_m + 4 C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_2 + C_2 C_5 L_5 R_1\right) + s \left(C_2 C_5 R_1 R_2 + C_2 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}
10.626 INVALID-ORDER-626 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_5R_1R_2s^4 - L_1R_1s + s^3\left(C_2L_1L_5R_1R_2g_m + C_2L_1L_5R_1 - C_5L_1L_5R_1\right) + s^2\left(-C_2L_1R_1R_2 + L_1L_5R_1g_m\right)}{C_1C_2C_5L_1L_5R_1R_2s^5 + R_1 + s^4\left(C_1C_2L_1L_5R_1 + C_2C_5L_1L_5R_1 + 2C_2C_5L_1L_5R_1 + C_2C_5L_1L_5R_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_2L_1L_5 + 2C_5L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + 2C_2L_1R_1R_2g_m + 4C_2L_1R_1 + C_2L_1R_2 + C_2L_1R_1R_2\right)}
10.627 INVALID-ORDER-627 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_1 R_1 g_m + s^3 \left(C_2 C_5 L_1 L_5 R_1 R_2 g_m + C_2 C_5 L_1 L_5 R_1\right) + s^2 \left(C_2 C_5 L_1 R_1 R_2 R_5 g_m - C_2 C_5 L_1 R_1 R_2 + C_2 C_5 L_1 R_1 R_5 + C_5 L_1 L_5 R_1 g_m\right) + s \left(C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_1 + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_1 C_2 C_5 L_1 L_5 R_1 s^4 + C_2 R_1 + C_5 R_1 + s^3 \left(C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_5 + C_2 C_5 L_1 R_1 + C_1 C_5 L_1 R_1 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_2 
10.628 INVALID-ORDER-628 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -C_2C_5L_1L_5R_1R_2R_5s^4-L_1R_1R_5s+s^3\left(C_2L_1L_5R_1R_2R_5q_m-C_2L_1L_5R_1R_2+C_2L_1L_5R_1R_5\right)
H(s) = \frac{-C_2C_5L_1L_5R_1R_2R_5s^5 - L_1R_1R_5s + s^6(C_2L_1L_5R_1R_2R_5g_m - C_2L_1L_5R_1R_2 + C_2L
10.629 INVALID-ORDER-629 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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10.620 INVALID-ORDER-620 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.631 INVALID-ORDER-631 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                                                                                                             H(s) = \frac{C_2L_1R_1R_5s^2 + s^3\left(C_2L_1L_2R_1R_5g_m - C_2L_1L_2R_1\right) + s\left(L_1R_1R_5g_m - L_1R_1\right)}{C_1C_2L_1L_2R_1s^4 + R_1 + s^3\left(C_1C_2L_1R_1R_5 + 2C_2L_1L_2R_1g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_1 + 4C_2L_1R_1 + C_2L_1R_5 + C_2L_2R_1\right) + s\left(C_2R_1R_5 + 2L_1R_1g_m + L_1\right)}
10.632 INVALID-ORDER-632 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                    H(s) = \frac{-C_2C_5L_1L_2R_1s^3 + C_2L_1L_2R_1g_ms^2 + L_1R_1g_m + s\left(C_2L_1R_1 - C_5L_1R_1\right)}{C_1C_2C_5L_1L_2R_1s^4 + C_2R_1 + C_5R_1 + s^3\left(2C_2C_5L_1L_2R_1g_m + C_2C_5L_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + 4C_2C_5L_1R_1 + C_2C_5L_2R_1\right) + s\left(C_2L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}
10.633 INVALID-ORDER-633 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2R_1R_5s^4 + s^3\left(C_2L_1L_2R_1R_5g_m - C_2L_1L_2R_1\right) + s^2\left(C_2L_1R_1R_5 - C_5L_1R_1R_5\right) + s\left(L_1R_1R_5g_m - L_1R_1\right)}{C_1C_2C_5L_1L_2R_1R_5s^5 + R_1 + s^4\left(C_1C_2L_1L_2R_1 + 2C_2C_5L_1L_2R_1g_m + C_2C_5L_1R_1R_5 + 4C_2C_5L_1R_1R_5 + 4C_2C_5L_1R_1R_5 + 2C_2L_1L_2R_1g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_1 + 4C_2L_1R_1 + 2C_2L_1R_1 + 2C_2L_1R_1R_5g_m + C_2L_1R_1R_5g_m +
10.634 INVALID-ORDER-634 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                              H(s) = \frac{L_1R_1g_m + s^3\left(C_2C_5L_1L_2R_1R_5g_m - C_2C_5L_1L_2R_1\right) + s^2\left(C_2C_5L_1R_1R_5 + C_2L_1L_2R_1g_m\right) + s\left(C_2L_1R_1 + C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{C_1C_2C_5L_1L_2R_1s^4 + C_2R_1 + c_5R_1 + s^3\left(C_1C_2C_5L_1R_1R_5 + 2C_2C_5L_1L_2R_1g_m + C_2C_5L_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + 4C_2C_5L_1R_1 + C_2C_5L_1R_5 + C_2C_5L_2R_1\right) + s\left(C_2C_5R_1R_5 + C_2L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}
10.635 INVALID-ORDER-635 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                          H(s) = \frac{C_2C_5L_1L_2L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(-C_2C_5L_1L_2R_1 + C_2C_5L_1L_5R_1\right) + s^2\left(C_2L_1L_2R_1g_m + C_5L_1L_5R_1g_m\right) + s\left(C_2L_1R_1 - C_5L_1R_1\right)}{C_2R_1 + C_5R_1 + s^4\left(C_1C_2C_5L_1L_2R_1 + C_1C_5C_5L_1L_5R_1\right) + s^3\left(2C_2C_5L_1L_2R_1g_m + C_2C_5L_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + 4C_2C_5L_1R_1 + C_2C_5L_2R_1 + C_2C_5L_3R_1\right) + s\left(C_2L_1R_1 + C_2C_5L_1R_1 + C_2C_5L_3R_1\right) + s\left(C_2L_1R_1 + C_2C_5L_3R_1\right) + s\left(C_2L_1R_1 + C_2C_5L_3R_1\right) + s\left(C_2L_1R_1 + C_3R_3R_1\right) + s\left(C_2R_1R_1 + C_3R_1R_1\right) + s\left(C_2R_1R
10.636 INVALID-ORDER-636 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2L_5R_1g_ms^4 + L_1L_5R_1g_ms^2 - L_1R_1s + s^3\left(-C_2L_1L_2R_1 + C_2L_1L_5R_1 - C_5L_1L_5R_1\right)}{C_1C_2C_5L_1L_2L_5R_1s^6 + R_1 + s^5\left(2C_2C_5L_1L_2L_5R_1g_m + C_2C_5L_1L_2L_5\right) + s^4\left(C_1C_2L_1L_2R_1 + C_1C_5L_1L_5R_1 + 4C_2C_5L_1L_5R_1 + 4C_2C_5L_1L_5R_1\right) + s^3\left(2C_2L_1L_2R_1g_m + C_2L_1L_5 + 2C_5L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + 4C_2L_1R_1 + C_2C_5L_1L_5R_1 + C_2C_5L_1L_5R_1\right) + s^2\left(C_1L_1R_1 + 4C_2L_1R_1 + C_2C_5L_1L_5R_1\right) + s^2\left(C_1L_1R_1 + C_2C_
10.637 INVALID-ORDER-637 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_2C_5L_1L_2L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(C_2C_5L_1L_2R_1R_5g_m - C_2C_5L_1L_2R_1 + C_2C_5L_1L_5R_1\right) + s^2\left(C_2C_5L_1R_1R_5 + C_2L_1L_2R_1g_m + C_5L_1L_5R_1g_m\right) + s\left(C_2L_1R_1 + C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{C_2R_1 + C_5R_1 + s^4\left(C_1C_2C_5L_1L_2R_1 + C_1C_5L_1L_2R_1\right) + s^3\left(C_1C_2C_5L_1L_2R_1 + C_2C_5L_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + C_2C_5L_1R_1 + 
10.638 INVALID-ORDER-638 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -C_2C_5L_1L_2L_5R_1R_5s^5 - L_1R_1R_5s + s^4\left(C_2L_1L_2L_5R_1R_5g_m - C_2L_1L_2L_5R_1\right) + s^3\left(-C_2L_1L_2R_1R_5s - C_2L_1L_2R_1R_5s - C_2L_1L_2R_1R_5s - C_2L_1L_2L_5R_1R_5s - C_2L_1L_2R_5s - C_2L_2R_5s - C_2L_2R_5s - C_2L_2R_5s - C_2L_2
H(s) = \frac{-C_2C_5L_1L_2L_5R_1R_5s^6 - L_1R_1R_5s + s \cdot (C_2L_1L_2L_5R_1R_5g_m - C_2L_1L_2L_5R_1) + s \cdot (-C_2L_1L_2R_1R_5 + c_1C_2L_1L_2R_1R_5 + c_1C_2L_1L_
10.639 INVALID-ORDER-639 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                        s^{5}\left(C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}g_{m}-C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}\right)+s^{4}\left(C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}g_{m}\right)+s^{3}\left(C_{2}L_{1}L_{2}R_{1}R_{5}g_{m}-C_{2}L_{1}L_{2}R_{1}+C_{2}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{1}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L_{5}R_{1}+C_{5}L_{5}L
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10.630 INVALID-ORDER-630 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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H(s) = \frac{s \cdot (C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_1 L_2 L_5 R_1) + s \cdot (C_2 C_5 L_1 L_2 R_1 R_5 + C_2 C_5 L_1 L_2 R_1 R_5) + s \cdot (C_2 L_1 L_2 R_1 R_5 + C_2 C_5 L_1 L_2 R_1 R_5) + s \cdot (C_2 L_1 L_2 R_1 R_5 R_1 R_5 + C_2 C_5 L_1 L_2 R_1 R_5) + s \cdot (C_2 L_1 L_2 R_1 R_5 R_
10.641 INVALID-ORDER-641 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5, \infty\right)
                                                                                                                      H(s) = \frac{s^3 \left(C_2 L_1 L_2 R_1 R_5 g_m - C_2 L_1 L_2 R_1\right) + s^2 \left(C_2 L_1 R_1 R_2 R_5 g_m - C_2 L_1 R_1 R_2 + C_2 L_1 R_1 R_5\right) + s \left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{C_1 C_2 L_1 L_2 R_1 s^4 + R_1 + s^3 \left(C_1 C_2 L_1 R_1 R_2 + C_2 L_1 L_2 R_1 g_m + C_2 L_1 L_2\right) + s^2 \left(C_1 L_1 R_1 + 2 C_2 L_1 R_1 R_2 g_m + 4 C_2 L_1 R_1 + C_2 L_1 R_5 + C_2 L_2 R_1\right) + s \left(C_2 R_1 R_2 + C_2 R_1 R_5 + 2 L_1 R_1 g_m + L_1\right)}
10.642 INVALID-ORDER-642 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
                                              H(s) = \frac{-C_2C_5L_1L_2R_1s^3 + L_1R_1g_m + s^2\left(-C_2C_5L_1R_1R_2 + C_2L_1L_2R_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1 - C_5L_1R_1\right)}{C_1C_2C_5L_1L_2R_1s^4 + C_2R_1 + C_5R_1 + s^3\left(C_1C_2C_5L_1R_1R_2 + 2C_2C_5L_1L_2R_1g_m + C_2C_5L_1R_1 + 2C_2C_5L_1R_1R_2g_m + 4C_2C_5L_1R_1 + C_2C_5L_1R_2 + C_2C_5L_2R_1\right) + s\left(C_2C_5R_1R_2 + C_2L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}
10.643 INVALID-ORDER-643 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}s^{4} + s^{3}\left(-C_{2}C_{5}L_{1}R_{1}R_{2}R_{5} + C_{2}L_{1}L_{2}R_{1}R_{5}g_{m} - C_{2}L_{1}L_{2}R_{1}\right) + s^{2}\left(C_{2}L_{1}R_{1}R_{2}R_{5}g_{m} - C_{2}L_{1}R_{1}R_{2} + C_{2}L_{1}R_{1}R_{2}R_{5}g_{m} - C_{2}L_{1}L_{2}R_{1}\right) + s^{2}\left(C_{2}L_{1}R_{1}R_{2}R_{5}g_{m} - C_{2}L_{1}R_{1}R_{2} + C_{2}L_{1}R_{1}R_{2}R_{5}g_{m} - C_{2}L_{1}R_{1}R_{2}g_{m} - 
H(s) = \frac{-C_2C_5L_1L_2R_1R_5s^2 + s^2\left(-C_2C_5L_1R_1R_2R_5 + C_2L_1L_2R_1R_5g_m - C_2L_1L_2R_1\right) + s^2\left(C_2L_1R_1R_2R_5g_m - C_2L_1R_1R_2 + C_2L_1R_1R_2 +
10.644 INVALID-ORDER-644 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_1 R_1 g_m + s^3 \left(C_2 C_5 L_1 L_2 R_1 R_5 g_m - C_2 C_5 L_1 L_2 R_1\right) + s^2 \left(C_2 C_5 L_1 R_1 R_2 R_5 g_m - C_2 C_5 L_1 R_1 R_5 + C_2 L_1 L_2 R_1 g_m\right) + s \left(C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_1 + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_1 C_2 C_5 L_1 L_2 R_1 s^4 + C_2 R_1 + C_5 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 + C_2 C_5 L_1 L_2 R_1 g_m + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_1 + C_2 C_5 L_1 R_2 + C_2 C_5 L_1 R_
10.645 INVALID-ORDER-645 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_2C_5L_1L_2L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(-C_2C_5L_1L_2R_1 + C_2C_5L_1L_5R_1R_2g_m + C_2C_5L_1L_5R_1\right) + s^2\left(-C_2C_5L_1R_1R_2 + C_2L_1L_2R_1g_m + C_5L_1L_5R_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1 - C_5L_1R_1\right)}{C_2R_1 + C_5R_1 + s^4\left(C_1C_2C_5L_1L_2R_1 + C_1C_5L_1L_2R_1\right) + s^3\left(C_1C_2C_5L_1R_1R_2 + C_2C_5L_1L_2R_1 + C_2C_5L_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_5L_1R_1 + C_2C_5L_1R_1 + C_2C_5L_1R
10.646 INVALID-ORDER-646 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2L_5R_1s^5 - L_1R_1s + s^4\left(-C_2C_5L_1L_5R_1R_2 + C_2L_1L_2L_5R_1g_m\right) + s^3\left(-C_2L_1L_2R_1 + C_2L_1L_5R_1R_2g_m + C_2L_1L_5R_1R_2g_m
10.647 INVALID-ORDER-647 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_2C_5L_1L_2L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(C_2C_5L_1L_2R_1R_5g_m - C_2C_5L_1L_2R_1 + C_2C_5L_1L_5R_1\right) + s^2\left(C_2C_5L_1R_1R_2R_5g_m - C_2C_5L_1R_1R_2 + C_2C_5L_1R_1R_5 + C_2L_1L_2R_1g_m + C_5L_1L_5R_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2C_5L_1L_2R_1g_m + C_2C_5L_1R_1R_2 + C_
10.648 INVALID-ORDER-648 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{1}{C_1C_2C_5L_1L_2L_5R_1R_5s^6 + R_1R_5 + s^5\left(C_1C_2C_5L_1L_5R_1R_2R_5 + C_1C_2L_1L_5R_1R_5 + C_1C_2L_
10.649 INVALID-ORDER-649 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                             \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m - C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_2 C_5 L_1 L_5 R_1 R_2 + C_2 C_5 L_1 L_5 R_1 R_5 + C_2 L_1 L_2 L_5 R_1 g_m \right) + s^3 \left(C_2 L_1 L_2 R_1 R_5 g_m - C_2 C_5 L_1 L_5 R_1 R_5 + C_2 L_1 L_5 R_1 R_5 + C_2 L_1 L_2 L_5 R_1 g_m \right) + s^3 \left(C_2 L_1 L_2 R_1 R_5 g_m - C_2 C_5 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_1 L_5 R_1 R_5 \right) + s^4 \left(C_1 C_2 L_1 L_5 R_1 R_5 + C_2 C_5 L_
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 $s^{5} \left(C_{2} C_{5} L_{1} L_{2} L_{5} R_{1} R_{5} g_{m}-C_{2} C_{5} L_{1} L_{2} L_{5} R_{1}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{3} \left(C_{2} L_{1} L_{2} R_{1} R_{5} g_{m}-C_{2} C_{5} L_{1} L_{2} L_{5} R_{1}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{3} \left(C_{2} L_{1} L_{2} R_{1} R_{5} g_{m}-C_{2} C_{5} L_{1} L_{2} L_{5} R_{1}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{3} \left(C_{2} L_{1} L_{2} R_{1} R_{5} g_{m}-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{5} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}+C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}\right)+s^{4} \left(-C_{2} C_{5} L_{1} L_{2} R_{1} R_{5}$

10.640 INVALID-ORDER-640 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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H(s) = \frac{s \cdot (C_2 C_5 L_1 L_2 L_5 R_1 s^6 + R_1 + s^5 (C_1 C_2 C_5 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5 + C_2 C_5 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5 + C_2 C_5 L_1 L_2 R_1 R_5 R_1 R_2 R_1 R_2
10.651 INVALID-ORDER-651 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, R_5, \infty\right)
H(s) = \frac{s^3 \left(C_2 L_1 L_2 R_1 R_2 F_5 g_m - C_2 L_1 L_2 R_1 R_2 + C_2 L_1 L_2 R_1 R_5\right) + s^2 \left(L_1 L_2 R_1 R_5 g_m - L_1 L_2 R_1\right) + s \left(L_1 R_1 R_2 R_5 g_m - L_1 R_1 R_2 + L_1 R_1 R_5\right)}{R_1 R_2 + R_1 R_5 + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_2 + C_1 L_2 R_1 R_5\right) + s^3 \left(C_1 L_1 L_2 R_1 + 2 C_2 L_1 L_2 R_1 R_2 + C_2 L_1 L_2 R_1 + C_2 L_1 L_2 R_5\right) + s^2 \left(C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_5 + C_2 L_2 R_1 R_5 + C_2 L_2 R_1 R_5 + 2 L_1 L_2 R_1 g_m + L_1 L_2\right) + s \left(2 L_1 R_1 R_2 g_m + 4 L_1 R_1 + L_1 R_2 + L_1 R_3\right)}
10.652 INVALID-ORDER-652 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2R_1R_2s^4 + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 - C_5L_1L_2R_1\right) + s^2\left(-C_5L_1R_1R_2 + L_1L_2R_1g_m\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_5L_1L_2R_1R_2s^5 + R_1 + s^4\left(C_1C_2L_1L_2R_1 + 2C_2C_5L_1L_2R_1 + 2C_2C_5L_1L_2R_1 + C_2C_5L_1L_2R_1\right) + s^3\left(C_1C_5L_1R_1R_2 + C_2C_5L_1L_2R_1g_m + C_5L_1L_2\right) + s^3\left(C_1L_1R_1 + C_2L_2R_1 + 2C_5L_1R_1R_2 + C_2C_5L_1R_1R_2 + C_2C_5L_1R_1R
10.653 INVALID-ORDER-653 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -C_2C_5L_1L_2R_1R_2R_5s^4 + s^3\left(C_2L_1L_2R_1R_2R_5g_m - C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_5 - C_5L_1L_2R_1R_2 + C_2L_1L_2R_1R_5 - C_5L_1L_2R_1R_2R_5g_m - C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_5 - C_5L_1L_2R_1R_5 - C
H(s) = \frac{-C_2C_5L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2R_5g_m - C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_5 - C_5L_1L_2R_1R_5 - C_5L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_5 - C_5L_1L_2R_1R_5 + C_2C_5L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_5 - C_5L_1L_2R_1R_5 + C_2C_5L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_5 - C_5L_1L_2R_1R_5 + C_2C_5L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2R_5s^4 + s^3(C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_5 + 
10.654 INVALID-ORDER-654 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
10.655 INVALID-ORDER-655 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_2 C_5 L_1 L_2 L_5 R_1 g_m\right) + s^4 \left(-C_2 C_5 L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 - C_5 L_1 L_2 R_1 + C_5 L_1 L_2 R_1 + C_5 L_1 L_2 R_1\right) + s^2 \left(-C_4 C_5 L_1 L_2 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_2 C_5 L_1 L_2 R_1 + C_1 C_5 L_1 L_2 R_1 + C_2 C_5 L_1 L
10.656 INVALID-ORDER-656 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2L_5R_1R_2s^5 - L_1R_1R_2s + s^4\left(C_2L_1L_2L_5R_1R_2g_m + C_2L_1L_2L_5R_1 - C_5L_1L_2L_5R_1\right)}{C_1C_2C_5L_1L_2L_5R_1R_2s^6 + R_1R_2 + s^5\left(C_1C_2L_1L_2L_5R_1 + C_2C_5L_1L_2L_5R_1 + C_2C_5L_1L_2L_5R_1\right) + s^4\left(C_1C_2L_1L_2R_1R_2 + C_1C_5L_1L_2R_1R_2 + C_2C_5L_2L_5R_1R_2 + C_2C_5L_1L_2L_5R_1\right) + s^4\left(C_1C_2L_1L_2R_1R_2 + C_2C_5L_1L_2L_5R_1 + C_2C_5L_1L_2L_5R_1\right) + s^4\left(C_1C_2L_1L_2R_1R_2 + C_2C_5L_1L_2L_5R_1\right) + s^4\left(C_1C_2L_1L_2L_2R_1R_2 + C_2C_5L_1L_2L_5R_1\right) + s^4\left(C_1C_2L_1L_2
10.657 INVALID-ORDER-657 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_2 C_5 L_1 L_2 L_5 R_1\right) + s^4 \left(C_2 C_5 L_1 L_2 R_1 R_2 + C_2 C_5 L_1 L_2 R_
10.658 INVALID-ORDER-658 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{1}{C_1C_2C_5L_1L_2L_5R_1R_2R_5s^6 + R_1R_2R_5 + s^5\left(C_1C_2L_1L_2L_5R_1R_2 + C_1C_2L_1L_2L_5R_1R_5 + C_2C_5L_1L_2L_5R_1R_5 + C_2C_5L_2L_5R_1R_5 + C_
10.659 INVALID-ORDER-659 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      s^{5}\left(C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}R_{5}g_{m}-C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}\right)+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}\right)+s^{4}\left(C_{2}L_{1}
                                                \frac{c_1 c_2 c_3 L_1 L_2 L_5 g_m - c_3 L_1 L_
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10.650 INVALID-ORDER-650 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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H(s) = \frac{1}{R_1R_2 + R_1R_5 + s^6 \left( C_1C_2C_5L_1L_2L_5R_1R_2 + C_1C_2C_5L_1L_2L_5R_1R_5 \right) + s^5 \left( C_1C_2C_5L_1L_2L_5R_1 + 2C_2C_5L_1L_2L_5R_1 + 2C_2C
10.661 INVALID-ORDER-661 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, R_5, \infty\right)
H(s) = \frac{C_2L_1R_1R_2R_5s^2 + s^3\left(C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_5\right) + s\left(L_1R_1R_2R_5g_m - L_1R_1R_2 + L_1R_1R_5\right)}{R_1R_2 + R_1R_5 + s^4\left(C_1C_2L_1L_2R_1R_2 + C_1L_2L_1R_2\right) + s^3\left(C_1C_2L_1R_1R_2R_5 + 2C_2L_1L_2R_1R_2g_m + 4C_2L_1L_2R_1 + C_2L_1L_2R_5\right) + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_5 + 4C_2L_1R_1R_2 + C_2L_1R_2R_5 + C_2L_2R_1R_5\right) + s\left(C_2R_1R_2R_5 + 2C_2L_1R_2R_5 + 2C_2L_1R_2R_5 + 2C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_2 + C_2L_1R_1R_2 + C_2L_1R_2R_5 + 2C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_2 + C_2L_1R_2R_5 + 2C_2L_1R_2R_5 + 2C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_2 + C_2L_1R_2R_5 + 2C_2L_1R_2R_5 + 2C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_2 + C_2L_1R_2R_5 + 2C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_2 + C_2L_1R_2R_5\right) + s^2\left(C_1R_1R_2R_5\right) + s^2\left(C_1R_
10.662 INVALID-ORDER-662 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{-C_2C_5L_1L_2R_1R_2s^4 + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1\right) + s^2\left(C_2L_1R_1R_2 - C_5L_1R_1R_2\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_5L_1L_2R_1R_2s^5 + R_1 + s^4\left(C_1C_2L_1L_2R_1 + 2C_2C_5L_1L_2R_1R_2g_m + 4C_2C_5L_1L_2R_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_2C_5L_1R_1R_2 + 4C_2C_5L_1R_1R_2 + C_2C_5L_2R_1R_2 + C_2L_1L_2\right) + s^2\left(C_1L_1R_1 + C_2L_1R_2 + C_2L_2R_1 + 2C_5L_1R_1R_2 + C_2C_5L_1R_1R_2 + C_2C_5L_1R_1R
10.663 INVALID-ORDER-663 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}R_{5}s^{4} + s^{3}\left(C_{2}L_{1}L_{2}R_{1}R_{2}R_{5}g_{m} - C_{2}L_{1}L_{2}R_{1}R_{2} + C_{2}L_{1}L_{2}R_{1}R_{5}\right) + s^{2}\left(C_{2}L_{1}L_{2}R_{1}R_{2} + C_{2}L_{1}L_{2}R_{1}R_{5}\right) + s^{2}\left(C_{2}L_{1}L_{2}R_{1}R_{2} + C_{2}L_{1}L_{2}R_{1}R_{5}\right) + s^{2}\left(C_{2}L_{1}L_{2}R_{1}R_{5} + C_{2}L_{1}L_{2}R_{1}R_{5}\right) + s^{2}\left(C_{2}
                                                              \frac{-C_2C_5L_1L_2R_1R_2R_5s^5 + s^-(C_2L_1L_2R_1R_2R_5s^5 + s^-(C_2L_1L_2R_1R_2+C_2L_1L_2R_1R_2 + C_2L_1L_2R_1R_2) + s^-(C_2L_1L_2R_1R_2R_5s^5 + R_1R_2 + R_1R_5 + s^-(C_2L_1L_2R_1R_2 + C_2C_5L_1L_2R_1R_2 + C_2C_5L_1L_2R
10.664 INVALID-ORDER-664 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^4 \left(C_2 C_5 L_1 L_2 R_1 R_2 R_5 g_m - C_2 C_5 L_1 L_2 R_1 R_2 + C_2 C_5 L_1 L_2 R_1 R_2 + C_2 L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 R_2 + C_2 C_5 L_1 R_2 R_2 +
10.665 INVALID-ORDER-665 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_2 C_5 L_1 L_2 R_1 R_2 + C_2 C_5 L_1 L_2 R_1 R_2 + S^3 \left(C_2 L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 + C_5 L_1 L_5 R_1 R_2 g_m + C_2 L_4 L_4 R_1 R_2 g_m + C_4 L_4 L_5 R_1 R_2 g_m + C_4 L_5 L_4 L_5 R_1 R_2 g_m + C_4 L_5 L_4 R_1 R_2 g_m + C_4 L_5 L_4 R_1 R_2 g_m + C_4 L_5 L_5 R_1 R
10.666 INVALID-ORDER-666 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}s^{5}-L_{1}R_{1}R_{2}s+s^{4}\left(C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}\right)+s^{3}\left(-C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}L_{2}L_{2}R_{
H(s) = \frac{-C_2C_5L_1L_2L_5R_1R_2s^5 - L_1R_1R_2s + s^4\left(C_2L_1L_2L_5R_1R_2g_m + C_2L_1L_2L_5R_1\right) + s^3\left(-C_2L_1L_2L_5R_1R_2s^6 + R_1R_2 + s^5\left(C_1C_2L_1L_2L_5R_1 + 2C_2C_5L_1L_2L_5R_1 + 2C_2C_5L_1L_2L_5R_1\right) + s^4\left(C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_5R_1R_2 + 4C_2C_5L_1L_5R_1R_2 + 4C_2C_5L_1L_5R_1R_2 + C_2C_5L_2L_5R_1R_2 + 
10.667 INVALID-ORDER-667 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       s^{5}\left(C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}\right)+s^{4}\left(C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}R_{5}g_{m}-C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1
                                                          s^{5}\left(C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}g_{m}+C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}\right)+s^{4}\left(C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{5}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1}R_{2}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1}+C_{2}C_{5}L_{1}L_{2}R_{1
10.668 INVALID-ORDER-668 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
  H(s) = \frac{1}{C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 s^6 + R_1 R_2 R_5 + s^5 \left( C_1 C_2 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 L_1 L_2 L_5 R_1 R_5 + 2 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 + C_1 C_2 L_1 L_2 R_1 R_2 R_5 + C_1 C_2 L_2 R_1 R_2 R_5 R_2 R_5 R_5 R_5 R_5
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10.660 INVALID-ORDER-660 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{C_2 L_2 R_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.669 INVALID-ORDER-669 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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 $s^5 \left(C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 g_m - C_2 C_5 L_1 \right)$

 $H(s) = \frac{1}{R_1R_2 + R_1R_5 + s^6 \left(C_1C_2C_5L_1L_2L_5R_1R_2 + C_1C_2C_5L_1L_2L_5R_1R_2 + C_1C_2L_1L_2L_5R_1 + C_2C_5L_1L_2L_5R_1 + C_2C_5L_2L_5R_1 + C_2C_5L_2L_5R_1 + C_2C_5$

10.670 INVALID-ORDER-670
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{1}{R_1 R_2 + R_1 R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 L_2 L_5 R_1 R_5 + C_1 C_2 L_2 L_5 R_1 R_5 + C_1 C_2 L_2 L_5 R_1$

10.671 INVALID-ORDER-671
$$Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 - C_5L_1R_2\right) + s\left(-C_5R_1R_2 + L_1R_2g_m + L_1\right)}{s^3\left(2C_1C_5L_1R_1R_2g_m + 4C_1C_5L_1R_1 + C_1C_5L_1R_2\right) + s^2\left(C_1L_1 + 2C_5L_1R_2g_m + 4C_5L_1\right) + s\left(2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

10.672 INVALID-ORDER-672
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, \frac{R_5}{C_5R_5s + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_1L_1R_1R_2R_5g_m - C_1L_1R_1R_2 + C_1L_1R_1R_5 - C_5L_1R_2R_5\right) + s\left(-C_5R_1R_2R_5 + L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(2C_1C_5L_1R_1R_2R_5g_m + 4C_1C_5L_1R_1R_5 + C_1C_5L_1R_2R_5\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_5 + 2C_5L_1R_2R_5g_m + 4C_5L_1R_5\right) + s\left(2C_5R_1R_2R_5g_m + 4C_5R_1R_5 + C_5R_2R_5 + 2L_1R_2g_m + 4L_1\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(2C_1C_5L_1R_1R_2R_5g_m + 4C_1C_5L_1R_1R_5 + C_1C_5L_1R_2R_5\right) + s\left(-C_5R_1R_2R_5 + L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}$$

10.673 INVALID-ORDER-673
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_1 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_1 R_2 \right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_1 R_5\right) + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_2 + C_5 R_1 R_5 + L_1 R_2 g_m + L_1\right)}{s^3 \left(2 C_1 C_5 L_1 R_1 R_2 g_m + 4 C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 L_1 + 2 C_5 L_1 R_2 g_m + 4 C_5 L_1\right) + s \left(2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 + C_5 R_5\right) + 1}$$

10.674 INVALID-ORDER-674
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_5 L_1 L_5 R_1\right) + s^3 \left(-C_1 C_5 L_1 R_1 R_2 + C_5 L_1 L_5 R_2 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 - C_5 L_1 R_2 + C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1\right) + s \left(-C_5 R_1 R_2 + L_1 R_2 g_m + L_1\right)}{C_1 C_5 L_1 L_5 s^4 + s^3 \left(2 C_1 C_5 L_1 R_1 R_2 g_m + 4 C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_2\right) + s^2 \left(C_1 L_1 + 2 C_5 L_1 R_2 g_m + 4 C_5 L_1 + C_5 L_5\right) + s \left(2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2\right) + 1}$$

10.675 INVALID-ORDER-675
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_2s^4 - R_1R_2 + s^3\left(C_1L_1L_5R_1R_2g_m + C_1L_1L_5R_1 - C_5L_1L_5R_2\right) + s^2\left(-C_1L_1R_1R_2 - C_5L_5R_1R_2 + L_1L_5R_2g_m + L_1L_5\right) + s\left(-L_1R_2 + L_5R_1R_2g_m + L_5R_1\right)}{2R_1R_2g_m + 4R_1 + R_2 + s^4\left(2C_1C_5L_1L_5R_1R_2g_m + 4C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_2\right) + s^3\left(C_1L_1L_5 + 2C_5L_1L_5R_2g_m + 4C_5L_1L_5\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_1R_2\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2g_m + 4C_5L_1R_2\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + 2C_5L_5R_1R_2\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + 2C_1L_1R_2\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_2\right) + s^$$

10.676 INVALID-ORDER-676
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_5 L_1 L_5 R_1 \right) + s^3 \left(C_1 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_1 R_2 g_m + C_5 L_1 L_5 \right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_5 L_1 R_2 R_5 g_m - C_5 L_1 R_2 + C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1 \right) + s \left(C_5 R_1 R_2 R_5 g_m - C_5 L_1 R_2 R_5 g_m + C_5 L_1 R_2 R_5$$

10.677 INVALID-ORDER-677
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_2R_5s^4 - R_1R_2R_5 + s^3\left(C_1L_1L_5R_1R_2R_5g_m - C_1L_1L_5R_1R_2 + C_1L_1L_5R_1R_5 - C_5L_1L_5R_2R_5\right) + s^2\left(-C_1L_1R_1R_2R_5 - C_5L_5R_1R_2R_5 + L_1L_5R_2R_5g_m - L_1L_5R_2 + L_1L_5R_2R_5g_m - L_1L_5R_2R_5g_m + 4C_1L_1L_5R_1R_2R_5g_m + 4C_1L_1R_2R_5g_m + 4C_1L_1R_1R_2R_5g_m + 4C_1L_1R_1R_2R$$

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10.678 INVALID-ORDER-678 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)
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 $H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^4 \left(C_1 C_5 L_1 L_5 R_1 R_2 R_5 g_m - C_1 C_5 L_1 L_5 R_1 R_2 + C_1 C_5 L_1 L_5 R_1 R_2 + C_1 C_5 L_1 L_5 R_1 R_2 + C_1 L_5 R_1 R_2 g_m + C_1 L_1 L_5 R_1 R_2 g_m + C_1 L_1 L_5 R_2 R_5 g_m - C_5 L_1 L_5 R_2 + C_5 L_1 L_5 R_2 + C_5 L_1 L_5 R_2 + C_5 L_1 L_5 R_3 + s^2 \left(C_1 L_1 R_1 R_2 R_5 g_m - C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_2 R_5 g_m - C_5 L_5 R_1 R_2 R_5 g_m - C_5 L_1 L_5 R_2 R_5 g_m - C_5 L_5 R_1 R_2 R$

10.679 INVALID-ORDER-679
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2, \infty, \infty, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$$

 $H(s) = \frac{R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_5L_1L_5R_1R_2R_5g_m - C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_2R_5g_m - C_5L_1L_5R_2 + C_5L_1L_5R_2 +$

10.680 INVALID-ORDER-680
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, R_5, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_2L_1R_5\right) + s\left(C_2R_1R_5 + L_1R_5g_m - L_1\right)}{2R_1g_m + s^3\left(4C_1C_2L_1R_1 + C_1C_2L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 4C_2L_1\right) + s\left(4C_2R_1 + C_2R_5 + 2L_1g_m\right) + 1}$$

10.681 INVALID-ORDER-681
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_1g_m + s^3 \left(C_1C_2L_1R_1 - C_1C_5L_1R_1\right) + s^2 \left(C_1L_1R_1g_m + C_2L_1 - C_5L_1\right) + s \left(C_2R_1 - C_5R_1 + L_1g_m\right)}{4C_1C_2C_5L_1R_1s^4 + s^3 \left(C_1C_2L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 4C_2C_5L_1\right) + s^2 \left(4C_2C_5R_1 + 2C_5L_1g_m\right) + s \left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.682 INVALID-ORDER-682
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, \frac{R_5}{C_5R_5s + 1}, \infty\right)$$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^3\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_2L_1R_5 - C_5L_1R_5\right) + s\left(C_2R_1R_5 - C_5R_1R_5 + L_1R_5g_m - L_1\right)}{4C_1C_2C_5L_1R_1R_5s^4 + 2R_1g_m + s^3\left(4C_1C_2L_1R_1 + C_1C_2L_1R_5 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 4C_2C_5R_1R_5 + 4C_2L_1 + 2C_5L_1R_5g_m\right) + s\left(4C_2R_1 + C_2R_5 + 2C_5R_1R_5g_m + C_5R_5 + 2L_1g_m\right) + 1}{4C_1C_2C_5L_1R_1R_5s^4 + 2R_1g_m + s^3\left(4C_1C_2L_1R_1 + C_1C_2L_1R_5 + 2C_1C_5L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 4C_2C_5R_1R_5 + 4C_2L_1 + 2C_5L_1R_5g_m\right) + s\left(4C_2R_1 + C_2R_5 + 2C_5R_1R_5 + 2C_5R_1R_5\right) + s\left(4C_2R_1 + C_2R_5 + 2C_5R_1R_5\right) + s\left(4C_2R_1 + C_2R_5\right) + s\left($$

10.683 INVALID-ORDER-683
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_1R_1R_5s^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_2C_5L_1R_5\right) + s^2\left(C_1L_1R_1g_m + C_2C_5R_1R_5 + C_2L_1 + C_5L_1R_5g_m - C_5L_1\right) + s\left(C_2R_1 + C_5R_1R_5g_m - C_5R_1 + L_1g_m\right)}{s^4\left(4C_1C_2C_5L_1R_1 + C_1C_2C_5L_1R_5\right) + s^3\left(C_1C_2L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 4C_2C_5L_1\right) + s^2\left(4C_2C_5R_1 + C_2C_5R_5 + 2C_5L_1g_m\right) + s\left(C_2 + 2C_5R_1g_m + C_5\right)}$$

10.684 INVALID-ORDER-684
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_1L_5R_1s^5 + R_1g_m + s^4\left(C_1C_5L_1L_5R_1g_m + C_2C_5L_1L_5\right) + s^3\left(C_1C_2L_1R_1 - C_1C_5L_1R_1 + C_2C_5L_5R_1 + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m + C_2L_1 - C_5L_1 + C_5L_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1 + L_1g_m\right)}{C_1C_2C_5L_1L_5s^5 + 4C_1C_2C_5L_1R_1s^4 + s^3\left(C_1C_2L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 4C_2C_5L_1 + C_2C_5L_5\right) + s^2\left(4C_2C_5R_1 + 2C_5L_1g_m\right) + s\left(C_2+2C_5R_1g_m + C_5\right)}$$

10.685 INVALID-ORDER-685
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-R_1 + s^4 \left(C_1 C_2 L_1 L_5 R_1 - C_1 C_5 L_1 L_5 R_1\right) + s^3 \left(C_1 L_1 L_5 R_1 g_m + C_2 L_1 L_5 - C_5 L_1 L_5\right) + s^2 \left(-C_1 L_1 R_1 + C_2 L_5 R_1 - C_5 L_5 R_1 + L_1 L_5 g_m\right) + s \left(-L_1 + L_5 R_1 g_m\right)}{4 C_1 C_2 C_5 L_1 L_5 R_1 g_m + s^4 \left(C_1 C_2 L_1 L_5 + 2 C_1 C_5 L_1 L_5 R_1 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(4 C_1 C_2 L_1 R_1 + 4 C_2 C_5 L_5 R_1 + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(2 C_1 L_1 R_1 g_m + C_1 L_1 + 4 C_2 L_1 + C_2 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(4 C_2 R_1 + 2 L_1 g_m\right) + 1 C_3 R_1 g_m + C_3 R_1 g_m + C_3 R_2 g_m + C_3 R_3 g_m + C_3 R_3$$

10.686 INVALID-ORDER-686
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_1L_5R_1s^5 + R_1g_m + s^4\left(C_1C_2C_5L_1R_1R_5 + C_1C_5L_1L_5R_1g_m + C_2C_5L_1L_5\right) + s^3\left(C_1C_2L_1R_1 + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_2C_5L_1R_5 + C_2C_5L_5R_1 + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_5R_1R_5 + C_2L_1 + C_5L_1R_5g_m - C_5L_1 + C_5L_5R_1g_m\right) + s\left(C_2R_1R_5 + C_2C_5L_1R_5 + C_2C_5L_1R$$

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10.687 INVALID-ORDER-687 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)
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 $H(s) = \frac{-R_1R_5 + s^4 \left(C_1C_2L_1L_5R_1R_5 - C_1C_5L_1L_5R_1R_5\right) + s^3 \left(C_1L_1L_5R_1R_5g_m - C_1L_1L_5R_1 + C_2L_1L_5R_5\right) + s^2 \left(-C_1L_1R_1R_5 + C_2L_5R_1R_5 - C_5L_5R_1R_5 + L_1L_5R_5g_m - C_1L_1L_5R_1R_5g_m - C_1L_1L_5R_1g_m - C_1L_1L_5R_1R_5g_m - C_1L_1L_5R_1g_m - C_1L_1L$

10.688 INVALID-ORDER-688 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(C_1C_2L_1L_5R_1 + C_1C_5L_1L_5R_1R_5g_m - C_1L_1L_5R_1 + C_2C_5L_1L_5R_5\right) + s^3\left(C_1C_2L_1R_1R_5 + C_1L_1L_5R_1g_m + C_2C_5L_5R_1R_5 + C_2L_1L_5 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_2L_1R_5 + C_2L_5R_1 + C_2C_5L_5R_1 + C_2C_5L_5R_5\right) + s^3\left(C_1C_2L_1R_1R_5 + C_1L_1L_5R_1g_m + C_2C_5L_5R_1 + C_2C_5L_5R_5\right) + s^3\left(C_1C_2L_1R_1R_5 + C_2L_1L_5 + C_2L_1L_5 + C_2L_1L_5 + C_2L_1L_5\right) + s^3\left(C_1C_2L_1R_1R_5 + C_2L_1L_5 + C_2L_1L_5 + C_2L_1L_5\right) + s^3\left(C_1C_2L_1R_1R_5 + C_2L_1R_5\right) + s^3\left(C_1C_2L_1R_5 + C_2L_1R_5\right) + s^3\left(C_1C_2L_1R_5\right) + s^3\left(C_1C_$

10.689 INVALID-ORDER-689 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{1}{C_2s}, \infty, \infty, \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1 + C_2C_5L_1L_5R_5\right) + s^3\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5 + C_2C_5L_5R_1R_5 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_2C_5L_1L_5R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5 + C_2C_5L_5R_1R_5 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_1C_5L_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1R_5g_m - C_$

10.690 INVALID-ORDER-690 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, \infty, R_5, \infty\right)$

 $H(s) = \frac{C_1C_2L_1R_1R_2R_5s^3 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_1L_1R_1R_2R_5g_m - C_1L_1R_1R_2 + C_1L_1R_1R_5 + C_2L_1R_2R_5\right) + s\left(C_2R_1R_2R_5 + L_1R_2R_5g_m - L_1R_2 + L_1R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(4C_1C_2L_1R_1R_2 + C_1C_2L_1R_2R_5\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_5 + 4C_2L_1R_2\right) + s\left(4C_2R_1R_2 + C_2R_2R_5 + 2L_1R_2g_m + 4L_1\right)}$

10.691 INVALID-ORDER-691 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$

10.692 INVALID-ORDER-692 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

10.693 INVALID-ORDER-693 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1R_1R_2R_5s^4 + R_1R_2g_m + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_5L_1R_1R_2 + C_1C_5L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2C_5R_1R_2R_5 + C_2L_1R_2 + C_5L_1R_2 + C_5L$

10.694 INVALID-ORDER-694 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, \frac{1}{C_2R_2s + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_5L_1L_5R_1R_2g_m + C_1C_5L_1L_5R_1 + C_2C_5L_1L_5R_2\right) + s^3\left(C_1C_2L_1R_1R_2 - C_1C_5L_1R_1R_2 + C_2C_5L_5R_1R_2 + C_5L_1L_5R_2g_m + C_5L_1L_5\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_1R_2 - C_5L_1R_2 + C_5L_5R_1R_2 + C_5$

10.695 INVALID-ORDER-695 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{-R_1R_2 + s^4 \left(C_1C_2L_1L_5R_1R_2 - C_1C_5L_1L_5R_1R_2 + s^3 \left(C_1L_1L_5R_1R_2g_m + C_1L_1L_5R_2 - C_5L_1L_5R_2\right) + s^2 \left(-C_1L_1R_1R_2 + C_2L_5R_1R_2 - C_5L_5R_1R_2 + L_1L_5R_2g_m + L_1L_5\right) + s^2 \left(-C_1L_1R_1R_2 + C_2L_5R_1R_2 + C_2L_5R_1R_2 - C_5L_5R_1R_2 + L_1L_5R_2g_m + L_1L_5\right) + s^2 \left(-C_1L_1R_1R_2 + C_2L_5R_1R_2 + C_2L_5R_1R_2 + C_2L_5R_1R_2 + L_1L_5R_2g_m + L_1L_5\right) + s^2 \left(-C_1L_1R_1R_2 + C_2L_5R_1R_2 + C_2L_5R_1R_2$

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10.696 INVALID-ORDER-696 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
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 $H(s) = \frac{C_1C_2C_5L_1L_5R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2C_5L_1R_1R_2R_5 + C_1C_5L_1L_5R_1R_2g_m + C_1C_5L_1L_5R_1 + C_2C_5L_1L_5R_2\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_5L_1R_1R_2 + C_1C$

10.697 INVALID-ORDER-697 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

 $H(s) = \frac{-R_1R_2R_5 + s^4\left(C_1C_2L_1L_5R_1R_2R_5 - C_1C_5L_1L_5R_1R_2R_5 + s^4\left(C_1L_2L_5R_1R_2R_5 - C_1C_5L_1L_5R_1R_2R_5 g_m - C_1L_1L_5R_1R_2 + C_1L_1L_5R_1R_2 + C_1L_1L_5R_1R_2 R_5 g_m + 4C_1C_5L_1L_5R_1R_2 R_5 g_m + 4C_1C_5L_1L_5R_1R_2 R_5 g_m + 4C_1C_5L_1L_5R_1R_2 R_5 g_m + 4C_1C_5L_1L_5R_1R_2 R_5 g_m + 4C_1L_5R_1R_2 R_5 g_m + 4C_1L$

10.698 INVALID-ORDER-698 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_1R_2R_5s^5 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_2L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_2 + C_$

10.699 INVALID-ORDER-699 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2}{C_2R_2s + 1}, \infty, \infty, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_1R_2R_5s^5 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_5 + C_2C_5L_1L_5R_2R_5\right) + s^3\left(C_1C_2L_1R_1R_2R_5 - C_1C_5L_1L_5R_1R_2 + R_1R_5 + s^4\left(4C_1C_2C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R$

10.700 INVALID-ORDER-700 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, R_5, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_1 C_2 L_1 R_1 R_2 R_5 g_m - C_1 C_2 L_1 R_1 R_2 + C_1 C_2 L_1 R_1 R_5\right) + s^2 \left(C_1 L_1 R_1 R_5 g_m - C_1 L_1 R_1 + C_2 L_1 R_2 R_5 g_m - C_2 L_1 R_2 + C_2 L_1 R_5\right) + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5 + L_1 R_5 g_m - L_1\right)}{2 R_1 g_m + s^3 \left(2 C_1 C_2 L_1 R_1 R_2 g_m + 4 C_1 C_2 L_1 R_1 + C_1 C_2 L_1 R_5\right) + s^2 \left(2 C_1 L_1 R_1 g_m + C_1 L_1 + 2 C_2 L_1 R_2 g_m + 4 C_2 L_1\right) + s \left(2 C_2 R_1 R_2 g_m + 4 C_2 R_1 + C_2 R_2 + C_2 R_5 + 2 L_1 g_m\right) + 1}$

10.701 INVALID-ORDER-701 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1R_1R_2s^4 + R_1g_m + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 - C_1C_5L_1R_1 - C_2C_5L_1R_2\right) + s^2\left(C_1L_1R_1g_m - C_2C_5R_1R_2 + C_2L_1R_2g_m + C_2L_1 - C_5L_1\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1 + L_1g_m\right)}{s^4\left(2C_1C_2C_5L_1R_1R_2g_m + 4C_1C_2C_5L_1R_1 + C_1C_2C_5L_1R_2\right) + s^3\left(C_1C_2L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_2C_5L_1R_2g_m + 4C_2C_5L_1\right) + s^2\left(2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_2 + 2C_5L_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1 + C_2C_5R_1R_2g_m + C_2R_1 - C_5R_1 + C_2C_5R_1R_2g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1 + C_2C_5R_1R_2g_m + C_2R_1 - C_5R_1R_2g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1 + C_2C_5R_1R_2g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1R_2g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_2g_m\right) + s$

10.702 INVALID-ORDER-702 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1R_1R_2R_5s^4 + R_1R_5g_m - R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5 - C_2C_5L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_2C_5R_1R_2R_5 + C_2L_1R_2R_5g_m - C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_2C_5R_1R_2R_5 + C_2L_1R_2R_5g_m - C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_2C_5R_1R_2R_5 + C_2L_1R_2R_5g_m - C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_2C_5R_1R_2R_5 + C_2L_1R_2R_5g_m - C_2L_1R_2R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_2C_5R_1R_2R_5 + C_2L_1R_2R_5g_m - C_2L_1R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_2C_5R_1R_2R_5 + C_2L_1R_2R_5g_m - C_2L_1R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1R_5g_m - C_1L_1R_1g_m -$

10.703 INVALID-ORDER-703 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1 g_m + s^4 \left(C_1 C_2 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m - C_1 C_5 L_1 R_2 R_5 g_m - C_2 C_5 L_1 R_2 + C_2 C_5$

10.704 INVALID-ORDER-704 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_5 R_1 \right) + s^4 \left(-C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 L_5 R_1 g_m + C_2 C_5 L_1 L_5 R_2 g_m + C_2 C_5 L_1 L_5 \right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 - C_1 C_5 L_1 R_2 + C_2 C_5 L_5 R_1 R_2 g_m + C_2 C_5 L_5 R_1 R_2 g_m + C_2 C_5 L_5 R_1 R_2 g_m + C_2 C_5 L_1 R_2 g_m +$

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10.705 INVALID-ORDER-705 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)
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 $H(s) = \frac{-C_1C_2C_5L_1L_5R_1R_2s^5 - R_1 + s^4\left(C_1C_2L_1L_5R_1R_2g_m + C_1C_2L_1L_5R_1 - C_2C_5L_1L_5R_2\right) + s^3\left(-C_1C_2L_1R_1R_2 + C_1L_1L_5R_1g_m - C_2C_5L_5R_1R_2 + C_2L_1L_5R_2g_m + C_2L_1L_5 - C_5L_1L_5\right) + s^2\left(-C_1C_2L_1R_1R_2 + s^5\left(2C_1C_2C_5L_1L_5R_1R_2g_m + 4C_1C_2L_1L_5R_1R_2g_m + 4C_1C_2L_1R_1R_2g_m + 4C_1C_2L_1R_1 + C_1C_2L_1R_1 + C_1C_2L_1R_2 + 2C_2C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + 2C_2C_5L_1L_5R_2g_m + 4C_1C_2L_1R_1R_2g_m + 4C_1C_2L_1R_1 + C_1C_2L_1R_1 + C_1C_2L_1R_2 + 2C_2C_5L_1R_1R_2g_m + 4C_2C_5L_1R_1 + C_1C_2L_1R_1 +$

10.706 INVALID-ORDER-706 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 g_m + C_2 C_5 L_1 L_5 R_2 g_m + C_2 C_5 L_1 L_5 R_2 g_m + C_2 C_5 L_1 L_5 R_2 g_m + C_2 C_5 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2$

10.707 INVALID-ORDER-707 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_5R_1R_2R_5s^5 - R_1R_5 + s^4\left(C_1C_2L_1L_5R_1R_2R_5g_m - C_1C_2L_1L_5R_1R_2 + C_1C_2L_1L_5R_1R_5 - C_2C_5L_1L_5R_1R_5 - C_2C_5L_1L_5R_2R_5\right) + s^4\left(2C_1C_2L_1L_5R_1R_2g_m + 4C_1C_2L_1L_5R_1 + C_1C_2L_1L_5R_1 + C_1C_2L_1L$

10.708 INVALID-ORDER-708 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

10.709 INVALID-ORDER-709 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_5 R_1 R_2 R_5 + C_1 C_5 L_1 L_5 R_1 R_2 G_m - C_1 C_5 L_1 L_5 R_2 + C_2 C_5 L_1 L$

10.710 INVALID-ORDER-710 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, R_5, \infty\right)$

10.711 INVALID-ORDER-711 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1s^5 + R_1g_m + s^4\left(C_1C_2L_1L_2R_1g_m - C_2C_5L_1L_2\right) + s^3\left(C_1C_2L_1R_1 - C_1C_5L_1R_1 - C_2C_5L_2R_1 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1R_1g_m + C_2L_1 + C_2L_2R_1g_m - C_5L_1\right) + s\left(C_2R_1 - C_5R_1 + L_1g_m\right)}{s^5\left(2C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1L_2\right) + s^4\left(4C_1C_2C_5L_1R_1 + 2C_2C_5L_1L_2g_m\right) + s^3\left(C_1C_2L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 4C_2C_5L_1 + 2C_2C_5L_2\right) + s^2\left(4C_2C_5R_1 + 2C_5L_1g_m\right) + s\left(C_2R_1 - C_5R_1 + L_1g_m\right)}$

10.712 INVALID-ORDER-712 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(C_1C_2L_1L_2R_1R_5g_m - C_1C_2L_1L_2R_1 - C_2C_5L_1L_2R_5\right) + s^3\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5 - C_2C_5L_2R_1R_5 + C_2L_1L_2R_5g_m - C_2L_1L_2\right) + s^2\left(C_1L_1R_1R_5g_m - C_1C_2L_1L_2R_5g_m + S^5\left(2C_1C_2C_5L_1L_2R_1R_5g_m + C_1C_2L_1L_2R_1g_m + C_1C_2L_1L_2R_5g_m + C_1C_2L_1L_$

10.713 INVALID-ORDER-713 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_1 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_1\right) + s^4 \left(C_1 C_2 C_5 L_1 R_1 R_5 + C_1 C_2 L_1 L_2 R_1 g_m + C_2 C_5 L_1 L_2\right) + s^3 \left(C_1 C_2 L_1 R_1 + C_1 C_5 L_1 R_1 R_5 g_m - C_1 C_5 L_1 R_5 + C_2 C_5 L_2 R_1 R_5 g_m - C_2 C_5 L_2 R_1 + C_2 L_1 L_2 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_1 C_2 C_5 L_1 R_1 + C_1 C_5 L$

- 10.714 INVALID-ORDER-714 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{C_1C_2C_5L_1L_2L_5R_1g_ms^6 + R_1g_m + s^5\left(-C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_2R_1 + C_2C_5L_1L_2R_1g_m + C_1C_5L_1L_2R_1g_m + C_1C_5L_1L_2R_1g_m + C_1C_5L_1L_2R_1g_m + C_1C_5L_1L_2 + C_2C_5L_1L_2 + C_2C$
- **10.715** INVALID-ORDER-715 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1s^6 R_1 + s^5\left(C_1C_2L_1L_2L_5R_1g_m C_2C_5L_1L_2L_5\right) + s^4\left(-C_1C_2L_1L_2R_1 + C_1C_2L_1L_5R_1 C_2C_5L_2L_5R_1 + C_2L_1L_2L_5g_m\right) + s^3\left(C_1L_1L_5R_1g_m C_2L_1L_2 + C_2L_1L_5 + C_2L_2L_5\right)}{2R_1g_m + s^6\left(2C_1C_2C_5L_1L_2L_5R_1g_m + C_1C_2L_1L_2 + C_2C_5L_1L_2L_5\right) + s^5\left(4C_1C_2C_5L_1L_2L_5g_m\right) + s^4\left(2C_1C_2L_1L_2R_1g_m + C_1C_2L_1L_5 + C_2C_5L_1L_5 + C_2C_5L_1L_5 + C_2C_5L_2L_5\right) + s^4\left(4C_1C_2C_5L_1L_2R_1g_m + C_1C_2L_1L_5 + C_2C_5L_1L_5 + C_2C_5L_1L_5 + C_2C_5L_2L_5\right) + s^4\left(4C_1C_2C_5L_1L_2R_1g_m + C_1C_2L_1L_5 + C_2C_5L_1L_5 + C_2C_5L_1L_5\right) + s^4\left(4C_1C_2C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_2C_5L_1L_5\right) + s^4\left(4C_1C_2C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^4\left(4C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^4\left(4C_1C_$
- 10.716 INVALID-ORDER-716 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{C_1C_2C_5L_1L_2L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_5L_1L_2R_1R_5g_m C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_2R_1g_m + C_1C_5L_1L_2R_1g_m + C_1C_5L_1L_2R_1g_m + C_1C_5L_1L_2R_1g_m + C_2C_5L_1L_2 + C_2C_$
- 10.717 INVALID-ORDER-717 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1R_5s^6 R_1R_5 + s^5\left(C_1C_2L_1L_2L_5R_1R_5g_m C_1C_2L_1L_2L_5R_1 C_2C_5L_1L_2L_5R_5\right) + s^4\left(-C_1C_2L_1L_2R_1R_5 + C_1C_2L_1L_5R_1R_5\right)}{2R_1R_5g_m + R_5 + s^6\left(2C_1C_2C_5L_1L_2L_5R_1g_m + C_1C_2L_1L_2R_1R_5 + 2C_1C_5L_1L_2L_5R_1g_m + C_1C_2L_1L_2R_1R_5g_m + C_1C_2L_1L_2R_1R_5g_$
- 10.718 INVALID-ORDER-718 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$
- $H(s) = \frac{R_1 R_5 g_m R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_2 C_5 L_1 L_2 L_5 R_3 g_m C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 L_1 L_2 R_1 R_5 g_m C_1 C_2 L_1 L_2 R$
- 10.719 INVALID-ORDER-719 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$
- $H(s) = \frac{R_1 R_5 g_m R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 L_5 R_5 g_m C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m C_1 C_2 L_1 L_2 R_1 R_5$
- 10.720 INVALID-ORDER-720 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, R_5, \infty\right)$
- $H(s) = \frac{R_1R_5g_m R_1 + s^4\left(C_1C_2L_1L_2R_1R_5g_m C_1C_2L_1L_2R_1\right) + s^3\left(C_1C_2L_1R_1R_2R_5g_m C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_5 + C_2L_1L_2R_5g_m C_2L_1L_2\right) + s^2\left(C_1L_1R_1R_5g_m C_1L_1R_1 + C_2L_1R_2R_5g_m C_2L_1R_2 + C_2L_1R_5 + C_2L_2R_1R_5g_m C_2L_2R_1\right) + s\left(C_2R_1R_2R_5g_m C_2L_1R_2 + C$
- 10.721 INVALID-ORDER-721 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2R_1s^5 + R_1g_m + s^4\left(-C_1C_2C_5L_1R_1R_2 + C_1C_2L_1L_2R_1g_m C_2C_5L_1L_2\right) + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 C_2C_5L_1R_2 C_2C_5L_2R_1 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1R_1g_m C_2C_5R_1R_2 + C_2L_1R_2g_m + C_2L_1R_2g_m + C_2L_1R_2g_m C_5L_1\right) s^2\left(2C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1R_2 + C_2C_5L_1R_2g_m + C_1C_2L_1R_2g_m +$
- 10.722 INVALID-ORDER-722 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5}{C_5R_5s + 1}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_5s^5 + R_1R_5g_m R_1 + s^4\left(-C_1C_2C_5L_1R_1R_2R_5 + C_1C_2L_1L_2R_1 C_2C_5L_1L_2R_5\right) + s^3\left(C_1C_2L_1R_1R_2R_5g_m C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_5 C_1C_5L_1R_1R_2 + C_1C_2L_1R_1R_2 + C_$

- 10.723 INVALID-ORDER-723 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_1 R_5 g_m C_1 C_2 C_5 L_1 L_2 R_1 \right) + s^4 \left(C_1 C_2 C_5 L_1 R_1 R_2 R_5 g_m C_1 C_2 C_5 L_1 R_1 R_5 + C_1 C_2 L_1 L_2 R_1 g_m + C_2 C_5 L_1 L_2 R_5 g_m C_2 C_5 L_1 L_2 \right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R$
- 10.724 INVALID-ORDER-724 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{C_1C_2C_5L_1L_2L_5R_1g_ms^6 + R_1g_m + s^5\left(-C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_5R_1R_2g_m + C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1L_2R_1g_m + C_1C_2L_1L_2R_1g_m + C_1C_5L_1L_5R_1g_m C_2C_5L_1L_2 + C_2C_5L_1L_2 + C_2C_5L_1L_5 + C_2C_5L_1L_5$
- 10.725 INVALID-ORDER-725 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1s^6 R_1 + s^5\left(-C_1C_2C_5L_1L_5R_1g_m C_2C_5L_1L_2L_5\right) + s^4\left(-C_1C_2L_1L_2R_1 + C_1C_2L_1L_5R_1g_m + C_1C_2L_1L_5R_1 C_1C_5L_1L_5R_1 C_2C_5L_1L_5R_2 C_2C_5L_2L_5R_1g_m + C_1C_2L_1L_5R_1g_m + C_1C$
- 10.726 INVALID-ORDER-726 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{C_1C_2C_5L_1L_2L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_5L_1L_2R_1R_5g_m C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_5R_1R_2g_m + C_1C_2C_5L_1L_5R_1 + C_2C_5L_1L_2R_2g_m + C_1C_2C_5L_1L_2R_2g_m + C_1C_2C_5L_1R_1R_2 + C_1C_2C_5L_1R_1R_2 + C_1C_2C_5L_1R_1R_5 + C_1C_2L_1L_2R_1g_m + C_1C_2L_1L_2R_1g_m + C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1L_2R_$
- 10.727 INVALID-ORDER-727 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1R_5s^6 R_1R_5 + s^5\left(-C_1C_2C_5L_1L_5R_1R_2R_5 + C_1C_2L_1L_2L_5R_1R_5g_m C_1C_2L_1L_2L_5R_1 C_2C_5L_1L_5R_1R_5g_m C_1C_2L_1L_2L_5R_1R_5g_m C_1C_2L_1L_2L_5R_1R_5g_m C_1C_2L_1L_2L_5R_1R_5g_m + C_1C_2C_5L_1L_5R_1R_5g_m + C_1C_2C_5L_1L_5R_5g_m + C_1C_2C_5L_1L_5R_5g_m + C_1C_2$
- 10.728 INVALID-ORDER-728 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$
- $H(s) = \frac{R_1 R_5 g_m R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m C_1 C_2 C_5 L_1 L_2 R_1 R_5 g_m C_1 C_2 C_5 L_1 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_5 R_1 R_5 + C_1 C_2 L_1 L_2 L_5 R_1 g_m + C_2 C_5 L_1 L_2 L_5 R_5 g_m C_2 C_5 L_1 L_2 L_5 \right) \\ 2 R_1 g_m + s^6 \left(2 C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 \right) \\ 2 R_1 g_m + s^6 \left(2 C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 \right) \\ 2 R_1 g_m + s^6 \left(2 C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 \right) \\ 2 R_1 g_m + s^6 \left(2 C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C_1 C_2 C_5 L_1 L_5 R_1 g_m +$
- 10.729 INVALID-ORDER-729 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$
- **10.730** INVALID-ORDER-**730** $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, R_5, \infty\right)$
- $H(s) = \frac{R_1 R_2 R_5 g_m R_1 R_2 + R_1 R_5 + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_2 R_5 g_m C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_5 + s^3 \left(C_1 L_1 L_2 R_1 R_5 g_m C_1 L_1 L_2 R_1 + C_2 L_1 L_2 R_5 g_m C_2 L_1 L_2 R_5 + s^2 \left(C_1 L_1 R_1 R_2 R_5 g_m C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_5 + C_2 L_2 R_1 R_2 R_5 g_m C_2 L_2 R_1 R_2 R_5 g_m C_2 L_1 L_2 R_1 R_2 R_5 g_m C_2 L_2 R_1 R_2 R_5 g_m C_2 L_2 R_1 R_2 R_5 g_m C_2 L_1 L_2 R_1 R_2 R_5 g_m C_2 L_2 R_1 R_2 R_5 g_m C_2 L_1 L_2 R_1 R_2 R_5 g_m C_2 L_2 R_1 R_2 R_5 g$
- 10.731 INVALID-ORDER-731 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 C_2C_5L_1L_2R_1 + s^4\left(C_1C_2L_1L_2R_1 C_2C_5L_1L_2R_1 C_2C_5L_1L_2R_2\right) + s^3\left(-C_1C_5L_1R_1R_2 + C_1L_1L_2R_1g_m C_2C_5L_2R_1R_2 + C_2L_1L_2R_2g_m + C_2L_1L_2 C_5L_1L_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2C_5L_1L_2R_1R_2g_m + 4C_1C_5L_1L_2R_1 + C_1C_5L_1L_2R_1g_m + C_1C_5L_1L_2R_2g_m + 4C_1C_5L_1R_1R_2g_m + 4C_1C_5L_1R$

- 10.732 INVALID-ORDER-732 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{R_5}{C_5R_5s + 1}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_2R_5s^5 + R_1R_2R_5g_m R_1R_2 + R_1R_5 + s^4\left(C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_2 + C_1C_5L_1L_2R_1R_5 C_2C_5L_1L_2R_1R_5 C_2C_5L_1L_2R$
- **10.733** INVALID-ORDER-733 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_1 R_2 R_5 g_m C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_5 L_1 L_2 R_1 R_2 g_m C_1 C_5 L_1 L_2 R_2 R_5 g_m C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_3 g_m C_1 C_5 L_1 L_2 R_1 R_2 g_m + C_1 C_5$
- 10.734 INVALID-ORDER-734 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{L_5s + \frac{1}{C_5s}}{\infty}\right)$
- $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_5 L_1 L_2 R_1 R_2 + C_1 C_5 L_1 L_2 L_5 R_1 g_m + C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_5 L_1 L_2 R$
- 10.735 INVALID-ORDER-735 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1R_2s^6 R_1R_2 + s^5\left(C_1C_2L_1L_2L_5R_1 C_1C_5L_1L_2L_5R_1 C_2C_5L_1L_2L_5R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_5R_1R_2R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_5R_1R_2R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_5R_1R_2R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_5R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_5R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2R_1 C_1C_5L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 C_1C_5L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_1R_2 C_1C_5L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_1R_2 C_1C_5L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1$
- 10.736 INVALID-ORDER-736 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 R_1 R_2 R_5 g_m C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 g_m + C$
- 10.737 INVALID-ORDER-737 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$
- $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1R_2R_5s^6 R_1R_2R_5 + s^6\left(2C_1C_2C_5L_1L_2L_5R_1R_2R_5g_m + 4C_1C_2L_1L_2L_5R_1R_2g_m + 4C_1C_2L_1L_2L_5R_1 + C_1C_2L_1L_2L_5R_1 + C_1C_2L_2L_2R_1 + C_1C_2L_2L_2R_1$
- 10.738 INVALID-ORDER-738 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$
- $H(s) = \frac{R_1 R_2 R_5 g_m R_1 R_2 + R_1 R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 g_m C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_5 R_1 R_5 g_m C_1 C_5 L_1 L_2 L_5 R_1 R_2 g_m C_2 C_5 L_1 L_2 L_5 R_2 R_5 g_m C_2 C_5$
- 10.739 INVALID-ORDER-739 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{C_2L_2R_2s^2 + L_2s + R_2}{C_2L_2s^2 + 1}, \infty, \infty, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$
- 10.740 INVALID-ORDER-740 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \infty\right)$
- $H(s) = \frac{R_1 R_2 R_5 g_m R_1 R_2 + R_1 R_5 + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_2 R_5 g_m C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_2 L_1 L_2 R_2 R_5 g_m C_2 L_1 L_2 R_2 + C_2 L_1 L_2 R_3 + C_2 L_1 L_2 R_3 + C_2 L_1 L_2 R_2 + C_2 L_1 L_2 R_2 + C_2 L_1 L_2 R_3 +$

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10.741 INVALID-ORDER-741 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)
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 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 - C_2C_5L_1L_2R_2\right) + s^3\left(C_1C_2L_1R_1R_2 - C_1C_5L_1R_1R_2 - C_2C_5L_2R_1R_2 + C_2L_1L_2R_2g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1R_2g_m + C_1L_1R_1R_2g$

10.742 INVALID-ORDER-742
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \infty, \frac{R_5}{C_5R_5s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_2R_5s^5 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_2L_1L_2R_1R_2R_5g_m - C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_5 - C_2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^5\left(2C_1C_2C_5L_1L_2R_1R_2R_5g_m + 4C_1C_2L_1L_2R_1R_2g_m + 4C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_2 + C$

10.743 INVALID-ORDER-743
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 R_5 + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_2 R_5 g_m - C_2 C_5 L_1 L_2 R_2 + C_2 C_5 L_1 L_2 R_3 + C_1 C_2 L_1 R_1 R_2 + C_1 C_5 L_1 R_2 R_5 g_m - C_1 C_5 L_1 R_2 R_5 g_m - C_2 C_5 L_1 L_2 R_5 g_m - C_2 C_5 L_1$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_2 C_5 L_1 L_2 L_5 R_2 g_m + C_2 C_5 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L$

10.745 INVALID-ORDER-745
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1R_2s^6 - R_1R_2 + s^5\left(C_1C_2L_1L_2L_5R_1R_2g_m + C_1C_2L_1L_2L_5R_1 - C_2C_5L_1L_2L_5R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_2R_1R_2\right) + s^4\left(-C_1C_2L_1L_$

10.746 INVALID-ORDER-746
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 R_1 R_2$

10.747 INVALID-ORDER-747
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

 $H(s) = \frac{-}{2R_1R_2R_5g_m + 4R_1R_5 + R_2R_5 + s^6\left(2C_1C_2C_5L_1L_2L_5R_1R_2R_5g_m + 4C_1C_2C_5L_1L_2L_5R_1R_5 + C_1C_2C_5L_1L_2L_5R_2R_5\right) + s^5\left(4C_1C_2C_5L_1L_2L_5R_1R_2g_m + 4C_1C_2L_1L_2L_5R_1 + C_1C_2L_1L_2L_5R_2 + C_1C_2L_2L_2L_5R_2 + C_1C_2L_2L_2L_2R_2 + C_1C_2L_2L_2L_2R_2 + C_1C_2L_2L_2R_2 + C_1C_2L_2L_2R_2 + C_1C_2L_2L_2R_2 + C_1C_2L_2L_2R_2 + C_1C_2L_2L_2R_2 + C_1C_2L_2L_2R_2 + C_1C_2L_2L_2R$

10.748 INVALID-ORDER-748
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \infty, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$$

 $H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 + C_1 C_2 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2$

10.749 INVALID-ORDER-749
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \infty, \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$$

 $H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2\right) - 2 \left(R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s^6 \left(2 C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L$

10.750 INVALID-ORDER-750
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2, \ \infty, \ \infty, \ \frac{1}{C_5s}, \ \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_1R_2s^3 - C_5R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1\right)}{s^3\left(2C_1C_5L_1R_1R_2g_m + 4C_1C_5L_1R_1 + C_1C_5L_1R_2\right) + s^2\left(C_1C_5R_1R_2 + C_1L_1\right) + s\left(C_1R_1 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}$$

$$\textbf{10.751} \quad \textbf{INVALID-ORDER-751} \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ R_2, \ \infty, \ \infty, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty \right) \\ H(s) = \frac{-C_1 C_5 L_1 R_1 R_2 R_5 s^3 - C_5 R_1 R_2 R_5 s + R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^2 \left(C_1 L_1 R_1 R_2 R_5 g_m - C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_5 \right) }{2 R_1 R_2 g_m + 4 R_1 + R_2 + R_5 + s^3 \left(2 C_1 C_5 L_1 R_1 R_2 R_5 g_m + 4 C_1 C_5 L_1 R_1 R_5 + C_1 C_5 L_1 R_2 R_5 \right) + s^2 \left(C_1 C_5 R_1 R_2 R_5 + 2 C_1 L_1 R_1 R_2 g_m + 4 C_1 L_1 R_1 + C_1 L_1 R_2 + C_1 L_1 R_5 \right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_5 + 2 C_5 R_1 R_2 R_5 g_m + 4 C_5 R_1 R_5 + C_5 R_2 R_5 \right) }$$

$$\textbf{10.752} \quad \textbf{INVALID-ORDER-752} \ \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ R_2, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty \right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_1 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_1 R_5 \right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 \right) + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_5 \right) }{s^3 \left(2 C_1 C_5 L_1 R_1 R_2 g_m + 4 C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_5 \right) + s^2 \left(C_1 C_5 R_1 R_2 + C_1 C_5 R_1 R_5 + C_1 L_1 \right) + s \left(C_1 R_1 + 2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 + C_5 R_5 \right) + 1 }$$

$$\textbf{10.753} \quad \textbf{INVALID-ORDER-753} \ \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ R_2, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty \right)$$

$$H(s) = \frac{-C_1 C_5 L_1 R_1 R_2 s^3 - C_5 R_1 R_2 s + R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_5 L_1 L_5 R_1 \right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1 \right) }{C_1 C_5 L_1 L_5 s^4 + s^3 \left(2 C_1 C_5 L_1 R_1 R_2 g_m + 4 C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_2 + C_1 C_5 L_5 R_1 \right) + s^2 \left(C_1 C_5 R_1 R_2 + C_1 L_1 + C_5 L_5 \right) + s \left(C_1 R_1 + 2 C_5 R_1 R_2 g_m + 4 C_5 R_1 + C_5 R_2 \right) + 1 }$$

$$\textbf{10.754} \quad \textbf{INVALID-ORDER-754} \ \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \ R_2, \ \ \infty, \ \ \infty, \ \ \frac{L_5s}{C_5L_5s^2+1}, \ \ \infty \right) \\ H(s) = \frac{-C_1C_5L_1L_5R_1R_2s^4 - R_1R_2 + s^3\left(C_1L_1L_5R_1R_2g_m + C_1L_1L_5R_1\right) + s^2\left(-C_1L_1R_1R_2 - C_5L_5R_1R_2\right) + s\left(L_5R_1R_2g_m + L_5R_1\right)}{2R_1R_2g_m + 4R_1 + R_2 + s^4\left(2C_1C_5L_1L_5R_1R_2g_m + 4C_1C_5L_1L_5R_2\right) + s^3\left(C_1C_5L_5R_1R_2 + C_1L_1L_5\right) + s^2\left(2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + C_1L_5R_1 + 2C_5L_5R_1R_2g_m + 4C_5L_5R_1 + C_5L_5R_2\right) + s\left(C_1R_1R_2 + L_5\right)} \\ + \frac{C_1C_5L_1L_5R_1R_2s^4 - R_1R_2 + s^3\left(C_1L_1L_5R_1R_2g_m + C_1L_1L_5R_1\right) + s^2\left(-C_1L_1R_1R_2 - C_5L_5R_1R_2\right) + s\left(L_5R_1R_2g_m + L_5R_1\right)}{2R_1R_2g_m + 4R_1 + R_2 + s^4\left(2C_1C_5L_1L_5R_1R_2g_m + 4C_1C_5L_1L_5R_2\right) + s^3\left(C_1C_5L_5R_1R_2 + C_1L_5R_2\right) + s^3\left(C_1C_5L_5R_1R_2 + C_1L_5R_2\right) + s^3\left(C_1C_5L_5R_1R_2 + C_5L_5R_2\right) + s^3\left(C_1C_5L_$$

$$\textbf{10.755} \quad \textbf{INVALID-ORDER-755} \ \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ R_2, \ \infty, \ \infty, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty \right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_5 L_1 L_5 R_1 \right) + s^3 \left(C_1 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_1 R_2 \right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_5 L_5 R_1 R_2 g_m + C_5 L_5 R_1 \right) + s \left(C_5 R_1 R_2 R_5 g_m - C_5 R_1 R_2 + C_5 R_1 R_5 \right) }{C_1 C_5 L_1 L_5 s^4 + s^3 \left(2 C_1 C_5 L_1 R_1 R_2 g_m + 4 C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_5 + C_1 C_5 L_5 R_1 \right) + s^2 \left(C_1 C_5 R_1 R_2 + C_$$

10.756 INVALID-ORDER-756
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_5L_1L_5R_1R_2R_5s^4 - R_1R_2R_5 + s^3\left(C_1L_1L_5R_1R_2 + C_1L_1L_5R_1R_2 + C_1L_1L_5R_1R_5\right) + s^2\left(-C_1L_1R_1R_2R_5 - C_5L_5R_1R_2R_5\right) + s\left(L_5R_1R_2R_5g_m - L_5R_1R_2R_5\right) + s\left(L_5R_1R_2R_5g_m - L_5R_1R_2R_5\right) + s\left(L_5R_1R_2R_5g_m + 4C_1L_1L_5R_1R_2R_5 + C_1L_1L_5R_1R_2R_5\right) + s^2\left(2C_1L_1R_1R_2R_5g_m + 4C_1L_1R_1R_5 + C_1L_1R_2R_5\right) + s^2\left(2C_1L_1R_1R_2R_5g_m + 4C_1L_1R_2R_5 + C_1L_1R_2R_5\right) + s^2\left(2C_1L_1R_1R_2R_5g_m + 4C_1L_1R_2R_5\right) + s^2\left(2C_$

10.757 INVALID-ORDER-757
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2, \ \infty, \ \infty, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right)$$

10.758 INVALID-ORDER-758
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{-C_1C_5L_1R_1R_2R_5s^3 - C_5R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_5\right) + s^2\left(C_1L_1R_1R_2R_5g_m - C_1L_1R_1R_2 + C_1L_1R_1R_2 + C_1L_1R_1R_2 + C_1L_1R_1R_2 + C_1L_1R_1R_2 + C_1L_1R_1R_2R_5g_m + 4C_1C_5L_1L_5R_1R_2 + C_1C_5L_1R_1R_2R_5g_m + 4C_1C_5L_1R_1R_2R_5g_m + 4C_1C_5L_1R_1R_2R_5g_m$

$$\textbf{10.759} \quad \textbf{INVALID-ORDER-759} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{1}{C_2s}, \ \infty, \ \infty, \ R_5, \ \infty\right) \\ H(s) = \frac{C_1C_2L_1R_1R_5s^3+C_2R_1R_5s+R_1R_5g_m-R_1+s^2\left(C_1L_1R_1R_5g_m-C_1L_1R_1\right)}{2R_1g_m+s^3\left(4C_1C_2L_1R_1+C_1C_2L_1R_5\right)+s^2\left(C_1C_2R_1R_5+2C_1L_1R_1g_m+C_1L_1\right)+s\left(C_1R_1+4C_2R_1+C_2R_5\right)+1}$$

$$\textbf{10.760} \quad \textbf{INVALID-ORDER-760} \ \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty \right)$$

$$H(s) = \frac{C_1 L_1 R_1 g_m s^2 + R_1 g_m + s^3 \left(C_1 C_2 L_1 R_1 - C_1 C_5 L_1 R_1 \right) + s \left(C_2 R_1 - C_5 R_1 \right) }{4 C_1 C_2 C_5 L_1 R_1 s^4 + s^3 \left(C_1 C_2 L_1 + 2 C_1 C_5 L_1 R_1 g_m + C_1 C_5 L_1 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 + 4 C_2 C_5 R_1 \right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5 \right) }$$

$$\textbf{10.762} \quad \textbf{INVALID-ORDER-762} \ \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ R_5 + \frac{1}{C_5 s}, \ \infty \right)$$

$$H(s) = \frac{C_1 C_2 C_5 L_1 R_1 R_5 s^4 + R_1 g_m + s^3 \left(C_1 C_2 L_1 R_1 + C_1 C_5 L_1 R_1 R_5 g_m - C_1 C_5 L_1 R_1 \right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 C_5 R_1 R_5 \right) + s \left(C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1 \right) }{s^4 \left(4 C_1 C_2 C_5 L_1 R_1 + C_1 C_2 C_5 L_1 R_5 \right) + s^3 \left(C_1 C_2 C_5 R_1 R_5 + C_1 C_2 L_1 + 2 C_1 C_5 L_1 R_1 g_m + C_1 C_5 L_1 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 + 4 C_2 C_5 R_1 + C_2 C_5 R_5 \right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5 \right) }$$

$$\textbf{10.763} \quad \textbf{INVALID-ORDER-763} \ \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}, \ \infty \right)$$

$$H(s) = \frac{C_1 C_2 C_5 L_1 L_5 R_1 s^5 + C_1 C_5 L_1 L_5 R_1 g_m s^4 + R_1 g_m + s^3 \left(C_1 C_2 L_1 R_1 - C_1 C_5 L_1 R_1 + C_2 C_5 L_5 R_1 \right) + s^2 \left(C_1 L_1 R_1 g_m + C_5 L_5 R_1 g_m \right) + s \left(C_2 R_1 - C_5 R_1 \right) }{C_1 C_2 C_5 L_1 L_5 s^5 + s^4 \left(4 C_1 C_2 C_5 L_1 R_1 + C_1 C_2 C_5 L_5 R_1 \right) + s^3 \left(C_1 C_2 L_1 + 2 C_1 C_5 L_1 R_1 g_m + C_1 C_5 L_1 + C_2 C_5 L_5 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_5 R_1 + 4 C_2 C_5 R_1 \right) + s \left(C_2 + 2 C_5 R_1 g_m + C_5 C_5 R_1 \right) }$$

$$\begin{aligned} \textbf{10.764} \quad & \textbf{INVALID-ORDER-764} \ \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \ \frac{1}{C_2s}, \ \ \infty, \ \ \infty, \ \ \frac{L_5s}{C_5L_5s^2+1}, \ \ \infty\right) \\ & \quad H(s) = \frac{C_1L_1L_5R_1g_ms^3 + L_5R_1g_ms - R_1 + s^4\left(C_1C_2L_1L_5R_1 - C_1C_5L_1L_5R_1\right) + s^2\left(-C_1L_1R_1 + C_2L_5R_1 - C_5L_5R_1\right)}{4C_1C_2C_5L_1L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_2L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(4C_1C_2L_1R_1 + C_1C_5L_5R_1 + 4C_2C_5L_5R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + C_2L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 4C_2R_1\right) + 1 \end{aligned}$$

10.766 INVALID-ORDER-766
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

$$H(s) = \frac{-R_1R_5 + s^4 \left(C_1C_2L_1L_5R_1R_5 - C_1C_5L_1L_5R_1R_5 - C_1L_1L_5R_1R_5 - C_1L_1L_5R_1\right) + s^2 \left(-C_1L_1R_1R_5 + C_2L_5R_1R_5 - C_5L_5R_1R_5\right) + s \left(L_5R_1R_5g_m - L_5R_1\right)}{4C_1C_2C_5L_1L_5R_1R_5s^5 + 2R_1R_5g_m + R_5 + s^4 \left(4C_1C_2L_1L_5R_1 + C_1C_2L_1L_5R_5 + 2C_1C_5L_1L_5R_1\right) + s^3 \left(4C_1C_2L_1R_1R_5 + C_1C_5L_5R_1R_5 + 2C_1L_1L_5R_1g_m + C_1L_1L_5 + 4C_2C_5L_5R_1R_5\right) + s^2 \left(2C_1L_1R_1R_5g_m + C_1L_1R_5g_m + C_1L_1R_$$

10.767 INVALID-ORDER-767
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$$

$$H(s) = \frac{C_1C_2C_5L_1L_5R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(C_1C_2L_1L_5R_1 + C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1\right) + s^3\left(C_1C_2L_1R_1R_5 + C_1L_1L_5R_1g_m + C_2C_5L_5R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_2L_5R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s^2\left(C_1C_2R_1R_5 + C_1C_2L_1R_5 + C_1C_2L_$$

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10.768 INVALID-ORDER-768 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
H(s) = \frac{C_1C_2C_5L_1L_5R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1\right) + s^3\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5 + C_2C_5L_5R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_5L_5R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1R_5g_m - C_1L_1R_1R_5g
10.769 INVALID-ORDER-769 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, R_5, \infty\right)
                                                                                                                                                                   H(s) = \frac{C_1C_2L_1R_1R_2R_5s^3 + C_2R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^2\left(C_1L_1R_1R_2R_5g_m - C_1L_1R_1R_2 + C_1L_1R_1R_5\right)}{2R_1R_2g_m + 4R_1 + R_2 + R_5 + s^3\left(4C_1C_2L_1R_1R_2 + C_1C_2L_1R_2R_5\right) + s^2\left(C_1C_2R_1R_2R_5 + 2C_1L_1R_1R_2g_m + 4C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_5\right) + s\left(C_1R_1R_2 + C_1R_1R_5 + 4C_2R_1R_2 + C_2R_2R_5\right)}
10.770 INVALID-ORDER-770 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)
                                                                                                                                       H(s) = \frac{R_1R_2g_m + R_1 + s^3\left(C_1C_2L_1R_1R_2 - C_1C_5L_1R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1\right) + s\left(C_2R_1R_2 - C_5R_1R_2\right)}{4C_1C_2C_5L_1R_1R_2s^4 + s^3\left(C_1C_2L_1R_2 + 2C_1C_5L_1R_1R_2g_m + 4C_1C_5L_1R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5R_1R_2 + C_1L_1 + 4C_2C_5R_1R_2\right) + s\left(C_1R_1 + C_2R_2 + 2C_5R_1R_2g_m + 4C_5R_1 + C_5R_2\right) + 1}
10.771 INVALID-ORDER-771 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                           \frac{R_{1}R_{2}R_{5}g_{m}-R_{1}R_{2}+R_{1}R_{5}+s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}R_{5}-C_{1}C_{5}L_{1}R_{1}R_{2}R_{5}g_{m}-C_{1}L_{1}R_{1}R_{2}+C_{1}L_{1}R_{1}R_{2}+C_{1}L_{1}R_{1}R_{5}\right)+s^{2}\left(C_{1}L_{1}R_{1}R_{2}R_{5}g_{m}-C_{1}L_{1}R_{1}R_{2}+C_{1}L_{1}R_{1}R_{5}\right)+s\left(C_{2}R_{1}R_{2}R_{5}-C_{5}R_{1}R_{2}R_{5}\right)}{4C_{1}C_{2}C_{5}L_{1}R_{1}R_{2}R_{5}g_{m}+4C_{1}C_{5}L_{1}R_{1}R_{2}+C_{1}C_{5}L_{1}R_{1}R_{2}R_{5}+C_{1}C_{5}L_{1}R_{2}R_{5}\right)+s^{2}\left(C_{1}C_{2}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_{1}R_{2}R_{5}\right)+s^{2}\left(C_{1}C_{2}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_{1}R_{2}R_{5}\right)+s^{2}\left(C_{1}C_{2}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_{1}R_{2}R_{5}\right)+s^{2}\left(C_{1}C_{2}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_{1}R_{2}R_{5}+C_{1}C_{5}R_{1}R_{2}R_{5}\right)+s^{2}\left(C_{1}C_{2}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_{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_{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_{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_{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_{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_{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_{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_{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_{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_{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_{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_{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_{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_{1}R_{2}R_{5}
10.772 INVALID-ORDER-772 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{C_1C_2C_5L_1R_1R_2R_5s^4 + R_1R_2g_m + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_5L_1R_1R_2 + C_1C_5L_1R_1 + C_1C_5L_1R_2 + C_1C_5L_
10.773 INVALID-ORDER-773 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, 1.5s + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{C_1C_2C_5L_1L_5R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_5L_1L_5R_1R_2g_m + C_1C_5L_1L_5R_1\right) + s^3\left(C_1C_2L_1R_1R_2 - C_1C_5L_1R_1R_2 + C_2C_5L_5R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_5L_5R_1R_2g_m + C_5L_5R_1\right) + s\left(C_2R_1R_2 - C_5R_1R_2\right)}{C_1C_2C_5L_1L_5R_2s^5 + s^4\left(4C_1C_2C_5L_1R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_1R_1R_2 + C_1C_5L_5R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5L_1R_1 + C_2C_5L_5R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5L_1R_1 + C_2C_5L_1R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5L_1R_1 + C_2C_5L_1R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_5L_1R_1 + C_2C_5L_1R_1\right) + s^2\left(C_1C_2R_1R_1
10.774 INVALID-ORDER-774 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = \frac{-R_1R_2 + s^4 \left(C_1C_2L_1L_5R_1R_2 - C_1C_5L_1L_5R_1R_2\right) + s^3 \left(C_1L_1L_5R_1R_2g_m + C_1L_1L_5R_1\right) + s^2 \left(-C_1L_1R_1R_2 + C_2L_5R_1R_2 - C_5L_5R_1R_2\right) + s \left(L_5R_1R_2g_m + L_5R_1\right)}{4C_1C_2C_5L_1L_5R_1R_2s^5 + 2R_1R_2g_m + 4R_1 + R_2 + s^4 \left(C_1C_2L_1L_5R_2 + 2C_1C_5L_1L_5R_1R_2g_m + 4C_1C_5L_1L_5R_1\right) + s^3 \left(4C_1C_2L_1R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2\right) + s^3 \left(4C_1C_2L_1R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2\right) + s^3 \left(4C_1C_2L_1R_1R_2 + C_1C_5L_5R_1R_2 + C_1C_5L_5R_1R_2\right) + s^3 \left(4C_1C_2L_1L_5R_1R_2 + C_1C_5L_5R_1R_2\right) + s^3 \left(4C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_2\right) + s^3 \left(4C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_2\right) + s^3 \left(4C_1C_2L_1R_1R_2 + C_1C
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10.775 INVALID-ORDER-775 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, L_5s+R_5+\frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2C_5L_1R_1R_2R_5 + C_1C_5L_1L_5R_1R_2g_m + C_1C_5L_1L_5R_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_5L_1R_1R_2 + C_1C$

10.776 INVALID-ORDER-776 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = \frac{-R_1R_2R_5 + s^4\left(C_1C_2L_1L_5R_1R_2R_5 - C_1C_5L_1L_5R_1R_2R_5\right) + s^3\left(C_1L_1L_5R_1R_2R_5g_m - C_1L_1L_5R_1R_2R_5g_m - C_1L_1L_5R_1R_2R_5g_m - C_1L_1L_5R_1R_2R_5g_m + 4C_1C_5L_1L_5R_1R_2R_5g_m + 4C_1C_5L_1R_2R_5g_m + 4C_1C_5L_1R_2R_5g_m + 4C_1C_5L_1R_2R_5g_m + 4C_1C_5L_1R_2R_5g_m + 4C_1C_5L_1R_2R$

10.778 INVALID-ORDER-778
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{C_1C_2C_5L_1L_5R_1R_2R_5s^5 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_5L_1L_5R_1R_2R_5g_m - C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_2 + C_1C_5L_1L_5R_1R_2R_5 + C_1C_$

10.779 INVALID-ORDER-779
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ R_5, \ \infty\right)$$

$$R_1R_5g_m - R_1 + s^3\left(C_1C_2L_1R_1R_2R_5g_m - C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1\right) + s\left(C_2R_1R_2R_5g_m - C_2L_1R_1R_2\right)$$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_1 C_2 L_1 R_1 R_2 R_5 g_m - C_1 C_2 L_1 R_1 R_2 + C_1 C_2 L_1 R_1 R_5\right) + s^2 \left(C_1 L_1 R_1 R_5 g_m - C_1 L_1 R_1\right) + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right)}{2 R_1 g_m + s^3 \left(2 C_1 C_2 L_1 R_1 R_2 g_m + 4 C_1 C_2 L_1 R_2 + C_1 C_2 L_1 R_5\right) + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_2 R_1 R_5 + 2 C_1 L_1 R_1 g_m + C_1 L_1\right) + s \left(C_1 R_1 + 2 C_2 R_1 R_2 g_m + 4 C_2 R_1 + C_2 R_2 + C_2 R_5\right) + 1}$

10.780 INVALID-ORDER-780
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1R_1R_2s^4 + R_1g_m + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 - C_1C_5L_1R_1\right) + s^2\left(C_1L_1R_1g_m - C_2C_5R_1R_2\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1\right)}{s^4\left(2C_1C_2C_5L_1R_1R_2g_m + 4C_1C_2C_5L_1R_1 + C_1C_2C_5L_1R_2\right) + s^3\left(C_1C_2C_5R_1R_2 + C_1C_2L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 2C_2C_5R_1R_2g_m + 4C_2C_5R_1 + C_2C_5R_1\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_2R_1\right) + s\left(C_2R_1R_2g_m + C_2$

10.781 INVALID-ORDER-781
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1R_1R_2R_5s^4 + R_1R_5g_m - R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_2C_5R_1R_2R_5\right) + s\left(C_1C_2C_5L_1R_1R_2R_5g_m + 4C_1C_2C_5L_1R_1R_2R_5g_m + 4C_1C_2L_1R_1 + C_1C_2L_1R_1 +$

10.782 INVALID-ORDER-782
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 g_m + s^4 \left(C_1 C_2 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_5 L_1 R_1 R_2 g_m + C_1 C$

10.783 INVALID-ORDER-783
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_5 R_1\right) + s^4 \left(-C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 L_5 R_1 g_m\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_5 L_1 R_1 + C_2 C_5 L_5 R_1\right) + s^2 \left(C_1 L_1 R_1 g_m - C_2 C_5 R_1 R_2 + C_5 L_5 R_1 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 - C_5 R_1 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_2 R_$

10.784 INVALID-ORDER-784
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_5R_1R_2s^5 - R_1 + s^4\left(C_1C_2L_1L_5R_1R_2g_m + C_1C_2L_1L_5R_1 - C_1C_5L_1L_5R_1\right) + s^3\left(-C_1C_2L_1R_1R_2 + C_1L_1L_5R_1g_m - C_2C_5L_5R_1R_2\right) + s^2\left(-C_1L_1R_1 + C_2L_5R_1R_2g_m + C_1C_2L_1L_5R_1R_2g_m + C_1C_2L_1R_1R_2g_m + C_1C_2$

10.785 INVALID-ORDER-785
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_5 R_1\right) + s^4 \left(C_1 C_2 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_5 + C_1 C_5 L_1 L_5 R_1 g_m\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_5 L_1 R_1 R_5 g_m - C_1 C_5 L_1 R_1 + C_2 C_5 L_5 R_1 R_2 g_m + C_2 C_5 L_5 R_1\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 C_2 C_5 L_1 R_1 R_2 G_m + C_1 C_2$

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10.786 INVALID-ORDER-786 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)
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 $H(s) = \frac{-C_1C_2C_5L_1L_5R_1R_2R_5s^5 - R_1R_5 + s^4\left(C_1C_2L_1L_5R_1R_2R_5g_m - C_1C_2L_1L_5R_1R_2 + C_1C_2L_1L_5R_1R_2\right)}{2R_1R_5g_m + R_5 + s^5\left(2C_1C_2C_5L_1L_5R_1R_2R_5g_m + 4C_1C_2L_1L_5R_1R_2g_m + 4C_1C_2L_1L_5R_1 + C_1C_2L_1L_5R_1 + C_1$

10.787 INVALID-ORDER-787 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^5 \left(C_1 C_2 C_5 L_1 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_2 L_1 L_5 R_1 R_2 g_m + C_1 C_2 L_1 L_5 R_1 R_2 g_m - C_1 C_5 L_1 L_5 R_1 R_2 g_m - C_1 C_2 L_1 R_1 R_2 + C_1 C_2 L_1 R_1 R_2 R_2 g_m + C_1 C_2 L_1 L_5 R_1 R_2 g_m + C_1 C_2 L_1 L_5 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L$

10.788 INVALID-ORDER-788 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

10.789 INVALID-ORDER-789 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_5, \infty\right)$

 $H(s) = \frac{C_1C_2L_1R_1R_5s^3 + C_2R_1R_5s + R_1R_5g_m - R_1 + s^4\left(C_1C_2L_1L_2R_1R_5g_m - C_1C_2L_1L_2R_1\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_2L_2R_1R_5g_m - C_2L_2R_1\right)}{2R_1g_m + s^4\left(2C_1C_2L_1L_2R_1g_m + C_1C_2L_1L_2\right) + s^3\left(4C_1C_2L_1R_1 + C_1C_2L_1R_5 + C_1C_2L_2R_1\right) + s^2\left(C_1C_2R_1R_5 + 2C_1L_1R_1g_m + C_1L_1 + 2C_2L_2R_1g_m + C_2L_2\right) + s\left(C_1R_1 + 4C_2R_1 + C_2R_5\right) + 1}{2R_1g_m + c_1C_2L_1L_2R_1g_m + c_1C_2L_1L_2\right) + s^3\left(4C_1C_2L_1R_1 + C_1C_2L_1R_5 + C_1C_2L_2R_1\right) + s^2\left(C_1C_2R_1R_5 + 2C_1L_1R_1g_m + C_1L_1 + 2C_2L_2R_1g_m + C_2L_2\right) + s\left(C_1R_1 + 4C_2R_1 + C_2R_5\right) + 1}{2R_1g_m + c_1C_2L_1L_2\right) + s^3\left(4C_1C_2L_1R_1 + C_1C_2L_1R_5 + C_1C_2L_2R_1\right) + s^2\left(C_1C_2R_1R_5 + C_1C_2L_1R_1g_m + C_1C_2L_1R_1 + C_2C_2R_1g_m + C_2C_2R_1\right) + s^2\left(C_1C_2R_1R_5 + C_1C_2R_1R_5\right) + s^2\left(C_1C_2R_1R_5\right) + s^2$

10.790 INVALID-ORDER-790 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1s^5 + C_1C_2L_1L_2R_1g_ms^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 - C_1C_5L_1R_1 - C_2C_5L_2R_1\right) + s^2\left(C_1L_1R_1g_m + C_2L_2R_1g_m\right) + s\left(C_2R_1 - C_5R_1\right)}{s^5\left(2C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1R_1 + C_1C_2C_5L_2R_1\right) + s^3\left(C_1C_2L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_2C_5L_2R_1g_m + C_2C_5L_2\right) + s^2\left(C_1C_2R_1 + C_1C_5R_1 + 4C_2C_5R_1\right) + s\left(C_2 + 2C_5R_1g_m + C_5C_5R_1\right)}$

10.791 INVALID-ORDER-791 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(C_1C_2L_1L_2R_1R_5g_m - C_1C_2L_1L_2R_1\right) + s^3\left(C_1C_2L_1R_1R_5 - C_2C_5L_2R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_1C_2L_1R_1\right) + s^2\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5 - C_2C_5L_2R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_1C_2L_1R_1\right) + s^2\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5 - C_2C_5L_2R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_1C_2L_1R_5\right) + s^2\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5 - C_1C_5L_1R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_1C_2L_1R_5\right) + s^2\left(C_1C_2L_1R_1R_5 - C_1C_5L_1R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_1C_2L_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1R_5\right) + s^2\left(C_1L_1$

10.792 INVALID-ORDER-792 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_1 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_1 \right) + s^4 \left(C_1 C_2 C_5 L_1 R_1 R_5 + C_1 C_2 L_1 L_2 R_1 g_m\right) + s^3 \left(C_1 C_2 L_1 R_1 + C_1 C_5 L_1 R_1 R_5 g_m - C_1 C_5 L_1 R_1 + C_2 C_5 L_2 R_1\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 C_5 R_1 R_5 + C_2 L_2 R_1 g_m\right) + s \left(C_2 R_1 + C_5 R_1 R_5 g_m - C_5 R_1\right) + s^2 \left(C_1 L_2 R_1 g_m + C_1 C_2 C_5 L_1 L_2\right) + s^4 \left(4 C_1 C_2 C_5 L_1 R_1 + C_1 C_2 C_5 L_1 R_5 + C_1 C_2 L_1 + 2 C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1 R_1 g_m + C_1 C_5 R_1 + C_1 C_5 R_1 R_5 R_1 + C_1 C_5 R_1 R_5 R_1 R_5 R_1 + C_1 C_5 R_1 R_5 R_1 R_$

10.793 INVALID-ORDER-793 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_2C_5L_1L_2L_5R_1g_ms^6 + R_1g_m + s^5\left(-C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_5R_1\right) + s^4\left(C_1C_2L_1L_2R_1g_m + C_1C_5L_1L_5R_1g_m + C_2C_5L_2L_5R_1g_m\right) + s^3\left(C_1C_2L_1R_1 - C_1C_5L_1R_1 - C_2C_5L_2R_1 + C_2C_5L_2R_1\right) + s^2\left(C_1L_1R_1g_m + C_2L_2R_1g_m + C_5L_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1g_m + C_5R_1g_m + C_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m + C_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1g_m + C_5R_1g_m\right) + s\left(C_2R_1 - C_5R_1g_m + C_5R_1$

10.794 INVALID-ORDER-794 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1g_ms^5 + L_5R_1g_ms - R_1 + s^4\left(-C_1C_2L_1L_2R_1 + C_1C_2L_1L_5R_1 - C_2C_5L_2L_5R_1\right) + s^3\left(C_1L_1L_5R_1g_m + C_2L_2L_5R_1g_m + C_2L_2L_5R$

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10.795 INVALID-ORDER-795 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
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 $H(s) = \frac{C_1C_2C_5L_1L_2L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_5L_1L_2R_1R_5g_m - C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1R_1R_5 + C_1C_2L_1L_2R_1g_m + C_1C_5L_1L_5R_1g_m + C_2C_5L_2L_5R_1g_m\right) + s^3\left(C_1C_2L_1R_1 + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_2C_5L_2R_1R_5g_m - C_2C_5L_2R_1R_5g$

10.796 INVALID-ORDER-796
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1R_5s^6 - R_1R_5 + s^5\left(C_1C_2L_1L_2L_5R_1R_5g_m - C_1C_2L_1L_2L_5R_1\right) + s^4\left(-C_1C_2L_1L_2L_5R_1R_5g_m + C_1C_2L_1L_2L_5R_1R_5g_m + C_1C_2L_1L_2L_5R_1R_5g_m + C_1C_2L_1L_2L_5R_1R_5g_m + C_1C_2L_1L_2L_5R_1R_5g_m + C_1C_2L_1L_2R_5R_1R_5g_m + C_1C_2L_1R_5g_m + C_1C_2L_1R_5g_m + C_1C_2L_1R_5g_m + C_1C_2L_1R_5g_m + C_1C_2L_1R_5g_m + C_1C_2L_$

10.797 INVALID-ORDER-797
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \infty, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right)$$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m - C_1 C_2 L_1 L_2 R_1 R_5 g_m - C_1 C_2 L_1 L_5 R_1 R_5 g_m - C_1 C_2 L_2 L$

10.798 INVALID-ORDER-798
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_1\right) + s^5 \left(-C_1 C_2 C_5 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_5 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 C_5 L_1 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 + C_1 C_2 L_2 R_1 R_5\right) + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5$

10.799 INVALID-ORDER-799
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ R_5, \ \infty\right)$$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_5 g_m - C_1 C_2 L_1 L_2 R_1\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 R_5 g_m - C_1 C_2 L_1 R_1 R_2 + C_1 C_2 L_1 R_1 R_2\right) + s^2 \left(C_1 L_1 R_1 R_5 g_m - C_1 L_1 R_1 + C_2 L_2 R_1 R_5 g_m - C_2 L_2 R_1\right) + s \left(C_2 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right)}{2 R_1 g_m + s^4 \left(2 C_1 C_2 L_1 L_2 R_1 g_m + C_1 C_2 L_1 L_2\right) + s^3 \left(2 C_1 C_2 L_1 R_1 R_2 g_m + 4 C_1 C_2 L_1 R_2 + C_1 C_2 L_1 R_5 + C_1 C_2 L_2 R_1\right) + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_2 L_1 R_3 g_m - C_2 L_2 R_1\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 L_2 R_1\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 L_2 R_1\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 + C_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_2 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_2 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_5 g_m - C_2 R_1 R_5\right) + s \left(C_1 R_1 R_5 R_5 g_m - C_2 R_1 R_5\right) + s$

10.800 INVALID-ORDER-800
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1s^5 + R_1g_m + s^4\left(-C_1C_2C_5L_1R_1R_2 + C_1C_2L_1L_2R_1g_m\right) + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 - C_2C_5L_2R_1\right) + s^2\left(C_1L_1R_1g_m - C_2C_5R_1R_2 + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 - C_5R_1\right)}{s^5\left(2C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1R_1 + C_1C_2C_5L_1R_1 + C_1C_2C_5L_1R_1 + C_1C_2C_5L_1R_1\right) + s^3\left(C_1C_2C_5R_1R_2 + C_1C_2L_1R_1 - C_2C_5L_1R_1\right) + s^3\left(C_1C_2C_5R_1R_2 + C_1C_2C_5L_1R_1 + C_1C_5L_1R_1g_m + C_$

10.801 INVALID-ORDER-801
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(-C_1C_2C_5L_1R_1R_2R_5 + C_1C_2L_1L_2R_1R_5g_m - C_1C_2L_1L_2R_1\right) + s^3\left(C_1C_2L_1R_1R_2R_5g_m - C_1C_2L_1R_2R_5g_m - C_1C_2L_1R_2R_5g_$

10.802 INVALID-ORDER-802
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_1 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_1\right) + s^4 \left(C_1 C_2 C_5 L_1 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 + C_1 C_2 C_5 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m - C_1 C_5 L_1 R_1 R_2 g_m - C_2 C_5 L_2 R_1\right) + s^2 \left(C_1 L_2 R_1 R_2 G_m - C_1 C_5 L_1 R_1 R_2$

10.803 INVALID-ORDER-803
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, L_5s + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{C_1C_2C_5L_1L_2L_5R_1g_ms^6 + R_1g_m + s^5\left(-C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_5R_1g_m + C_1C_2L_1L_2R_1g_m + C_1C_2L_1L_5R_1g_m + C_1C_2L_1L_5R_1g_m + C_1C_2L_1L_5R_1g_m + C_1C_2L_1L_5R_1g_m + C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 - C_2C_5L_1R_1 - C_2C_5L_2R_1 + C_2C$

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10.804 INVALID-ORDER-804 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ L_2s+R_2+\frac{1}{C_2s},\ \infty,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)
-C_1C_2C_5L_1L_2L_5R_1s^6-R_1+s^5\left(-C_1C_2C_5L_1L_5R_1R_2+C_1C_2L_1L_2L_5R_1g_m\right)+s^4\left(-C_1C_2L_1L_2R_1+C_1C_2L_1L_5R_1R_2g_m+C_1C_2L_1L_5R_1-C_1C_2L_1L_5R_1R_2g_m+C_1C
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 $H(s) = \frac{C_1C_2C_5L_1L_2L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_5L_1L_2R_1R_5g_m - C_1C_2C_5L_1L_2R_1R_2g_m + C_1C_2C_5L_1L_5R_1\right) + s^4\left(C_1C_2C_5L_1R_1R_2R_5g_m - C_1C_2C_5L_1R_1R_2 + C_1C_2C_5L_1R_1R_5 + C_1C_2L_1L_2R_1g_m + C_1C_5L_1L_5R_1g_m + C_2C_5L_2L_5R_1g_m\right) + s^3\left(C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1L_2R_1g_m + C_1C_2C_5L_1R_1R_2g_m + C_1C_2C_5L_1R_1R_2$

10.806 INVALID-ORDER-806
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1R_5s^6 - R_1R_5 + s^6}{2R_1R_5g_m + R_5 + s^6\left(2C_1C_2C_5L_1L_2L_5R_1R_5g_m + C_1C_2C_5L_1L_2R_5g_m + 4C_1C_2C_5L_1L_5R_1R_5 + C_1C_2C_5L_1L_5R_1R_5 + C_1C_2C_5L_1L_5R_1g_m + C_1C_2L_1L_2L_5\right) + s^4\left(C_1C_2C_5L_1L_2L_5R_1R_5g_m + 4C_1C_2C_5L_1L_5R_1R_5 + C_1C_2C_5L_1L_5R_1R_5 + C_1C_2$

10.807 INVALID-ORDER-807
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$$

10.808 INVALID-ORDER-808
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

10.809 INVALID-ORDER-809
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \infty, R_5, \infty\right)$$

10.810 INVALID-ORDER-810
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_5L_1L_2R_1\right) + s^3\left(-C_1C_5L_1R_1R_2 + C_1L_1L_2R_1g_m - C_2C_5L_2R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_2R_1R_2g_m + C_1L_1R_1R_2g_m + C_1L_1R$

10.811 INVALID-ORDER-811
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_2R_5s^5 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_2L_1L_2R_1R_2R_5g_m - C_1C_2L_1L_2R_1R_2R_5g_m - C_1C_2L_1L_2R_1R_2g_m - C$

10.812 INVALID-ORDER-812
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_5 L_1 L_2 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_5 L_1 L_2 R_1 R_2 g_m - C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_2 + C_1 C_5 L_1 R_1 R_2 + C_1 C_5 L_1 R_2 R_1 R$

10.815 INVALID-ORDER-815
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \infty, L_5s+R_5+\frac{1}{C_5s}, \infty\right)$$

$$R_1R_2g_m + R_1 + s^6\left(C_1C_2C_5L_1L_2L_5R_1R_2g_m + C_1C_2C_5L_1L_2L_5R_1\right) + s^5\left(C_1C_2C_5L_1L_2R_1R_2R_5g_m - C_1C_2C_5L_1L_2R_1R_2 + C_1C_2C_5L_1L_2R_1R_5 + C_1C_5L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_2R_1R_2g_m + C_1C$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 R_1 R_2 g_m - C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m - C_1 C_5 L_1 L$$

10.816 INVALID-ORDER-816
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

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

10.817 INVALID-ORDER-817
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$$

$$H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_5 R_1 R_5 g_m - C_1 C_5 L_1 L_2 L_5 R_1 R_5 g_m - C_1 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_5 R_1 R_2 g_m + C_1 L_2 L_2 R_1 R_2 g_m + C_1 L_2 L_2 R_1 R_2 g_m + C_1 L_2 L_2 R_1 R_2 g_m$$

10.818 INVALID-ORDER-818
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{C_2L_2R_2s^2+L_2s+R_2}{C_2L_2s^2+1}, \infty, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

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

10.819 INVALID-ORDER-819
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1R_1R_2R_5s^3 + C_2R_1R_2R_5s + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_5\right) + s^2\left(C_1L_1R_1R_2R_5g_m - C_1L_1R_1R_2 + C_1L_1R_1R_1 + C_1L_1R_1R_1R_1 + C_1L_1R_1R_1 + C_1L_1R_1R_1 + C_1L_1R_1R_1 + C_1L_1R_1R_1 + C_1L_1R_1R_1 + C_1$$

10.820 INVALID-ORDER-820
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1\right) + s^3\left(C_1C_2L_1R_1R_2 - C_2C_5L_2R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_2R_1R_2g_m\right)}{s^5\left(2C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1R_2 + C_1C_2L_1L_2\right) + s^3\left(C_1C_2L_1R_2 + C_1C_2L_1R_2 + C_1C_2L_1R_2 + C_1C_2L_1R_2 + C_1C_2L_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_2R_1R_2g_m\right)} \\ + \frac{c_1C_2C_5L_1L_2R_1R_2g_m + c_1C_2L_1L_2R_1 + s^4\left(C_1C_2L_1L_2R_1 + C_1C_2L_1R_1R_2 - C_2C_5L_2R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_2R_1R_2g_m\right)}{s^5\left(2C_1C_2C_5L_1L_2R_1 + C_1C_2C_5L_1R_1R_2 + C_1C_2L_1R_2\right) + s^4\left(4C_1C_2C_5L_1R_1R_2 + C_1C_5L_1R_1R_2\right) + s^4\left(4C_1C_2C_5L_1R_1R_2 + C_1C_5L_1R_1R_2\right) + s^4\left(4C_1C_2C_5L_1R_1R_2\right) + s^4\left(4C_1C_2C$$

10.821 INVALID-ORDER-821
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{-C_1C_2C_5L_1L_2R_1R_2R_5s^5 + R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_2L_1L_2R_1R_2R_5g_m - R_1R_2 + R_1R_5 + s^4\left(C_1C_2L_1L_2R_1R_2R_5g_m - R_1R_2 + R_1R_2R_5g_m - R_1R_2 + R_1R_2R_$$

10.822 INVALID-ORDER-822 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 + C_1 C_5 L_1 L_5 R_1 R_2 g_m + C_1 C_5 L_1 L_5 R_1 + C_2 C_5 L_2 L_5 R_1 + C_1 C_2 C_5 L_2 L_5 R_1 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_2 + C_1 C_2 C_5 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_2 L_5 R_1 + C$

10.824 INVALID-ORDER-824 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{-C_1C_2C_5L_1L_2L_5R_1R_2s^6 - R_1R_2 + s^5\left(C_1C_2L_1L_2L_5R_1R_2g_m + C_1C_2L_1L_2L_5R_1\right) + s^4\left(-2R_1R_2g_m + 4R_1 + R_2 + s^6\left(2C_1C_2C_5L_1L_2L_5R_1R_2g_m + 4C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1\right) + s^4\left(-2R_1R_2g_m + 4R_1 + R_2 + s^6\left(2C_1C_2C_5L_1L_2L_5R_1R_2g_m + 4C_1C_2L_1L_2R_1\right) + s^4\left(-2R_1R_2g_m + 4C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1\right) + s^4\left(-2R_1R_2g_m + 4R_1 + R_2 + s^6\left(2C_1C_2C_5L_1L_2L_5R_1R_2g_m + 4C_1C_2L_1L_2R_1\right) + s^4\left(-2R_1R_2g_m + 4C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1\right) + s^4\left(-2R_1R_2g_m + 4R_1 + R_2 + s^6\left(2C_1C_2C_5L_1L_2L_5R_1R_2g_m + 4C_1C_2L_1L_2R_1\right) + s^4\left(-2R_1R_2g_m + 4C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1\right) + s^4\left(-2R_1R_2g_m + 4R_1R_2g_m + 4C_1C_2L_1L_2R_1\right) + s^4\left(-2R_1R_2g_m + 4C_1C_2L_1L_2R_1\right) + s$

10.825 INVALID-ORDER-825 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 g_m + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 g_m - C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 g_m - C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 - C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_3 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 L_2 R_1 R_2 F_4 + C_1 C_2 C_5 L_1 R_2 F_5 + C_1 C_2 C_5 L_1 R_2 F$

10.826 INVALID-ORDER-826 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = \frac{1}{2R_{1}R_{2}R_{5}g_{m} + 4R_{1}R_{5} + R_{2}R_{5} + s^{6}\left(2C_{1}C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}R_{5}g_{m} + 4C_{1}C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{5} + C_{1}C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}R_{5} + C_{1$

10.827 INVALID-ORDER-827 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{R_1 R_2 R_5 g_m - R_1 R_2 + R_1 R_5 + s^6 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 R_5 g_m - C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + S^5 \left(C_1 C_2 C_5 L_1 L_2 L_5 R_1 R_2 + C_1 C$

10.828 INVALID-ORDER-828 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = \frac{1}{2R_{1}R_{2}q_{m} + 4R_{1} + R_{2} + R_{5} + s^{6}\left(2C_{1}C_{2}C_{5}L_{1}L_{2}L_{5}R_{1}R_{2}q_{m} + 4C_{1}C_{2}C_{5}L_{1}L_{2}L_{5}R_{1} + C_{1}C_{2}C_{5}L_{1}L_{2}L_{5}R_{2} + C_{1}C_{2}C_{5}L_{1}L_{2}R_{5}R_{5} + S^{5}\left(2C_{1}C_{2}C_{5}L_{1}L_{2}R_{1}R_{5} + C_{1}C_{2}C_{5}L_{1}L_{2}R_{1}R_{5} + C_{1}C_{2}C_{5}L_{1}L_{2}R_{2}R_{5} + 4C_{1}C_{2}C_{5}L_{1}L_{5}R_{1}R_{2} + C_{1}C_{2}C_{5}L_{1}L_{5}R_{2}R_{5} + C_{1}C_{2}C_{5}L_{1}L_{5}R_{5}R_{5} + C_{1}C_{2}C_{5}L_{1}L_$

11 PolynomialError