Filter Summary Report: CG,TIA,simple,Z1,Z3,ZL

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Contents

1 Examined H(z) for CG TIA simple Z1 Z3 ZL: $\frac{Z_1Z_3Z_Lg_m}{Z_1Z_3g_m+Z_1Z_Lg_m+Z_3+Z_L}$

$$H(z) = \frac{Z_1 Z_3 Z_L g_m}{Z_1 Z_3 g_m + Z_1 Z_L g_m + Z_3 + Z_L}$$

- 2 HP
- 3 BP
- **3.1** BP-1 $Z(s) = \left(R_1, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L R_1 R_3 g_m s}{R_1 R_3 g_m + R_3 + s^2 \left(C_L L_L R_1 R_3 g_m + C_L L_L R_3 \right) + s \left(L_L R_1 g_m + L_L \right)}$$

Parameters:

Q:
$$C_L R_3 \sqrt{\frac{1}{C_L L_L}}$$

wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{1}{C_L R_3}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$
Qz: 0
Wz: None

3.2 BP-2 $Z(s) = \left(R_1, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

Parameters:

Q:
$$\frac{C_L R_3 R_L \sqrt{\frac{1}{C_L L_L}}}{R_3 + R_L}$$

wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{R_3 + R_L}{C_L R_3 R_L}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L}$
Qz: 0
Wz: None

3.3 BP-3 $Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

Q:
$$C_3 R_L \sqrt{\frac{1}{C_3 L_L + C_L L_L}} + C_L R_L \sqrt{\frac{1}{C_3 L_L + C_L L_L}}$$

wo: $\sqrt{\frac{1}{C_3 L_L + C_L L_L}}$
bandwidth: $\frac{\sqrt{\frac{1}{C_3 L_L + C_L L_L}}}{C_3 R_L \sqrt{\frac{1}{C_3 L_L + C_L L_L}} + C_L R_L \sqrt{\frac{1}{C_3 L_L + C_L L_L}}}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1 R_L g_m}{R_1 g_m + 1}$

3.4 BP-4
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L R_1 R_3 g_m s}{R_1 R_3 g_m + R_3 + s^2 \left(C_3 L_L R_1 R_3 g_m + C_3 L_L R_3 + C_L L_L R_1 R_3 g_m + C_L L_L R_3 \right) + s \left(L_L R_1 g_m + L_L \right)}$$

Q:
$$C_3R_3\sqrt{\frac{1}{C_3L_L+C_LL_L}}+C_LR_3\sqrt{\frac{1}{C_3L_L+C_LL_L}}$$
 wo: $\sqrt{\frac{1}{C_3L_L+C_LL_L}}$ bandwidth: $\sqrt{\frac{1}{C_3L_L+C_LL_L}}$ $\frac{\sqrt{\frac{1}{C_3L_L+C_LL_L}}}{C_3R_3\sqrt{\frac{1}{C_3L_L+C_LL_L}}+C_LR_3\sqrt{\frac{1}{C_3L_L+C_LL_L}}}$ K-LP: 0 K-HP: 0 K-BP: $\frac{R_1R_3g_m}{R_1g_m+1}$ Qz: 0 Wz: None

3.5 BP-5
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_3R_3R_L\sqrt{\frac{1}{C_3L_L+C_LL_L}}}{R_3+L_L} + C_LR_3R_L\sqrt{\frac{1}{C_3L_L+C_LL_L}}} \\ \text{wo:} \ \sqrt{\frac{1}{C_3L_L+C_LL_L}} \\ \text{bandwidth:} \ \frac{(R_3+R_L)\sqrt{\frac{1}{C_3L_L+C_LL_L}}}{C_3R_3R_L\sqrt{\frac{1}{C_3L_L+C_LL_L}}} + C_LR_3R_L\sqrt{\frac{1}{C_3L_L+C_LL_L}}} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_1R_3R_Lg_m}{R_1R_3g_m+R_1R_Lg_m+R_3+R_L} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.6 BP-6
$$Z(s) = \left(R_1, \infty, \frac{L_{3s}}{C_3L_{3s}^2+1}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{L_3 R_1 R_L g_m s}{R_1 R_L g_m + R_L + s^2 \left(C_3 L_3 R_1 R_L g_m + C_3 L_3 R_L \right) + s \left(L_3 R_1 g_m + L_3 \right)}$$

Q:
$$C_3R_L\sqrt{\frac{1}{C_3L_3}}$$

wo: $\sqrt{\frac{1}{C_3L_3}}$
bandwidth: $\frac{1}{C_3R_L}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1R_Lg_m}{R_1g_m+1}$
Qz: 0
Wz: None

3.7 BP-7
$$Z(s) = \left(R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

Q:
$$C_3R_L\sqrt{\frac{1}{C_3L_3+C_LL_3}}+C_LR_L\sqrt{\frac{1}{C_3L_3+C_LL_3}}$$
 wo: $\sqrt{\frac{1}{C_3L_3+C_LL_3}}$ bandwidth: $\frac{\sqrt{\frac{1}{C_3L_3+C_LL_3}}}{C_3R_L\sqrt{\frac{1}{C_3L_3+C_LL_3}}+C_LR_L\sqrt{\frac{1}{C_3L_3+C_LL_3}}}$ K-LP: 0 K-HP: 0 K-BP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ Qz: 0 Wz: None

3.8 BP-8
$$Z(s) = \left(R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

Parameters:

$$\begin{array}{c} \text{Q: } C_{3}R_{L}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}}L_{3}L_{L}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + C_{L}R_{L}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}\\ \text{wo: } \sqrt{\frac{L_{3}+L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}\\ \text{bandwidth: } \frac{\sqrt{\frac{L_{3}+L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}}{\frac{C_{3}R_{L}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}} \\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{R_{1}R_{L}g_{m}\sqrt{\frac{1}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{1}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}}{R_{1}g_{m}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{1}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}} \\ \text{Qz: 0}\\ \text{Wz: None} \end{array}$$

3.9 BP-9
$$Z(s) = \left(R_1, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{L_3 R_1 R_3 R_L g_m s}{R_1 R_3 R_L g_m + R_3 R_L + s^2 \left(C_3 L_3 R_1 R_3 R_L g_m + C_3 L_3 R_3 R_L \right) + s \left(L_3 R_1 R_3 g_m + L_3 R_1 R_L g_m + L_3 R_3 + L_3 R_L \right)}$$

Parameters:

3.10 BP-10
$$Z(s) = \left(R_1, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{L_3 R_1 R_3 g_m s}{R_1 R_3 g_m + R_3 + s^2 \left(C_3 L_3 R_1 R_3 g_m + C_3 L_3 R_3 + C_L L_3 R_1 R_3 g_m + C_L L_3 R_3 \right) + s \left(L_3 R_1 g_m + L_3 \right)}$$

Q:
$$C_3R_3\sqrt{\frac{1}{C_3L_3+C_LL_3}} + C_LR_3\sqrt{\frac{1}{C_3L_3+C_LL_3}}$$

wo: $\sqrt{\frac{1}{C_3L_3+C_LL_3}}$
bandwidth: $\frac{\sqrt{\frac{1}{C_3L_3+C_LL_3}}}{C_3R_3\sqrt{\frac{1}{C_3L_3+C_LL_3}} + C_LR_3\sqrt{\frac{1}{C_3L_3+C_LL_3}}}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1R_3g_m}{R_1g_m+1}$
Qz: 0
Wz: None

3.11 BP-11
$$Z(s) = \left(R_1, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

$$\begin{aligned} &\text{Q:} \ \frac{C_3R_3R_L\sqrt{\frac{1}{C_3L_3+C_LL_3}} + C_LR_3R_L\sqrt{\frac{1}{C_3L_3+C_LL_3}}}{R_3+R_L} \\ &\text{wo:} \ \sqrt{\frac{1}{C_3L_3+C_LL_3}} \\ &\text{bandwidth:} \ \frac{(R_3+R_L)\sqrt{\frac{1}{C_3L_3+C_LL_3}}}{C_3R_3R_L\sqrt{\frac{1}{C_3L_3+C_LL_3}} + C_LR_3R_L\sqrt{\frac{1}{C_3L_3+C_LL_3}}} \\ &\text{K-LP:} \ 0 \\ &\text{K-HP:} \ 0 \\ &\text{K-BP:} \ \frac{R_1R_3R_Lg_m}{R_1R_3g_m+R_1R_Lg_m+R_3+R_L} \\ &\text{Qz:} \ 0 \\ &\text{Wz:} \ \text{None} \end{aligned}$$

3.12 BP-12
$$Z(s) = \left(R_1, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_3L_LR_1R_3g_ms}{L_3R_1R_3g_m + L_3R_3 + L_LR_1R_3g_m + L_LR_3 + s^2\left(C_3L_3L_LR_1R_3g_m + C_3L_3L_LR_3 + C_LL_3L_LR_1R_3g_m + C_LL_3L_LR_3\right) + s\left(L_3L_LR_1g_m + L_3L_L\right)}$$

Parameters:

$$\begin{array}{c} \text{Q: } C_{3}R_{3}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}}L_{3}L_{L}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + C_{L}R_{3}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} \\ \text{wo: } \sqrt{\frac{L_{3}+L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}} \\ \text{bandwidth: } \frac{\sqrt{\frac{L_{3}+L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}} \\ \frac{L_{3}+L_{L}}{C_{3}R_{3}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{R_{1}R_{3}g_{m}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}}}{R_{1}g_{m}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}}} \\ \text{Qz: 0} \\ \text{Wz: None} \end{array}$$

3.13 BP-13
$$Z(s) = \left(R_1, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_{3s}^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_3L_LR_1R_3R_Lg_ms}{L_3R_1R_3R_Lg_m + L_3R_3R_L + L_LR_1R_3R_Lg_m + L_LR_3R_L + s^2\left(C_3L_3L_LR_1R_3R_Lg_m + C_3L_3L_LR_1R_3R_Lg_m + C_LL_3L_LR_3R_L\right) + s\left(L_3L_LR_1R_3g_m + L_3L_LR_1R_2g_m + L_3L_LR_3R_Lg_m + L_3L_L$$

$$Q: \frac{C_{3}R_{3}R_{L}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}{R_{3}+R_{L}} + C_{L}R_{3}R_{L}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}$$

$$wo: \sqrt{\frac{L_{3}+L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}$$

$$bandwidth: \frac{\sqrt{\frac{L_{3}+L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}{R_{3}+R_{L}}(R_{3}+R_{L})}{C_{3}R_{3}R_{L}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + C_{L}R_{3}R_{L}\sqrt{\frac{L_{3}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}} + \frac{L_{L}}{C_{3}L_{3}L_{L}+C_{L}L_{3}L_{L}}}$$

$$\begin{aligned} \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{R_1 R_3 R_L g_m \sqrt{\frac{1}{C_3 L_L + C_L L_L}} + \frac{1}{C_3 L_3 + C_L L_3}}{R_1 R_3 g_m \sqrt{\frac{L_3}{C_3 L_3 L_L + C_L L_3 L_L}} + R_1 R_L g_m \sqrt{\frac{L_3}{C_3 L_3 L_L + C_L L_3 L_L}} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L} + R_3 \sqrt{\frac{L_3}{C_3 L_3 L_L + C_L L_3 L_L}} + R_L \sqrt{\frac{L_3}{C_3 L_3 L_L + C_L L_3 L_L}} + R_L \sqrt{\frac{L_3}{C_3 L_3 L_L + C_L L_3 L_L}} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L}} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L}} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L}} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L}} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L}} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L} + \frac{L_L}{C_3 L_3 L_L + C_L L_3 L_L}} + \frac{L_L}{$$

Qz: 0 Wz: None

3.14 BP-14
$$Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$$

 $H(s) = \frac{L_1 R_3 g_m s}{C_L L_1 R_3 g_m s^2 + s \left(C_L R_3 + L_1 g_m\right) + 1}$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_L L_1 R_3 g_m \sqrt{\frac{1}{C_L L_1 R_3 g_m}}}{C_L R_3 + L_1 g_m} \\ \text{wo:} \ \sqrt{\frac{1}{C_L L_1 R_3 g_m}} \\ \text{bandwidth:} \ \frac{C_L R_3 + L_1 g_m}{C_L L_1 R_3 g_m} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{L_1 R_3 g_m}{C_L R_3 + L_1 g_m} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.15 BP-15 $Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$H(s) = \frac{L_1 R_3 R_L g_m s}{C_L L_1 R_3 R_L g_m s^2 + R_3 + R_L + s \left(C_L R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m \right)}$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_L L_1 R_3 R_L g_m \sqrt{\frac{1}{C_L L_1 R_L g_m} + \frac{1}{C_L L_1 R_3 g_m}}}{C_L R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m} \\ & \text{wo:} \ \sqrt{\frac{R_3 + R_L}{C_L L_1 R_3 R_L g_m}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{R_3 + R_L}{C_L L_1 R_3 R_L g_m}} (C_L R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m)}{C_L L_1 R_3 R_L g_m \sqrt{\frac{1}{C_L L_1 R_L g_m} + \frac{1}{C_L L_1 R_3 g_m}}} \\ & \text{K-LP:} \ 0 \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ \frac{L_1 R_3 R_L g_m}{C_L R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m}} \\ & \text{Qz:} \ 0 \\ & \text{Wz:} \ \text{None} \end{aligned}$$

3.16 BP-16 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$H(s) = \frac{L_1 R_L g_m s}{C_3 L_1 R_L g_m s^2 + s \left(C_3 R_L + L_1 g_m \right) + 1}$

$$\begin{array}{l} \text{Q:} \ \frac{C_3L_1R_Lg_m\sqrt{\frac{1}{C_3L_1R_Lg_m}}}{C_3R_L+L_1g_m} \\ \text{wo:} \ \sqrt{\frac{1}{C_3L_1R_Lg_m}} \\ \text{bandwidth:} \ \frac{C_3R_L+L_1g_m}{C_3L_1R_Lg_m} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{L_1R_Lg_m}{C_3R_L+L_1g_m} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.17 BP-17
$$Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

Q:
$$\frac{C_{3}L_{1}R_{L}g_{m}\sqrt{\frac{1}{C_{3}L_{1}R_{L}g_{m}}+C_{L}L_{1}R_{L}g_{m}}}{C_{3}R_{L}+C_{L}R_{L}L_{1}g_{m}}+C_{L}L_{1}R_{L}g_{m}}\sqrt{\frac{1}{C_{3}L_{1}R_{L}g_{m}}+C_{L}L_{1}R_{L}g_{m}}}$$
wo:
$$\sqrt{\frac{1}{C_{3}L_{1}R_{L}g_{m}}+C_{L}L_{1}R_{L}g_{m}}}$$
bandwidth:
$$\frac{(C_{3}R_{L}+C_{L}R_{L}+L_{1}g_{m})\sqrt{\frac{1}{C_{3}L_{1}R_{L}g_{m}}+C_{L}L_{1}R_{L}g_{m}}}{C_{3}L_{1}R_{L}g_{m}\sqrt{\frac{1}{C_{3}L_{1}R_{L}g_{m}}+C_{L}L_{1}R_{L}g_{m}}}+C_{L}L_{1}R_{L}g_{m}\sqrt{\frac{1}{C_{3}L_{1}R_{L}g_{m}}+C_{L}L_{1}R_{L}g_{m}}}}$$
K-LP: 0
K-HP: 0
K-BP:
$$\frac{L_{1}R_{L}g_{m}}{C_{3}R_{L}+C_{L}R_{L}+L_{1}g_{m}}}$$
Qz: 0
Wz: None

3.18 BP-18 $Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)$

Parameters:

$$\begin{aligned} &\text{Q:} \ \frac{C_3L_1R_3R_Lg_m\sqrt{\frac{1}{C_3L_1R_Lg_m}} + \frac{1}{C_3L_1R_3g_m}}{C_3R_3R_L + L_1} \\ &\text{wo:} \ \sqrt{\frac{R_3 + R_L}{C_3L_1R_3R_Lg_m}} \\ &\text{bandwidth:} \ \frac{\sqrt{\frac{R_3 + R_L}{C_3L_1R_3R_Lg_m}}(C_3R_3R_L + L_1R_3g_m + L_1R_Lg_m)}{C_3L_1R_3R_Lg_m\sqrt{\frac{1}{C_3L_1R_3g_m}} + \frac{1}{C_3L_1R_3g_m}} \\ &\text{K-LP:} \ 0 \\ &\text{K-HP:} \ 0 \\ &\text{K-BP:} \ \frac{L_1R_3R_Lg_m}{C_3R_3R_L + L_1R_3g_m + L_1R_Lg_m} \\ &\text{Qz:} \ 0 \end{aligned}$$

3.19 BP-19
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$$

Parameters:

$$H(s) = \frac{L_1 R_L g_m s}{s^2 \left(C_3 L_1 R_L g_m + C_L L_1 R_L g_m \right) + s \left(C_3 R_L + C_L R_L + L_1 g_m \right) + 1}$$

$$H(s) = \frac{L_1 R_3 R_L g_m s}{C_3 L_1 R_3 R_L g_m s^2 + R_3 + R_L + s \left(C_3 R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m \right)}$$

$$H(s) = \frac{L_1 R_3 g_m s}{s^2 \left(C_3 L_1 R_3 g_m + C_L L_1 R_3 g_m \right) + s \left(C_3 R_3 + C_L R_3 + L_1 g_m \right) + 1}$$

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3.20 BP-20
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{L_1 R_3 R_L g_m s}{R_3 + R_L + s^2 \left(C_3 L_1 R_3 R_L g_m + C_L L_1 R_3 R_L g_m \right) + s \left(C_3 R_3 R_L + C_L R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m \right)}$$

$$\begin{array}{l} \text{Q:} \frac{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}{C_3R_3R_Lg_m+C_LL_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m+C_LL_1R_3R_Lg_m}+C_3L_1R_3R_Lg_m+C_3L_1R_3R_Lg_m} \\ \text{wo:} \sqrt{\frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m}}} \\ \text{bandwidth:} \frac{\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}(C_3R_3R_L+C_LR_3R_L+L_1R_3g_m+L_1R_Lg_m)} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}}(C_3R_3R_L+C_LR_3R_L+L_1R_3g_m+L_1R_Lg_m)} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}}(C_3R_3R_L+C_LR_3R_L+L_1R_3g_m+L_1R_Lg_m)} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}(C_3R_3R_L+C_LR_3R_L+L_1R_3g_m+L_1R_Lg_m)} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}+C_LL_1R_3R_Lg_m}} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3g_m}+C_LL_1R_3g_m}+C_LR_3g_m}} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m\sqrt{\sum_{3L_1R_3R_Lg_m}+C_LL_1R_3g_m}+C_LR_3g_m}} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3g_m}+C_LR_3g_m} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3g_m}+C_LR_3g_m}{C_3L_1R_3R_Lg_m+C_LL_1R_3g_m}+C_LR_3g_m} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3g_m}+C_LR_3g_m} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3g_m}+C_LR_3g_m}{C_3L_1R_3R_Lg_m+C_LL_1R_3g_m}+C_LR_3g_m} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m}+C_LR_3g_m}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m}+C_LR_3g_m} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m}+C_LR_3g_m}{C_3L_1R_3R_Lg_m+C_LL_1R_3g_m} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m}+C_LR_3g_m}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m} \\ \text{bandwidth:} \frac{R_3+R_L}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m}+C_LR_3g_m}{C_3L_1R_3R_Lg_m+C_LL_1R_3R_Lg_m} \\ \text{bandwidth:} \frac{R$$

3.21 BP-21
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, R_L\right)$$

$$H(s) = \frac{L_1 R_3 R_L g_m s}{R_3 + R_L + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_L \right) + s \left(L_1 R_3 g_m + L_1 R_L g_m \right)}$$

Parameters:

Q:
$$\frac{C_1\sqrt{\frac{1}{C_1L_1}}}{\frac{g_m}{G_1}}$$
wo:
$$\sqrt{\frac{1}{C_1L_1}}$$
bandwidth:
$$\frac{g_m}{C_1}$$
K-LP: 0
K-HP: 0
K-BP:
$$\frac{R_3R_L}{R_3+R_L}$$
Qz: 0
Wz: None

3.22 BP-22
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, R_L\right)$$

$$H(s) = \frac{L_1 R_1 R_3 R_L g_m s}{R_1 R_3 + R_1 R_L + s^2 \left(C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_L \right) + s \left(L_1 R_1 R_3 g_m + L_1 R_1 R_L g_m + L_1 R_3 + L_1 R_L \right)}$$

Parameters:

Q:
$$\frac{C_1R_1\sqrt{\frac{1}{C_1L_1}}}{R_1g_m+1}$$

wo: $\sqrt{\frac{1}{C_1L_1}}$
bandwidth: $\frac{R_1g_m+1}{C_1R_1}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1R_3R_Lg_m}{R_1R_3g_m+R_1R_Lg_m+R_3+R_L}$
Qz: 0
Wz: None

4 LP

4.1 LP-1 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$

Parameters:

Q:
$$\frac{C_1C_LR_3\sqrt{\frac{g_m}{C_1C_LR_3}}}{C_1+C_LR_3g_m}$$
 wo:
$$\sqrt{\frac{g_m}{C_1C_LR_3}}$$
 bandwidth:
$$\frac{C_1+C_LR_3g_m}{C_1C_LR_3}$$
 K-LP: R_3 K-HP: 0 K-BP: 0 Qz: None Wz: None

4.2 LP-2
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{g_{m}}{C_{1}C_{L}R_{L}}} + \frac{g_{m}}{C_{1}C_{L}R_{3}}}{C_{1}R_{3} + C_{1}R_{L} + C_{L}R_{3}R_{L}g_{m}} \\ & \text{wo:} \ \sqrt{\frac{R_{3}g_{m} + R_{L}g_{m}}{C_{1}C_{L}R_{3}R_{L}}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{R_{3}g_{m} + R_{L}g_{m}}{C_{1}C_{L}R_{3}R_{L}}}(C_{1}R_{3} + C_{1}R_{L} + C_{L}R_{3}R_{L}g_{m})}{C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{g_{m}}{C_{1}C_{L}R_{L}}} + \frac{g_{m}}{C_{1}C_{L}R_{3}}} \\ & \text{K-LP:} \ \frac{R_{3}R_{L}}{R_{3} + R_{L}} \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ 0 \\ & \text{Qz:} \ \text{None} \end{aligned}$$

4.3 LP-3
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1C_3R_L\sqrt{\frac{g_m}{C_1C_3R_L}}}{C_1+C_3R_Lg_m} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_1C_3R_L}} \\ & \text{bandwidth:} \ \frac{C_1+C_3R_Lg_m}{C_1C_3R_L} \\ & \text{K-LP:} \ R_L \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ 0 \\ & \text{Qz:} \ \text{None} \\ & \text{Wz:} \ \text{None} \end{aligned}$$

4.4 LP-4
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$\text{Q: } \frac{C_1C_3R_L\sqrt{\frac{g_m}{C_1C_3R_L+C_1C_LR_L}} + C_1C_LR_L\sqrt{\frac{g_m}{C_1C_3R_L+C_1C_LR_L}}}{C_1+C_3R_Lg_m+C_LR_Lg_m}$$

$$H(s) = \frac{R_3 g_m}{C_1 C_L R_3 s^2 + g_m + s \left(C_1 + C_L R_3 g_m\right)}$$

$$H(s) = \frac{R_3 R_L g_m}{C_1 C_L R_3 R_L s^2 + R_3 g_m + R_L g_m + s \left(C_1 R_3 + C_1 R_L + C_L R_3 R_L g_m \right)}$$

$$H(s) = \frac{R_L g_m}{C_1 C_3 R_L s^2 + g_m + s \left(C_1 + C_3 R_L g_m\right)}$$

$$H(s) = \frac{R_L g_m}{g_m + s^2 \left(C_1 C_3 R_L + C_1 C_L R_L \right) + s \left(C_1 + C_3 R_L g_m + C_L R_L g_m \right)}$$

$$\begin{array}{l} \text{wo: } \sqrt{\frac{g_m}{C_1C_3R_L+C_1C_LR_L}} \\ \text{bandwidth: } \frac{\sqrt{\frac{g_m}{C_1C_3R_L+C_1C_LR_L}}(C_1+C_3R_Lg_m+C_LR_Lg_m)}{C_1C_3R_L\sqrt{\frac{g_m}{C_1C_3R_L+C_1C_LR_L}}+C_1C_LR_L\sqrt{\frac{g_m}{C_1C_3R_L+C_1C_LR_L}}}\\ \text{K-LP: } R_L\\ \text{K-HP: } 0\\ \text{K-BP: } 0\\ \text{Qz: None}\\ \text{Wz: None} \end{array}$$

4.5 LP-5
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)$$

$H(s) = \frac{R_3 R_L g_m}{C_1 C_3 R_3 R_L s^2 + R_3 g_m + R_L g_m + s \left(C_1 R_3 + C_1 R_L + C_3 R_3 R_L g_m \right)}$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_{1}C_{3}R_{3}R_{L}\sqrt{\frac{g_{m}}{C_{1}C_{3}R_{L}}}+\frac{g_{m}}{C_{1}C_{3}R_{3}}}{C_{1}R_{3}+C_{1}R_{L}+C_{3}R_{3}R_{L}g_{m}} \\ \text{wo:} \ \sqrt{\frac{R_{3}g_{m}+R_{L}g_{m}}{C_{1}C_{3}R_{3}R_{L}}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{R_{3}g_{m}+R_{L}g_{m}}{C_{1}C_{3}R_{3}R_{L}}}(C_{1}R_{3}+C_{1}R_{L}+C_{3}R_{3}R_{L}g_{m})}{C_{1}C_{3}R_{3}R_{L}}\sqrt{\frac{g_{m}}{C_{1}C_{3}R_{L}}}+\frac{g_{m}}{C_{1}C_{3}R_{3}}} \\ \text{K-LP:} \ \frac{R_{3}R_{L}}{R_{3}+R_{L}} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \text{None} \end{array}$$

4.6 LP-6
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$$

$H(s) = \frac{R_3 g_m}{g_m + s^2 \left(C_1 C_3 R_3 + C_1 C_L R_3 \right) + s \left(C_1 + C_3 R_3 g_m + C_L R_3 g_m \right)}$

Parameters:

Q:
$$\frac{C_1C_3R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_LR_3}}+C_1C_LR_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_LR_3}}}{C_1+C_3R_3g_m+C_LR_3g_m}$$
 wo:
$$\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_LR_3}}$$
 bandwidth:
$$\frac{\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_LR_3}}(C_1+C_3R_3g_m+C_LR_3g_m)}{C_1C_3R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_LR_3}}+C_1C_LR_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_LR_3}}}$$
 K-LP: R_3 K-HP: 0 K-BP: 0 Qz: None Wz: None

4.7 LP-7
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

$$\begin{array}{c} \text{Q:} \frac{C_{1}C_{3}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + \frac{R_{L}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + \frac{R_{L}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} \\ \text{wo:} \sqrt{\frac{R_{3}g_{m}+R_{L}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} \\ \text{bandwidth:} \frac{\sqrt{\frac{R_{3}g_{m}+R_{L}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} (C_{1}R_{3}+C_{1}R_{L}+C_{3}R_{3}R_{L}g_{m}+C_{L}R_{3}R_{L}g_{m}})} \\ \text{bandwidth:} \frac{\sqrt{\frac{R_{3}g_{m}+R_{L}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + \frac{R_{L}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}} + C_{1}C_{L}R_{3}R_{L}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}} + C_{1}C_{L}R_{3}R_{L}\sqrt{\frac{R_{3}g_{m}}{C_{1}C_{3}R_{3}R_{L}+C_{1}C_{L}R_{3}R_{L}}}}} + C_{1}C_{$$

K-BP: 0 Qz: None Wz: None

4.8 LP-8
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$$

 $H(s) = \frac{R_1 R_3 g_m}{C_1 C_L R_1 R_3 s^2 + R_1 g_m + s \left(C_1 R_1 + C_L R_1 R_3 g_m + C_L R_3\right) + 1}$

Parameters:

 $\begin{aligned} & \text{Q:} \ \frac{C_1C_LR_1R_3\sqrt{\frac{g_m}{C_1C_LR_3} + \frac{1}{C_1C_LR_1R_3}}}{C_1R_1 + C_LR_1R_3g_m + C_LR_3} \\ & \text{wo:} \ \sqrt{\frac{R_1g_m + 1}{C_1C_LR_1R_3}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{R_1g_m + 1}{C_1C_LR_1R_3}}(C_1R_1 + C_LR_1R_3g_m + C_LR_3)}{C_1C_LR_1R_3\sqrt{\frac{g_m}{C_1C_LR_3}} + \frac{1}{C_1C_LR_1R_3}} \\ & \text{K-LP:} \ \frac{R_1R_3g_m}{R_1g_m + 1} \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ 0 \\ & \text{Qz:} \ \text{None} \\ & \text{Wz:} \ \text{None} \end{aligned}$

4.9 LP-9 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

 $H(s) = \frac{R_1 R_3 R_L g_m}{C_1 C_L R_1 R_3 R_L s^2 + R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s \left(C_1 R_1 R_3 + C_1 R_1 R_L + C_L R_1 R_3 R_L g_m + C_L R_3 R_L\right)}$

Parameters:

 $\begin{aligned} &\text{Q:} \ \frac{C_1C_LR_1R_3R_L\sqrt{\frac{g_m}{C_1C_LR_L}} + \frac{g_m}{C_1C_LR_3} + \frac{1}{C_1C_LR_1R_L} + \frac{1}{C_1C_LR_1R_3}}{C_1R_1R_3 + C_1R_1R_1 + C_LR_1R_3R_Lg_m + C_LR_3R_L} \\ &\text{wo:} \ \sqrt{\frac{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L}{C_1C_LR_1R_3R_L}} \\ &\text{bandwidth:} \ \frac{\sqrt{\frac{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L}{C_1C_LR_1R_3R_L}}(C_1R_1R_3 + C_1R_1R_L + C_LR_1R_3R_Lg_m + C_LR_3R_L)}{C_1C_LR_1R_3R_L} \\ &\text{bandwidth:} \ \frac{\sqrt{\frac{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L}{C_1C_LR_1R_3R_L}}(C_1R_1R_3 + C_1R_1R_L + C_LR_1R_3R_Lg_m + C_LR_3R_L)}{C_1C_LR_1R_3R_L}} \\ &\text{K-LP:} \ \frac{R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L}} \\ &\text{K-HP:} \ 0 \\ &\text{K-BP:} \ 0 \\ &\text{Qz:} \ \text{None} \end{aligned}$

4.10 LP-10 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

 $H(s) = \frac{R_1 R_L g_m}{C_1 C_3 R_1 R_L s^2 + R_1 g_m + s \left(C_1 R_1 + C_3 R_1 R_L g_m + C_3 R_L\right) + 1}$

Parameters:

 $\begin{aligned} &\text{Q:} \ \frac{C_1C_3R_1R_L\sqrt{\frac{g_m}{C_1C_3R_L}} + \frac{1}{C_1C_3R_1R_L}}{C_1R_1 + C_3R_1R_Lg_m + C_3R_L} \\ &\text{wo:} \ \sqrt{\frac{R_1g_m + 1}{C_1C_3R_1R_L}} \\ &\text{bandwidth:} \ \frac{\sqrt{\frac{R_1g_m + 1}{C_1C_3R_1R_L}}(C_1R_1 + C_3R_1R_Lg_m + C_3R_L)}{C_1C_3R_1R_L\sqrt{\frac{g_m}{C_1C_3R_L}} + \frac{1}{C_1C_3R_1R_L}} \\ &\text{K-LP:} \ \frac{R_1R_Lg_m}{R_1g_m + 1} \\ &\text{K-HP:} \ 0 \\ &\text{K-BP:} \ 0 \\ &\text{Qz:} \ \text{None} \end{aligned}$

4.11 LP-11
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{R_1 R_L g_m}{R_1 g_m + s^2 \left(C_1 C_3 R_1 R_L + C_1 C_L R_1 R_L \right) + s \left(C_1 R_1 + C_3 R_1 R_L g_m + C_3 R_L + C_L R_1 R_L g_m + C_L R_L \right) + 1}$$

$$\begin{array}{c} \text{Q:} \frac{C_{1}C_{3}R_{1}R_{L}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}}} + \frac{1}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}}} + C_{1}C_{L}R_{1}R_{L}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}}} + \frac{1}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}}} \\ \text{Wo:} \sqrt{\frac{R_{1}g_{m}+1}}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}}}} \\ \text{bandwidth:} \frac{\sqrt{\frac{R_{1}g_{m}+1}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}}} (C_{1}R_{1}+C_{3}R_{1}R_{L}g_{m}+C_{3}R_{L}+C_{L}R_{1}R_{L}}g_{m}+C_{L}R_{L})} \\ \text{bandwidth:} \frac{\sqrt{\frac{R_{1}g_{m}+1}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}}} (C_{1}R_{1}+C_{3}R_{1}R_{L}g_{m}+C_{3}R_{L}+C_{L}R_{1}R_{L}g_{m}+C_{L}R_{L})} \\ \text{bandwidth:} \frac{R_{1}g_{m}+1}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}} + \frac{1}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}} + C_{1}C_{L}R_{1}R_{L}} (C_{1}R_{1}+C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}} + C_{1}C_{L}R_{1}R_{L}) \\ \text{bandwidth:} \frac{R_{1}g_{m}+1}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}} + \frac{1}{C_{1}C_{3}R_{1}R_{L}+C_{1}C_{L}R_{1}R_{L}} + C_{1}C_{L}R_{1}R_{L}} + C_{1}C_{L}R_{1}R_{L}} \\ \text{K-HP:} 0 \\ \text{K-BP:} 0 \\ \text{Qz:} \text{ None} \\ \text{Wz:} \text{ None} \end{array}$$

4.12 LP-12 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)$

$$F(s) = \frac{R_1 R_3 R_L g_m}{C_1 C_3 R_1 R_3 R_L s^2 + R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s \left(C_1 R_1 R_3 + C_1 R_1 R_L + C_3 R_1 R_3 R_L g_m + C_3 R_3 R_L \right)}$$

Parameters:

4.13 LP-13 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_1 R_3 g_m}{R_1 g_m + s^2 \left(C_1 C_3 R_1 R_3 + C_1 C_L R_1 R_3 \right) + s \left(C_1 R_1 + C_3 R_1 R_3 g_m + C_3 R_3 + C_L R_1 R_3 g_m + C_L R_3 \right) + 1}$$

$$Q \colon \frac{C_1C_3R_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_LR_1R_3}} + \frac{1}{C_1C_3R_1R_3+C_1C_LR_1R_3}}{C_1R_1+C_3R_1R_3g_m+C_3R_3+C_LR_1R_3g_m+C_LR_3} \\ \text{wo: } \sqrt{\frac{R_1g_m+1}{C_1C_3R_1R_3+C_1C_LR_1R_3}} \\ \text{bandwidth: } \frac{\sqrt{\frac{R_1g_m+1}{C_1C_3R_1R_3+C_1C_LR_1R_3}}}{C_1C_3R_1R_3+C_1C_LR_1R_3}} (C_1R_1+C_3R_1R_3g_m+C_3R_3+C_LR_1R_3g_m+C_LR_3) \\ \text{bandwidth: } \frac{\sqrt{\frac{R_1g_m+1}{C_1C_3R_1R_3+C_1C_LR_1R_3}}}{C_1C_3R_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_LR_1R_3}}} + C_1C_LR_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_LR_1R_3}} \\ \text{K-LP: } \frac{R_1R_3g_m}{R_1g_m+1} \\ \text{K-HP: 0} \\ \text{K-BP: 0} \\ \text{Qz: None} \\ \text{Wz: None} \\ \end{aligned}$$

4.14 LP-14
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

 $Q: \frac{C_{1}C_{3}R_{1}R_{3}R_{L}\sqrt{\frac{R_{1}R_{3}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{L}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{L}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{L}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L} + C_{1}C_{L}R_{1}R_{3}R_{L}}} + \frac{R_{1}R_{L}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L} + C_{1}C_{L}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{1}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L} + C_{1}C_{L}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{1}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L} + C_{1}C_{L}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{1}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L} + C_{1}C_{1}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{1}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L} + C_{1}C_{1}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{1}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L} + C_{1}C_{1}R_{1}R_{3}R_{L}} + \frac{R_{1}R_{1}g_{m}}{C_{1}C_{3}R_{1}R_{3}R_{L$

 $\frac{\sqrt{C_1C_3R_1R_3R_L+C_1C_LR_1R_3R_L}}{C_1C_3R_1R_3R_L\sqrt{\frac{R_1R_3g_m}{C_1C_3R_1R_3R_L+C_1C_LR_1R_3R_L}}+\frac{R_1R_Lg_m}{C_1C_3R_1R_3R_L+C_1C_LR_1R_3R_L}+\frac{R_1R_1g_$

K-LP: $\frac{R_1R_3R_Lg_m}{R_1R_3g_m+R_1R_Lg_m+R_3+R_L}$ K-HP: 0

K-BP: 0

Qz: None Wz: None

4.15 LP-15 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{L_1 g_m}{C_3 + C_L + s^2 \left(C_1 C_3 L_1 + C_1 C_L L_1 \right) + s \left(C_3 L_1 g_m + C_L L_1 g_m \right)}$$

Parameters:

Q:
$$\frac{C_1\sqrt{\frac{1}{C_1L_1}}}{g_m}$$
 wo:
$$\sqrt{\frac{1}{C_1L_1}}$$
 bandwidth:
$$\frac{g_m}{C_1}$$
 K-LP:
$$\frac{L_1g_m}{C_3+C_L}$$
 K-HP: 0

K-BP: 0

Qz: None

Wz: None

4.16 LP-16 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{L_1 R_1 g_m}{C_3 R_1 + C_L R_1 + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_L L_1 R_1 \right) + s \left(C_3 L_1 R_1 g_m + C_3 L_1 + C_L L_1 R_1 g_m + C_L L_1 \right)}$$

Parameters:

Q:
$$\frac{C_1 R_1 \sqrt{\frac{1}{C_1 L_1}}}{R_1 g_m + 1}$$
 wo: $\sqrt{\frac{1}{C_1 L_1}}$

bandwidth: $\frac{R_1g_m+1}{C_1R_1}$ K-LP: $\frac{L_1g_m}{C_3+C_L}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

5 BS

5.1 BS-1
$$Z(s) = \left(R_1, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 g_m s^2 + R_1 R_3 g_m}{R_1 g_m + s^2 \left(C_L L_L R_1 g_m + C_L L_L \right) + s \left(C_L R_1 R_3 g_m + C_L R_3 \right) + 1}$$

Q:
$$\frac{L_L\sqrt{\frac{1}{C_LL_L}}}{R_3}$$
 wo:
$$\sqrt{\frac{1}{C_LL_L}}$$
 bandwidth:
$$\frac{R_3}{R_1g_m+1}$$
 K-HP:
$$\frac{R_1R_3g_m}{R_1g_m+1}$$
 K-BP: 0 Qz: None Wz:
$$\sqrt{\frac{1}{C_LL_L}}$$

5.2 BS-2
$$Z(s) = \left(R_1, \infty, R_3, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 R_L g_m s^2 + R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^2 \left(C_L L_L R_1 R_3 g_m + C_L L_L R_1 R_L g_m + C_L L_L R_3 + C_L L_L R_1 \right) + s \left(C_L R_1 R_3 R_L g_m + C_L R_3 R_L \right)}$$

Parameters:

$$Q: \frac{L_{L}R_{3}\sqrt{\frac{1}{C_{L}L_{L}}} + L_{L}R_{L}\sqrt{\frac{1}{C_{L}L_{L}}}}{R_{3}R_{L}}$$
 wo: $\sqrt{\frac{1}{C_{L}L_{L}}}$ bandwidth:
$$\frac{R_{3}R_{L}\sqrt{\frac{1}{C_{L}L_{L}}}}{L_{L}R_{3}\sqrt{\frac{1}{C_{L}L_{L}}} + L_{L}R_{L}\sqrt{\frac{1}{C_{L}L_{L}}}}$$
 K-LP:
$$\frac{R_{1}R_{3}R_{L}g_{m}}{R_{1}R_{3}g_{m} + R_{1}R_{L}g_{m} + R_{3} + R_{L}}$$
 K-HP:
$$\frac{R_{1}R_{3}R_{L}g_{m}}{R_{1}R_{3}g_{m} + R_{1}R_{L}g_{m} + R_{3} + R_{L}}$$
 K-BP: 0 Qz: None Wz: $\sqrt{\frac{1}{C_{L}L_{L}}}$

5.3 BS-3
$$Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_3L_3R_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^2\left(C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_Lg_m + C_3R_L\right) + 1}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_3\sqrt{\frac{1}{C_3L_3}}}{R_L} \\ \text{wo:} \ \sqrt{\frac{1}{C_3L_3}} \\ \text{bandwidth:} \ \frac{R_L}{L_3} \\ \text{K-LP:} \ \frac{R_1R_Lg_m}{R_1g_m+1} \\ \text{K-HP:} \ \frac{R_1R_Lg_m}{R_1g_m+1} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_3L_3}} \end{array}$$

5.4 BS-4
$$Z(s) = \left(R_1, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_3L_3R_1R_3R_Lg_ms^2 + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^2\left(C_3L_3R_1R_3g_m + C_3L_3R_1R_Lg_m + C_3L_3R_3 + C_3L_3R_L\right) + s\left(C_3R_1R_3R_Lg_m + C_3R_3R_L\right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{L_{3}R_{3}\sqrt{\frac{1}{C_{3}L_{3}}} + L_{3}R_{L}\sqrt{\frac{1}{C_{3}L_{3}}}}{R_{3}R_{L}} \\ & \text{wo:} \ \sqrt{\frac{1}{C_{3}L_{3}}} \\ & \text{bandwidth:} \ \frac{R_{3}R_{L}\sqrt{\frac{1}{C_{3}L_{3}}}}{L_{3}R_{3}\sqrt{\frac{1}{C_{3}L_{3}}} + L_{3}R_{L}\sqrt{\frac{1}{C_{3}L_{3}}}} \\ & \text{K-LP:} \ \frac{R_{1}R_{3}R_{L}g_{m}}{R_{1}R_{3}g_{m} + R_{1}R_{L}g_{m} + R_{3} + R_{L}} \\ & \text{K-HP:} \ \frac{R_{1}R_{3}g_{m} + R_{1}R_{L}g_{m} + R_{3} + R_{L}}{R_{1}R_{3}g_{m} + R_{1}R_{L}g_{m} + R_{3} + R_{L}} \\ & \text{K-BP:} \ 0 \\ & \text{Qz:} \ \text{None} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_{3}L_{3}}} \end{aligned}$$

5.5 BS-5
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_1 L_1 R_3 R_L g_m s^2 + R_3 R_L g_m}{R_3 g_m + R_L g_m + s^2 \left(C_1 L_1 R_3 g_m + C_1 L_1 R_L g_m \right) + s \left(C_1 R_3 + C_1 R_L \right)}$$

Parameters:

Q:
$$L_1g_m\sqrt{\frac{1}{C_1L_1}}$$

wo: $\sqrt{\frac{1}{C_1L_1}}$
bandwidth: $\frac{1}{L_1g_m}$
K-LP: $\frac{R_3R_L}{R_3+R_L}$
K-HP: $\frac{R_3R_L}{R_3+R_L}$
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_1L_1}}$

5.6 BS-6
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_1L_1R_1R_3R_Lg_ms^2 + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_1R_Lg_m + C_1L_1R_3 + C_1L_1R_L\right) + s\left(C_1R_1R_3 + C_1R_1R_L\right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{L_1 R_1 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 \sqrt{\frac{1}{C_1 L_1}}}{R_1} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1 L_1}} \\ & \text{bandwidth:} \ \frac{R_1 \sqrt{\frac{1}{C_1 L_1}}}{L_1 R_1 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 \sqrt{\frac{1}{C_1 L_1}}} \\ & \text{K--LP:} \ \frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L} \\ & \text{K--HP:} \ \frac{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L} \\ & \text{K--BP:} \ 0 \\ & \text{Qz:} \ \text{None} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_1 L_1}} \end{aligned}$$

6 GE

6.1 GE-1
$$Z(s) = \left(R_1, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 g_m s^2 + C_L R_1 R_3 R_L g_m s + R_1 R_3 g_m}{R_1 g_m + s^2 \left(C_L L_L R_1 g_m + C_L L_L \right) + s \left(C_L R_1 R_3 g_m + C_L R_1 R_L g_m + C_L R_3 + C_L R_L \right) + 1}$$

$$\begin{aligned} & \text{Q:} \ \frac{L_L \sqrt{\frac{1}{C_L L_L}}}{R_3 + R_L} \\ & \text{wo:} \ \sqrt{\frac{1}{C_L L_L}} \\ & \text{bandwidth:} \ \frac{R_3 + R_L}{L_L} \\ & \text{K-LP:} \ \frac{R_1 R_3 g_m}{R_1 g_m + 1} \\ & \text{K-HP:} \ \frac{R_1 R_3 g_m}{R_1 g_m + 1} \\ & \text{K-BP:} \ \frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L} \\ & \text{Qz:} \ \frac{L_L \sqrt{\frac{1}{C_L L_L}}}{R_L} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_L L_L}} \end{aligned}$$

6.2 GE-2
$$Z(s) = \left(R_1, \infty, R_3, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 R_L g_m s^2 + L_L R_1 R_3 g_m s + R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^2 \left(C_L L_L R_1 R_3 g_m + C_L L_L R_1 R_L g_m + C_L L_L R_3 + C_L L_L R_1 \right) + s \left(L_L R_1 g_m + L_L \right)}$$

Parameters:

Q:
$$C_L R_3 \sqrt{\frac{1}{C_L L_L}} + C_L R_L \sqrt{\frac{1}{C_L L_L}}$$

wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{\sqrt{\frac{1}{C_L L_L}}}{C_L R_3 \sqrt{\frac{1}{C_L L_L}} + C_L R_L \sqrt{\frac{1}{C_L L_L}}}$
K-LP: $\frac{R_1 R_3 R_L g_m}{R_1 R_3 R_L g_m + R_3 + R_L}$
K-HP: $\frac{R_1 R_3 g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L}$
K-BP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$
Qz: $C_L R_L \sqrt{\frac{1}{C_L L_L}}$
Wz: $\sqrt{\frac{1}{C_L L_L}}$

6.3 GE-3
$$Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$$

$H(s) = \frac{C_3L_3R_1R_Lg_ms^2 + C_3R_1R_3R_Lg_ms + R_1R_Lg_m}{R_1g_m + s^2\left(C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_3g_m + C_3R_1R_Lg_m + C_3R_3 + C_3R_L\right) + 1}$

$$\begin{array}{l} \text{Q:} \ \frac{L_{3}\sqrt{\frac{1}{C_{3}L_{3}}}}{R_{3}+R_{L}} \\ \text{wo:} \ \sqrt{\frac{1}{C_{3}L_{3}}} \\ \text{bandwidth:} \ \frac{R_{3}+R_{L}}{L_{3}} \\ \text{K-LP:} \ \frac{R_{1}R_{L}g_{m}}{R_{1}g_{m}+1} \\ \text{K-HP:} \ \frac{R_{1}R_{L}g_{m}}{R_{1}g_{m}+1} \\ \text{K-BP:} \ \frac{R_{1}R_{3}g_{m}+R_{1}R_{L}g_{m}}{R_{1}R_{3}g_{m}+R_{1}R_{L}g_{m}+R_{3}+R_{L}} \\ \text{Qz:} \ \frac{L_{3}\sqrt{\frac{1}{C_{3}L_{3}}}}{R_{3}} \\ \text{Wz:} \ \sqrt{\frac{1}{C_{3}L_{3}}} \end{array}$$

6.4 GE-4
$$Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_3L_3R_1R_3R_Lg_ms^2 + L_3R_1R_Lg_ms + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^2\left(C_3L_3R_1R_3g_m + C_3L_3R_1R_Lg_m + C_3L_3R_3 + C_3L_3R_L\right) + s\left(L_3R_1g_m + L_3\right)}$$

$$\begin{array}{l} \text{Q: } C_{3}R_{3}\sqrt{\frac{1}{C_{3}L_{3}}} + C_{3}R_{L}\sqrt{\frac{1}{C_{3}L_{3}}}\\ \text{wo: } \sqrt{\frac{1}{C_{3}L_{3}}}\\ \text{bandwidth: } \frac{\sqrt{\frac{1}{C_{3}L_{3}}}}{C_{3}R_{3}\sqrt{\frac{1}{C_{3}L_{3}}} + C_{3}R_{L}\sqrt{\frac{1}{C_{3}L_{3}}}}\\ \text{K-LP: } \frac{R_{1}R_{3}R_{L}g_{m}}{R_{1}R_{3}g_{m} + R_{1}R_{L}g_{m} + R_{3} + R_{L}}\\ \text{K-HP: } \frac{R_{1}R_{3}g_{m} + R_{1}R_{L}g_{m} + R_{3} + R_{L}}{R_{1}R_{3}g_{m} + R_{1}R_{L}g_{m} + R_{3} + R_{L}}\\ \text{K-BP: } \frac{R_{1}R_{2}g_{m}}{R_{1}g_{m} + 1}\\ \text{Qz: } C_{3}R_{3}\sqrt{\frac{1}{C_{3}L_{3}}}\\ \text{Wz: } \sqrt{\frac{1}{C_{3}L_{3}}}\\ \end{array}$$

6.5 GE-5
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + C_1R_1R_3R_Lg_ms + R_3R_Lg_m}{R_3g_m + R_Lg_m + s^2\left(C_1L_1R_3g_m + C_1L_1R_Lg_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_Lg_m + C_1R_1R_Lg_m + C_1R_1R_Lg_m\right)}$$

Parameters:

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

wo: $\sqrt{\frac{1}{C_{1}L_{1}}}$
bandwidth: $\frac{R_{1}g_{m}+1}{L_{1}g_{m}}$
K-LP: $\frac{R_{3}R_{L}}{R_{3}+R_{L}}$
K-HP: $\frac{R_{3}R_{L}}{R_{3}+R_{L}}$
K-BP: $\frac{R_{1}R_{3}g_{m}+R_{1}R_{L}g_{m}}{R_{1}R_{3}g_{m}+R_{1}R_{L}g_{m}+R_{3}+R_{L}}$
Qz: $\frac{L_{1}\sqrt{\frac{1}{C_{1}L_{1}}}}{R_{1}}$
Wz: $\sqrt{\frac{1}{C_{1}L_{1}}}$

6.6 GE-6
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_1L_1R_1R_3R_Lg_ms^2 + L_1R_3R_Lg_ms + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_1R_Lg_m + C_1L_1R_3 + C_1L_1R_L\right) + s\left(L_1R_3g_m + L_1R_Lg_m\right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_1 R_1 g_m \sqrt{\frac{1}{C_1 L_1}}}{g_m} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1 L_1}} \end{aligned} \\ & \text{bandwidth:} \ \frac{g_m \sqrt{\frac{1}{C_1 L_1}}}{C_1 R_1 g_m \sqrt{\frac{1}{C_1 L_1}} + C_1 \sqrt{\frac{1}{C_1 L_1}}} \\ & \text{K-LP:} \ \frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L} \\ & \text{K-HP:} \ \frac{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L} \\ & \text{K-BP:} \ \frac{R_3 R_L}{R_3 + R_L} \\ & \text{Qz:} \ C_1 R_1 \sqrt{\frac{1}{C_1 L_1}} \end{aligned} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_1 L_1}} \end{aligned}$$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L R_1 R_3 R_L g_m s + R_1 R_3 g_m}{R_1 g_m + s^2 \left(C_3 C_L R_1 R_3 R_L g_m + C_3 C_L R_3 R_L \right) + s \left(C_3 R_1 R_3 g_m + C_3 R_3 + C_L R_1 R_3 g_m + C_L R_1 R_2 g_m + C_L R_3 + C_L R_1 \right) + 1}$$

Parameters:

Q: $\frac{C_3C_LR_3R_L\sqrt{\frac{1}{C_3C_LR_3R_L}}}{C_3R_3+C_LR_3+C_LR_L}$ wo: $\sqrt{\frac{1}{C_3C_LR_3R_L}}$ bandwidth: $\frac{C_3R_3+C_LR_3+C_LR_L}{C_3C_LR_3R_L}$ K-LP: $\frac{R_1R_3g_m}{R_1g_m+1}$ K-HP: 0 K-BP: $\frac{C_LR_1R_3R_Lg_m}{C_3R_1R_3g_m+C_3R_3+C_LR_1R_3g_m+C_LR_1R_Lg_m+C_LR_3+C_LR_L}$ Qz: 0 Wz: None

8.2 INVALID-NUMER-2 $Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3 R_1 R_3 R_L g_m s + R_1 R_L g_m}{R_1 g_m + s^2 \left(C_3 C_L R_1 R_3 R_L g_m + C_3 C_L R_3 R_L \right) + s \left(C_3 R_1 R_3 g_m + C_3 R_1 R_L g_m + C_3 R_3 + C_3 R_L + C_L R_1 R_L g_m + C_L R_L \right) + 1}$$

Parameters:

Q: $\frac{C_3C_LR_3R_L\sqrt{\frac{1}{C_3C_LR_3R_L}}}{C_3R_3+C_3R_L+C_LR_L}$ wo: $\sqrt{\frac{1}{C_3C_LR_3R_L}}$ bandwidth: $\frac{C_3R_3+C_3R_L+C_LR_L}{C_3C_LR_3R_L}$ K-LP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ K-HP: 0 K-BP: $\frac{C_3R_1R_3g_m+C_3R_1R_Lg_m}{C_3R_1R_3g_m+C_3R_1R_Lg_m+C_3R_3+C_3R_L+C_LR_1R_Lg_m+C_LR_L}$ Qz: 0 Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 R_3 R_L g_m s^2 + L_1 R_3 g_m s}{s^2 \left(C_L L_1 R_3 g_m + C_L L_1 R_L g_m\right) + s \left(C_L R_3 + C_L R_L + L_1 g_m\right) + 1}$$

$$\begin{array}{l} \text{Q:} \ \frac{C_L L_1 R_3 g_m \sqrt{\frac{1}{C_L L_1 R_3 g_m} + C_L L_1 R_L g_m}}{C_L R_3 g_m + C_L L_1 R_L g_m} + C_L L_1 R_L g_m \sqrt{\frac{1}{C_L L_1 R_3 g_m} + C_L L_1 R_L g_m}} \\ \text{wo:} \ \sqrt{\frac{1}{C_L L_1 R_3 g_m + C_L L_1 R_L g_m}}} \\ \text{bandwidth:} \ \frac{(C_L R_3 + C_L R_L + L_1 g_m) \sqrt{\frac{1}{C_L L_1 R_3 g_m} + C_L L_1 R_L g_m}}}{C_L L_1 R_3 g_m \sqrt{\frac{1}{C_L L_1 R_3 g_m} + C_L L_1 R_L g_m}} + C_L L_1 R_L g_m \sqrt{\frac{1}{C_L L_1 R_3 g_m} + C_L L_1 R_L g_m}}} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ \frac{R_3 R_L}{R_3 + R_L}}{R_3 + R_L} \\ \text{K-BP:} \ \frac{L_1 R_3 g_m}{C_L R_3 + C_L R_L + L_1 g_m}} \\ \text{Qz:} \ C_L R_L \sqrt{\frac{1}{C_L L_1 R_3 g_m + C_L L_1 R_L g_m}}} \\ \text{Wz:} \ \text{None} \end{array}$$

8.4 INVALID-NUMER-4 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 R_L g_m s + L_1 g_m}{C_3 C_L L_1 R_L g_m s^2 + C_3 + C_L + s \left(C_3 C_L R_L + C_3 L_1 g_m + C_L L_1 g_m \right)}$$

Parameters:

$$\begin{aligned} &\text{Q:} \ \frac{C_3C_LL_1R_Lg_m\sqrt{\frac{1}{C_LL_1R_Lg_m}+\frac{1}{C_3L_1R_Lg_m}}}{C_3C_LR_L+C_3L_1g_m+C_LL_1g_m} \\ &\text{wo:} \ \sqrt{\frac{C_3+C_L}{C_3C_LL_1R_Lg_m}} \\ &\text{bandwidth:} \ \frac{\sqrt{\frac{C_3+C_L}{C_3C_LL_1R_Lg_m}}(C_3C_LR_L+C_3L_1g_m+C_LL_1g_m)}{C_3C_LL_1R_Lg_m\sqrt{\frac{1}{C_LL_1R_Lg_m}+\frac{1}{C_3L_1R_Lg_m}}} \\ &\text{K-LP:} \ \frac{L_1g_m}{C_3+C_L} \\ &\text{K-HP:} \ 0 \\ &\text{K-BP:} \ \frac{C_LL_1R_Lg_m}{C_3C_LR_L+C_3L_1g_m+C_LL_1g_m} \\ &\text{Qz:} \ 0 \\ &\text{Wz:} \ \text{None} \end{aligned}$$

8.5 INVALID-NUMER-5 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_3 L_1 R_3 R_L g_m s^2 + L_1 R_L g_m s}{s^2 \left(C_3 L_1 R_3 g_m + C_3 L_1 R_L g_m \right) + s \left(C_3 R_3 + C_3 R_L + L_1 g_m \right) + 1}$$

Parameters:

8.6 INVALID-NUMER-6 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3 L_1 R_3 g_m s + L_1 g_m}{C_3 C_L L_1 R_3 g_m s^2 + C_3 + C_L + s \left(C_3 C_L R_3 + C_3 L_1 g_m + C_L L_1 g_m \right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_3C_LL_1R_3g_m\sqrt{\frac{1}{C_LL_1R_3g_m}+\frac{1}{C_3L_1R_3g_m}}}{C_3C_LR_3+C_3L_1g_m+C_LL_1g_m} \\ & \text{wo:} \ \sqrt{\frac{C_3+C_L}{C_3C_LL_1R_3g_m}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{C_3+C_L}{C_3C_LL_1R_3g_m}}(C_3C_LR_3+C_3L_1g_m+C_LL_1g_m)}{C_3C_LL_1R_3g_m\sqrt{\frac{1}{C_LL_1R_3g_m}+\frac{1}{C_3L_1R_3g_m}}} \\ & \text{K-LP:} \ \frac{L_1g_m}{C_3+C_L} \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ \frac{C_3L_1R_3g_m}{C_3C_LR_3+C_3L_1g_m+C_LL_1g_m} \\ & \text{Qz:} \ 0 \\ & \text{Wz:} \ \text{None} \end{aligned}$$

8.7 INVALID-NUMER-7 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L R_3 R_L g_m s + R_3 g_m}{g_m + s^2 \left(C_1 C_L R_3 + C_1 C_L R_L \right) + s \left(C_1 + C_L R_3 g_m + C_L R_L g_m \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1 C_L R_3 \sqrt{\frac{g_m}{C_1 C_L R_3 + C_1 C_L R_L}} + C_1 C_L R_L \sqrt{\frac{g_m}{C_1 C_L R_3 + C_1 C_L R_L}}}{C_1 + C_L R_3 g_m + C_L R_L g_m} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_1 C_L R_3 + C_1 C_L R_L}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{g_m}{C_1 C_L R_3 + C_1 C_L R_L}} (C_1 + C_L R_3 g_m + C_L R_L g_m)}{C_1 C_L R_3 \sqrt{\frac{g_m}{C_1 C_L R_3 + C_1 C_L R_L}} + C_1 C_L R_L \sqrt{\frac{g_m}{C_1 C_L R_3 + C_1 C_L R_L}}} \\ & \text{K-LP:} \ R_3 \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ \frac{C_L R_3 R_L g_m}{C_1 + C_L R_3 g_m + C_L R_L g_m}}{C_1 + C_L R_3 g_m + C_L R_L g_m} \\ & \text{Qz:} \ 0 \\ & \text{Wz:} \ \text{None} \end{aligned}$$

8.8 INVALID-NUMER-8 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_3 R_3 R_L g_m s + R_L g_m}{g_m + s^2 \left(C_1 C_3 R_3 + C_1 C_3 R_L \right) + s \left(C_1 + C_3 R_3 g_m + C_3 R_L g_m \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1C_3R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_L}} + C_1C_3R_L\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_L}}}{C_1+C_3R_3g_m+C_3R_Lg_m} \\ \text{wo:} \ \sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_L}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_L}} (C_1+C_3R_3g_m+C_3R_Lg_m)}{C_1C_3R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_L}} + C_1C_3R_L\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_L}}} \\ \text{K-LP:} \ R_L \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_3R_3R_Lg_m}{C_1+C_3R_3g_m+C_3R_Lg_m} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.9 INVALID-NUMER-9 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L R_1 R_3 R_L g_m s + R_1 R_3 g_m}{R_1 g_m + s^2 \left(C_1 C_L R_1 R_3 + C_1 C_L R_1 R_L \right) + s \left(C_1 R_1 + C_L R_1 R_3 g_m + C_L R_1 R_L g_m + C_L R_3 + C_L R_L \right) + 1}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_3 R_1 R_3 R_L g_m s + R_1 R_L g_m}{R_1 g_m + s^2 \left(C_1 C_3 R_1 R_3 + C_1 C_3 R_1 R_L \right) + s \left(C_1 R_1 + C_3 R_1 R_3 g_m + C_3 R_1 R_L g_m + C_3 R_3 + C_3 R_L \right) + 1}$$

Parameters:

 $Q: \frac{c_1c_3R_1R_3\sqrt{\frac{R_1gm}{C_1S_RR_1S_2+C_1S_RR_L} + c_1c_3R_1S_2+c_1c_3R_1R_L} + c_1c_3R_1R_L\sqrt{\frac{c_1c_3R_1S_2+C_1S_RR_L}{c_1S_RR_3+C_1S_RR_R} + c_1c_3R_1S_2+c_1c_3R_1R_L}}{c_1R_1+c_3R_1R_2gm+c_3R_3+c_3R_L} \\ wo: \sqrt{\frac{R_1gm+1}{C_1C_3R_1R_3+C_1C_3R_1R_L}} \\ bandwidth: \frac{\sqrt{\frac{R_1gm+1}{C_1C_3R_1R_3+C_1C_3R_1R_L}} + c_1c_3R_1S_2+c_1c_3R_1R_L} + c_1c_3R_1R_2gm+c_3R_3+c_3R_1R_L}{c_1C_3R_1R_3+c_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_L} \\ c_1C_2R_1R_3\sqrt{\frac{R_1gm}{C_1C_3R_1R_3+C_1C_3R_1R_L} + c_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_2+c_1c_3R_1R_L} \\ c_1C_2R_1R_3\sqrt{\frac{R_1gm}{C_1C_3R_1R_3+c_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_2+c_1c_3R_1R_2} \\ c_1C_2R_1R_3Qm\sqrt{\frac{R_1gm}{C_1C_3R_1R_3+C_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_2+c_1c_3R_1R_2} \\ c_1C_2R_1R_3R_2gm\sqrt{\frac{R_1gm}{C_1C_3R_1R_3+c_1c_3R_1R_L} + c_1c_3R_1R_2+c_1c_3R_1R_2+c_1c_3R_1R_2} + c_1c_3R_1R_2+c_1$

8.11 INVALID-NUMER-11 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 R_1 R_3 g_m s + R_3 g_m}{g_m + s^2 \left(C_1 C_L R_1 R_3 g_m + C_1 C_L R_3 \right) + s \left(C_1 R_1 g_m + C_1 + C_L R_3 g_m \right)}$$

Parameters:

8.12 INVALID-NUMER-12 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_1 R_1 R_3 R_L g_m s + R_3 R_L g_m}{R_3 g_m + R_L g_m + s^2 \left(C_1 C_L R_1 R_3 R_L g_m + C_1 C_L R_3 R_L \right) + s \left(C_1 R_1 R_3 g_m + C_1 R_1 R_L g_m + C_1 R_3 + C_1 R_L + C_L R_3 R_L g_m \right)}{R_3 g_m + R_L g_m + s^2 \left(C_1 C_L R_1 R_3 R_L g_m + C_1 C_L R_3 R_L \right) + s \left(C_1 R_1 R_3 g_m + C_1 R_1 R_2 g_m + C_1 R_3 + C_1 R_1 R_2 g_m + C_1 R_3 R_L g_m \right)}$$

Parameters:

Wz: None

 $Q: \frac{C_1C_LR_1R_3R_Lg_m\sqrt{\frac{R_3g_m}{C_1C_LR_1R_3R_Lg_m+C_1C_LR_3R_L}} + C_1C_LR_1R_3R_Lg_m+C_1C_LR_3R_L}{C_1R_1R_3g_m+C_1R_LR_3g_m+C_1C_LR_3R_L} + C_1C_LR_1R_3R_Lg_m+C_1C_LR_3R_L} + C_1C_LR_1R_3R_Lg_m+C_1C_LR_3R_L} \\ wo: \sqrt{\frac{R_3g_m+R_Lg_m}{C_1C_LR_1R_3R_Lg_m+C_1C_LR_3R_L}}} \\ bandwidth: \frac{R_3g_m}{C_1C_LR_1R_3R_Lg_m+C_1C_LR_3R_L} \\ \sqrt{\frac{R_3g_m+R_Lg_m}{C_1C_LR_1R_3R_Lg_m+C_1C_LR_3R_L}} \\ (C_1R_1R_3g_n+C_1R_1R_2g_m+C_1R_2g_m+C_1R_$

8.13 INVALID-NUMER-13 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1 R_1 R_L g_m s + R_L g_m}{g_m + s^2 \left(C_1 C_3 R_1 R_L g_m + C_1 C_3 R_L \right) + s \left(C_1 R_1 g_m + C_1 + C_3 R_L g_m \right)}$$

Parameters:

$$Q \colon \frac{C_1C_3R_1R_Lg_m\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}}}{C_1R_1g_m+C_1+C_3R_Lg_m} + C_1C_3R_L\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}}$$

$$\text{wo: } \sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}}$$

$$\text{bandwidth: } \frac{\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}}}{C_1C_3R_1R_Lg_m\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}}} + C_1C_3R_L\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}}}$$

$$\text{K-LP: } R_L$$

$$\text{K-HP: } 0$$

$$\text{K-BP: } \frac{C_1R_1R_Lg_m}{C_1R_1g_m+C_1+C_3R_Lg_m}}$$

$$\text{Qz: } 0$$

$$\text{Wz: None}$$

8.14 INVALID-NUMER-14 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

$$Q: \frac{C_1C_3R_1R_Lg_m\sqrt{C_1C_3R_1R_Lg_m+C_1C_LR_L} + C_1C_3R_L\sqrt{C_1C_3R_1R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m\sqrt{C_1C_3R_1R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m\sqrt{C_1C_3R_1R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m+C_1C_LR_L} }{C_1R_1g_m+C_1+C_3R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$wo: \sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L+C_1C_LR_1R_Lg_m+C_1C_LR_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_2R_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_LR_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_LR_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_2R_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_2R_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_3R_L}} + C_1C_LR_1R_Lg_m+C_1C_LR_L}$$

$$\sqrt{\frac{g_m}{C_1C_3R_1R_Lg_m+C_1C_2R_L}} + C_1C_LR_1$$

8.15 INVALID-NUMER-15 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1 R_1 R_3 R_L g_m s + R_3 R_L g_m}{R_3 g_m + R_L g_m + s^2 \left(C_1 C_3 R_1 R_3 R_L g_m + C_1 C_3 R_3 R_L \right) + s \left(C_1 R_1 R_3 g_m + C_1 R_1 R_L g_m + C_1 R_3 + C_1 R_L + C_3 R_3 R_L g_m \right)}{R_3 g_m + R_L g_m + s^2 \left(C_1 C_3 R_1 R_3 R_L g_m + C_1 C_3 R_3 R_L g_m + C_1 R_1 R_L g_m + C_1 R_3 R_L g_m + C_1 R_1 R_L g_m + C_1 R_3 R_L g_m \right)}$$

$$Q: \frac{C_1C_3R_1R_3R_Lg_m\sqrt{\frac{R_3g_m}{C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} + \frac{R_Lg_m}{C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} + C_1C_3R_3R_L}{C_1R_1R_3g_m+C_1R_1g_m+C_1R_3+C_1R_L+C_3R_3R_L} + C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} \\ \text{wo: } \sqrt{\frac{R_3g_m+R_Lg_m}{C_1R_3R_3R_Lg_m+C_1C_3R_3R_L}} \\ \text{bandwidth: } \frac{\sqrt{\frac{R_3g_m+R_Lg_m}{C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L}} (C_1R_1R_3g_m+C_1R_1R_Lg_m+C_1R_3+C_1R_L+C_3R_3R_Lg_m)}{C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} \\ \text{bandwidth: } \frac{R_3g_m}{C_1C_3R_1R_3R_Lg_m\sqrt{\frac{R_3g_m}{C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} + C_1C_3R_3R_L} + C_1C_3R_3R_Lg_m}{C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} + C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} \\ \text{K-LP: } \frac{R_1g_m}{R_3g_m} \\ \text{K-HP: } \frac{R_2g_m}{R_3g_m} \\ \text{C_1} R_1R_3g_m\sqrt{\frac{R_3g_m}{C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} + C_1R_1g_m\sqrt{\frac{R_3g_m}{C_1C_3R_1R_3R_Lg_m+C_1C_3R_3R_L} + C_1R_$$

8.16 INVALID-NUMER-16
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1 R_1 R_3 g_m s + R_3 g_m}{g_m + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + C_1 C_L R_1 R_3 g_m + C_1 C_L R_3 \right) + s \left(C_1 R_1 g_m + C_1 + C_3 R_3 g_m + C_L R_3 g_m \right)}$$

 $Q: \frac{C_1C_3R_1R_3g_m\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_3R_3}+C_1C_LR_1R_3g_m+C_1C_LR_3}{C_1R_1g_3g_m+C_1C_2R_3}+C_1C_LR_1g_3g_m\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_LR_1}}+C_1C_LR_1g_3g_m\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_LR_1}}+C_1C_LR_3\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_LR_3}}+C_1C_LR_1g_3g_m\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_LR_1}}+C_1C_LR_3\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_LR_1}}+C_1C_LR_3\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_LR_1}}+C_1C_LR_3g_m\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_LR_1}}+C_1C_LR_3\sqrt{\overline{C_1C_3R_1R_3g_m}+C_1C_LR_1}}+C_1C_LR_1g_3g_m+C_1C_LR_3}$ $\sqrt{C_1C_3R_1R_3g_m}+C_1C_LR_1g_3g_m+C_1C_LR_3}+C_1C_LR_1g_3g_m+C_1C_LR_3}+C_1C_LR_1g_3g_m+C_1C_LR_3g_m+C_1C_LR_3}+C_1C_LR_1g_3g_m+C_1C_LR$

8.17 INVALID-NUMER-17 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

 $Q: \frac{R_1gm}{C_1C_3R_1R_3R_Lgm}\sqrt{c_1c_3R_1R_3R_Lgm}+c_1c_LR_3R_L+c_1c_LR_1R_3R_Lgm}+c_1c_LR_3R_L+c_1c_LR_1R_3R_Lgm}+c_1c_LR_1R_3R_Lgm}{C_1R_1R_3R_Lgm}+c_1c_LR_1R_1R_1gm}+c_1c_LR_1R_1$

9 INVALID-WZ

9.1 INVALID-WZ-1 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_1R_3R_Lg_ms^2 + L_1g_m + s\left(C_3L_1R_3g_m + C_LL_1R_Lg_m\right)}{C_3 + C_L + s^2\left(C_3C_LL_1R_3g_m + C_3C_LL_1R_Lg_m\right) + s\left(C_3C_LR_3 + C_3C_LR_1 + C_3L_1g_m + C_LL_1g_m\right)}$$

Parameters:

Wz: None

 $Q: \frac{C_3C_LL_R_3g_m\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_2g_m} + c_3C_LL_R_Lg_m\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_Lg_m}}{C_3C_LR_3g_m+C_3C_LL_R_2g_m} + c_3C_LL_R_Lg_m\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_Lg_m} + c_3C_LL_R_Lg_m\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_Lg_m}}$ $we: \sqrt{\frac{C_3+C_L}{C_3C_LL_R_3g_m}} \frac{C_3C_LL_R_3g_m\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_Lg_m}}{C_3C_LL_R_3g_m+c_3c_LL_R_Lg_m}} (C_3C_LR_3+C_3C_LR_L+C_3L_1g_m+C_4C_Lg_m)$ $C_3C_LL_R_3g_m\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_Lg_m} + c_3c_LL_R_Lg_m+c_3c_LL_R_Lg_m+c_3c_LL_R_Lg_m} + c_3c_LL_R_Lg_m\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_Lg_m} + c_3c_LL_R_Lg_m\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_Lg_m}}$ $K-LP: \frac{L_1g_m}{C_3+C_L}$ $K-HP: \frac{R_3R_L}{R_3+R_L}$ $C_3C_LR_3\sqrt{c_3c_LL_R_3g_m+c_3c_LL_R_L$

9.2 INVALID-WZ-2 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 C_L R_1 R_3 R_L g_m s^2 + R_3 g_m + s \left(C_1 R_1 R_3 g_m + C_L R_3 R_L g_m\right)}{g_m + s^2 \left(C_1 C_L R_1 R_3 g_m + C_1 C_L R_1 R_L g_m + C_1 C_L R_3 + C_1 C_L R_L\right) + s \left(C_1 R_1 g_m + C_1 + C_L R_3 g_m + C_L R_L g_m\right)}$$

Parameters:

$$Q: \frac{C_1C_LR_1R_3g_m\sqrt{C_1C_LR_1R_3g_m+C_1C_LR_1R_Lg_m+C_1C_LR_3+C_1C_LR_L}}{C_1R_1R_2g_m+C_1C_LR_3g_m+C_1C_LR_3g_m+C_1C_LR_3g_m+C_1C_LR_3g_m+C_1C_LR_3g_m+C_1C_LR_3g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_2g_m}}{C_1R_1g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_LR_3g_m+C_1C_LR_1g_m+C_1C_$$

9.3 INVALID-WZ-3 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1C_3R_1R_3R_Lg_ms^2 + R_Lg_m + s\left(C_1R_1R_Lg_m + C_3R_3R_Lg_m\right)}{g_m + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_1R_Lg_m + C_1C_3R_3 + C_1C_3R_L\right) + s\left(C_1R_1g_m + C_1 + C_3R_3g_m + C_3R_Lg_m\right)}$$

Parameters:

$$Q: \frac{C_1C_3R_1R_3g_m\sqrt{C_1C_3R_1R_3g_m+C_1C_3R_1R_Lg_m+C_1C_3R_3}+C_1C_3R_L\sqrt{C_1C_3R_1R_3g_m+C_1C_3R_1R_Lg_m+C_1C_3R_3}+C_1C_3R_L\sqrt{C_1C_3R_1R_3g_m+C_1C_3R_1R_Lg_m+C_1C_3R_3}+C_1C_3R_L\sqrt{C_1C_3R_1R_3g_m+C_1C_3R_1R_Lg_m+C_1C_3R_3}+C_1C_3R_L\sqrt{C_1C_3R_1R_3g_m+C_1C_3R_1R_Lg_m+C_1C_3R_3}+C_1C_3R_L\sqrt{C_1C_3R_1R_3g_m+C_1C_3R_1R_Lg_m+C_1C_3R_3}+C_1C_3R_1R_Lg_m+C_1C_3R_1R_L$$

10 INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (R_1, \infty, R_3, \infty, \infty, R_L)$

$$H(s) = \frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(R_1, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_1 R_3 g_m}{R_1 g_m + s \left(C_L R_1 R_3 g_m + C_L R_3 \right) + 1}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(R_1, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s \left(C_L R_1 R_3 R_L g_m + C_L R_3 R_L \right)}$$

10.4 INVALID-ORDER-4
$$Z(s) = \left(R_1, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L R_1 R_3 R_L g_m s + R_1 R_3 g_m}{R_1 g_m + s \left(C_L R_1 R_3 g_m + C_L R_1 R_L g_m + C_L R_3 + C_L R_L \right) + 1}$$

10.5 INVALID-ORDER-5
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{R_1 R_L g_m}{R_1 g_m + s \left(C_3 R_1 R_L g_m + C_3 R_L \right) + 1}$$

10.6 INVALID-ORDER-6
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_1 g_m}{s (C_3 R_1 g_m + C_3 + C_L R_1 g_m + C_L)}$$

10.7 INVALID-ORDER-7
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{R_1 R_L g_m}{R_1 g_m + s \left(C_3 R_1 R_L g_m + C_3 R_L + C_L R_1 R_L g_m + C_L R_L \right) + 1}$$

10.8 INVALID-ORDER-8
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L R_1 R_L g_m s + R_1 g_m}{s^2 \left(C_3 C_L R_1 R_L g_m + C_3 C_L R_L \right) + s \left(C_3 R_1 g_m + C_3 + C_L R_1 g_m + C_L \right)}$$

10.9 INVALID-ORDER-9
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 g_m s^2 + R_1 g_m}{s^3 \left(C_3 C_L L_L R_1 g_m + C_3 C_L L_L \right) + s \left(C_3 R_1 g_m + C_3 + C_L R_1 g_m + C_L \right)}$$

10.10 INVALID-ORDER-10
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L R_1 g_m s}{R_1 g_m + s^2 \left(C_3 L_L R_1 g_m + C_3 L_L + C_L L_L R_1 g_m + C_L L_L \right) + 1}$$

10.11 INVALID-ORDER-11
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 g_m s^2 + C_L R_1 R_L g_m s + R_1 g_m}{s^3 \left(C_3 C_L L_L R_1 g_m + C_3 C_L L_L \right) + s^2 \left(C_3 C_L R_1 R_L g_m + C_3 C_L R_L \right) + s \left(C_3 R_1 g_m + C_3 + C_L R_1 g_m + C_L \right)}$$

10.12 INVALID-ORDER-12
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_L g_m s^2 + L_L R_1 g_m s + R_1 R_L g_m}{R_1 g_m + s^3 \left(C_3 C_L L_L R_1 R_L g_m + C_3 C_L L_L R_L \right) + s^2 \left(C_3 L_L R_1 g_m + C_3 L_L + C_L L_L R_1 g_m + C_L L_L \right) + s \left(C_3 R_1 R_L g_m + C_3 R_L \right) + 1}$$

10.13 INVALID-ORDER-13
$$Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right)$$

$$H(s) = \frac{{{C_L}{L_L}{R_1}{R_L}{g_m}{s^2} + {R_1}{R_L}{g_m}}}{{{R_1}{g_m} + {s^3}\left({{C_3}{C_L}{L_L}{R_1}{R_L}{g_m} + {C_3}{C_L}{L_L}{R_L}} \right) + {s^2}\left({{C_L}{L_L}{R_1}{g_m} + {C_L}{L_L}} \right) + s\left({{C_3}{R_1}{R_L}{g_m} + {C_3}{R_L} + {C_L}{R_1}{R_L}{g_m} + {C_L}{R_L}} \right) + 1}}$$

10.14 INVALID-ORDER-14
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s \left(C_3 R_1 R_3 R_L g_m + C_3 R_3 R_L \right)}$$

10.15 INVALID-ORDER-15
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_1 R_3 g_m}{R_1 g_m + s \left(C_3 R_1 R_3 g_m + C_3 R_3 + C_L R_1 R_3 g_m + C_L R_3 \right) + 1}$$

10.16 INVALID-ORDER-16
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$$

$$H(s) = \frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s \left(C_3 R_1 R_3 R_L g_m + C_3 R_3 R_L + C_L R_1 R_3 R_L g_m + C_L R_3 R_L \right)}$$

10.17 INVALID-ORDER-17
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 g_m s^2 + R_1 R_3 g_m}{R_1 g_m + s^3 \left(C_3 C_L L_L R_1 R_3 g_m + C_3 C_L L_L R_3 \right) + s^2 \left(C_L L_L R_1 g_m + C_L L_L \right) + s \left(C_3 R_1 R_3 g_m + C_3 R_3 + C_L R_1 R_3 g_m + C_L R_3 \right) + 1}$$

10.18 INVALID-ORDER-18
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 g_m s^2 + C_L R_1 R_3 R_L g_m s + R_1 R_3 g_m}{R_1 g_m + s^3 \left(C_3 C_L L_L R_1 R_3 g_m + C_3 C_L L_L R_3\right) + s^2 \left(C_3 C_L R_1 R_3 R_L g_m + C_3 C_L R_3 R_L + C_L L_L R_1 g_m + C_L L_L\right) + s \left(C_3 R_1 R_3 g_m + C_3 R_3 + C_L R_1 R_3 g_m + C_L R_1 R_2 g_m + C_L R_3 + C_L R_1 R_3 g_m + C_L R_1 R_3 g_m + C_L R_1 R_2 g_m + C_L R_1 R_3 g_m + C_L R_$$

10.19 INVALID-ORDER-19
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 R_L g_m s^2 + L_L R_1 R_3 g_m s + R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^3 \left(C_3 C_L L_L R_1 R_3 R_L g_m + C_3 C_L L_L R_3 R_L \right) + s^2 \left(C_3 L_L R_1 R_3 g_m + C_3 L_L R_3 + C_L L_L R_1 R_2 g_m + C_L L_L R_3 + C_L L_L R_3 + C_L L_L R_3 + C_L L_L R_3 R_L g_m + C_3 R_3 R_L + L_L R_1 g_m + L_L \right)}$$

10.20 INVALID-ORDER-20
$$Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

10.21 INVALID-ORDER-21 $Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_3 R_1 R_3 R_L g_m s + R_1 R_L g_m}{R_1 q_m + s \left(C_3 R_1 R_3 q_m + C_3 R_1 R_L q_m + C_3 R_3 + C_3 R_L \right) + 1}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3 R_1 R_3 g_m s + R_1 g_m}{s^2 \left(C_3 C_L R_1 R_3 g_m + C_3 C_L R_3 \right) + s \left(C_3 R_1 g_m + C_3 + C_L R_1 g_m + C_L \right)}$$

10.23 INVALID-ORDER-23 $Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LR_1R_3R_Lg_ms^2 + R_1g_m + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m\right)}{s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_1R_Lg_m + C_3C_LR_3 + C_3C_LR_L\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}$$

10.24 INVALID-ORDER-24
$$Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3C_LL_LR_1R_3g_ms^3 + C_3R_1R_3g_ms + C_LL_LR_1g_ms^2 + R_1g_m}{s^3\left(C_3C_LL_LR_1g_m + C_3C_LL_L\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_3\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}$$

10.25 INVALID-ORDER-25
$$Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{{{C_3}{L_L}{R_1}{R_3}{g_m}{s^2} + {L_L}{R_1}{g_m}s}}{{{R_1}{g_m} + {s^3}\left({{C_3}{C_L}{L_L}{R_1}{R_3}{g_m} + {C_3}{C_L}{L_L}{R_3}} \right) + {s^2}\left({{C_3}{L_L}{R_1}{g_m} + {C_3}{L_L} + {C_L}{L_L}{R_1}{g_m} + {C_L}{L_L}} \right) + s\left({{C_3}{R_1}{R_3}{g_m} + {C_3}{R_3}} \right) + 1}}$$

10.26 INVALID-ORDER-26
$$Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3C_LL_LR_1R_3g_ms^3 + R_1g_m + s^2\left(C_3C_LR_1R_3R_Lg_m + C_LL_LR_1g_m\right) + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m\right)}{s^3\left(C_3C_LL_LR_1g_m + C_3C_LL_L\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_1R_Lg_m + C_3C_LR_3 + C_3C_LR_L\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_3C_LR_1R_2g_m\right)}$$

10.27 INVALID-ORDER-27
$$Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_3L_LR_1R_3R_Lg_ms^2 + L_LR_1R_Lg_ms}{R_1R_Lg_m + R_L + s^3\left(C_3C_LL_LR_1R_3R_Lg_m + C_3C_LL_LR_3R_L\right) + s^2\left(C_3L_LR_1R_3g_m + C_3L_LR_1R_Lg_m + C_3L_LR_1 + C_LL_LR_1R_Lg_m + C_LL_LR_1\right) + s\left(C_3R_1R_3R_Lg_m + C_3R_3R_L + L_LR_1g_m + L_L\right)}$$

10.28 INVALID-ORDER-28
$$Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_R L_S^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_3C_LL_LR_1R_3R_Lg_ms^3 + R_1R_Lg_m + s^2\left(C_3L_LR_1R_3g_m + C_LL_LR_1R_Lg_m\right) + s\left(C_3R_1R_3R_Lg_m + L_LR_1g_m\right)}{R_1g_m + s^3\left(C_3C_LL_LR_1R_3g_m + C_3C_LL_LR_1R_Lg_m + C_3C_LL_LR_1\right) + s^2\left(C_3L_LR_1g_m + C_3L_L + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_3R_1R_3g_m + C_3R_1R_2g_m + C_3R_1R_2g_m + C_3R_1R_2g_m + C_3R_1R_2g_m\right) + s\left(C_3R_1R_3g_m + C_3R_1R_3g_m + C_3R_1R_2g_m + C_3R_1R_2g_m\right)}$$

10.29 INVALID-ORDER-29
$$Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

10.30 INVALID-ORDER-30 $Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3L_3R_1g_ms^2 + R_1g_m}{s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}$$

10.31 INVALID-ORDER-31 $Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3L_3R_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^3\left(C_3C_LL_3R_1R_Lg_m + C_3C_LL_3R_L\right) + s^2\left(C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_Lg_m + C_3R_L + C_LR_1R_Lg_m + C_LR_L\right) + 1}$$

10.32 INVALID-ORDER-32
$$Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3C_LL_3R_1R_Lg_ms^3 + C_3L_3R_1g_ms^2 + C_LR_1R_Lg_ms + R_1g_m}{s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s^2\left(C_3C_LR_1R_Lg_m + C_3C_LR_L\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}$$

10.33 INVALID-ORDER-33
$$Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3C_LL_3L_LR_1g_ms^4 + R_1g_m + s^2\left(C_3L_3R_1g_m + C_LL_LR_1g_m\right)}{s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3 + C_3C_LL_LR_1g_m + C_3C_LL_L\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}$$

10.34 INVALID-ORDER-34
$$Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_3L_3L_LR_1g_ms^3 + L_LR_1g_ms}{R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_L\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + C_3L_LR_1g_m + C_3L_L + C_LL_LR_1g_m + C_LL_L\right) + 1}$$

10.35 INVALID-ORDER-35
$$Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3C_LL_3L_LR_1g_ms^4 + C_3C_LL_3R_1R_Lg_ms^3 + C_LR_1R_Lg_ms + R_1g_m + s^2\left(C_3L_3R_1g_m + C_LL_LR_1g_m\right)}{s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3 + C_3C_LL_LR_1g_m + C_3C_LL_L\right) + s^2\left(C_3C_LR_1R_Lg_m + C_3C_LR_L\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_LR_1g_m + C_LR_1g_m\right)}$$

10.36 INVALID-ORDER-36
$$Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

10.37 INVALID-ORDER-37
$$Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_3C_LL_3L_LR_1R_Lg_ms^4 + C_3L_3L_LR_1g_ms^3 + L_LR_1g_ms + R_1R_Lg_m + s^2\left(C_3L_3R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_RR_Lg_m + C_3C_LL_RR_L\right) + s^2\left(C_3L_3R_1g_m + C_3L_LR_1g_m + C_3L_1R_1g_m + C_3L_1R_$$

10.38 INVALID-ORDER-38
$$Z(s) = \left(R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_3C_LL_3L_LR_1R_Lg_ms^4 + R_1R_Lg_m + s^2\left(C_3L_3R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_3R_1R_Lg_m + C_3C_LL_2R_1R_Lg_m + C_3C_LL_LR_1\right) + s^2\left(C_3L_3R_1g_m + C_3L_LR_1g_m + C_3L_1g_m + C_3L_1g_m + C_3L_1g_m + C_3L_1g_m + C_3L_1g_m + C_3L_1g_m + C_3L_1$$

10.39 INVALID-ORDER-39 $Z(s) = \left(R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{L_3 R_1 g_m s}{R_1 g_m + s^2 \left(C_3 L_3 R_1 g_m + C_3 L_3 + C_L L_3 R_1 g_m + C_L L_3 \right) + 1}$$

10.40 INVALID-ORDER-40 $Z(s) = \left(R_1, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$

10.41 INVALID-ORDER-41 $Z(s) = \left(R_1, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_L L_3 L_L R_1 g_m s^3 + L_3 R_1 g_m s}{R_1 g_m + s^4 \left(C_3 C_L L_3 L_L R_1 g_m + C_3 C_L L_3 L_L \right) + s^2 \left(C_3 L_3 R_1 g_m + C_3 L_3 + C_L L_3 R_1 g_m + C_L L_3 + C_L L_1 R_1 g_m + C_L L_L \right) + 1}$$

10.42 INVALID-ORDER-42 $Z(s) = \left(R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_3 L_L R_1 g_m s}{L_3 R_1 g_m + L_3 + L_L R_1 g_m + L_L + s^2 \left(C_3 L_3 L_L R_1 g_m + C_3 L_3 L_L + C_L L_3 L_L R_1 g_m + C_L L_3 L_L \right)}$$

10.43 INVALID-ORDER-43 $Z(s) = \left(R_1, \infty, \frac{L_{3s}}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

10.44 INVALID-ORDER-44 $Z(s) = \left(R_1, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)$

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

10.45 INVALID-ORDER-45 $Z(s) = \left(R_1, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$

$$H(s) = \frac{C_L L_3 L_L R_1 R_L g_m s^3 + L_3 R_1 R_L g_m s}{R_1 R_L g_m + R_L + s^4 \left(C_3 C_L L_3 L_L R_1 R_L g_m + C_3 C_L L_3 L_L R_1 \right) + s^3 \left(C_L L_3 L_L R_1 g_m + C_L L_3 L_L \right) + s^2 \left(C_3 L_3 R_1 R_L g_m + C_3 L_3 R_L + C_L L_3 R_1 R_L g_m + C_L L_3 R_L + C_L L_3 R_1 R_L g_m + C_L L_3 R_1 R_L g_m$$

10.46 INVALID-ORDER-46 $Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3L_3R_1g_ms^2 + C_3R_1R_3g_ms + R_1g_m}{s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_3\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}$$

10.47 INVALID-ORDER-47 $Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

10.48 INVALID-ORDER-48 $Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_3R_1R_Lg_ms^3 + R_1g_m + s^2\left(C_3C_LR_1R_3R_Lg_m + C_3L_3R_1g_m\right) + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m\right)}{s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_1R_Lg_m + C_3C_LR_3 + C_3C_LR_L\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_LR_1g_m + C_LR_1g_m\right)}$$

10.49 INVALID-ORDER-49 $Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_3L_LR_1g_ms^4 + C_3C_LL_LR_1R_3g_ms^3 + C_3R_1R_3g_ms + R_1g_m + s^2\left(C_3L_3R_1g_m + C_LL_LR_1g_m\right)}{s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3 + C_3C_LL_RR_1g_m + C_3C_LL_L\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_3\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_3C_LR_1\right)}$$

10.50 INVALID-ORDER-50 $Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3L_3L_LR_1g_ms^3 + C_3L_LR_1g_ms^2 + L_LR_1g_ms}{R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_LR_1R_3g_m + C_3C_LL_LR_3\right) + s^2\left(C_3L_3R_1g_m + C_3L_LR_1g_m + C_3L_LR_1g_m + C_4L_L\right) + s\left(C_3R_1R_3g_m + C_3R_1R_3g_m + C_3R_3\right) + 1}$$

10.51 INVALID-ORDER-51 $Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_3L_LR_1g_ms^4 + R_1g_m + s^3\left(C_3C_LL_3R_1R_Lg_m + C_3C_LL_LR_1R_3g_m\right) + s^2\left(C_3C_LR_1R_3R_Lg_m + C_3L_3R_1g_m + C_LL_LR_1g_m\right) + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m\right)}{s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3 + C_3C_LL_LR_1g_m + C_3C_LL_L\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_1R_Lg_m + C_3C_LR_3 + C_3C_LR_1\right) + s\left(C_3R_1R_3g_m + C_4R_1R_Lg_m\right)}$$

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10.52 INVALID-ORDER-52 Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                        \frac{C_{3}L_{1}R_{1}R_{L}g_{m}s^{3}+C_{3}L_{L}R_{1}R_{2}g_{m}s^{2}+L_{L}R_{1}R_{L}g_{m}s}{R_{1}R_{L}g_{m}+R_{L}+s^{4}\left(C_{3}C_{L}L_{3}L_{L}R_{1}R_{L}g_{m}+C_{3}C_{L}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{3}L_{L}R_{1}R_{2}g_{m}+C_{3}L_{L}
10.53 INVALID-ORDER-53 Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                      H(s) = \frac{C_3C_LL_3L_LR_1R_Lg_ms^4 + R_1R_Lg_m + s^3\left(C_3C_LL_LR_1R_3R_Lg_m + C_3L_3L_LR_1g_m\right) + s^2\left(C_3L_3R_1R_Lg_m + C_3L_LR_1R_3g_m + C_LL_LR_1R_Lg_m\right) + s\left(C_3R_1R_3R_Lg_m + L_LR_1g_m\right) + s\left(C_3R_1R_3R_Lg_m + L_LR_1g_m\right) + s\left(C_3R_1R_3R_Lg_m + L_LR_1g_m\right) + s\left(C_3R_1R_3R_Lg_m + C_3L_LR_1g_m + C_3L_LR_1g_m + C_3L_LR_1g_m\right) + s\left(C_3R_1R_3R_Lg_m + C_3L_LR_1g_m + C_3L_LR_1g_m + C_3L_LR_1g_m\right) + s\left(C_3R_1R_3R_Lg_m + L_LR_1g_m\right) + s\left(C_3R_1R_1g_m + L_LR_1g_m\right) + s\left(C_3R_1R_1g_m + L_LR_1g_m\right) + s\left(C_3R_1R_1g_m + L_LR_1g_m\right) + s\left(C_3R_1
10.54 INVALID-ORDER-54 Z(s) = \left(R_1, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_3C_LL_3L_LR_1R_Lg_ms^4 + C_3C_LL_LR_1R_3R_Lg_ms^3 + C_3R_1R_3R_Lg_ms + R_1R_Lg_m + s^2\left(C_3L_3R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_3R_1R_Lg_m + C_3C_LL_RR_1R_2g_m + C_3
10.55 INVALID-ORDER-55 Z(s) = \left(R_1, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                   H(s) = \frac{C_L L_3 R_1 R_3 R_L g_m s^2 + L_3 R_1 R_3 g_m s}{R_1 R_3 g_m + R_3 + s^3 \left( C_3 C_L L_3 R_1 R_3 R_L g_m + C_3 C_L L_3 R_3 R_L \right) + s^2 \left( C_3 L_3 R_1 R_3 g_m + C_3 L_3 R_3 R_1 R_3 g_m + C_L L_3 R_1 R_2 g_m + C_L L_3 R_2 R_2 g_m + C_L R_3 R_2 g_m + C_L
10.56 INVALID-ORDER-56 Z(s) = \left(R_1, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                            10.57 INVALID-ORDER-57 Z(s) = \left(R_1, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                        \frac{C_{L}L_{3}L_{L}R_{1}R_{3}g_{m}s^{3}+C_{L}L_{3}R_{1}R_{3}g_{m}s^{2}+L_{3}R_{1}R_{3}g_{m}s}{R_{1}R_{3}g_{m}+R_{3}+s^{4}\left(C_{3}C_{L}L_{3}L_{L}R_{1}R_{3}g_{m}+C_{3}C_{L}L_{3}R_{1}R_{3}R_{L}g_{m}+C_{3}L_{L}R_{1}R_{3}g_{m}+C_{L}L_{3}R_{1}R_{3}g_{m}+C_{L}
10.58 INVALID-ORDER-58 Z(s) = \left(R_1, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.59 INVALID-ORDER-59 Z(s) = \left(R_1, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_L L_3 L_L R_1 R_3 R_L g_m s^3 + L_3 R_1 R_3 R_L g_m s
                                        \frac{C_L L_3 L_L I_1 I_1 I_3 I_L y_m s}{R_1 R_3 R_L g_m + R_3 R_L + s^4 \left(C_3 C_L L_3 L_L R_1 R_3 R_L g_m + C_3 L_L L_R I_R R_3 R_L + C_L L_3 L_L R_1 R_3 R_L g_m + C_L L_3 R_1 R_3 R_L g_m +
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 $H(s) = \frac{C_3L_3R_1R_3g_ms^2 + L_3R_1g_ms + R_1R_3g_m}{R_1g_m + s^3\left(C_3C_LL_3R_1R_3g_m + C_3C_LL_3R_3\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + C_LL_3R_1g_m + C_LL_3\right) + s\left(C_LR_1R_3g_m + C_LR_3\right) + 1}$

10.60 INVALID-ORDER-60 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{1}{C_{Ls}}\right)$

10.61 INVALID-ORDER-61 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$ $H(s) = \frac{C_3L_3R_1R_3R_Lg_ms^2 + L_3R_1R_Lg_ms + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_3C_LL_3R_1R_3R_Lg_m + C_3L_3R_3R_L\right) + s^2\left(C_3L_3R_1R_3g_m + C_3L_3R_1R_Lg_m + C_3L_3R_1R_Lg_m + C_LL_3R_1R_Lg_m + C_LL_3R_L\right) + s\left(C_LR_1R_3R_Lg_m + C_LR_3R_L + L_3R_1g_m + C_LR_3R_L\right) + s\left(C_LR_1R_3R_Lg_m + C_LR_3R_L + L_3R_1g_m + C_LR_3R_L\right) + s\left(C_LR_1R_3R_Lg_m + C_LR_3R_L\right) + s\left(C_LR_1R_1R_2R_Lg_m + C_LR_3R_Lg_m + C_LR_3R_Lg_m\right) + s\left(C_LR_1R_1R_1R_2R_Lg_m + C_LR_3R_Lg_m + C_LR_3R_Lg_m\right) +$ **10.62** INVALID-ORDER-62 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$ $H(s) = \frac{C_3C_LL_3R_1R_3R_Lg_ms^3 + R_1R_3g_m + s^2\left(C_3L_3R_1R_3g_m + C_LL_3R_1R_Lg_m\right) + s\left(C_LR_1R_3R_Lg_m + L_3R_1g_m\right)}{R_1g_m + s^3\left(C_3C_LL_3R_1R_3g_m + C_3C_LL_3R_1R_Lg_m + C_3C_LL_3R_3 + C_3C_LL_3R_1\right) + s^2\left(C_3L_3R_1g_m + C_LL_3R_1g_m + C_LL_3\right) + s\left(C_LR_1R_3g_m + C_LR_1R_Lg_m + C_LR_3 + C_LR_1\right) + s\left(C_LR_1R_3g_m + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_3\right) + s\left(C_LR_1R_3g_m + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_3\right) + s\left(C_LR_1R_3g_m + C_LR_1R_2g_m + C_LR_3\right) + s\left(C_LR_1R_3g_m + C_LR_1R_2g_m + C_LR_3\right) + s\left(C_LR_1R_3g_m + C_LR_1R_3g_m + C_LR_1R_2g_m + C_LR_3\right) + s\left(C_LR_1R_3g_m + C_LR_1R_3g_m + C_LR_1R_3$ **10.63** INVALID-ORDER-63 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$ $H(s) = \frac{C_3C_LL_3L_LR_1R_3g_ms^4 + C_LL_3L_LR_1g_ms^3 + L_3R_1g_ms + R_1R_3g_m + s^2\left(C_3L_3R_1R_3g_m + C_LL_LR_1R_3g_m\right)}{R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_3R_1R_3g_m + C_3C_LL_3R_3\right) + s^2\left(C_3L_3R_1g_m + C_3L_3R_1g_m + C_LL_3R_1g_m + C_LL_3R_1g_m + C_LL_4R_1g_m + C_LL_$ **10.64** INVALID-ORDER-64 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$

$$H(s) = \frac{C_3L_3L_LR_1R_3g_ms^3 + L_3L_LR_1g_ms^2 + L_LR_1R_3g_ms}{R_1R_3g_m + R_3 + s^4\left(C_3C_LL_3L_LR_1R_3g_m + C_3C_LL_3L_LR_3\right) + s^3\left(C_3L_3L_LR_1g_m + C_3L_3L_LR_1g_m + C_LL_3L_LR_1g_m + C_LL_3L_1R_1g_m + C_LL_3L_1R_1g_m$$

10.65 INVALID-ORDER-65 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_3C_LL_3L_LR_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_3C_LL_3R_1R_3R_Lg_m + C_LL_3L_LR_1g_m\right) + s^2\left(C_3L_3R_1R_3g_m + C_LL_3R_1R_Lg_m + C_LL_LR_1R_3g_m\right) + s\left(C_LR_1R_3R_Lg_m + L_3R_1g_m + L_3R_1g_m\right)}{R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3R_1R_3g_m +$$

10.66 INVALID-ORDER-66 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$

$$H(s) = \frac{C_3L_3L_LR_1R_3R_Lg_ms^3 + L_3L_LR_1R_2g_ms^2 + L_LR_1R_3R_Lg_ms}{R_1R_3R_Lg_m + R_3R_L + s^4\left(C_3C_LL_3L_LR_1R_3R_Lg_m + C_3L_3L_LR_1R_2g_m + C_3L_3L_1R_3R_2g_m + C_3L_3L_1R_3R_2g_m + C_3L_3L_1R_3R_2g_m + C_3L_3L_1R_3R_2g_m + C_3L_3L_1R_3R_2g_m + C_$$

10.67 INVALID-ORDER-67 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)$

$$H(s) = \frac{C_3C_LL_3L_LR_1R_3R_Lg_m s^4 + R_1R_3R_Lg_m + s^3\left(C_3L_3L_LR_1R_3g_m + C_LL_3L_LR_1R_2g_m\right) + s^2\left(C_3L_3R_1R_3R_Lg_m + C_LL_LR_1R_3R_Lg_m + L_3L_LR_1g_m\right) + s\left(L_3R_1R_Lg_m + L_LR_1R_3g_m + L_2L_RR_1g_m + L_2L_RR_1g_m\right)}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^4\left(C_3C_LL_3L_LR_1R_3g_m + C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_RR_1g_m + C_3C$$

10.68 INVALID-ORDER-68 $Z(s) = \left(R_1, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$

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

$$H(s) = \frac{C_3C_LL_3L_LR_1R_3R_Lg_ms^4 + C_LL_3L_LR_1R_Lg_ms^3 + L_3R_1R_Lg_ms + R_1R_3R_Lg_m + s^2\left(C_3L_3R_1R_3R_Lg_m + C_LL_LR_1R_3R_Lg_m\right)}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^4\left(C_3C_LL_3L_LR_1R_3g_m + C_3C_LL_3L_LR_1R_2g_m + C_3C_LL_3L_LR_1R_2g_m + C_3C_LL_3L_LR_1R_3g_m + C_3C_LL_3L_LR_1R_3g_m + C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_RR_1g_m + C_3C_LL_3L_RR_1g_m$$

10.69 INVALID-ORDER-69
$$Z(s) = \left(R_1, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_3L_3R_1R_3g_ms^2 + R_1R_3g_m}{R_1g_m + s^3\left(C_3C_LL_3R_1R_3g_m + C_3C_LL_3R_3\right) + s^2\left(C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_3g_m + C_3R_3 + C_LR_1R_3g_m + C_LR_3\right) + 1}$$

10.78 INVALID-ORDER-78 $Z(s) = (L_1 s, \infty, R_3, \infty, \infty, R_L)$

$$H(s) = \frac{L_1 R_3 R_L g_m s}{R_3 + R_L + s (L_1 R_3 g_m + L_1 R_L g_m)}$$

 $C_3C_LL_3L_LR_1R_3R_Lg_ms^4 + R_1R_3R_Lg_m + s^2(C_3L_3R_1R_3R_Lg_m + C_LL_LR_1R_3R_Lg_m)$

10.79 INVALID-ORDER-79
$$Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_3 g_m s^3 + L_1 R_3 g_m s}{C_L L_1 L_L g_m s^3 + s^2 \left(C_L L_1 R_3 g_m + C_L L_L \right) + s \left(C_L R_3 + L_1 g_m \right) + 1}$$

10.80 INVALID-ORDER-80
$$Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_1 L_L R_3 g_m s^2}{C_L L_1 L_L R_3 g_m s^3 + R_3 + s^2 \left(C_L L_L R_3 + L_1 L_L g_m \right) + s \left(L_1 R_3 g_m + L_L \right)}$$

10.81 INVALID-ORDER-81
$$Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_3 g_m s^3 + C_L L_1 R_3 R_L g_m s^2 + L_1 R_3 g_m s}{C_L L_1 L_L g_m s^3 + s^2 \left(C_L L_1 R_3 g_m + C_L L_1 R_L g_m + C_L L_L \right) + s \left(C_L R_3 + C_L R_L + L_1 g_m \right) + 1}$$

10.82 INVALID-ORDER-82
$$Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_1 L_L R_3 R_L g_m s^2}{C_L L_1 L_L R_3 R_L g_m s^3 + R_3 R_L + s^2 \left(C_L L_L R_3 R_L + L_1 L_L R_3 g_m + L_1 L_L R_L g_m \right) + s \left(L_1 R_3 R_L g_m + L_L R_3 + L_L R_L \right)}$$

10.83 INVALID-ORDER-83 $Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_L L_1 L_L R_3 R_L g_m s^3 + L_1 L_L R_3 g_m s^2 + L_1 R_3 R_L g_m s}{R_3 + R_L + s^3 \left(C_L L_1 L_L R_3 g_m + C_L L_1 L_L R_L g_m \right) + s^2 \left(C_L L_L R_3 + C_L L_L R_L + L_1 L_L g_m \right) + s \left(L_1 R_3 g_m + L_1 R_L g_m + L_L \right)}$$

10.84 INVALID-ORDER-84 $Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{R_L\left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_L L_1 L_L R_3 R_L g_m s^3 + L_1 R_3 R_L g_m s}{R_3 + R_L + s^3 \left(C_L L_1 L_L R_3 g_m + C_L L_1 L_L R_L g_m \right) + s^2 \left(C_L L_1 R_3 R_L g_m + C_L L_L R_3 + C_L L_L R_L \right) + s \left(C_L R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m \right)}$$

10.85 INVALID-ORDER-85 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{L_1 g_m}{C_3 + C_L + s \left(C_3 L_1 g_m + C_L L_1 g_m \right)}$$

10.86 INVALID-ORDER-86 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 L_L g_m s^2 + L_1 g_m}{C_3 C_L L_1 L_L g_m s^3 + C_3 C_L L_L s^2 + C_3 + C_L + s \left(C_3 L_1 g_m + C_L L_1 g_m \right)}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_1 L_L g_m s^2}{L_1 g_m s + s^3 \left(C_3 L_1 L_L g_m + C_L L_1 L_L g_m \right) + s^2 \left(C_3 L_L + C_L L_L \right) + 1}$$

10.88 INVALID-ORDER-88 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 L_L g_m s^2 + C_L L_1 R_L g_m s + L_1 g_m}{C_3 C_L L_1 L_L g_m s^3 + C_3 + C_L + s^2 \left(C_3 C_L L_1 R_L g_m + C_3 C_L L_L \right) + s \left(C_3 C_L R_L + C_3 L_1 g_m + C_L L_1 g_m \right)}$$

10.89 INVALID-ORDER-89
$$Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.90 INVALID-ORDER-90
$$Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_L g_m s^3 + L_1 L_L g_m s^2 + L_1 R_L g_m s}{C_3 C_L L_1 L_L R_L g_m s^4 + s^3 \left(C_3 C_L L_L R_L + C_3 L_1 L_L g_m + C_L L_1 L_L g_m \right) + s^2 \left(C_3 L_1 R_L g_m + C_3 L_L + C_L L_L \right) + s \left(C_3 R_L + L_1 g_m \right) + 1}$$

10.91 INVALID-ORDER-91
$$Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_L g_m s^3 + L_1 R_L g_m s}{C_3 C_L L_1 L_L R_L g_m s^4 + s^3 \left(C_3 C_L L_L R_L + C_L L_1 L_L g_m \right) + s^2 \left(C_3 L_1 R_L g_m + C_L L_1 R_L g_m + C_L L_1 \right) + s \left(C_3 R_L + C_L R_L + L_1 g_m \right) + 1}$$

10.92 INVALID-ORDER-92
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 R_3 R_L g_m s^2 + L_1 R_3 g_m s}{C_3 C_L L_1 R_3 R_L g_m s^3 + s^2 \left(C_3 C_L R_3 R_L + C_3 L_1 R_3 g_m + C_L L_1 R_3 g_m + C_L L_1 R_L g_m\right) + s \left(C_3 R_3 + C_L R_3 + C_L R_L + L_1 g_m\right) + 1}$$

10.93 INVALID-ORDER-93
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_3 g_m s^3 + L_1 R_3 g_m s}{C_3 C_L L_1 L_L R_3 g_m s^4 + s^3 \left(C_3 C_L L_L R_3 + C_L L_1 L_L g_m \right) + s^2 \left(C_3 L_1 R_3 g_m + C_L L_1 R_3 g_m + C_L L_L \right) + s \left(C_3 R_3 + C_L R_3 + L_1 g_m \right) + 1}$$

10.94 INVALID-ORDER-94
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_1 L_L R_3 g_m s^2}{R_3 + s^3 \left(C_3 L_1 L_L R_3 g_m + C_L L_1 L_L R_3 g_m \right) + s^2 \left(C_3 L_L R_3 + C_L L_L R_3 + L_1 L_L g_m \right) + s \left(L_1 R_3 g_m + L_L \right)}$$

10.95 INVALID-ORDER-95
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_3 g_m s^3 + C_L L_1 R_3 R_L g_m s^2 + L_1 R_3 g_m s}{C_3 C_L L_1 L_L R_3 g_m s^4 + s^3 \left(C_3 C_L L_1 R_3 R_L g_m + C_3 C_L L_L R_3 + C_L L_1 L_L g_m\right) + s^2 \left(C_3 C_L R_3 R_L + C_3 L_1 R_3 g_m + C_L L_1 R_3 g_m + C_L L_1 R_L g_m + C_L L_1\right) + s \left(C_3 R_3 + C_L R_3 + C_L R_1 + L_1 g_m\right) + 1}$$

10.96 INVALID-ORDER-96
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.97 INVALID-ORDER-97
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_3 R_L g_m s^3 + L_1 L_L R_3 g_m s^2 + L_1 R_3 R_L g_m s}{C_3 C_L L_1 L_L R_3 R_L g_m s^4 + R_3 + R_L + s^3 \left(C_3 C_L L_L R_3 R_L + C_3 L_1 L_L R_3 g_m + C_L L_1 L_L R_2 g_m \right) + s^2 \left(C_3 L_1 R_3 R_L g_m + C_3 L_L R_3 + C_L L_L R_3 + C_L L_L R_4 + L_1 L_L g_m \right) + s \left(C_3 R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m + L_L \right)}$$

10.98 INVALID-ORDER-98
$$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_3 R_L g_m s^3 + L_1 R_3 R_L g_m s}{C_3 C_L L_1 L_L R_3 R_L g_m s^4 + R_3 + R_L + s^3 \left(C_3 C_L L_L R_3 R_L + C_L L_1 L_L R_3 g_m + C_L L_1 L_L R_2 g_m \right) + s^2 \left(C_3 L_1 R_3 R_L g_m + C_L L_1 R_3 R_L g_m + C_L L_L R_3 + C_L L_L R_2 \right) + s \left(C_3 R_3 R_L + C_L R_3 R_L + L_1 R_3 g_m + L_1 R_2 g_m \right)}$$

10.99 INVALID-ORDER-99 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3L_1R_3R_Lg_ms^2 + L_1R_Lg_ms}{C_3C_LL_1R_3R_Lg_ms^3 + s^2\left(C_3C_LR_3R_L + C_3L_1R_3g_m + C_3L_1R_Lg_m + C_LL_1R_Lg_m\right) + s\left(C_3R_3 + C_3R_L + C_LR_L + L_1g_m\right) + 1}$$

10.100 INVALID-ORDER-100 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_1L_LR_3g_ms^3 + C_3L_1R_3g_ms + C_LL_1L_Lg_ms^2 + L_1g_m}{C_3C_LL_1L_Lg_ms^3 + C_3 + C_LL_1 + s^2\left(C_3C_LL_1R_3g_m + C_3C_LL_L\right) + s\left(C_3C_LR_3 + C_3L_1g_m + C_LL_1g_m\right)}$$

10.101 INVALID-ORDER-101 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3L_1L_LR_3g_ms^3 + L_1L_Lg_ms^2}{C_3C_LL_1L_LR_3g_ms^4 + s^3\left(C_3C_LL_LR_3 + C_3L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_3L_1R_3g_m + C_3L_L + C_LL_L\right) + s\left(C_3R_3 + L_1g_m\right) + 1}$$

10.102 INVALID-ORDER-102 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_1L_LR_3g_ms^3 + L_1g_m + s^2\left(C_3C_LL_1R_3R_Lg_m + C_LL_1L_Lg_m\right) + s\left(C_3L_1R_3g_m + C_LL_1R_Lg_m\right)}{C_3C_LL_1L_Lg_ms^3 + C_3 + C_L + s^2\left(C_3C_LL_1R_3g_m + C_3C_LL_1R_Lg_m + C_3C_LL_L\right) + s\left(C_3C_LR_3 + C_3C_LR_L + C_3L_1g_m + C_LL_1g_m\right)}$$

10.103 INVALID-ORDER-103 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_3L_1L_LR_3R_Lg_ms^3 + L_1L_LR_Lg_ms^2}{C_3C_LL_1L_LR_3R_Lg_ms^4 + R_L + s^3\left(C_3C_LL_LR_3R_L + C_3L_1L_LR_3g_m + C_3L_1L_LR_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_LR_3 + C_3L_LR_L + C_LL_LR_L + L_1L_Lg_m\right) + s\left(C_3R_3R_L + L_1R_Lg_m + L_L\right)}$$

10.104 INVALID-ORDER-104 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3C_LL_1L_LR_3R_Lg_ms^4 + L_1R_Lg_ms + s^3\left(C_3L_1L_LR_3g_m + C_LL_1L_LR_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + L_1L_Lg_m\right)}{s^4\left(C_3C_LL_1L_LR_3g_m + C_3C_LL_1L_LR_2g_m\right) + s^3\left(C_3C_LL_LR_3 + C_3C_LL_LR_L + C_3L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_3L_1R_3g_m + C_3L_1R_Lg_m + C_3L_1L_Lg_m\right) + s^2\left(C_3L_1R_3g_m + C_3L_1L_Lg_m\right) + s^2\left(C_3L_1R_3g_m + C_3L_1R_Lg_m\right) + s^2\left(C_3L_1R_3g_m + C_3L_1R_1g_m\right) + s^2\left(C_3L_1R_1g_m\right) + s^2\left(C_3L_1R_1g_m\right) + s^2\left(C_3L_1R_1g_m\right) + s^2\left(C_3L_1R_1g_m\right) +$$

10.105 INVALID-ORDER-105 $Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3C_LL_1L_LR_3R_Lg_ms^4 + C_3L_1R_3R_Lg_ms^2 + C_LL_1L_LR_Lg_ms^3 + L_1R_Lg_ms}{s^4\left(C_3C_LL_1L_LR_3g_m + C_3C_LL_1R_3R_Lg_m + C_3C_LL_LR_3 + C_3C_LL_LR_4 + C_LL_1L_Lg_m\right) + s^2\left(C_3C_LR_3R_L + C_3L_1R_3g_m + C_3L_1R_Lg_m + C_LL_1\right) + s\left(C_3R_3 + C_3R_L + C_LR_L + L_1g_m\right) + 1}$$

10.106 INVALID-ORDER-106 $Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_3 L_1 L_3 R_L g_m s^3 + L_1 R_L g_m s}{C_3 L_1 L_3 g_m s^3 + s^2 \left(C_3 L_1 R_L g_m + C_3 L_3 \right) + s \left(C_3 R_L + L_1 g_m \right) + 1}$$

10.107 INVALID-ORDER-107
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3 L_1 L_3 g_m s^2 + L_1 g_m}{C_3 C_L L_1 L_3 g_m s^3 + C_3 C_L L_3 s^2 + C_3 + C_L + s \left(C_3 L_1 g_m + C_L L_1 g_m \right)}$$

10.108 INVALID-ORDER-108
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_3L_1L_3R_Lg_ms^3 + L_1R_Lg_ms}{C_3C_LL_1L_3R_Lg_ms^4 + s^3\left(C_3C_LL_3R_L + C_3L_1L_3g_m\right) + s^2\left(C_3L_1R_Lg_m + C_3L_3 + C_LL_1R_Lg_m\right) + s\left(C_3R_L + C_LR_L + L_1g_m\right) + 1}$$

10.109 INVALID-ORDER-109
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3C_LL_1L_3R_Lg_ms^3 + C_3L_1L_3g_ms^2 + C_LL_1R_Lg_ms + L_1g_m}{C_3C_LL_1L_3g_ms^3 + C_3 + C_L + s^2\left(C_3C_LL_1R_Lg_m + C_3C_LL_3\right) + s\left(C_3C_LR_L + C_3L_1g_m + C_LL_1g_m\right)}$$

10.110 INVALID-ORDER-110
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3C_LL_1L_3L_Lg_ms^4 + L_1g_m + s^2\left(C_3L_1L_3g_m + C_LL_1L_Lg_m\right)}{C_3 + C_L + s^3\left(C_3C_LL_1L_3g_m + C_3C_LL_1L_Lg_m\right) + s^2\left(C_3C_LL_3 + C_3C_LL_L\right) + s\left(C_3L_1g_m + C_LL_1g_m\right)}$$

10.111 INVALID-ORDER-111
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_3L_1L_3L_Lg_ms^4 + L_1L_Lg_ms^2}{C_3C_LL_3L_Lg_ms^5 + C_3C_LL_3L_Ls^4 + L_1g_ms + s^3\left(C_3L_1L_3g_m + C_3L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_3L_3 + C_3L_L + C_LL_L\right) + 1}$$

10.112 INVALID-ORDER-112
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_3C_LL_1L_3L_Lg_ms^4 + C_3C_LL_1L_3R_Lg_ms^3 + C_LL_1R_Lg_ms + L_1g_m + s^2\left(C_3L_1L_3g_m + C_LL_1L_Lg_m\right)}{C_3 + C_L + s^3\left(C_3C_LL_1L_3g_m + C_3C_LL_1L_Lg_m\right) + s^2\left(C_3C_LL_1R_Lg_m + C_3C_LL_3 + C_3C_LL_1\right) + s\left(C_3C_LR_L + C_3L_1g_m + C_LL_1g_m\right)}$$

10.113 INVALID-ORDER-113
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.114 INVALID-ORDER-114
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_3C_LL_1L_3L_LR_Lg_ms^5 + C_3L_1L_3L_Lg_ms^4 + L_1L_Lg_ms^2 + L_1R_Lg_ms + s^3\left(C_3L_1L_3R_Lg_m + C_LL_1L_LR_Lg_m\right)}{C_3C_LL_1L_3L_Lg_ms^5 + s^4\left(C_3C_LL_1L_LR_Lg_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_LR_L + C_3L_1L_3g_m + C_3L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_3L_1R_Lg_m + C_3L_1L_LR_Lg_m + C_3L_1L_LR_Lg_m + C_3L_1L_LR_Lg_m\right) + s^2\left(C_3L_1R_Lg_m + C_3L_1R_Lg_m\right) + s^2\left(C_3L_1R_Lg_m + C_3L_1R_Lg_m\right) + s^2\left(C_3L_1R_Lg_m + C_3L_1R_Lg_m\right) + s^2\left(C_3L_1R_Lg_m + C_3L_1R_Lg_m\right) + s^2\left(C_3L_1R_Lg_m\right) + s^2\left(C_3L_1R_Lg_m\right) + s^2\left(C_3L_1R_Lg_m\right)$$

10.115 INVALID-ORDER-115
$$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_3C_LL_1L_3L_LR_Lg_ms^5 + L_1R_Lg_ms + s^3\left(C_3L_1L_3R_Lg_m + C_LL_1L_LR_Lg_m\right)}{C_3C_LL_1L_3L_Lg_ms^5 + s^4\left(C_3C_LL_1L_3R_Lg_m + C_3C_LL_1L_LR_Lg_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_3R_L + C_3C_LL_1L_2g_m + C_LL_1L_2g_m\right) + s^2\left(C_3L_1R_Lg_m + C_3L_1L_3R_Lg_m + C_LL_1\right) + s\left(C_3R_L + C_LR_L + L_1g_m\right) + 1}$$

10.116 INVALID-ORDER-116
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{L_1 L_3 R_L g_m s^2}{C_3 L_1 L_3 R_L q_m s^3 + R_L + s^2 (C_3 L_3 R_L + L_1 L_3 q_m) + s (L_1 R_L q_m + L_3)}$$

10.117 INVALID-ORDER-117
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{L_1 L_3 g_m s^2}{L_1 g_m s + s^3 \left(C_3 L_1 L_3 g_m + C_L L_1 L_3 g_m \right) + s^2 \left(C_3 L_3 + C_L L_3 \right) + 1}$$

10.118 INVALID-ORDER-118
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{L_1 L_3 R_L g_m s^2}{R_L + s^3 \left(C_3 L_1 L_3 R_L g_m + C_L L_1 L_3 R_L g_m \right) + s^2 \left(C_3 L_3 R_L + C_L L_3 R_L + L_1 L_3 g_m \right) + s \left(L_1 R_L g_m + L_3 \right)}$$

10.119 INVALID-ORDER-119
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_3 R_L g_m s^3 + L_1 L_3 g_m s^2}{C_3 C_L L_1 L_3 R_L g_m s^4 + s^3 \left(C_3 C_L L_3 R_L + C_3 L_1 L_3 g_m + C_L L_1 L_3 g_m \right) + s^2 \left(C_3 L_3 + C_L L_1 R_L g_m + C_L L_3\right) + s \left(C_L R_L + L_1 g_m\right) + 1}$$

10.120 INVALID-ORDER-120
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_3 L_L g_m s^4 + L_1 L_3 g_m s^2}{C_3 C_L L_1 L_3 L_L g_m s^5 + C_3 C_L L_3 L_L s^4 + L_1 g_m s + s^3 \left(C_3 L_1 L_3 g_m + C_L L_1 L_3 g_m + C_L L_1 L_L g_m \right) + s^2 \left(C_3 L_3 + C_L L_3 + C_L L_1 \right) + 1}$$

10.121 INVALID-ORDER-121
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_1 L_3 L_L g_m s^2}{L_3 + L_L + s^3 \left(C_3 L_1 L_3 L_L g_m + C_L L_1 L_3 L_L g_m \right) + s^2 \left(C_3 L_3 L_L + C_L L_3 L_L \right) + s \left(L_1 L_3 g_m + L_1 L_L g_m \right)}$$

10.122 INVALID-ORDER-122
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.123 INVALID-ORDER-123
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.124 INVALID-ORDER-124
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_3 L_L R_L g_m s^4 + L_1 L_3 L_L g_m s^3 + L_1 L_3 R_L g_m s^2}{C_3 C_L L_1 L_3 L_L R_L g_m s^5 + R_L + s^4 \left(C_3 C_L L_3 L_L R_L + C_3 L_1 L_3 L_L g_m + C_L L_1 L_3 L_L g_m + C_3 L_3 L_L + C_L L_1 L_L R_L g_m + C_L L_3 L_L \right) + s^2 \left(C_3 L_3 R_L + C_L L_L R_L + L_1 L_3 g_m + L_1 L_L g_m + L_3 + L_L \right)}$$

10.125 INVALID-ORDER-125
$$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

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

10.126 INVALID-ORDER-126 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_3L_1L_3R_Lg_ms^3 + C_3L_1R_3R_Lg_ms^2 + L_1R_Lg_ms}{C_3L_1L_3g_ms^3 + s^2\left(C_3L_1R_3g_m + C_3L_1R_Lg_m + C_3L_3\right) + s\left(C_3R_3 + C_3R_L + L_1g_m\right) + 1}$$

10.127 INVALID-ORDER-127 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3L_1L_3g_ms^2 + C_3L_1R_3g_ms + L_1g_m}{C_3C_LL_1L_3g_ms^3 + C_3 + C_L + s^2\left(C_3C_LL_1R_3g_m + C_3C_LL_3\right) + s\left(C_3C_LR_3 + C_3L_1g_m + C_LL_1g_m\right)}$$

10.128 INVALID-ORDER-128 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3L_1L_3R_Lg_ms^3 + C_3L_1R_3R_Lg_ms^2 + L_1R_Lg_ms}{C_3C_LL_1L_3R_Lg_ms^4 + s^3\left(C_3C_LL_1R_3R_Lg_m + C_3C_LL_3R_L + C_3L_1L_3g_m\right) + s^2\left(C_3C_LR_3R_L + C_3L_1R_3g_m + C_3L_1R_Lg_m + C_3L_3R_Lg_m\right) + s\left(C_3R_3 + C_3R_L + C_4R_L + L_1g_m\right) + 1}$$

10.129 INVALID-ORDER-129 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_1L_3R_Lg_ms^3 + L_1g_m + s^2\left(C_3C_LL_1R_3R_Lg_m + C_3L_1L_3g_m\right) + s\left(C_3L_1R_3g_m + C_LL_1R_Lg_m\right)}{C_3C_LL_1L_3g_ms^3 + C_3 + C_L + s^2\left(C_3C_LL_1R_3g_m + C_3C_LL_1R_Lg_m + C_3C_LL_3\right) + s\left(C_3C_LR_3 + C_3C_LR_L + C_3L_1g_m + C_LL_1g_m\right)}$$

10.130 INVALID-ORDER-130 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_1L_3L_Lg_ms^4 + C_3C_LL_1L_LR_3g_ms^3 + C_3L_1R_3g_ms + L_1g_m + s^2\left(C_3L_1L_3g_m + C_LL_1L_Lg_m\right)}{C_3 + C_L + s^3\left(C_3C_LL_1L_3g_m + C_3C_LL_1L_Lg_m\right) + s^2\left(C_3C_LL_1R_3g_m + C_3C_LL_3 + C_3C_LL_1\right) + s\left(C_3C_LR_3 + C_3L_1g_m + C_LL_1g_m\right)}$$

10.131 INVALID-ORDER-131 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3L_1L_3L_Lg_ms^4 + C_3L_1L_LR_3g_ms^3 + L_1L_Lg_ms^2}{C_3C_LL_1L_3L_Lg_ms^5 + s^4\left(C_3C_LL_1L_LR_3g_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_LR_3 + C_3L_1L_3g_m + C_3L_1L_Lg_m\right) + s^2\left(C_3L_1R_3g_m + C_3L_3 + C_3L_L + C_LL_L\right) + s\left(C_3R_3 + L_1g_m\right) + 1}$$

10.132 INVALID-ORDER-132 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_1L_3L_Lg_ms^4 + L_1g_m + s^3\left(C_3C_LL_1L_3R_Lg_m + C_3C_LL_1L_LR_3g_m\right) + s^2\left(C_3C_LL_1R_3R_Lg_m + C_3L_1L_3g_m + C_LL_1L_Lg_m\right) + s\left(C_3L_1R_3g_m + C_LL_1L_Lg_m\right) + s\left(C_3L_1R_3g_m + C_LL_1R_Lg_m\right)}{C_3 + C_L + s^3\left(C_3C_LL_1L_3g_m + C_3C_LL_1L_2g_m\right) + s^2\left(C_3C_LL_1R_3g_m + C_3C_LL_1R_Lg_m + C_3C_LL_1\right) + s\left(C_3C_LR_3 + C_3C_LR_L + C_3L_1R_2g_m + C_LL_1R_Lg_m\right)}$$

10.133 INVALID-ORDER-133 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_3L_1L_3L_LR_Lg_ms^4 + C_3L_1L_LR_3g_ms^3 + L_1L_LR_Lg_ms^2}{C_3C_LL_1L_3L_LR_Lg_ms^5 + R_L + s^4\left(C_3C_LL_1L_LR_3R_Lg_m + C_3C_LL_3L_LR_L + C_3L_1L_3L_Lg_m\right) + s^3\left(C_3C_LL_LR_3R_L + C_3L_1L_RR_2g_m + C_3L_1L_LR_2g_m + C_3L_1L_LR_2g_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_1L_RR_2g_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_1L_RR_2g_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_1R_2g_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_1R_3R_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_1R_2g_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C$$

10.134 INVALID-ORDER-134 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3C_LL_1L_3L_LR_Lg_ms^5 + L_1R_Lg_ms + s^4\left(C_3C_LL_1L_LR_3R_Lg_m + C_3L_1L_3L_Lg_m\right) + s^3\left(C_3L_1L_3R_Lg_m + C_4L_1L_LR_3g_m + C_4L_1L_LR_2g_m\right) + s^2\left(C_3L_1R_3R_Lg_m + L_1L_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + L_1L_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + L_1L_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_4L_1L_LR_3g_m + C_4L_1L_1R_3g_m + C_4L_$$

10.135 INVALID-ORDER-135 $Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3C_LL_1L_3L_LR_2g_ms^5 + C_3C_LL_1L_LR_3R_Lg_ms^4 + C_3L_1R_3R_Lg_ms^4 + C_3L_1R_3R_Lg_ms^4 + C_4L_1L_LR_2g_m)}{C_3C_LL_1L_3L_Lg_ms^5 + s^4\left(C_3C_LL_1L_3R_Lg_m + C_3C_LL_1L_LR_3g_m + C_3C_LL_1L_LR_2g_m + C_3C_LL_1L_RR_2g_m + C_3C_LL_1L_RR_2g_m + C_3C_LL_1R_3R_Lg_m + C_$$

10.136 INVALID-ORDER-136 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)$ $H(s) = \frac{L_1 L_3 R_3 R_L g_m s^2}{C_3 L_1 L_3 R_3 R_L g_m s^3 + R_3 R_L + s^2 \left(C_3 L_3 R_3 R_L + L_1 L_3 R_3 g_m + L_1 L_3 R_L g_m \right) + s \left(L_1 R_3 R_L g_m + L_3 R_3 + L_3 R_L \right)}$ 10.137 INVALID-ORDER-137 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_{Ls}}\right)$ $H(s) = \frac{L_1 L_3 R_3 g_m s^2}{R_3 + s^3 (C_3 L_1 L_3 R_3 g_m + C_L L_1 L_3 R_3 g_m) + s^2 (C_3 L_3 R_3 + C_L L_3 R_3 + L_1 L_3 g_m) + s (L_1 R_3 g_m + L_3)}$ **10.138** INVALID-ORDER-138 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{L_{1}L_{3}R_{3}R_{L}g_{m}s^{2}}{R_{3}R_{L} + s^{3}\left(C_{3}L_{1}L_{3}R_{3}R_{L}g_{m} + C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{3}L_{3}R_{3}R_{L} + C_{L}L_{3}R_{3}g_{m} + L_{1}L_{3}R_{3}g_{m} + L_{1}L_{3}R_{L}g_{m}\right) + s\left(L_{1}R_{3}R_{L}g_{m} + L_{3}R_{3} + L_{3}R_{L}\right)}$ **10.139** INVALID-ORDER-139 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}s^{3} + L_{1}L_{3}R_{3}g_{m}s^{2}}{C_{3}C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}s^{4} + R_{3} + s^{3}\left(C_{3}C_{L}L_{3}R_{3}R_{L} + C_{3}L_{1}L_{3}R_{3}g_{m} + C_{L}L_{1}L_{3}R_{L}g_{m}\right) + s^{2}\left(C_{3}L_{3}R_{3} + C_{L}L_{1}R_{3}R_{L}g_{m} + C_{L}L_{3}R_{3} + C_{L}L_{3$ **10.140** INVALID-ORDER-140 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ 10.141 INVALID-ORDER-141 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{L_{1}L_{3}L_{L}R_{3}g_{m}s^{2}}{L_{3}R_{3} + L_{L}R_{3} + s^{3}\left(C_{3}L_{1}L_{3}L_{L}R_{3}g_{m} + C_{L}L_{1}L_{3}L_{L}R_{3}g_{m}\right) + s^{2}\left(C_{3}L_{3}L_{L}R_{3} + C_{L}L_{3}L_{L}R_{3} + L_{1}L_{3}L_{L}g_{m}\right) + s\left(L_{1}L_{3}R_{3}g_{m} + L_{1}L_{L}R_{3}g_{m} + L_{3}L_{L}\right)}$ **10.142** INVALID-ORDER-142 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L L_1 L_3 L_L R_3 g_m s^4 + C_L L_1 L_3 R_3 R_L g_m s^3 + L_1 L_3 R_3 g_m s^2}{C_3 C_L L_1 L_3 L_L R_3 g_m s^5 + R_3 + s^4 \left(C_3 C_L L_1 L_3 R_3 R_L g_m + C_3 C_L L_3 L_L R_3 + C_L L_1 L_3 L_L g_m\right) + s^3 \left(C_3 C_L L_3 R_3 R_L + C_3 L_1 L_3 R_3 g_m + C_L L_1 L_2 R_3 g_m + C_L L_1 L_2 R_3 g_m + C_L L_3 L_L\right) + s^2 \left(C_3 L_3 R_3 + C_L L_1 R_3 R_L g_m + C_L L_3 R_3 R_L + C_L L_2 R_2 R_L + C_L L_2 R_3 R_L + C_L L_2 R_2 R_L + C_L L_$ **10.143** INVALID-ORDER-143 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{L_{1}L_{3}L_{L}R_{3}R_{L}g_{m}s^{2}}{L_{3}R_{3}R_{L} + L_{L}R_{3}R_{L} + s^{3}\left(C_{3}L_{1}L_{3}L_{L}R_{3}R_{L}g_{m} + C_{L}L_{1}L_{3}L_{L}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{3}L_{3}L_{L}R_{3}R_{L} + C_{L}L_{3}L_{L}R_{3}g_{m} + L_{1}L_{3}L_{L}R_{3}g_{m} + L_{1}L_{3}L_{L}R_{3}g_{m} + L_{1}L_{3}L_{L}R_{3}g_{m} + L_{1}L_{3}L_{L}R_{3}g_{m} + L_{1}L_{2}R_{3}R_{L}g_{m} + L_{2}L_{2}R_{3}R_{L}g_{m} + L_{2}L_{2}R_{2}R_{2}g_{m} + L_{2}L_{2}R_{2}g_{m} + L_$ 10.144 INVALID-ORDER-144 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_L L_1 L_3 L_L R_3 R_L g_m s^4 + L_1 L_3 L_L R_3 g_m s^3 + L_1 L_3 R_3 R_L g_m s^2}{C_3 C_L L_1 L_3 L_L R_3 R_L g_m s^5 + R_3 R_L + s^4 \left(C_3 C_L L_3 L_L R_3 R_L + C_3 L_1 L_3 L_L R_3 g_m + C_L L_1 L_3 L_L R_3 g_m + C_L L_1 L_2 L_2 R_3 R_L g_m + C_L L_3 L_L R_3 R_L$

 $\frac{C_{L}L_{1}L_{3}L_{L}R_{3}R_{L}g_{m}s^{4} + L_{1}L_{3}R_{3}R_{L}g_{m}s^{2}}{C_{3}C_{L}L_{1}L_{3}L_{L}R_{3}R_{L} + c_{L}L_{1}L_{3}L_{L}R_{3}g_{m} + C_{L}L_{1}L_{3}L_{L}R_{3}g_{m} + C_{L}L_{1}L_{3}R_{3}R_{L}g_{m} + C_{L}L_{1}L_{2}R_{3}R_{L}g_{m} + C_{L}L_{3}L_{L}R_{3} + C_{$

10.145 INVALID-ORDER-145 $Z(s) = \left(L_1 s, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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10.146 INVALID-ORDER-146 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                            H(s) = \frac{C_3L_1L_3R_3R_Lg_ms^3 + L_1L_3R_Lg_ms^2 + L_1R_3R_Lg_ms}{R_3 + R_L + s^3\left(C_3L_1L_3R_3g_m + C_3L_1L_3R_Lg_m\right) + s^2\left(C_3L_3R_3 + C_3L_3R_L + L_1L_3g_m\right) + s\left(L_1R_3g_m + L_1R_Lg_m + L_3\right)}
10.147 INVALID-ORDER-147 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                              H(s) = \frac{C_3L_1L_3R_3g_ms^3 + L_1L_3g_ms^2 + L_1R_3g_ms}{C_3C_LL_1R_3g_ms^4 + s^3\left(C_3C_LL_3R_3 + C_3L_1L_3g_m + C_LL_1L_3g_m\right) + s^2\left(C_3L_3 + C_LL_1R_3g_m + C_LL_3\right) + s\left(C_LR_3 + L_1g_m\right) + 1}
10.148 INVALID-ORDER-148 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                           H(s) = \frac{C_3L_1L_3R_3R_Lg_ms^3 + L_1L_3R_Lg_ms^2 + L_1R_3R_Lg_ms}{C_3C_LL_1L_3R_3R_Lg_ms^4 + R_3 + R_L + s^3\left(C_3C_LL_3R_3R_L + C_3L_1L_3R_3g_m + C_LL_1L_3R_Lg_m\right) + s^2\left(C_3L_3R_3 + C_LL_1R_3R_Lg_m + C_LL_3R_L + L_1L_3g_m\right) + s\left(C_LR_3R_L + L_1R_3g_m + L_1R_Lg_m + L_3R_Lg_m\right) + s^2\left(C_3L_3R_3R_L + C_LL_3R_L + L_1L_3g_m\right) + s\left(C_LR_3R_L + L_1R_3g_m + L_1R_Lg_m + L_3R_Lg_m\right) + s\left(C_LR_3R_L + L_1R_3g_m + C_LL_3R_Lg_m\right) + s\left(C_LR_3R_L + L_1R_3g_m + L_1R_Lg_m + L_2R_Lg_m\right) + s\left(C_LR_3R_L + L_1R_3g_m + L_2R_Lg_m\right) + s\left(C_LR_3R_L + L_2R_Lg_m\right) + s\left(C_LR_3R_
10.149 INVALID-ORDER-149 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                             H(s) = \frac{C_3C_LL_1L_3R_3R_Lg_ms^4 + L_1R_3g_ms + s^3\left(C_3L_1L_3R_3g_m + C_LL_1L_3R_Lg_m\right) + s^2\left(C_LL_1R_3R_Lg_m + L_1L_3g_m\right)}{s^4\left(C_3C_LL_1L_3R_3g_m + C_3C_LL_1L_3R_Lg_m\right) + s^3\left(C_3C_LL_3R_3 + C_3C_LL_3R_3 + C_
10.150 INVALID-ORDER-150 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                          H(s) = \frac{C_3C_LL_1L_3L_LR_3g_ms^5 + C_LL_1L_3L_Lg_ms^4 + L_1L_3g_ms^2 + L_1R_3g_ms + s^3\left(C_3L_1L_3R_3g_m + C_LL_1L_LR_3g_m\right)}{C_3C_LL_1L_3L_Lg_ms^5 + s^4\left(C_3C_LL_1L_3R_3g_m + C_3C_LL_3L_L\right) + s^3\left(C_3C_LL_3R_3 + C_3L_1L_3g_m + C_LL_1L_2g_m\right) + s^2\left(C_3L_3 + C_LL_1R_3g_m + C_LL_3 + C_LL_3\right) + s^2\left(C_3L_3L_3L_3 + C_3L_3L_3\right) + s^3\left(C_3L_3L_3L_3 + C_3L_3L_3\right) + s^3\left(C_3L_3L_3L_3\right) + s^3\left(
10.151 INVALID-ORDER-151 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                       H(s) = \frac{C_3L_1L_3L_LR_3g_ms^4 + L_1L_3L_Lg_ms^3 + L_1L_LR_3g_ms^2}{C_3C_LL_1L_3L_LR_3g_ms^5 + R_3 + s^4\left(C_3C_LL_3L_LR_3 + C_3L_1L_3L_Lg_m + C_LL_1L_3L_Lg_m\right) + s^3\left(C_3L_1L_3R_3g_m + C_3L_3L_L + C_LL_1L_LR_3g_m + C_LL_3L_L\right) + s^2\left(C_3L_3R_3 + C_LL_LR_3 + L_1L_3g_m + L_1L_Lg_m\right) + s\left(L_1R_3g_m + L_3L_L\right)}
10.152 INVALID-ORDER-152 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
             10.153 INVALID-ORDER-153 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.154 INVALID-ORDER-154 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.155 INVALID-ORDER-155 Z(s) = \left(L_1 s, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
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 $\overline{R_3 + R_L + s^5 \left(C_3 C_L L_1 L_3 L_L R_3 g_m + C_3 L_L L_1 L_3 R_L g_m + C_4 L_1 L_3 R_L g_m + C_4 L_1 L_3 R_L g_m + C_4 L_1 L_4 R_3 g_m + C_4 L_4 L_4 R_3 g_m + C_4 L_4 L_4 R_3 g_m + C_4 L_4 L_4 R_4 g_m + C_4 R_4 g_m + C_4 R_4 R_4$

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

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H(s) = \frac{C_3L_1L_3R_3R_Lg_ms^3 + L_1R_3R_Lg_ms}{R_3 + R_L + s^3\left(C_3L_1L_3R_3g_m + C_3L_1L_3R_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_3R_3 + C_3L_3R_L\right) + s\left(C_3R_3R_L + L_1R_3g_m + L_1R_Lg_m\right)}
10.157 INVALID-ORDER-157 Z(s) = \left(L_1 s, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                               H(s) = \frac{C_3L_1L_3R_3g_ms^3 + L_1R_3g_ms}{C_3C_LL_1L_3R_3g_ms^4 + s^3\left(C_3C_LL_3R_3 + C_3L_1L_3g_m\right) + s^2\left(C_3L_1R_3g_m + C_3L_3 + C_LL_1R_3g_m\right) + s\left(C_3R_3 + C_LR_3 + L_1g_m\right) + 1}
10.158 INVALID-ORDER-158 Z(s) = \left(L_1 s, \infty, \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                   H(s) = \frac{C_3L_1L_3R_3R_Lg_ms^3 + L_1R_3R_Lg_ms}{C_3C_LL_1L_3R_3R_Lg_ms^4 + R_3 + R_L + s^3\left(C_3C_LL_3R_3R_L + C_3L_1L_3R_3g_m + C_3L_1L_3R_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_3R_3 + C_3L_3R_3 + C_3L_3R_Lg_m\right) + s\left(C_3R_3R_L + C_LR_3R_L + L_1R_3g_m + L_1R_Lg_m\right)}
10.159 INVALID-ORDER-159 Z(s) = \left(L_1 s, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                   H(s) = \frac{C_3C_LL_1L_3R_3R_Lg_ms^4 + C_3L_1L_3R_3g_ms^3 + C_LL_1R_3R_Lg_ms^2 + L_1R_3g_ms}{s^4\left(C_3C_LL_1L_3R_3g_m + C_3C_LL_1L_3R_Lg_m\right) + s^3\left(C_3C_LL_1R_3R_Lg_m + C_3C_LL_3R_3 + C_3C
10.160 INVALID-ORDER-160 Z(s) = \left(L_1 s, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                H(s) = \frac{C_3C_LL_1L_3L_LR_3g_ms^5 + L_1R_3g_ms + s^3\left(C_3L_1L_3R_3g_m + C_LL_1L_LR_3g_m\right)}{C_3C_LL_1L_3L_Lg_ms^5 + s^4\left(C_3C_LL_1L_3R_3g_m + C_3C_LL_1L_LR_3g_m + C_3C_LL_2R_3 + C_3C_LL
10.161 INVALID-ORDER-161 Z(s) = \left(L_1 s, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                              H(s) = \frac{C_3L_1L_3L_LR_3g_ms^4 + L_1L_LR_3g_ms^2}{C_3C_LL_1L_3L_LR_3g_ms^5 + R_3 + s^4\left(C_3C_LL_3L_LR_3 + C_3L_1L_3L_Lg_m\right) + s^3\left(C_3L_1L_3R_3g_m + C_3L_1L_LR_3g_m + C_3L_1L_LR_3g_m\right) + s^2\left(C_3L_3R_3 + C_3L_LR_3 + C_4L_LR_3 + L_1L_Lg_m\right) + s\left(L_1R_3g_m + L_1L_LR_3g_m + C_3L_1L_LR_3g_m\right) + s^2\left(C_3L_3R_3 + C_3L_LR_3 + C_4L_LR_3 + L_1L_Lg_m\right) + s\left(L_1R_3g_m + L_1L_LR_3g_m\right) + s^2\left(C_3L_3R_3 + C_3L_LR_3 + C_4L_LR_3 + L_1L_Lg_m\right) + s\left(C_3L_3R_3 + C_3L_LR_3 + C_4L_LR_3 + L_1L_Lg_m\right) + s\left(C_3L_3R_3 + C_3L_LR_3 + C_4L_LR_3 + C_4L_L
10.162 INVALID-ORDER-162 Z(s) = \left(L_1 s, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_3C_LL_1L_3R_3g_ms^5 + C_3C_LL_1L_3R_3g_ms^4 + C_LL_1R_3g_ms^4 + C_LL_1R_3g_ms^4 + C_LL_1L_2R_3g_ms^4 + C_LL_1L_2R_3g_ms^5 + S^3\left(C_3L_1L_3R_3g_m + C_LL_1L_LR_3g_m + C_3L_1L_2R_3g_m + C_3L_1L_2R_3g_m + C_3L_1L_3R_3g_m + C_3L_3R_3g_m +
10.163 INVALID-ORDER-163 Z(s) = \left(L_1 s, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_3L_1L_3L_LR_3R_Lg_ms^4 + L_1L_LR_3R_Lg_ms^2}{C_3C_LL_1L_3L_LR_3R_Lg_ms^5 + R_3R_L + s^4\left(C_3C_LL_3L_LR_3R_L + C_3L_1L_3L_LR_3g_m + C_3L_1L_3R_Lg_m\right) + s^3\left(C_3L_1L_3R_Lg_m + C_3L_3L_LR_3 + C_3L_3L_1R_3 +
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 $H(s) = \frac{C_3C_LL_1L_3L_LR_3g_ms^5 + C_3L_1L_3L_LR_3g_ms^4 + L_1L_LR_3g_ms^2 + L_1R_3R_Lg_ms + s^3\left(C_3L_1L_3R_3R_Lg_m + C_LL_1L_LR_3R_Lg_m\right)}{R_3 + R_L + s^5\left(C_3C_LL_1L_3L_LR_3g_m + C_3L_LL_3L_LR_3g_m + C_3L_3L_LR_3g_m + C_3L_3L_3L_RR_3g_m + C_3L_3L_3L_3R_3g_m + C_3L_3L_3R_3g_m + C_3L_3L_3R_3g_m + C_3L_3L_3R_3g_m + C_3L_3L_3R_3g_m + C_3L_3L_3R_3g_m + C_3L_3L_3R_3g_m + C_3L_3L_3R_3g$

10.156 INVALID-ORDER-156 $Z(s) = \left(L_1 s, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L\right)$

10.164 INVALID-ORDER-164 $Z(s) = \left(L_1 s, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

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10.165 INVALID-ORDER-165
$$Z(s) = \left(L_1 s, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{C_3C_LL_1L_3L_LR_3R_Lg_ms^5 + L_1R_3R_Lg_ms + s^3\left(C_3L_1L_3R_3R_Lg_m + C_LL_1L_LR_3R_Lg_m\right)}{R_3 + R_L + s^5\left(C_3C_LL_1L_3L_LR_3g_m + C_3C_LL_1L_3L_LR_3g_m + C_3C_LL_1L_2R_3g_m + C_3C_LL_3L_LR_3 + C_3C_LL_3L_LR_3 + C_3C_LL_3L_LR_3 + C_3C_LL_3L_LR_3R_Lg_m + C_3C_LL_3L_3R_3R_Lg_m + C$

10.166 INVALID-ORDER-166 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, R_L\right)$

$$H(s) = \frac{R_3 R_L g_m}{R_3 g_m + R_L g_m + s \left(C_1 R_3 + C_1 R_L \right)}$$

10.167 INVALID-ORDER-167 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_L R_3 g_m s^2 + R_3 g_m}{C_1 C_L L_L s^3 + g_m + s^2 \left(C_1 C_L R_3 + C_L L_L g_m \right) + s \left(C_1 + C_L R_3 g_m \right)}$$

10.168 INVALID-ORDER-168 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L R_3 g_m s}{C_1 C_L L_L R_3 s^3 + R_3 g_m + s^2 \left(C_1 L_L + C_L L_L R_3 g_m \right) + s \left(C_1 R_3 + L_L g_m \right)}$$

10.169 INVALID-ORDER-169 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_L R_3 g_m s^2 + C_L R_3 R_L g_m s + R_3 g_m}{C_1 C_L L_L s^3 + g_m + s^2 \left(C_1 C_L R_3 + C_1 C_L R_L + C_L L_L g_m \right) + s \left(C_1 + C_L R_3 g_m + C_L R_L g_m \right)}$$

10.170 INVALID-ORDER-170 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{L_L R_3 R_L g_m s}{C_1 C_L L_L R_3 R_L s^3 + R_3 R_L g_m + s^2 \left(C_1 L_L R_3 + C_1 L_L R_L + C_L L_L R_3 R_L g_m \right) + s \left(C_1 R_3 R_L + L_L R_3 g_m + L_L R_L g_m \right)}$$

10.171 INVALID-ORDER-171 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_L L_L R_3 R_L g_m s^2 + L_L R_3 g_m s + R_3 R_L g_m}{R_3 g_m + R_L g_m + s^3 \left(C_1 C_L L_L R_3 + C_1 C_L L_L R_L \right) + s^2 \left(C_1 L_L + C_L L_L R_3 g_m + C_L L_L R_L g_m \right) + s \left(C_1 R_3 + C_1 R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + C_1 R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + L_L R_L + L_L R_L + L_L R_L \right) + s \left(C_1 R_1 + L_L R_L +$$

10.172 INVALID-ORDER-172 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_L L_L R_3 R_L g_m s^2 + R_3 R_L g_m}{R_3 g_m + R_L g_m + s^3 \left(C_1 C_L L_L R_3 + C_1 C_L L_L R_L \right) + s^2 \left(C_1 C_L R_3 R_L + C_L L_L R_3 g_m + C_L L_L R_L g_m \right) + s \left(C_1 R_3 + C_1 R_L + C_L R_3 R_L g_m \right)}$$

10.173 INVALID-ORDER-173 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{g_m}{s^2 (C_1 C_3 + C_1 C_L) + s (C_3 g_m + C_L g_m)}$$

10.174 INVALID-ORDER-174 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L R_L g_m s + g_m}{C_1 C_3 C_L R_L s^3 + s^2 \left(C_1 C_3 + C_1 C_L + C_3 C_L R_L g_m \right) + s \left(C_3 g_m + C_L g_m \right)}$$

10.175 INVALID-ORDER-175
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L g_m s^2 + g_m}{C_1 C_3 C_L L_L s^4 + C_3 C_L L_L g_m s^3 + s^2 (C_1 C_3 + C_1 C_L) + s (C_3 g_m + C_L g_m)}$$

10.176 INVALID-ORDER-176
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

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

10.177 INVALID-ORDER-177
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L g_m s^2 + C_L R_L g_m s + g_m}{C_1 C_3 C_L L_L s^4 + s^3 \left(C_1 C_3 C_L R_L + C_3 C_L L_L g_m \right) + s^2 \left(C_1 C_3 + C_1 C_L + C_3 C_L R_L g_m \right) + s \left(C_3 g_m + C_L g_m \right)}$$

10.178 INVALID-ORDER-178
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.179 INVALID-ORDER-179
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_L R_L g_m s^2 + L_L g_m s + R_L g_m}{C_1 C_3 C_L L_L R_L s^4 + g_m + s^3 \left(C_1 C_3 L_L + C_1 C_L L_L + C_3 C_L L_L R_L g_m \right) + s^2 \left(C_1 C_3 R_L + C_3 L_L g_m + C_L L_L g_m \right) + s \left(C_1 + C_3 R_L g_m \right)}$$

10.180 INVALID-ORDER-180
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_L L_L R_L g_m s^2 + R_L g_m}{C_1 C_3 C_L L_L R_L s^4 + g_m + s^3 \left(C_1 C_L L_L + C_3 C_L L_L R_L g_m \right) + s^2 \left(C_1 C_3 R_L + C_1 C_L R_L + C_L L_L g_m \right) + s \left(C_1 + C_3 R_L g_m + C_L R_L g_m \right)}$$

10.181 INVALID-ORDER-181
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L R_3 R_L g_m s + R_3 g_m}{C_1 C_3 C_L R_3 R_L s^3 + g_m + s^2 \left(C_1 C_3 R_3 + C_1 C_L R_3 + C_1 C_L R_L + C_3 C_L R_3 R_L g_m\right) + s \left(C_1 + C_3 R_3 g_m + C_L R_3 g_m + C_L R_L g_m\right)}$$

10.182 INVALID-ORDER-182
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_3 g_m s^2 + R_3 g_m}{C_1 C_3 C_L L_L R_3 s^4 + g_m + s^3 \left(C_1 C_L L_L + C_3 C_L L_L R_3 g_m \right) + s^2 \left(C_1 C_3 R_3 + C_1 C_L R_3 + C_L L_L g_m \right) + s \left(C_1 + C_3 R_3 g_m + C_L R_3 g_m \right)}$$

10.183 INVALID-ORDER-183
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L R_3 g_m s}{R_3 g_m + s^3 \left(C_1 C_3 L_L R_3 + C_1 C_L L_L R_3 \right) + s^2 \left(C_1 L_L + C_3 L_L R_3 g_m + C_L L_L R_3 g_m \right) + s \left(C_1 R_3 + L_L g_m \right)}$$

10.184 INVALID-ORDER-184
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_3 g_m s^2 + C_L R_3 R_L g_m s + R_3 g_m}{C_1 C_3 C_L L_L R_3 s^4 + g_m + s^3 \left(C_1 C_3 C_L R_3 R_L + C_1 C_L L_L + C_3 C_L L_L R_3 g_m\right) + s^2 \left(C_1 C_3 R_3 + C_1 C_L R_3 + C_1 C_L R_3 + C_1 C_L R_3 + C_1 C_L R_3 R_L g_m + C_L L_L g_m\right) + s \left(C_1 + C_3 R_3 g_m + C_L R_3 g_m + C_L R_2 g_m\right)}$$

10.185 INVALID-ORDER-185
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.186 INVALID-ORDER-186 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_L L_L R_3 R_L g_m s^2 + L_L R_3 g_m s + R_3 R_L g_m}{C_1 C_3 C_L L_L R_3 R_L s^4 + R_3 g_m + R_L g_m + s^3 \left(C_1 C_3 L_L R_3 + C_1 C_L L_L R_3 + C_1 C_L L_L R_3 R_L g_m \right) + s^2 \left(C_1 C_3 R_3 R_L + C_1 L_L + C_3 L_L R_3 g_m + C_L L_L R_3 g_m + C_L L_L R_2 g_m \right) + s \left(C_1 R_3 + C_1 R_L + C_3 R_3 R_L g_m + L_L g_m \right)}$$

10.187 INVALID-ORDER-187 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_L L_L R_3 R_L g_m s^2 + R_3 R_L g_m}{C_1 C_3 C_L L_L R_3 R_L s^4 + R_3 g_m + R_L g_m + s^3 \left(C_1 C_L L_L R_3 + C_1 C_L L_L R_1 + C_3 C_L L_L R_3 R_L g_m \right) + s^2 \left(C_1 C_3 R_3 R_L + C_1 C_L R_3 g_m + C_L L_L R_3 g_m + C_L L_L R_2 g_m \right) + s \left(C_1 R_3 + C_1 R_1 + C_2 R_3 R_L g_m \right) + s \left(C_1 R_3 R_L g_m + C_2 R_3 R_L g_m + C_2 R_3 R_L g_m \right) + s \left(C_1 R_3 R_L g_m + C_2 R_3 R_L g_m + C_2 R_3 R_L g_m \right) + s \left(C_1 R_3 R_L g_m + C_2 R_3 R_L g_m + C_2 R_3 R_L g_m \right) + s \left(C_1 R_3 R_L g_m + C_2 R_3 R_L g_m + C_2 R_3 R_L g_m \right) + s \left(C_1 R_3 R_L g_m + C_2 R_3 R_L g_m + C_2 R_3 R_L g_m \right) + s \left(C_1 R_3 R_L g_m + C_2 R_3 R_L g_m + C_2 R_3 R_L g_m \right) + s \left(C_1 R_3 R_L g_m + C_2 R_3 R_L g_m + C_2 R_3 R_L g_m \right) + s \left(C_1 R_3 R_L g_m + C_2 R_3 R_L g$$

10.188 INVALID-ORDER-188 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3 R_3 g_m s + g_m}{C_1 C_3 C_L R_3 s^3 + s^2 \left(C_1 C_3 + C_1 C_L + C_3 C_L R_3 g_m\right) + s \left(C_3 g_m + C_L g_m\right)}$$

10.189 INVALID-ORDER-189 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3 R_3 R_L g_m s + R_L g_m}{C_1 C_3 C_L R_3 R_L s^3 + g_m + s^2 \left(C_1 C_3 R_3 + C_1 C_3 R_L + C_1 C_L R_L + C_3 C_L R_3 R_L g_m \right) + s \left(C_1 + C_3 R_3 g_m + C_3 R_L g_m + C_L R_L g_m \right)}$$

10.190 INVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3 C_L R_3 R_L g_m s^2 + g_m + s \left(C_3 R_3 g_m + C_L R_L g_m \right)}{s^3 \left(C_1 C_3 C_L R_3 + C_1 C_3 C_L R_L \right) + s^2 \left(C_1 C_3 + C_1 C_L + C_2 C_L R_3 g_m + C_3 C_L R_L g_m \right) + s \left(C_3 g_m + C_L g_m \right)}$$

10.191 INVALID-ORDER-191 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3 C_L L_L R_3 g_m s^3 + C_3 R_3 g_m s + C_L L_L g_m s^2 + g_m}{C_1 C_3 C_L L_L s^4 + s^3 \left(C_1 C_3 C_L R_3 + C_3 C_L L_L g_m \right) + s^2 \left(C_1 C_3 + C_1 C_L + C_3 C_L R_3 g_m \right) + s \left(C_3 q_m + C_L g_m \right)}$$

10.192 INVALID-ORDER-192 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3 L_L R_3 g_m s^2 + L_L g_m s}{C_1 C_3 C_L L_L R_3 s^4 + g_m + s^3 \left(C_1 C_3 L_L + C_1 C_L L_L + C_3 C_L L_L R_3 g_m \right) + s^2 \left(C_1 C_3 R_3 + C_3 L_L g_m + C_L L_L g_m \right) + s \left(C_1 + C_3 R_3 g_m \right)}$$

10.193 INVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_LR_3g_ms^3 + g_m + s^2\left(C_3C_LR_3R_Lg_m + C_LL_Lg_m\right) + s\left(C_3R_3g_m + C_LR_Lg_m\right)}{C_1C_3C_LL_Ls^4 + s^3\left(C_1C_3C_LR_3 + C_1C_3C_LR_L + C_3C_LL_Lg_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_3g_m + C_3C_LR_Lg_m\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.194 INVALID-ORDER-194 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_3L_LR_3R_Lg_ms^2 + L_LR_Lg_ms}{C_1C_3C_LL_LR_3R_Ls^4 + R_Lg_m + s^3\left(C_1C_3L_LR_3 + C_1C_3L_LR_L + C_3C_LL_LR_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1L_L + C_3L_LR_3g_m + C_3L_LR_2g_m + C_LL_LR_Lg_m\right) + s\left(C_1R_L + C_3R_3R_Lg_m + L_Lg_m\right)}{C_1C_3C_LL_Rs^4 + R_Lg_m + s^3\left(C_1C_3L_LR_3 + C_1C_3L_LR_2 + C_3C_LL_Rs^2R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1L_L + C_3L_LR_3g_m + C_3L_LR_2g_m\right) + s\left(C_1R_L + C_3R_3R_Lg_m + L_Lg_m\right)}$$

10.195 INVALID-ORDER-195
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_3C_LL_R_3R_Lg_ms^3 + R_Lg_m + s^2\left(C_3L_LR_3g_m + C_LL_LR_Lg_m\right) + s\left(C_3R_3R_Lg_m + L_Lg_m\right)}{g_m + s^4\left(C_1C_3C_LL_LR_3 + C_1C_3C_LL_LR_L\right) + s^3\left(C_1C_3L_L + C_1C_LL_L + C_3C_LL_LR_3g_m + C_3C_LL_LR_Lg_m\right) + s^2\left(C_1C_3R_3 + C_1C_3R_L + C_3L_Lg_m\right) + s\left(C_1+C_3R_3g_m + C_3R_Lg_m\right)}$$

10.196 INVALID-ORDER-196
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_3C_LL_R_3R_Lg_ms^3 + C_3R_3R_Lg_ms + C_LL_LR_Lg_ms^2 + R_Lg_m}{g_m + s^4\left(C_1C_3C_LL_LR_3 + C_1C_3C_LL_LR_L\right) + s^3\left(C_1C_3C_LR_3R_L + C_1C_LL_L + C_3C_LL_LR_3g_m + C_3C_LL_LR_Lg_m\right) + s^2\left(C_1C_3R_3 + C_1C_3R_L + C_1C_LR_L + C_3C_LR_3R_Lg_m + C_LL_Lg_m\right) + s\left(C_1 + C_3R_3g_m + C_3R_Lg_m + C_LR_Lg_m\right) + s\left(C_1 + C_3R_2g_m + C_LR_Lg_m\right) + s\left(C_1 + C_2R_Lg_m\right) + s\left(C$$

10.197 INVALID-ORDER-197 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_3 L_3 R_L g_m s^2 + R_L g_m}{C_1 C_3 L_3 s^3 + g_m + s^2 \left(C_1 C_3 R_L + C_3 L_3 g_m \right) + s \left(C_1 + C_3 R_L g_m \right)}$$

10.198 INVALID-ORDER-198 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3 L_3 g_m s^2 + g_m}{C_1 C_3 C_L L_3 s^4 + C_3 C_L L_3 g_m s^3 + s^2 (C_1 C_3 + C_1 C_L) + s (C_3 g_m + C_L g_m)}$$

10.199 INVALID-ORDER-199 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3L_3R_Lg_ms^2 + R_Lg_m}{C_1C_3C_LL_3R_Ls^4 + g_m + s^3\left(C_1C_3L_3 + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_3L_3g_m\right) + s\left(C_1 + C_3R_Lg_m + C_LR_Lg_m\right)}$$

10.200 INVALID-ORDER-200 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_3R_Lg_ms^3 + C_3L_3g_ms^2 + C_LR_Lg_ms + g_m}{C_1C_3C_LL_3s^4 + s^3\left(C_1C_3C_LR_L + C_3C_LL_3g_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_Lg_m\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.201 INVALID-ORDER-201 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_3L_Lg_ms^4 + g_m + s^2\left(C_3L_3g_m + C_LL_Lg_m\right)}{s^4\left(C_1C_3C_LL_3 + C_1C_3C_LL_L\right) + s^3\left(C_3C_LL_3g_m + C_3C_LL_Lg_m\right) + s^2\left(C_1C_3 + C_1C_L\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.202 INVALID-ORDER-202 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3L_3L_Lg_ms^3 + L_Lg_ms}{C_1C_3C_LL_3L_Ls^5 + C_1s + C_3C_LL_3L_Lg_ms^4 + g_m + s^3\left(C_1C_3L_3 + C_1C_3L_L + C_1C_LL_L\right) + s^2\left(C_3L_3g_m + C_3L_Lg_m + C_LL_Lg_m\right)}$$

10.203 INVALID-ORDER-203 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3R_Lg_ms^3 + C_LR_Lg_ms + g_m + s^2\left(C_3L_3g_m + C_LL_Lg_m\right)}{s^4\left(C_1C_3C_LL_3 + C_1C_3C_LL_L\right) + s^3\left(C_1C_3C_LR_L + C_3C_LL_3g_m + C_3C_LL_Lg_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_Lg_m\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.204 INVALID-ORDER-204
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.205 INVALID-ORDER-205
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_3C_LL_3L_LR_Lg_ms^4 + C_3L_3L_Lg_ms^3 + L_Lg_ms + R_Lg_m + s^2\left(C_3L_3R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_3C_LL_3L_Ls^5 + g_m + s^4\left(C_1C_3C_LL_LR_L + C_3C_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_3 + C_1C_3L_L + C_1C_LL_L + C_3C_LL_LR_Lg_m\right) + s^2\left(C_1C_3R_L + C_3L_3g_m + C_3L_Lg_m + C_4L_Lg_m\right) + s^2\left(C_1C_3R_L + C_3L_Lg_m\right) + s^2\left(C_1C_3R_L + C_3L_$$

10.206 INVALID-ORDER-206
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_3C_LL_3L_LR_Lg_ms^4 + R_Lg_m + s^2\left(C_3L_3R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_3C_LL_3L_Ls^5 + g_m + s^4\left(C_1C_3C_LL_3R_L + C_1C_3C_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_3 + C_1C_LL_L + C_3C_LL_3R_Lg_m + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_3L_3g_m + C_LL_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_3L_3g_m + C_LL_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_3C_LL_3R_Lg_m + C_LR_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_3C_LR_Lg_m + C_LR_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_1C$$

10.207 INVALID-ORDER-207 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)$

$$H(s) = \frac{L_3 R_L g_m s}{C_1 C_3 L_3 R_L s^3 + R_L g_m + s^2 \left(C_1 L_3 + C_3 L_3 R_L g_m \right) + s \left(C_1 R_L + L_3 g_m \right)}$$

10.208 INVALID-ORDER-208 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{L_3 g_m s}{C_1 s + g_m + s^3 (C_1 C_3 L_3 + C_1 C_L L_3) + s^2 (C_3 L_3 g_m + C_L L_3 g_m)}$$

10.209 INVALID-ORDER-209 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{L_3 R_L g_m s}{R_L g_m + s^3 \left(C_1 C_3 L_3 R_L + C_1 C_L L_3 R_L \right) + s^2 \left(C_1 L_3 + C_3 L_3 R_L g_m + C_L L_3 R_L g_m \right) + s \left(C_1 R_L + L_3 g_m \right)}$$

10.210 INVALID-ORDER-210 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.211 INVALID-ORDER-211 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_3 L_L g_m s^3 + L_3 g_m s}{C_1 C_3 C_L L_3 L_L s^5 + C_1 s + C_3 C_L L_3 L_L g_m s^4 + g_m + s^3 \left(C_1 C_3 L_3 + C_1 C_L L_3 + C_1 C_L L_L \right) + s^2 \left(C_3 L_3 g_m + C_L L_3 g_m + C_L L_2 g_m \right)}$$

10.212 INVALID-ORDER-212 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_3 L_L g_m s}{L_3 g_m + L_L g_m + s^3 \left(C_1 C_3 L_3 L_L + C_1 C_L L_3 L_L \right) + s^2 \left(C_3 L_3 L_L g_m + C_L L_3 L_L g_m \right) + s \left(C_1 L_3 + C_1 L_L \right)}$$

10.213 INVALID-ORDER-213 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

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

10.214 INVALID-ORDER-214
$$Z(s) = \begin{pmatrix} \frac{1}{4}, & & \frac{1}{4} & \frac{1}{4}$$

 $H(s) = \frac{C_3C_LL_3L_Lg_ms^4 + g_m + s^3\left(C_3C_LL_3R_Lg_m + C_3C_LL_LR_3g_m\right) + s^2\left(C_3C_LR_3R_Lg_m + C_3L_3g_m + C_LL_Lg_m\right) + s\left(C_3R_3g_m + C_LR_Lg_m\right)}{s^4\left(C_1C_3C_LL_3 + C_1C_3C_LL_L\right) + s^3\left(C_1C_3C_LR_3 + C_1C_3C_LR_L + C_3C_LL_3g_m + C_3C_LL_Lg_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_3g_m + C_3C_LR_Lg_m\right) + s\left(C_3R_3g_m + C_2R_Lg_m\right) + s\left(C_3R_3g_m + C_3R_Lg_m\right) + s\left(C_3R_3g_m + C_3$

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10.224 INVALID-ORDER-224 Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_3L_3L_LR_Lg_ms^3 + C_3L_LR_3g_ms^2 + L_LR_Lg_ms}{C_1C_3C_LL_3L_LR_Ls^5 + R_Lg_m + s^4\left(C_1C_3C_LL_LR_3R_L + C_1C_3L_LR_Lg_m\right) + s^3\left(C_1C_3L_3R_L + C_1C_3L_LR_3 + C_1C_3L_LR_L + C_3C_LL_LR_3R_Lg_m + C_3L_LR_3g_m + C_3L
10.225 INVALID-ORDER-225 Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                 H(s) = \frac{C_3C_LL_3L_LR_Lg_ms^4 + R_Lg_m + s^3\left(C_3C_LL_LR_3R_Lg_m + C_3L_3L_Lg_m\right) + s^2\left(C_3L_3R_Lg_m + C_LL_LR_2g_m\right) + s\left(C_3R_3R_Lg_m + L_Lg_m\right)}{C_1C_3C_LL_3L_Ls^5 + g_m + s^4\left(C_1C_3C_LL_LR_3 + C_1C_3L_LR_L + C_3C_LL_LR_3 + C_1C_3L_L + C_3C_LL_LR_3g_m + C_3C_LL_LR_3g_m + C_3C_LL_LR_3g_m + C_3C_LL_RR_2g_m\right) + s^2\left(C_1C_3R_3 + C_1C_3R_L + C_3L_LR_3g_m + C_3L
10.226 INVALID-ORDER-226 Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_3C_LL_3L_LR_2g_ms^4 + C_3C_LL_LR_3R_Lg_ms^3 + C_3R_3R_Lg_ms + R_Lg_m + s^2\left(C_3L_3R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_3C_LL_3L_Ls^5 + g_m + s^4\left(C_1C_3C_LL_3R_L + C_1C_3C_LL_2R_L + C_3C_LL_3R_Lg_m\right) + s^3\left(C_1C_3C_LR_3R_L + C_1C_3L_LR_2g_m\right) + s^3\left(C_1C_3C_LL_3R_Lg_m + C_3C_LL_2R_2g_m\right) + s^3\left(C_1C_3C_LL_3R_Lg_m + C_3C_LL_3R_Lg_m\right) + s
10.227 INVALID-ORDER-227 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                      H(s) = \frac{L_3 R_3 R_L g_m s}{C_1 C_3 L_3 R_3 R_L s^3 + R_3 R_L q_m + s^2 (C_1 L_3 R_3 + C_1 L_3 R_L + C_3 L_3 R_3 R_L q_m) + s (C_1 R_3 R_L + L_3 R_3 q_m + L_3 R_L q_m)}
10.228 INVALID-ORDER-228 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_{3s}^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                            H(s) = \frac{L_3 R_3 g_m s}{R_3 g_m + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_L L_3 R_3\right) + s^2 \left(C_1 L_3 + C_3 L_3 R_3 g_m + C_L L_3 R_3 g_m\right) + s \left(C_1 R_3 + L_3 g_m\right)}
10.229 INVALID-ORDER-229 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                              H(s) = \frac{L_{3}R_{3}R_{L}g_{m}s}{R_{3}R_{L}g_{m} + s^{3}\left(C_{1}C_{3}L_{3}R_{3}R_{L} + C_{1}C_{L}L_{3}R_{3}R_{L}\right) + s^{2}\left(C_{1}L_{3}R_{3} + C_{1}L_{3}R_{L} + C_{3}L_{3}R_{3}R_{L}g_{m} + C_{L}L_{3}R_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{3}R_{L} + L_{3}R_{3}g_{m} + L_{3}R_{L}g_{m}\right)}
10.230 INVALID-ORDER-230 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                         H(s) = \frac{C_L L_3 R_3 R_L g_m s^2 + L_3 R_3 g_m s}{C_1 C_3 C_L L_3 R_3 R_L s^4 + R_3 g_m + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_L L_3 R_3 + C_1 C_L L_3 R_L + C_3 C_L L_3 R_3 R_L g_m\right) + s^2 \left(C_1 C_L R_3 R_L + C_1 L_3 + C_3 L_3 R_3 g_m + C_L L_3 R_3 g_m + C_L L_3 R_2 g_m\right) + s \left(C_1 R_3 + C_L R_3 R_L g_m + L_3 g_m\right)}
10.231 INVALID-ORDER-231 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
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$$H(s) = \frac{C_L L_3 L_L R_3 g_m s^3 + L_3 R_3 g_m s}{C_1 C_3 C_L L_3 L_L R_3 s^5 + R_3 g_m + s^4 \left(C_1 C_L L_3 L_L + C_3 C_L L_3 L_L R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_L L_3 R_3 + C_1 C_L L_L R_3 + C_L L_3 L_L g_m\right) + s^2 \left(C_1 L_3 + C_3 L_3 R_3 g_m + C_L L_3 R_3 g_m + C_L L_1 R_3 g_m\right) + s \left(C_1 R_3 + L_3 g_m\right) + s \left(C_1 R_3 + L_3 R_3 g_m + C_2 L_3 R_3 g_m + C_2 L_3 R_3 g_m + C_2 L_3 R_3 g_m\right) + s \left(C_1 R_3 + L_3 R_$$

10.232 INVALID-ORDER-232
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_3 L_L R_3 g_m s}{L_3 R_3 g_m + L_L R_3 g_m + s^3 \left(C_1 C_3 L_3 L_L R_3 + C_1 C_L L_3 L_L R_3\right) + s^2 \left(C_1 L_3 L_L R_3 g_m + C_L L_3 L_L R_3 g_m\right) + s \left(C_1 L_3 R_3 + C_1 L_L R_3 + L_3 L_L g_m\right)}$$

10.233 INVALID-ORDER-233
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_3 L_L R_3 g_m s^3 + C_L L_3 R_3 R_L g_m s^2 + L_3 R_3 g_m s}{C_1 C_3 C_L L_3 L_L R_3 s^5 + R_3 g_m + s^4 \left(C_1 C_3 C_L L_3 R_3 R_L + C_1 C_L L_3 L_L + C_3 C_L L_3 L_L R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_L L_3 R_3 + C_1 C_L L_3 R_3 + C_1 C_L L_3 R_3 R_L + C_1 C_L L_3 R_1 R_L + C_1 C_L$$

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10.234 INVALID-ORDER-234 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                 H(s) = \frac{L_3L_LR_3R_Lg_ms}{L_3R_3R_Lg_m + L_LR_3R_Lg_m + s^3\left(C_1C_3L_3L_LR_3R_L + C_1C_LL_3L_LR_3R_L\right) + s^2\left(C_1L_3L_LR_3 + C_1L_3L_LR_3R_Lg_m + C_LL_3L_LR_3R_Lg_m\right) + s\left(C_1L_3R_3R_L + C_1L_LR_3R_L + C_3L_LR_3R_L + C_3L_LR_3R_L\right) + s^2\left(C_1L_3L_LR_3 + C_1L_3L_LR_3R_L + C_3L_3L_LR_3R_L + C_3L_3L_LR_3R_L\right) + s^2\left(C_1L_3L_LR_3 + C_3L_3L_LR_3R_L + C_3L_3L_LR_3R_L\right) + s^2\left(C_1L_3L_LR_3 + C_3L_3L_LR_3R_L\right) + s^2\left(C_3L_3L_LR_3R_L + C_3L_3L_LR_3R_L\right) + s^2\left(C_3L_3L_LR_3R_L + C_3L_3L_LR_3R_L\right) + s^2\left(C_3L_3L_LR_3R_L\right) +
10.235 INVALID-ORDER-235 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                               \frac{C_{L}L_{3}L_{L}R_{3}R_{L}g_{m}s^{3}+L_{3}L_{L}R_{3}g_{m}s^{2}+L_{3}R_{3}R_{L}g_{m}s}{C_{1}C_{3}C_{L}L_{3}L_{L}R_{3}+C_{1}C_{L}L_{3}L_{L}R_{3}+C_{1}C_{L}L_{3}L_{L}R_{3}+C_{1}C_{L}L_{3}L_{L}R_{3}+C_{1}C_{L}L_{3}L_{L}R_{3}R_{L}g_{m})+s^{3}\left(C_{1}C_{3}L_{3}L_{L}R_{3}R_{L}+C_{1}L_{L}L_{L}R_{3}R_{L}+C_{1}L_{L}L_{L}R_{3}R_{L}+C_{1}L_{L}L_{L}R_{3}R_{L}+C_{1}L_{L}L_{L}R_{3}R_{L}+C_{1}L_{L}L_{L}R_{3}R_{L}+C_{1}L_{L}L_{L}R_{3}R_{L}+C_{1}L_{L}L_{L}R_{2}R_{L}+C_{1}L_{L}L_{L}R_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}R_{L}+C_{1}L_{L}R_{L}+C_{1}L_{L}R_{L}+C_{1}L_{L}L_{L}R_{L}+C_{1}L_{L}R_{L}+C
10.236 INVALID-ORDER-236 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_3 L_L R_3 R_L g_m s^3 + L_3 R_3 R_L g_m s}{C_1 C_3 C_L L_3 L_L R_3 R_L s^5 + R_3 R_L g_m + s^4 \left(C_1 C_L L_3 L_L R_3 + C_1 C_L L_3 L_L R_3 R_L g_m\right) + s^3 \left(C_1 C_3 L_3 R_3 R_L + C_1 C_L L_4 R_4 R_4 + C_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_L L_3 L_L R_3 R_L g_m s^3 + L_3 R_3 R_L g_m s
10.237 INVALID-ORDER-237 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                                                                                                         H(s) = \frac{C_3L_3R_3R_Lg_ms^2 + L_3R_Lg_ms + R_3R_Lg_m}{R_3g_m + R_Lg_m + s^3\left(C_1C_3L_3R_3 + C_1C_3L_3R_L\right) + s^2\left(C_1L_3 + C_3L_3R_3g_m + C_3L_3R_Lg_m\right) + s\left(C_1R_3 + C_1R_L + L_3g_m\right)}
10.238 INVALID-ORDER-238 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                  H(s) = \frac{C_3L_3R_3g_ms^2 + L_3g_ms + R_3g_m}{C_1C_3C_LL_3R_3s^4 + g_m + s^3\left(C_1C_3L_3 + C_1C_LL_3 + C_3C_LL_3R_3g_m\right) + s^2\left(C_1C_LR_3 + C_3L_3g_m + C_LL_3g_m\right) + s\left(C_1 + C_LR_3g_m\right)}
10.239 INVALID-ORDER-239 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                           H(s) = \frac{C_3L_3R_3R_Lg_ms^2 + L_3R_Lg_ms + R_3R_Lg_m}{C_1C_3C_LL_3R_3R_Ls^4 + R_3g_m + R_Lg_m + s^3\left(C_1C_3L_3R_3 + C_1C_3L_3R_L + C_1C_LL_3R_L + C_3C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_LR_3R_L + C_1L_3 + C_3L_3R_3g_m + C_3L_3R_2g_m + C_3L_3R_2g_m\right) + s\left(C_1R_3 + C_1R_2 + C_1R_3R_Lg_m + C_2R_3R_Lg_m\right) + s\left(C_1R_3 + C_1R_3 + C_1R_2 + C_2R_3R_Lg_m\right) + s\left(C_1R_3 + C_1R_3 + C_2R_3R_Lg_m\right) + s\left(C_1R_3 + C_2R_3R_Lg_m\right) + s\left(C_1R_
10.240 INVALID-ORDER-240 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                            H(s) = \frac{C_3C_LL_3R_3R_Lg_ms^3 + R_3g_m + s^2\left(C_3L_3R_3g_m + C_LL_3R_Lg_m\right) + s\left(C_LR_3R_Lg_m + L_3g_m\right)}{g_m + s^4\left(C_1C_3C_LL_3R_3 + C_1C_3C_LL_3R_L\right) + s^3\left(C_1C_3L_3 + C_3C_LL_3R_3g_m + C_3C_LL_3R_2g_m\right) + s^2\left(C_1C_LR_3 + C_1C_LR_L + C_3L_3g_m\right) + s\left(C_1 + C_LR_3g_m + C_LR_Lg_m\right)}
10.241 INVALID-ORDER-241 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                         H(s) = \frac{C_3C_LL_3L_LR_3g_ms^4 + C_LL_3L_Lg_ms^3 + L_3g_ms + R_3g_m + s^2\left(C_3L_3R_3g_m + C_LL_LR_3g_m\right)}{C_1C_3C_LL_3L_Ls^5 + g_m + s^4\left(C_1C_3C_LL_3R_3 + C_3C_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_3 + C_1C_LL_3 + C_1C_LL_3 + C_3C_LL_3R_3g_m\right) + s^2\left(C_1C_LR_3 + C_3L_3g_m + C_LL_3g_m + C_LL_3g_m\right) + s\left(C_1C_LR_3g_m\right) + s\left(C_1C_LR_3
10.242 INVALID-ORDER-242 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                     H(s) = \frac{C_3L_3L_LR_3g_ms^3 + L_3L_Lg_ms^2 + L_LR_3g_ms}{C_1C_3C_LL_3L_LR_3s^5 + R_3g_m + s^4\left(C_1C_3L_3L_L + C_3C_LL_3L_LR_3g_m\right) + s^3\left(C_1C_3L_3R_3 + C_1C_LL_LR_3 + C_3L_3L_Lg_m\right) + s^2\left(C_1L_3 + C_1L_L + C_3L_3R_3g_m + C_LL_LR_3g_m\right) + s\left(C_1R_3 + L_3g_m + C_2L_3L_LR_3g_m\right) + s^2\left(C_1L_3 + C_1L_L + C_3L_3R_3g_m + C_2L_LR_3g_m\right) + s^2\left(C_1L_3 + C_2L_LR_3g_m\right) + s^2
10.243 INVALID-ORDER-243 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
                                                                           \frac{C_{3}C_{L}L_{3}L_{L}R_{3}g_{m}s^{4}+R_{3}g_{m}+s^{3}\left(C_{3}C_{L}L_{3}R_{3}R_{L}g_{m}+C_{L}L_{3}L_{L}g_{m}\right)+s^{2}\left(C_{3}L_{3}R_{3}g_{m}+C_{L}L_{3}R_{L}g_{m}+C_{L}L_{L}R_{3}g_{m}\right)+s\left(C_{L}R_{3}R_{L}g_{m}+L_{3}g_{m}\right)}{C_{1}C_{3}C_{L}L_{3}L_{L}s^{5}+g_{m}+s^{4}\left(C_{1}C_{3}C_{L}L_{3}R_{L}+C_{3}C_{L}L_{3}L_{L}g_{m}\right)+s^{3}\left(C_{1}C_{3}L_{3}+C_{1}C_{L}L_{4}+C_{3}C_{L}L_{3}R_{3}g_{m}+C_{2}L_{3}R_{2}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{3}+C_{1}C_{L}L_{2}+C_{3}L_{2}R_{2}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{3}+C_{1}C_{L}L_{2}+C_{3}L_{2}R_{2}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{3}+C_{1}C_{L}L_{2}+C_{3}L_{2}R_{2}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{3}+C_{1}C_{L}L_{2}+C_{2}L_{2}R_{2}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{3}+C_{1}C_{L}L_{2}+C_{2}L_{2}R_{2}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{3}+C_{1}C_{L}L_{2}+C_{2}L_{2}R_{2}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{3}+C_{1}C_{L}L_{2}+C_{2}L_{2}R_{2}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{3}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}R_{2}+C_{1}C_{L}L_{2}+C_{1}C_{L}L_{2}+C_{1}C_{L}L_{2}+C_{1}C_{L}L_{2}+C_{1}C_{L}L_{2}+C_{1}C_{L}L_{2}+C_{1}C_{L}L_{2}+C_{1}C_{L}L_{2}+C_{1}C_{L}L_{2}+C_{1}C_{
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10.244 INVALID-ORDER-244 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.245 INVALID-ORDER-245 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_3C_LL_3L_LR_3R_Lg_m + s^3\left(C_3L_3L_LR_3g_m + C_LL_3L_LR_Lg_m\right) + s^2\left(C_3L_3R_3R_Lg_m + C_LL_LR_3R_Lg_m + L_3L_Lg_m\right) + s\left(L_3R_Lg_m + L_LR_3g_m\right)}{R_3g_m + R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_3 + C_1C_3L_3L_LR_1\right) + s^4\left(C_1C_3L_3L_LR_1\right) + s^4\left(C_1C_3L_3L_LR_3g_m + C_3L_3L_LR_3g_m + C_3L_3L_LR_3g_m\right) + s^3\left(C_3L_3L_LR_3g_m + C_3L_3L_LR_3g_m + C_3L_3L_LR_3g_m\right) + s^3\left(C_3L_3L_LR_3g_m + C_3L_3L_LR_3g_m + C_3L_3L_LR_3g_m + C_3L_3L_LR_3g_m\right) + s^3\left(C_3L_3L_LR_3g_m + C_3L_3L_LR_3g_m\right) + s^3\left(C_3L_3L_3L_RR_3g_m + C_3L_3L_RR_3g_m\right) + s^3\left(C_3L_3L_RR_3g_m + C_3L_
10.246 INVALID-ORDER-246 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_3C_LL_3L_LR_3R_Lg_ms^4 + C_LL_3L_LR_Lg_ms^3 + L_3R_Lg_ms + R_3R_Lg_m + s^2\left(C_3L_3R_3R_Lg_m + C_LL_LR_3R_Lg_m\right)}{R_3g_m + R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_3 + C_1C_3L_3L_LR_3 + C_1C_3L_3L_LR_3 + C_1C_3L_3R_L + C_1C_LL_3R_L + C_3C_LL_3L_LR_3 + C_1C_3L_3R_3 + C_3C_3L_3R_3 + C_3C_3L
10.247 INVALID-ORDER-247 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                                                                               H(s) = \frac{{{C_3}{L_3}{R_3}{R_L}{g_m}{s^2} + {R_3}{R_L}{g_m}}}{{{R_3}{g_m} + {R_L}{g_m} + {s^3}\left( {{C_1}{C_3}{L_3}{R_3} + {C_1}{C_3}{L_3}{R_L}} \right) + {s^2}\left( {{C_1}{C_3}{R_3}{R_L} + {C_3}{L_3}{R_3}{g_m} + {C_3}{L_3}{R_L}{g_m}} \right) + s\left( {{C_1}{R_3} + {C_1}{R_L} + {C_3}{R_3}{R_L}{g_m}} \right)} + s\left( {{C_1}{R_3} + {C_1}{R_L} + {C_3}{R_3}{R_L}{g_m}} \right) + s\left( {{C_1}{R_3} + {C_1}{R_L} + {C_3}{R_3}{R_L}{g_m}} \right) + s\left( {{C_1}{R_3} + {C_1}{R_3} + {C_1}{R_2} + {C_2}{R_3}{R_L}{g_m}} \right) + s\left( {{C_1}{R_3} + {C_1}{R_3} + {C_2}{R_3}{R_L}{g_m}} \right) + s\left( {{C_1}{R_3} + {C_2}{R_3}{R_L}{g_m}} \right) + s\left( {{C_1}{R_3} + {C_2}{R_3}{R_L}{g_m}} \right) + s\left( {{C_1}{R_3} + {C_2}{R_3}{R_L}{g_m}} \right) + s\left( {{C_2}{R_3} + {C_2}{R_
10.248 INVALID-ORDER-248 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                            H(s) = \frac{C_3L_3R_3g_ms^2 + R_3g_m}{C_1C_3C_LL_3R_3s^4 + g_m + s^3\left(C_1C_3L_3 + C_3C_LL_3R_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_3L_3g_m\right) + s\left(C_1 + C_3R_3g_m + C_LR_3g_m\right)}
10.249 INVALID-ORDER-249 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                 H(s) = \frac{C_3L_3R_3R_Lg_ms^2 + R_3R_Lg_m}{C_1C_3C_LL_3R_3R_Ls^4 + R_3g_m + R_Lg_m + s^3\left(C_1C_3L_3R_3 + C_1C_3L_3R_3R_L + C_3C_LL_3R_3R_L + C_1C_LR_3R_L + C_3L_3R_3g_m + C_3L_3R_3g_m + s^2C_1R_3 + C_1R_3C_LR_3R_Lg_m\right) + s\left(C_1R_3 + C_1R_4 + C_3R_3R_Lg_m + C_2R_3R_Lg_m\right) + s\left(C_1R_3 + C_1R_3R_Lg_m + C_2R_3R_Lg_m\right) + s\left(C_1R_3 + C_2R_3R_Lg_m + C_2R_3R_Lg_m\right) + s\left(C_1R_3 + C_2R_3R
10.250 INVALID-ORDER-250 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                        H(s) = \frac{C_3C_LL_3R_3R_Lg_ms^3 + C_3L_3R_3g_ms^2 + C_LR_3R_Lg_ms + R_3g_m}{g_m + s^4\left(C_1C_3C_LL_3R_3 + C_1C_3C_LL_3R_L\right) + s^3\left(C_1C_3C_LR_3R_L + C_1C_3L_3 + C_3C_LL_3R_3g_m + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_L
10.251 INVALID-ORDER-251 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                    H(s) = \frac{C_3C_LL_3L_LR_3g_ms^4 + R_3g_m + s^2\left(C_3L_3R_3g_m + C_LL_LR_3g_m\right)}{C_1C_3C_LL_3L_Ls^5 + g_m + s^4\left(C_1C_3C_LL_3R_3 + C_1C_3C_LL_3R_3 + C_1C_LL_L + C_3C_LL_3R_3g_m + C_3C_LL_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_3L_3g_m + C_LL_2g_m\right) + s\left(C_1C_3R_3 + C_1C_LR_3 + C_3C_LL_3R_3g_m + C_2C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_3C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_3C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_3C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3g_m\right) + s^2\left(C_1C_3R_3g_m\right) + s^2\left(C_1C_3R_3g_m\right)
10.252 INVALID-ORDER-252 Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                            H(s) = \frac{C_3L_3L_LR_3g_ms^3 + L_LR_3g_ms}{C_1C_3C_LL_3L_LR_3s^5 + R_3g_m + s^4\left(C_1C_3L_3L_L + C_3C_LL_3L_LR_3g_m\right) + s^3\left(C_1C_3L_3R_3 + C_1C_LL_LR_3 + C_3L_LL_R + C_3L_3L_Lg_m\right) + s^2\left(C_1L_L + C_3L_3R_3g_m + C_3L_LR_3g_m\right) + s\left(C_1R_3 + L_Lg_m\right)}{c_1C_3C_LL_3L_LR_3s^5 + R_3g_m + s^4\left(C_1C_3L_3L_L + C_3C_LL_3L_LR_3g_m\right) + s^3\left(C_1C_3L_3R_3 + C_1C_LL_LR_3 + C_3L_LR_3g_m\right) + s^2\left(C_1L_L + C_3L_3R_3g_m + C_3L_LR_3g_m\right) + s^2\left(C_1L_L + C_3L_3R_3g_m\right) + s^2\left(C_1L_L + C_3L_3R_3g_m\right) + s^2\left(C_1L_1 + C_3L_
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10.256 INVALID-ORDER-256
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_3C_LL_3L_LR_3R_Lg_m s^4 + R_3R_Lg_m + s^2\left(C_3L_3R_3R_Lg_m + C_LL_LR_3R_Lg_m\right)}{R_3g_m + R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_3 + C_1C_3L_LL_3L_LR_3 + C_1C_3L_LL_3L_LR_3 + C_1C_3L_LL_3L_LR_3 + C_1C_3L_LL_3L_LR_3 + C_1C_3L_LL_3L_LR_3 + C_1C_3L_LL_3R_3R_L + C_3C_LL_3R_3R_L + C$$

10.257 INVALID-ORDER-257
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3, \infty, \infty, R_L\right)$$

$$H(s) = \frac{R_1 R_3 R_L g_m}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s \left(C_1 R_1 R_3 + C_1 R_1 R_L\right)}$$

10.258 INVALID-ORDER-258
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 g_m s^2 + R_1 R_3 g_m}{C_1 C_L L_L R_1 s^3 + R_1 g_m + s^2 \left(C_1 C_L R_1 R_3 + C_L L_L R_1 g_m + C_L L_L \right) + s \left(C_1 R_1 + C_L R_1 R_3 g_m + C_L R_3 \right) + 1}$$

10.259 INVALID-ORDER-259
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L R_1 R_3 g_m s}{C_1 C_L L_L R_1 R_3 s^3 + R_1 R_3 g_m + R_3 + s^2 \left(C_1 L_L R_1 + C_L L_L R_1 R_3 g_m + C_L L_L R_3 \right) + s \left(C_1 R_1 R_3 + L_L R_1 g_m + L_L \right)}$$

10.260 INVALID-ORDER-260
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_3 g_m s^2 + C_L R_1 R_3 R_L g_m s + R_1 R_3 g_m}{C_1 C_L L_L R_1 s^3 + R_1 g_m + s^2 \left(C_1 C_L R_1 R_3 + C_1 C_L R_1 R_L + C_L L_L R_1 g_m + C_L L_L\right) + s \left(C_1 R_1 + C_L R_1 R_3 g_m + C_L R_1 R_L g_m + C_L R_3 + C_L R_L\right) + 1}$$

10.261 INVALID-ORDER-261
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_L R_1 R_3 R_L g_m s}{C_1 C_L L_L R_1 R_3 R_L s^3 + R_1 R_3 R_L g_m + R_3 R_L + s^2 \left(C_1 L_L R_1 R_3 + C_1 L_L R_1 R_1 R_1 R_2 + C_L L_L R_1 R_3 R_L g_m + C_L L_L R_3 R_L \right) + s \left(C_1 R_1 R_3 R_L + L_L R_1 R_3 g_m + L_L R_1 R_2 g_m + L_L R_3 + L_L R_L \right)}$$

10.262 INVALID-ORDER-202
$$Z(s) = \begin{pmatrix} c_{ij}^{(L)}c_{ij}^{(L)} > c_{ij}^{(L)}c_{$$

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10.272 INVALID-ORDER-272 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                   10.273 INVALID-ORDER-273 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                               10.274 INVALID-ORDER-274 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                          H(s) = \frac{L_L R_1 R_3 g_m s}{R_1 R_3 g_m + R_3 + s^3 \left( C_1 C_3 L_L R_1 R_3 + C_1 C_L L_L R_1 R_3 \right) + s^2 \left( C_1 L_L R_1 + C_3 L_L R_1 R_3 g_m + C_3 L_L R_3 + C_L L_L R_1 R_3 g_m + C_L L_L R_3 \right) + s \left( C_1 R_1 R_3 + L_L R_1 g_m + L_L \right)}{R_1 R_3 g_m + R_3 + s^3 \left( C_1 C_3 L_L R_1 R_3 + C_1 C_L L_L R_1 R_3 \right) + s \left( C_1 R_1 R_3 + L_L R_1 g_m + L_L \right)}
10.275 INVALID-ORDER-275 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                       \frac{C_{L}L_{L}R_{1}R_{3}g_{m}s^{2}+C_{L}R_{1}R_{3}g_{m}s+R_{1}R_{3}g_{m}}{C_{1}C_{3}C_{L}L_{L}R_{1}R_{3}R_{L}+C_{1}C_{L}L_{L}R_{1}+C_{3}C_{L}L_{L}R_{3}g_{m}+C_{3}C_{L}L_{L}R_{3})+s^{2}\left(C_{1}C_{3}R_{1}R_{3}+C_{1}C_{L}R_{1}R_{3}+C_{1}C_{L}R_{1}R_{3}R_{L}+C_{L}L_{L}R_{1}g_{m}+C_{L}L_{L}\right)+s\left(C_{1}R_{1}+C_{3}R_{1}R_{3}g_{m}+C_{3}R_{1}R_{3}g_{m}+C_{L}R_{1}R_{3}g_{m}+C_{L}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R
10.276 INVALID-ORDER-276 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                              10.277 INVALID-ORDER-277 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_2 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_L L_L R_1 R_3 R_L g_m s^2 + L_L R_1 R_3 g_m s + R_1 R_3 R_L g_m
H(s) = \frac{C_L L_L R_1 R_3 R_L g_m s^2 + L_L R_1 R_3 g_m s + R_1 R_3 R_L g_m}{C_1 C_3 C_L L_L R_1 R_3 R_L s^4 + R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^3 \left(C_1 C_3 L_L R_1 R_3 + C_1 L_L R_1 R_1 + C_3 C_L L_L R_1 R_3 R_L g_m + C_3 L_L R_1 R_3 R_L + C_1 L_L R_1 R_3 g_m + C_3 L_L R_1 R_3 g_m + C_4 L_L R_1 R_
10.278 INVALID-ORDER-278 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_L R_1 R_3 R_L g_m s^2 + R_1 R_3 R_L g_m}{C_1 C_3 C_L L_L R_1 R_3 R_L s^4 + R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^3 \left( C_1 C_L L_L R_1 R_3 + C_1 C_L L_L R_1 R_3 R_L g_m + C_3 C_L L_L R_3 R_L \right) + s^2 \left( C_1 C_3 R_1 R_3 R_L + C_1 C_L R_1 R_3 g_m + C_L L_L R_1 R_3 g_m + C_L R_1 R
10.279 INVALID-ORDER-279 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                               H(s) = \frac{C_3 R_1 R_3 g_m s + R_1 g_m}{C_1 C_3 C_L R_1 R_3 s^3 + s^2 \left( C_1 C_3 R_1 + C_1 C_L R_1 + C_3 C_L R_1 R_3 q_m + C_3 C_L R_3 \right) + s \left( C_3 R_1 q_m + C_3 + C_L R_1 q_m + C_L \right)}
10.280 INVALID-ORDER-280 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                    H(s) = \frac{C_{3}R_{1}R_{3}R_{L}g_{m}s + R_{1}R_{L}g_{m}}{C_{1}C_{3}C_{L}R_{1}R_{3}R_{L}s^{3} + R_{1}g_{m} + s^{2}\left(C_{1}C_{3}R_{1}R_{3} + C_{1}C_{3}R_{1}R_{L} + C_{1}C_{L}R_{1}R_{L} + C_{3}C_{L}R_{3}R_{L}g_{m} + C_{3}C_{L}R_{3}R_{L}\right) + s\left(C_{1}R_{1} + C_{3}R_{1}R_{3}g_{m} + C_{3}R_{1}R_{L}g_{m} + C_{3}R_{3} + C_{3}R_{L} + C_{L}R_{1}R_{L}g_{m} + C_{L}R_{L}\right) + 1}
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 $H(s) = \frac{C_3C_LR_1R_3R_Lg_ms^2 + R_1g_m + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m\right)}{s^3\left(C_1C_3C_LR_1R_3 + C_1C_3C_LR_1R_L\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_3g_m + C_3C_LR_1R_Lg_m + C_3C_LR_3 + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3C_LR_1R_2g_m + C_3C_LR_1R_2g_m + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3C_LR_1R_2g_m + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3C_LR_1R_2g_m + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3C_LR$

10.281 INVALID-ORDER-281 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

10.283 INVALID-ORDER-283 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3L_LR_1R_3g_ms^2 + L_LR_1g_ms}{C_1C_3C_LL_LR_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_LR_1 + C_1C_LL_LR_1 + C_3C_LL_LR_1R_3g_m + C_3C_LL_LR_3\right) + s^2\left(C_1C_3R_1R_3 + C_3L_LR_1g_m + C_3L_L + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3\right) + 1}$$

10.284 INVALID-ORDER-284 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3C_LL_LR_1R_3g_ms^3 + R_1g_m + s^2\left(C_3C_LR_1R_3R_Lg_m + C_LL_LR_1g_m\right) + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m\right)}{C_1C_3C_LL_LR_1s^4 + s^3\left(C_1C_3C_LR_1R_3 + C_1C_3C_LR_1R_L + C_3C_LL_RR_1g_m + C_3C_LL_L\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_3g_m + C_3C_LR_1R_Lg_m + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3C_LR_1R_2g_m + C_3C_LR_1$$

10.285 INVALID-ORDER-285 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

10.286 INVALID-ORDER-286 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_3C_LL_R_1R_3R_Lg_ms^3 + R_1R_Lg_m + s^2\left(C_3L_LR_1R_3g_m + C_LL_LR_1R_Lg_m\right) + s\left(C_3R_1R_3R_Lg_m + L_LR_1g_m\right)}{R_1g_m + s^4\left(C_1C_3C_LL_R_1R_3 + C_1C_3C_LL_R_1R_L\right) + s^3\left(C_1C_3L_LR_1 + C_3C_LL_R_1R_2g_m + C_3C_LL_R_1R_Lg_m + C_3C_LL_R_1R_2g_m + C_3C$$

10.287 INVALID-ORDER-287 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3C_LL_R1R_3R_Lg_ms^3 + C_3R_1R_3R_Lg_ms + C_LL_LR_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^4\left(C_1C_3C_LL_R1R_3 + C_1C_3C_LL_R1R_L\right) + s^3\left(C_1C_3C_LR_1R_3R_L + C_1C_LL_R1R_1g_m + C_3C_LL_R1R_Lg_m + C_3C_LL_R1R_L\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_L + C_1C_LR_1R_Lg_m + C_3C_LL_R1R_Lg_m + C_3$$

10.288 INVALID-ORDER-288 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_3L_3R_1R_Lg_ms^2 + R_1R_Lg_m}{C_1C_3L_3R_1s^3 + R_1g_m + s^2\left(C_1C_3R_1R_L + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_3R_1R_Lg_m + C_3R_L\right) + 1}$$

10.289 INVALID-ORDER-289 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_3L_3R_1g_ms^2 + R_1g_m}{C_1C_3C_LL_3R_1s^4 + s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}$$

10.290 INVALID-ORDER-290 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_3L_3R_1R_Lg_ms^2 + R_1R_Lg_m}{C_1C_3C_LL_3R_1R_Ls^4 + R_1g_m + s^3\left(C_1C_3L_3R_1 + C_3C_LL_3R_1R_Lg_m + C_3C_LL_3R_1\right) + s^2\left(C_1C_3R_1R_L + C_1C_LR_1R_L + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_3R_1R_Lg_m + C_3R_L + C_LR_1R_Lg_m + C_LR_L\right) + 1}$$

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10.291 INVALID-ORDER-291 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                 H(s) = \frac{C_3C_LL_3R_1R_Lg_ms^3 + C_3L_3R_1g_ms^2 + C_LR_1R_Lg_ms + R_1g_m}{C_1C_3C_LL_3R_1s^4 + s^3\left(C_1C_3C_LR_1R_L + C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_Lg_m + C_3C_LR_L\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3C_LR_1\right) + s\left(C_3R_1
10.292 INVALID-ORDER-292 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                             H(s) = \frac{C_3C_LL_3L_LR_1g_ms^4 + R_1g_m + s^2\left(C_3L_3R_1g_m + C_LL_LR_1g_m\right)}{s^4\left(C_1C_3C_LL_3R_1 + C_1C_3C_LL_LR_1\right) + s^3\left(C_3C_LL_3R_1g_m + C_3C_LL_3 + C_3C_LL_LR_1g_m + C_3C_LL_L\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_3C_LL_R\right)}
10.293 INVALID-ORDER-293 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                   H(s) = \frac{C_3L_3L_LR_1g_ms^3 + L_LR_1g_ms}{C_1C_3C_LL_3L_LR_1s^5 + C_1R_1s + R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_L\right) + s^3\left(C_1C_3L_3R_1 + C_1C_3L_LR_1\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + C_3L_LR_1g_m + C_3L_L + C_LL_RR_1g_m + C_LL_L\right) + 1}{c_1C_3C_LL_3L_LR_1s^5 + C_1R_1s + R_1g_m + s^4\left(C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_L\right) + s^3\left(C_1C_3L_3R_1 + C_1C_3L_LR_1\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + C_3L_RR_1g_m + C_3L_LR_1g_m + C_3L_LR_1g_m + C_3L_LR_1g_m\right) + c_3C_LR_1g_m + c_3C_LR_
10.294 INVALID-ORDER-294 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                            H(s) = \frac{C_3C_LL_3L_LR_1g_ms^4 + C_3C_LL_3R_1R_Lg_ms^3 + C_LR_1R_Lg_ms + R_1g_m + s^2\left(C_3L_3R_1g_m + C_LL_LR_1g_m\right)}{s^4\left(C_1C_3C_LL_3R_1 + C_1C_3C_LL_LR_1\right) + s^3\left(C_1C_3C_LR_1R_L + C_3C_LL_3R_1g_m + C_3C_LL_LR_1g_m + C_3C_LL_L\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_Lg_m + C_3C_LR_1\right) + s\left(C_3R_1g_m + C_3C_1R_1\right) + s\left(C_3R_1g_m + C_3C_1R_1\right) + s\left(C_3R_1g_m + C_3C_1R_1\right) + s\left(C_3R_1
10.295 INVALID-ORDER-295 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.296 INVALID-ORDER-296 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                      \frac{C_{3}C_{L}L_{3}L_{L}R_{1}g_{m}s^{4}+C_{3}L_{2}L_{R}g_{m}s^{3}+L_{L}R_{1}g_{m}s^{3}+L_{L}R_{1}g_{m}+s^{2}\left(C_{3}L_{3}R_{1}R_{L}g_{m}+C_{L}L_{L}R_{1}R_{L}g_{m}\right)}{C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}s^{5}+R_{1}g_{m}+s^{4}\left(C_{1}C_{3}C_{L}L_{L}R_{1}R_{L}+C_{3}C_{L}L_{3}L_{L}R_{1}g_{m}+C_{3}C_{L}L_{3}L_{L}\right)+s^{3}\left(C_{1}C_{3}L_{2}R_{1}+C_{1}C_{L}L_{R}+C_{3}C_{L}L_{R}R_{L}+C_{3}C_{L}L_{R}R_{
10.297 INVALID-ORDER-297 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_3C_LL_3L_LR_1R_Lg_ms^4 + R_1R_Lg_m + s^2\left(C_3L_3R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{C_1C_3C_LL_3L_LR_1s^5 + R_1g_m + s^4\left(C_1C_3C_LL_3R_1R_L + C_1C_3C_LL_3L_LR_1g_m + C_3C_LL_3R_1 + C_1C_LL_RR_1 + C_3C_LL_3R_1R_Lg_m + C_3C_LL_3R_1R_
10.298 INVALID-ORDER-298 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                                           H(s) = \frac{L_3 R_1 R_L g_m s}{C_1 C_3 L_3 R_1 R_L s^3 + R_1 R_L g_m + R_L + s^2 \left( C_1 L_3 R_1 + C_3 L_3 R_1 R_L g_m + C_3 L_3 R_L \right) + s \left( C_1 R_1 R_L + L_3 R_1 g_m + L_3 \right)}
10.299 INVALID-ORDER-299 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                 H(s) = \frac{L_3 R_1 g_m s}{C_1 R_1 s + R_1 g_m + s^3 \left( C_1 C_3 L_3 R_1 + C_1 C_L L_3 R_1 \right) + s^2 \left( C_3 L_3 R_1 g_m + C_3 L_3 + C_L L_3 R_1 g_m + C_L L_3 \right) + 1}
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 $H(s) = \frac{L_{3}R_{1}R_{L}g_{m}s}{R_{1}R_{L}g_{m} + R_{L} + s^{3}\left(C_{1}C_{3}L_{3}R_{1}R_{L} + C_{1}C_{L}L_{3}R_{1}R_{L}\right) + s^{2}\left(C_{1}L_{3}R_{1} + C_{3}L_{3}R_{1}R_{L}g_{m} + C_{3}L_{3}R_{L} + C_{L}L_{3}R_{1}R_{L}g_{m} + C_{L}L_{3}R_{L}\right) + s\left(C_{1}R_{1}R_{L} + L_{3}R_{1}g_{m} + L_{3}\right)}$

10.300 INVALID-ORDER-300 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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10.301 INVALID-ORDER-301 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                             H(s) = \frac{C_L L_3 R_1 R_L g_m s^2 + L_3 R_1 g_m s}{C_1 C_3 C_L L_3 R_1 R_L s^4 + R_1 g_m + s^3 \left(C_1 C_3 L_3 R_1 + C_1 C_L L_3 R_1 + C_3 C_L L_3 R_1 R_L g_m + C_3 C_L L_3 R_1 \right) + s^2 \left(C_1 C_L R_1 R_L + C_3 L_3 R_1 g_m + C_2 L_3 R_1 g_m + C_L L_3\right) + s \left(C_1 R_1 + C_L R_1 R_L g_m + C_L R_L\right) + 1}
10.302 INVALID-ORDER-302 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                           H(s) = \frac{C_L L_3 L_L R_1 g_m s^3 + L_3 R_1 g_m s}{C_1 C_3 C_L L_3 L_L R_1 s^5 + C_1 R_1 s + R_1 g_m + s^4 \left( C_3 C_L L_3 L_L R_1 g_m + C_3 C_L L_3 L_L \right) + s^3 \left( C_1 C_3 L_3 R_1 + C_1 C_L L_2 R_1 \right) + s^2 \left( C_3 L_3 R_1 g_m + C_3 L_3 + C_L L_3 R_1 g_m + C_L L_3 + C_L L_2 R_1 g_m + C_L L_2 \right) + 1 \left( C_3 C_L L_3 L_L R_1 g_m + C_3 L_3 L_2 R_1 g_m + C_3 L_3 L_3 R_1 g_m + C_3 L_3 L_3 R_1 g_m + C_3 L_3 R_1 g_m +
10.303 INVALID-ORDER-303 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                            H(s) = \frac{L_3L_LR_1g_ms}{L_3R_1g_m + L_3 + L_LR_1g_m + L_L + s^3\left(C_1C_3L_3L_LR_1 + C_1C_LL_3L_LR_1\right) + s^2\left(C_3L_3L_LR_1g_m + C_3L_3L_L + C_LL_3L_LR_1g_m + C_LL_3L_L\right) + s\left(C_1L_3R_1 + C_1L_LR_1\right)}
10.304 INVALID-ORDER-304 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
                                    \frac{C_{L}L_{3}L_{L}R_{1}g_{m}s^{3}+C_{L}L_{3}R_{1}R_{L}g_{m}s^{2}+L_{3}R_{1}g_{m}s}{C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}s^{5}+R_{1}g_{m}+s^{4}\left(C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}g_{m}+C_{3}C_{L}L_{3}L_{L}\right)+s^{3}\left(C_{1}C_{3}L_{3}R_{1}+C_{1}C_{L}L_{3}R_{1}+C_{1}C_{L}L_{3}R_{1}+C_{1}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}R_{1}+C_{2}C_{L}L_{3}
10.305 INVALID-ORDER-305 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                   H(s) = \frac{L_3L_LR_1R_Lg_ms}{L_3R_1R_Lg_m + L_3R_L + L_LR_1R_Lg_m + L_LR_L + s^3\left(C_1C_3L_3L_LR_1R_L + C_1C_LL_3L_LR_1R_L\right) + s^2\left(C_1L_3L_LR_1 + C_3L_3L_LR_1R_Lg_m + C_3L_3L_LR_1R_Lg_m + C_LL_3L_LR_1\right) + s\left(C_1L_3R_1R_L + C_1L_LR_1R_L + L_3L_LR_1g_m + L_3L_LR_1\right) + s^2\left(C_1L_3L_LR_1 + C_3L_3L_LR_1 + C_3L_3L_LR_1 + C_3L_3L_LR_1\right) + s^2\left(C_1L_3L_LR_1 + C_3L_3L_LR_1 + C_3L_3L_LR_1 + C_3L_3L_LR_1\right) + s^2\left(C_1L_3L_LR_1 + C_3L_3L_LR_1\right) + s^2\left(C_1L_3L_LR_1\right) + s^2\left
10.306 INVALID-ORDER-306 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_L L_3 L_L R_1 R_L g_m s^3 + L_3 L_L R_1 g_m s^2 + L_3 R_1 R_L g_m s}{C_1 C_3 C_L L_3 L_L R_1 R_L s^5 + R_1 R_L g_m + R_L + s^4 \left(C_1 C_3 L_3 L_L R_1 + C_3 C_L L_3 L_L R_1 R_L g_m + C_3 C_L L_3 L_L R_1 R_L + C_3 C_L L_3 L_L R_1 R_L + C_3 L_3 L_L R_1 g_m + C_4 L_4 L_1 R_1 g_
10.307 INVALID-ORDER-307 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_3 L_L R_1 R_L g_m s^3 + L_3 R_1 R_L g_m s}{C_1 C_3 C_L L_3 L_L R_1 R_L s^5 + R_1 R_L g_m + R_L + s^4 \left( C_1 C_L L_3 L_L R_1 R_L g_m + C_3 C_L L_3 L_L R_1 \right) + s^3 \left( C_1 C_3 L_3 R_1 R_L + C_1 C_L L_3 R_1 R_L + C_1 C_L L_3 L_L R_1 R_L + C_1 C_L L_3 R_1 R_L + C_1 C_L L_3
10.308 INVALID-ORDER-308 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                       H(s) = \frac{C_3L_3R_1R_Lg_ms^2 + C_3R_1R_3R_Lg_ms + R_1R_Lg_m}{C_1C_3L_3R_1s^3 + R_1g_m + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_L + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_1R_Lg_m + C_3R_3 + C_3R_L\right) + 1}
10.309 INVALID-ORDER-309 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                    H(s) = \frac{C_3L_3R_1g_ms^2 + C_3R_1R_3g_ms + R_1g_m}{C_1C_3C_LL_3R_1s^4 + s^3\left(C_1C_3C_LR_1R_3 + C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_3g_m + C_3C_LR_3\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_1C_LR_1\right)}
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 $\frac{C_{3}L_{3}R_{1}R_{L}g_{m}s^{2}+C_{3}R_{1}R_{3}R_{L}g_{m}s+R_{1}R_{L}g_{m}}{C_{1}C_{3}C_{L}L_{3}R_{1}R_{L}s^{4}+R_{1}g_{m}+s^{3}\left(C_{1}C_{3}C_{L}R_{1}R_{3}R_{L}+C_{1}C_{3}L_{3}R_{1}+C_{3}C_{L}L_{3}R_{1}R_{L}g_{m}+C_{3}C_{L}L_{3}R_{1}R_{L}g_{m}+C_{3}C_{L}L_{3}R_{1}R_{L}g_{m}+C_{3}C_{L}R_{3}R_{L}+C_{1}C_{2}R_{1}R_{3}R_{L}+C_{1}C_{2}R_{1}R_{3}R_{L}+C_{1}C_{2}R_{1}R_{3}R_{L}+C_{1}C_{2}R_{1}R_{2}R_{L}+C_{2}C_{2}R_{1}R_{3}R_{L}+C_{3}C_{2}R_{3}R_{L}+$

10.310 INVALID-ORDER-310 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_1R_1s+1}\right)$

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10.311 INVALID-ORDER-311 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                  H(s) = \frac{C_3C_LL_3R_1R_Lg_ms^3 + R_1g_m + s^2\left(C_3C_LR_1R_3R_Lg_m + C_3L_3R_1g_m\right) + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m\right)}{C_1C_3C_LL_3R_1s^4 + s^3\left(C_1C_3C_LR_1R_3 + C_1C_3C_LR_1R_L + C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_3g_m + C_3C_LR_1R_Lg_m + C_3C_LR_1\right) + s\left(C_3R_1R_3g_m + C_3C_LR_1R_2g_m + C_3C_LR_1R_2g_m + C_3C_LR_1\right) + s\left(C_3R_1R_3g_m + C_3C_LR_1\right) + s\left(C_3R_1R_1g_m + C_3C_LR_1\right) + s\left(C_3R_1R_1g_m + C_3C_LR_1\right) + s\left(C_3R_1R_1g_m + C_3C_LR_1\right) + s\left(C_3R_1R_1g_m + C_3C
10.312 INVALID-ORDER-312 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                             H(s) = \frac{C_3C_LL_3L_LR_1g_ms^4 + C_3C_LL_LR_1R_3g_ms^3 + C_3R_1R_3g_ms + R_1g_m + s^2\left(C_3L_3R_1g_m + C_LL_LR_1g_m\right)}{s^4\left(C_1C_3C_LL_3R_1 + C_1C_3C_LL_RR_1\right) + s^3\left(C_1C_3C_LR_1R_3 + C_3C_LL_3R_1g_m + C_3C_LL_RR_1g_m + C_3C_LL_L\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_3g_m + C_3C_LR_3\right) + s\left(C_3R_1g_m + C_3C_LR_1g_m + C_3C_LR_1R_3g_m + C_3C_LR_1
10.313 INVALID-ORDER-313 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_3L_3L_LR_1g_ms^3 + C_3L_LR_1g_ms^2 + L_LR_1g_ms}{C_1C_3C_LL_2R_1s^5 + R_1g_m + s^4\left(C_1C_3C_LL_LR_1R_3 + C_3C_LL_3L_LR_1g_m + C_3C_LL_3L_LR_1 + C_1C_3L_LR_1 + C_3C_LL_LR_1 + C_3C_LL_1 + C_3C_
10.314 INVALID-ORDER-314 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}\right)
                                        \frac{C_{3}C_{L}L_{3}L_{L}R_{1}g_{m}s^{4}+R_{1}g_{m}+s^{3}\left(C_{3}C_{L}L_{3}R_{1}R_{L}g_{m}+C_{3}C_{L}L_{L}R_{1}R_{3}g_{m}\right)+s^{2}\left(C_{3}C_{L}R_{1}R_{3}R_{L}g_{m}+C_{3}L_{L}R_{1}g_{m}\right)+s\left(C_{3}R_{1}R_{3}g_{m}+C_{L}R_{1}R_{L}g_{m}\right)}{s^{4}\left(C_{1}C_{3}C_{L}L_{R}R_{1}+C_{1}C_{3}C_{L}R_{1}R_{2}+C_{3}C_{L}L_{R}R_{1}g_{m}+C_{3}C_{L}L_{R}R_{1}g_{m}+C_{3}C_{L}L_{R}R_{1}g_{m}+C_{3}C_{L}L_{R}R_{1}g_{m}+C_{3}C_{L}L_{R}R_{1}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1}R_{2}g_{m}+C_{3}C_{L}R_{1
10.315 INVALID-ORDER-315 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.316 INVALID-ORDER-316 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                      C_{3}C_{L}L_{3}L_{L}R_{1}R_{L}g_{m}s^{4} + R_{1}R_{L}g_{m} + s^{3}\left(C_{3}C_{L}L_{L}R_{1}R_{3}R_{L}g_{m} + C_{3}L_{L}R_{1}g_{m}\right) + s^{2}\left(C_{3}L_{3}R_{1}R_{L}g_{m} + C_{3}L_{L}R_{1}R_{3}g_{m} + C_{L}L_{L}R_{1}R_{2}g_{m}\right) + s\left(C_{3}R_{1}R_{3}R_{L}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m}\right) + s\left(C_{3}R_{1}R_{3}R_{L}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m}\right) + s\left(C_{3}R_{1}R_{3}R_{L}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m}\right) + s\left(C_{3}R_{1}R_{3}R_{L}g_{m} + C_{3}L_{L}R_{1}R_{2}g_{m} + C_{3}L_{L}
10.317 INVALID-ORDER-317 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_3C_LL_3L_LR_1R_Lg_ms^4 + C_3C_LL_LR_1R_3R_Lg_ms^3 + C_3R_1R_3R_Lg_ms + R_1
10.318 INVALID-ORDER-318 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)
                                                                                                                                                                                                    H(s) = \frac{L_3 R_1 R_3 R_L g_m s}{C_1 C_3 L_3 R_1 R_3 R_L s^3 + R_1 R_3 R_L g_m + R_3 R_L + s^2 \left( C_1 L_3 R_1 R_3 + C_1 L_3 R_1 R_L + C_3 L_3 R_1 R_3 R_L g_m + C_3 L_3 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 g_m + L_3 R_1 R_L g_m + L_3 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 g_m + L_3 R_1 R_2 g_m + L_3 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 g_m + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L + L_3 R_1 R_2 R_L \right) + s \left( C_1 R_1 R_3 R_L \right) + s \left( C_1 R_1 R_1
10.319 INVALID-ORDER-319 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_{Ls}}\right)
                                                                                                                                                                                                                                               H(s) = \frac{L_{3}R_{1}R_{3}g_{m}s}{R_{1}R_{3}g_{m} + R_{3} + s^{3}\left(C_{1}C_{3}L_{3}R_{1}R_{3} + C_{1}C_{L}L_{3}R_{1}R_{3}\right) + s^{2}\left(C_{1}L_{3}R_{1} + C_{3}L_{3}R_{1}R_{3}g_{m} + C_{3}L_{3}R_{3} + C_{L}L_{3}R_{1}R_{3}g_{m} + C_{L}L_{3}R_{3}\right) + s\left(C_{1}R_{1}R_{3} + L_{3}R_{1}g_{m} + L_{3}\right)}
10.320 INVALID-ORDER-320 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                                                                  \frac{L_{3}R_{1}R_{3}R_{L}g_{m}s}{R_{1}R_{3}R_{L}g_{m}+R_{3}R_{L}+s^{3}\left(C_{1}C_{3}L_{3}R_{1}R_{3}R_{L}+C_{1}C_{L}L_{3}R_{1}R_{3}R_{L}\right)+s^{2}\left(C_{1}L_{3}R_{1}R_{3}+C_{1}L_{3}R_{1}R_{3}+C_{1}L_{3}R_{1}R_{3}R_{L}+C_{L}L_{3}R_{1}R_{3}R_{L}+C_{L}L_{3}R_{1}R_{3}R_{L}\right)+s\left(C_{1}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{3}R_{L}+L_{3}R_{1}R_{1}+L_{3}R_{1}R_{1}+L_{3}R_{1}R_{1}+L_{3}R_{1}R_{1}+L_{3}R_{1}R_{1}+L_{3}R_{1}R_{1}+L_{3}R_{1}R_{1}+L_{3}R_{1}R_{1}+L_{3}R_{1}+L_{3}R_{1}+L_{3}R_{1}+L_{3}R_{1}+L_{3}R_{1}+L_{3}R_{1}+L_{3}R_{1}
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10.321 INVALID-ORDER-321 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_3 R_1 R_3 R_L g_m s^2 + L_3 R_1 R_3 g_m s}{C_1 C_3 C_L L_3 R_1 R_3 R_L s^4 + R_1 R_3 g_m + R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_3 + C_1 C_L L_3 R_1 R_3 + C_1 C_L L_3 R_1 R_3 R_L g_m + C_3 C_L L_3 R_1 R_3 R_L + C_1 C_L R_1 R_1 R_1 R_1 + C_1 C_L R_1 
10.322 INVALID-ORDER-322 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                      10.323 INVALID-ORDER-323 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                    H(s) = \frac{L_3L_LR_1R_3g_ms}{L_3R_1R_3g_m + L_2R_1R_3g_m + L_LR_3 + s^3\left(C_1C_3L_3L_LR_1R_3 + C_1C_LL_3L_LR_1R_3\right) + s^2\left(C_1L_3L_LR_1 + C_3L_3L_LR_1R_3g_m + C_3L_3L_LR_1R_3g_m + C_4L_3L_LR_1\right) + s\left(C_1L_3R_1R_3 + C_4L_3L_LR_1R_3 + C_4L_3L_LR_1\right) + s\left(C_1L_3R_1R_3 + C_4L_3L_RR_1R_3 + C_4L_3L_RR_1\right) + s\left(C_1L_3R_1R_3 + C_4L_3L_RR_1R_3 + C_4L_3L_RR_1\right) + s\left(C_1L_3R_1R_3 + C_4L_3L_RR_1\right) + s\left(C_1L_3R_1R_1\right) + s\left(C_1L_3R_1R_1R_1\right) + s\left(C_1L_3R_1R_1\right) + s\left(C_1L_3R_1R
10.324 INVALID-ORDER-324 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \frac{\bigcirc_{L} \square_{3} \square_{L} \square_{1} \square_{3} g_{m} - \square_{5} \square_{2} \square_{1} \square_{3} g_{m} - \square_{5} \square_{1} \square_{3} g_{m}}{C_{1} C_{3} C_{L} L_{3} L_{L} R_{1} R_{3} s^{5} + R_{1} R_{3} g_{m} + R_{3} + s^{4} \left(C_{1} C_{3} C_{L} L_{3} L_{L} R_{1} R_{3} R_{L} + C_{1} C_{L} L_{3} L_{L} R_{1} R_{3} R_{L} + C_{1} C_{L} L_{3} L_{L} R_{1} R_{3} R_{L} + C_{1} C_{L} L_{3} R_{1} R_{3} R_{L} + C_{1} C_{L}
10.325 INVALID-ORDER-325 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.326 INVALID-ORDER-326 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_2L_2R_3s^2+L_3s+R_3}, \infty, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
10.327 INVALID-ORDER-327 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.328 INVALID-ORDER-328 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
                                                                                            H(s) = \frac{C_3L_3R_1R_3R_Lg_ms^2 + L_3R_1R_Lg_ms + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_L\right) + s^2\left(C_1L_3R_1 + C_3L_3R_1R_3g_m + C_3L_3R_1R_Lg_m + C_3L_3R_3 + C_3L_3R_L\right) + s\left(C_1R_1R_3 + C_1R_1R_L + L_3R_1g_m + L_3\right)}
10.329 INVALID-ORDER-329 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                            H(s) = \frac{C_3L_3R_1R_3g_ms^2 + L_3R_1g_ms + R_1R_3g_m}{C_1C_3C_LL_3R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_3R_1 + C_1C_LL_3R_1 + C_3C_LL_3R_1R_3g_m + C_3C_LL_3R_3\right) + s^2\left(C_1C_LR_1R_3 + C_3L_3R_1g_m + C_3L_3 + C_LL_3R_1g_m + C_LL_3\right) + s\left(C_1R_1 + C_LR_1R_3g_m + C_LR_3\right) + 1}
10.330 INVALID-ORDER-330 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
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 $\frac{C_3L_3R_1R_3R_Lg_ms + L_3R_1R_Lg_ms + R_1R_1g_ms + R_$

 $C_3L_3R_1R_3R_Lg_ms^2 + L_3R_1R_Lg_ms + R_1R_3R_Lg_m$

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 \begin{aligned} & \textbf{10.331} & \textbf{INVALID-ORDER-331} & Z(s) = \left(\frac{R_1}{G_2R_1s+1}, \ \infty, \ \frac{C_2L_2R_3s_2^2 + L_2s+2s_3}{G_2I_2s_2^2 + 1}, \ \infty, \ \infty, \ R_L + \frac{1}{C_Ls}\right) \\ & H(s) = \frac{C_3C_L L_3R_1R_3R_s g_s s^3 + R_1R_3g_s s + s^2 (C_3L_3R_1R_2g_s s^2 + L_3R_1g_s g_s)}{R_1g_m + s^4 (C_1G_2C_L L_3R_1R_2) + s^2 (C_1G_2L_3R_1R_2) + s^2 (C_1G_2L_3R_1R_2g_s + C_2G_2L_3R_1R_2g_s + C_3G_2L_3R_1R_2g_s + C_3G_2L_3R_3R_2g_s + C_3G_2L_3R_3R_2g_s + C_3G_2L_3R_3R_3g_s + C_3G_2L_3R_3g_s + C_3G_2R_3g_s + C_3G_
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10.335 INVALID-ORDER-335
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$$

10.336 INVALID-ORDER-336
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

 $H(s) = \frac{C_3C_LL_3L_LR_1R_3R_Lg_m s^4 + R_1R_3R_Lg_m + s^3\left(C_3L_3L_LR_1R_3g_m + C_LL_3L_LR_1R_2g_m + C_3C_LL_3L_RR_1R_3g_m + C_3C_LL_3L_RR_1R_3g_m$

10.337 INVALID-ORDER-337
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{C_3C_LL_3L_LR_1R_2}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^5\left(C_1C_3C_LL_3L_LR_1R_3 + C_1C_3C_LL_3L_LR_1R_2\right) + s^4\left(C_1C_3C_LL_3L_LR_1 + C_3C_LL_3L_LR_1R_3g_m + C_3C_LL_3L_LR_1R_2g_m + C_3C_LL_3L_LR_1 + S_3C_LL_3L_LR_1 + C_3C_LL_3L_LR_1 + C_3C_LL_3L_1 + C_3C_LL_3L_1 + C_3C_LL_3L_1 + C_3C_LL_3L_1 + C_3C_LL_$

10.338 INVALID-ORDER-338
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L\right)$$

 $H(s) = \frac{C_3L_3R_1R_3R_Lg_ms^2 + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_L\right) + s^2\left(C_1C_3R_1R_3R_L + C_3L_3R_1R_2g_m + C_3L_3R_1R_Lg_m + C_3L_3R_3 + C_3L_3R_L\right) + s\left(C_1R_1R_3 + C_1R_1R_L + C_3R_1R_3R_Lg_m + C_3R_3R_L\right)}$

10.339 INVALID-ORDER-339
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_3L_3R_1R_3g_ms^2 + R_1R_3g_m}{C_1C_3C_LL_3R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_3R_1 + C_3C_LL_3R_1R_3g_m + C_3C_LL_3R_3\right) + s^2\left(C_1C_3R_1R_3 + C_1C_LR_1R_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3 + C_LR_1R_3g_m + C_LR_3\right) + 1}$

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10.340 INVALID-ORDER-340 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_3L_3R_1R_3R_Lg_ms^2 + R_1R_3R_Lg_m}{C_1C_3C_LL_3R_1R_3R_Ls^4 + R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_3R_Lg_m + C_3C_LL_3R_3R_L\right) + s^2\left(C_1C_3R_1R_3R_L + C_3L_3R_1R_3g_m + C_3L_3R_3g_m + C_3L_3R_3g_
10.341 INVALID-ORDER-341 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_3C_LL_3R_1R_3R_Lg_ms^3 + C_3L_3R_1R_3g_ms^2 + C_LR_1R_3R_Lg_ms + R_1R_3g_m}{R_1g_m + s^4\left(C_1C_3C_LL_3R_1R_3 + C_1C_3C_LL_3R_1R_2 + C_3C_LL_3R_1R_3g_m + C_3C_LL_3R_1R_2g_m + C_3C_LL_3R_1R_3 + C_1C_LR_1R_3 + C_1C_LR_1R_1 + C_1C_LR_1R_
10.342 INVALID-ORDER-342 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_3C_LL_3L_LR_1R_3g_ms^4 + R_1R_3g_m + s^2\left(C_3L_3R_1R_3g_m + C_LL_LR_1R_3g_m\right)}{C_1C_3C_LL_3L_LR_1s^5 + R_1g_m + s^4\left(C_1C_3C_LL_3R_1R_3 + C_1C_3C_LL_3R_1R_3 + C_3C_LL_3R_1R_3 + C_3C_LL_3R_1R_3g_m + C_3C_LL_
10.343 INVALID-ORDER-343 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                        \frac{C_{3}L_{3}L_{L}R_{1}R_{3}g_{m}s^{3}+L_{L}R_{1}R_{3}g_{m}s}{C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}R_{3}s^{5}+R_{1}R_{3}g_{m}+R_{3}+s^{4}\left(C_{1}C_{3}L_{3}L_{L}R_{1}R_{3}g_{m}+C_{3}C_{L}L_{3}L_{L}R_{3}\right)+s^{3}\left(C_{1}C_{3}L_{3}L_{L}R_{1}R_{3}+C_{1}C_{L}L_{L}R_{1}R_{3}+C_{1}C_{L}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{3}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}R_{2}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L_{L}R_{1}+C_{2}L
10.344 INVALID-ORDER-344 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_3C_LL_3L_LR_1R_3g_ms^4 + C_3C_LL_3R_1R_3R_Lg_ms^3 + C_LR_1R_3R_Lg_ms^3 + C_LR_1R_3R_Lg_ms + R_1R_2R_2g_ms^3 + C_LR_1R_3R_Lg_ms + R_1R_2g_ms^3 + C_LR_1R_3R_Lg_ms^4 + C_3C_LL_3R_1R_3R_Lg_ms^4 + C_3C_LL_3R_1R_2g_ms^4 +
10.345 INVALID-ORDER-345 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.346 INVALID-ORDER-346 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $C_{2}C_{3}L_{2}L_{4}R_{1}$

 $H(s) = \frac{C_3C_LL_3L_LR_1R_3}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^5\left(C_1C_3C_LL_3L_LR_1R_3 + C_1C_3C_LL_3L_LR_1R_3R_L + C_1C_3L_3L_LR_1R_3g_m + C_3C_LL_3L_LR_1R_3g_m + C_3C_LL_3L_LR_1 + C_3C_LL_3L_LR_1R_3g_m + C_3C_LL_3L_LR_1 + C_3C_LL_3L_LR_1$

10.347 INVALID-ORDER-347
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{C}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^5 \left(C_1 C_3 C_L L_3 L_L R_1 R_3 + C_1 C_3 C_L L_3 L_L R_1 R_3 R_L + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_3 C_L L_3 L_L R_1 R_3 g_m$

10.348 INVALID-ORDER-348
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_1 R_1 R_3 R_L g_m s + R_3 R_L g_m}{R_3 g_m + R_L g_m + s \left(C_1 R_1 R_3 g_m + C_1 R_1 R_L g_m + C_1 R_3 + C_1 R_L\right)}$$

10.349 INVALID-ORDER-349
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_LR_1R_3g_ms^3 + C_1R_1R_3g_ms + C_LL_LR_3g_ms^2 + R_3g_m}{g_m + s^3\left(C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1C_LR_1R_3g_m + C_1C_LR_3 + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1 + C_LR_3g_m\right)}$$

10.350 INVALID-ORDER-350
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1 L_L R_1 R_3 g_m s^2 + L_L R_3 g_m s}{R_3 g_m + s^3 \left(C_1 C_L L_L R_1 R_3 g_m + C_1 C_L L_L R_3 \right) + s^2 \left(C_1 L_L R_1 g_m + C_1 L_L + C_L L_L R_3 g_m \right) + s \left(C_1 R_1 R_3 g_m + C_1 R_3 + L_L g_m \right)}$$

10.351 INVALID-ORDER-351
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_LR_1R_3g_ms^3 + R_3g_m + s^2\left(C_1C_LR_1R_3R_Lg_m + C_LL_LR_3g_m\right) + s\left(C_1R_1R_3g_m + C_LR_3R_Lg_m\right)}{g_m + s^3\left(C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1C_LR_1R_3g_m + C_1C_LR_1R_Lg_m + C_1C_LR_3 + C_1C_LR_1 + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1C_LR_1g_m + C_1C_LR_1g_m + C_1C_LR_1g_m\right)}$$

10.352 INVALID-ORDER-352
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.353 INVALID-ORDER-353
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1C_LL_LR_1R_3R_Lg_ms^3 + R_3R_Lg_m + s^2\left(C_1L_LR_1R_3g_m + C_LL_LR_3R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + L_LR_3g_m\right)}{R_3g_m + R_Lg_m + s^3\left(C_1C_LL_LR_1R_3g_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_1\right) + s^2\left(C_1L_LR_1g_m + C_1L_LR_3g_m + C_LL_LR_3g_m + C_LL_LR_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_2R_2g_m\right)}$$

10.354 INVALID-ORDER-354
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_LL_RR_1R_3R_Lg_ms^3 + C_1R_1R_3R_Lg_ms + C_LL_LR_3R_Lg_ms^2 + R_3R_Lg_m}{R_3g_m + R_Lg_m + s^3\left(C_1C_LL_LR_1R_3g_m + C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_3 + C_1C_LL_LR_1\right) + s^2\left(C_1C_LR_1R_3R_Lg_m + C_1C_LR_3R_L + C_LL_LR_3g_m + C_LL_LR_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_1R_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1$$

10.355 INVALID-ORDER-355 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 R_1 g_m s + g_m}{s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + C_1 C_L R_1 g_m + C_1 C_L \right) + s \left(C_3 g_m + C_L g_m \right)}$$

10.356 INVALID-ORDER-356 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 C_L R_1 R_L g_m s^2 + g_m + s \left(C_1 R_1 g_m + C_L R_L g_m \right)}{s^3 \left(C_1 C_3 C_L R_1 R_L g_m + C_1 C_3 C_L R_L \right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + C_1 C_L R_1 g_m + C_1 C_L + C_3 C_L R_L g_m \right) + s \left(C_3 g_m + C_L g_m \right)}$$

10.357 INVALID-ORDER-357 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 C_L L_L R_1 g_m s^3 + C_1 R_1 g_m s + C_L L_L g_m s^2 + g_m}{C_3 C_L L_L g_m s^3 + s^4 \left(C_1 C_3 C_L L_L R_1 g_m + C_1 C_3 C_L L_L \right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + C_1 C_L R_1 g_m + C_1 C_L \right) + s \left(C_3 g_m + C_L g_m \right)}$$

10.358 INVALID-ORDER-358 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1 L_L R_1 g_m s^2 + L_L g_m s}{g_m + s^3 \left(C_1 C_3 L_L R_1 g_m + C_1 C_3 L_L + C_1 C_L L_L R_1 g_m + C_1 C_L L_L \right) + s^2 \left(C_3 L_L g_m + C_L L_L g_m \right) + s \left(C_1 R_1 g_m + C_1 C_1 L_L R_1 g_m + C_1 C_2 L_L \right) + s^2 \left(C_3 L_L g_m + C_L L_L g_m \right) + s \left(C_1 R_1 g_m + C_1 C_2 L_L R_1 g_m + C_1 C_2 L_L \right) + s^2 \left(C_3 L_L g_m + C_1 L_L g_m \right) + s \left(C_1 R_1 g_m + C_1 C_2 L_L R_1 g_m + C_2 C_2 L_L R_2 g_m + C_2 C_2 L_L R_2$$

10.359 INVALID-ORDER-359 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_LR_1g_ms^3 + g_m + s^2\left(C_1C_LR_1R_Lg_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_LR_Lg_m\right)}{s^4\left(C_1C_3C_LL_LR_1g_m + C_1C_3C_LL_L\right) + s^3\left(C_1C_3C_LR_1R_Lg_m + C_1C_3C_LL_Lg_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L + C_3C_LR_Lg_m\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.360 INVALID-ORDER-360 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.361 INVALID-ORDER-361 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

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

10.362 INVALID-ORDER-362 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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

10.363 INVALID-ORDER-363 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LR_1R_3R_Lg_ms^2 + R_3g_m + s\left(C_1R_1R_3g_m + C_LR_3R_Lg_m\right)}{g_m + s^3\left(C_1C_3C_LR_1R_3R_Lg_m + C_1C_3C_LR_3R_L\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_3g_m + C_1C_LR_1R_Lg_m + C_1C_LR_1 + C_3C_LR_3R_Lg_m\right) + s\left(C_1R_1g_m + C_1 + C_3R_3g_m + C_LR_3g_m + C_LR_2g_m\right)}$$

10.364 INVALID-ORDER-364 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 C_L L_L R_1 R_3 g_m s^3 + C_1 R_1 R_3 g_m s + C_L L_L R_3 g_m s^2 + R_3 g_m}{g_m + s^4 \left(C_1 C_3 C_L L_L R_1 g_m + C_1 C_3 C_L L_L R_3 \right) + s^3 \left(C_1 C_L L_L R_1 g_m + C_1 C_L L_L + C_3 C_L L_L R_3 g_m \right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_L R_1 R_3 g_m + C_1 C_L R_3 + C_L L_L g_m \right) + s \left(C_1 R_1 g_m + C_1 + C_3 R_3 g_m + C_1 R_3 g_m \right)}$$

10.365 INVALID-ORDER-365 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1 L_L R_1 R_3 g_m s^2 + L_L R_3 g_m s}{R_3 g_m + s^3 \left(C_1 C_3 L_L R_1 R_3 g_m + C_1 C_2 L_L R_3 + C_1 C_L L_L R_1 R_3 g_m + C_1 C_L L_L R_3 \right) + s^2 \left(C_1 L_L R_1 g_m + C_1 L_L + C_3 L_L R_3 g_m + C_L L_L R_3 g_m \right) + s \left(C_1 R_1 R_3 g_m + C_1 R_3 + L_L g_m \right)}$$

10.366 INVALID-ORDER-366 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_R1R_3g_ms^3 + R_3g_m + s^2\left(C_1C_LR_1R_3R_Lg_m + C_LL_R3g_m\right) + s\left(C_1R_1R_3g_m + C_LR_3R_Lg_m\right)}{g_m + s^4\left(C_1C_3C_LL_R1R_3g_m + C_1C_3C_LL_R3\right) + s^3\left(C_1C_3C_LR_1R_3R_Lg_m + C_1C_LL_R1g_m + C_1C_LL_R1g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_3g_m + C_1C_LR_1R$$

10.367 INVALID-ORDER-367 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_1L_LR_1R_3R_Lg_ms^2 + L_LR_3R_Lg_ms}{R_3R_Lg_m + s^3\left(C_1C_3L_LR_1R_3R_Lg_m + C_1C_3L_LR_3R_L + C_1C_LL_RR_3R_Lg_m + C_1L_LR_1R_3g_m + C_1L_LR_1R_2g_m + C_1L_LR_3R_Lg_m + C_1L_LR_$$

10.368 INVALID-ORDER-368 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_1C_LL_RR_3R_Lg_m + s^2\left(C_1L_LR_1R_3g_m + C_LL_LR_3R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + L_LR_3g_m\right)}{R_3g_m + R_Lg_m + s^4\left(C_1C_3C_LL_RR_1R_3R_Lg_m + C_1C_3L_LR_1R_3g_m + C_1C_LL_RR_1R_3g_m + C_1C_LL_RR_1R_2g_m + C_1C_LR_1R_2g_m + C_1C_LR_1$ **10.369** INVALID-ORDER-369 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_{1}C_{L}L_{R}R_{3}R_{L}g_{m}s^{3} + C_{1}R_{1}R_{3}R_{L}g_{m}s^{2} + R_{3}R_{L}g_{m}}{R_{3}g_{m} + R_{L}g_{m} + s^{4}\left(C_{1}C_{3}C_{L}L_{R}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{R}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{R}R_{3}R_{L}g_{$ 10.370 INVALID-ORDER-370 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_3R_1R_3g_ms^2 + g_m + s\left(C_1R_1g_m + C_3R_3g_m\right)}{s^3\left(C_1C_3C_LR_1R_3g_m + C_1C_3C_LR_3\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L + C_3C_LR_3g_m\right) + s\left(C_3g_m + C_Lg_m\right)}$ 10.371 INVALID-ORDER-371 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_{1}C_{3}R_{1}R_{3}R_{L}g_{m}s^{2} + R_{L}g_{m} + s\left(C_{1}R_{1}R_{L}g_{m} + C_{3}R_{3}R_{L}g_{m}\right)}{g_{m} + s^{3}\left(C_{1}C_{3}C_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}R_{3}R_{L}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}R_{1}R_{L}g_{m} + C_{1}C_{3}R_{1} + C_{1}C_{2}R_{1}R_{L}g_{m} + C_{1}C_{L}R_{L} + C_{3}C_{L}R_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{1}g_{m} + C_{1} + C_{3}R_{3}g_{m} + C_{1}R_{L}g_{m}\right)}{ds^{2}}$ 10.372 INVALID-ORDER-372 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_3C_LR_1R_3R_Lg_ms^3 + g_m + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_Lg_m + C_3C_LR_3R_Lg_m\right) + s\left(C_1R_1g_m + C_3R_3g_m + C_LR_Lg_m\right)}{s^3\left(C_1C_3C_LR_1R_3g_m + C_1C_3C_LR_3 + C_1C_3C_LR_3 + C_1C_3C_LR_1\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L + C_3C_LR_3g_m + C_3C_LR_2g_m\right) + s\left(C_3g_m + C_Lg_m\right)}$ 10.373 INVALID-ORDER-373 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_{1}C_{3}C_{L}L_{L}R_{1}R_{3}g_{m}s^{4} + g_{m} + s^{3}\left(C_{1}C_{L}L_{L}R_{1}g_{m} + C_{3}C_{L}L_{L}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{3}g_{m} + C_{L}L_{L}g_{m}\right) + s\left(C_{1}R_{1}g_{m} + C_{3}R_{3}g_{m}\right)}{s^{4}\left(C_{1}C_{3}C_{L}L_{L}R_{1}g_{m} + C_{1}C_{3}C_{L}L_{L}\right) + s^{3}\left(C_{1}C_{3}C_{L}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{L}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}g_{m} + C_{1}C_{3} + C_{1}C_{1}R_{1}g_{m} + C_{1}C_{1}C_{1}R_{3}g_{m}\right) + s\left(C_{3}G_{m} + C_{2}G_{m}\right)}$ **10.374** INVALID-ORDER-374 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}C_{3}L_{L}R_{1}R_{3}g_{m}s^{3} + L_{L}g_{m}s + s^{2}\left(C_{1}L_{L}R_{1}g_{m} + C_{3}L_{L}R_{3}g_{m}\right)}{g_{m} + s^{4}\left(C_{1}C_{3}C_{L}L_{L}R_{1}g_{m} + C_{1}C_{3}L_{L}R_{1}g_{m} + C_{1}C_{1}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{L}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}R_{1}R_{3}g_{m}\right)}$

$$\begin{aligned} \textbf{10.375} \quad & \textbf{INVALID-ORDER-375} \ \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s} \right) \\ & H(s) = \frac{C_1 C_3 C_L L_L R_1 R_3 g_m s^4 + g_m + s^3 \left(C_1 C_3 C_L R_1 R_3 R_L g_m + C_1 C_L L_L R_1 g_m + C_3 C_L L_L R_3 g_m \right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_L R_1 R_L g_m + C_3 C_L R_3 R_L g_m + C_L L_L g_m \right) + s \left(C_1 R_1 g_m + C_3 R_3 g_m + C_L R_1 g_m \right) \\ & \frac{s^4 \left(C_1 C_3 C_L L_L R_1 g_m + C_1 C_3 C_L L_L \right) + s^3 \left(C_1 C_3 C_L R_1 R_3 g_m + C_1 C_3 C_L R_3 + C_1 C_3 C_L R_1 R_2 g_m + C_1 C_2 C_L R_2 g_m + C_1 C_2$$

10.376 INVALID-ORDER-376 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_1C_3L_LR_1R_3R_Lg_ms^3 + L_LR_Lg_ms + s^2\left(C_1L_LR_1R_Lg_m + C_3L_LR_3R_Lg_m\right)}{R_Lg_m + s^4\left(C_1C_3C_LL_LR_1R_3R_Lg_m + C_1C_3L_LR_1R_3g_m + C_1C_3L_LR_1R_2g_m + C$$

10.377 INVALID-ORDER-377 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_RR_1R_3R_Lg_m + s^3\left(C_1C_3L_LR_1R_3g_m + C_1C_LL_RR_1R_Lg_m + S^3\left(C_1C_3L_LR_1R_3g_m + C_1L_LR_1g_m + C_3L_LR_3g_m + C_1L_LR_1g_m + C_3L_LR_1g_m + C_3L_LR_1g_m + C_4L_LR_1g_m +$

10.378 INVALID-ORDER-378 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_R_1R_3R_Lg_m s^4 + R_Lg_m + s^3\left(C_1C_LL_R_1R_Lg_m + C_3C_LL_R_3R_Lg_m\right) + s^2\left(C_1C_3R_1R_3R_Lg_m + C_LL_RLg_m\right) + s\left(C_1R_1R_Lg_m + C_3R_3R_Lg_m\right)}{g_m + s^4\left(C_1C_3C_LL_R_1R_3g_m + C_1C_3C_LL_R_1R_2g_m + C_1C_3C_LL_R_1g_m + C_1C_3C_LL_R_1g_m$

10.379 INVALID-ORDER-379 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1C_3L_3R_1R_Lg_ms^3 + C_1R_1R_Lg_ms + C_3L_3R_Lg_ms^2 + R_Lg_m}{g_m + s^3\left(C_1C_3L_3R_1g_m + C_1C_3L_3\right) + s^2\left(C_1C_3R_1R_Lg_m + C_1C_3R_L + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_1 + C_3R_Lg_m\right)}$$

10.380 INVALID-ORDER-380 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_3L_3R_1g_ms^3 + C_1R_1g_ms + C_3L_3g_ms^2 + g_m}{C_3C_LL_3g_ms^3 + s^4\left(C_1C_3C_LL_3R_1g_m + C_1C_3C_LL_3\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.381 INVALID-ORDER-381 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

10.382 INVALID-ORDER-382 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.383 INVALID-ORDER-383 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

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

10.384 INVALID-ORDER-384 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.385 INVALID-ORDER-385 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_3C_LL_3L_LR_1g_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_1R_Lg_m + C_3C_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_LL_LR_1g_m + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1C_LR_1R_Lg_m + C_3L_3g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_LR_Lg_m\right) + s\left(C_1R_1g_m + C_1C_LL_Rg_m\right) + s\left(C_1C_3C_LL_Rg_m + C_1C_3C_LL_Rg_m\right) + s\left(C_1C_3C_LL_Rg_m + C_1C_3C_LL_Rg_m\right) + s\left(C_1C_3C_LL_Rg_m + C_1C_LL_Rg_m\right) + s\left(C_1C_3C_LR_Lg_m + C_1C_LRg_m\right) + s\left(C_1C_3C_LR_Lg_m + C_1C_LRg_m\right) + s\left(C_1C_3C_LR_Lg_m\right) + s\left(C_1C_3C$$

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10.386 INVALID-ORDER-386 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_{1}C_{3}L_{1}R_{L}g_{m}s^{4} + C_{1}L_{L}R_{1}g_{m}s^{2} + C_{3}L_{3}L_{L}R_{L}g_{m}s^{3} + L_{L}R_{L}g_{m}s}{R_{L}g_{m} + s^{5}\left(C_{1}C_{3}C_{L}L_{3}L_{L}R_{L}g_{m} + C_{1}C_{3}L_{L}R_{L}g_{m} + C_{1}C_{2}L_{L}R_{L}g_{m} + C_{1}C_{2}L_{L}R_{L}g_{m} + C_{1}C_{2}L_{L}R_
10.387 INVALID-ORDER-387 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_R L_S^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3C_LL_3L_LR_1R_Lg_ms^5 + R_Lg_m + s^4\left(C_1C_3L_3L_LR_1g_m + C_3C_LL_3L_LR_1g_m + C_3L_LL_RLg_m\right) + s^3\left(C_1C_3L_3R_1R_Lg_m + C_1C_LL_RR_1R_Lg_m + C_3L_3L_Lg_m\right) + s^2\left(C_1L_LR_1g_m + C_3L_3R_Lg_m + C_LL_RL_Rg_m\right) + s\left(C_1R_1R_Lg_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m
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10.388 INVALID-ORDER-388 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_3L_LR_1g_ms^5 + C_1R_1R_Lg_ms^4 + R_Lg_m + s^3\left(C_1C_3L_3R_1R_Lg_m + C_1C_LL_LR_1R_Lg_m\right) + s^2\left(C_3L_3R_Lg_m + C_LL_LR_Lg_m\right)}{g_m + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_3C_LL_3L_LR_1g_m + C_1C_3C_LL_3R_1R_Lg_m + C_1C_3C_LL_3R_1R_Lg_m + C_1C_3C_LL_3R_1R_Lg_m + C_1C_3C_LL_3R_1g_m + C$

10.389 INVALID-ORDER-389 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)$

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

10.390 INVALID-ORDER-390 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 L_3 R_1 g_m s^2 + L_3 g_m s}{g_m + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_L L_3 R_1 g_m + C_1 C_L L_3 \right) + s^2 \left(C_3 L_3 g_m + C_L L_3 g_m \right) + s \left(C_1 R_1 g_m + C_1 C_1 L_3 R_1 g_m + C_1 C_2 L$$

10.391 INVALID-ORDER-391 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

10.392 INVALID-ORDER-392 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.393 INVALID-ORDER-393 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_{3s}}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_3L_LR_1g_ms^4 + C_1L_3R_1g_ms^2 + C_LL_3L_Lg_ms^3 + L_3g_ms}{C_3C_LL_3L_Lg_ms^4 + g_m + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_3C_LL_3L_L\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3 + C_1C_LL_1R_1g_m + C_1C_LL_L\right) + s^2\left(C_3L_3g_m + C_LL_3g_m +$$

10.394 INVALID-ORDER-394 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1L_3L_LR_1g_ms^2 + L_3L_Lg_ms}{L_3g_m + L_Lg_m + s^3\left(C_1C_3L_3L_LR_1g_m + C_1C_3L_3L_L + C_1C_LL_3L_LR_1g_m + C_1C_LL_3L_L\right) + s^2\left(C_3L_3L_Lg_m + C_LL_3L_Lg_m\right) + s\left(C_1L_3R_1g_m + C_1L_3 + C_1L_LR_1g_m + C_1L_L\right)}$$

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10.395 INVALID-ORDER-395 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
H(s) = \frac{C_1C_LL_3L_LR_1g_ms^4 + L_3g_ms + s^3\left(C_1C_LL_3R_1R_Lg_m + C_LL_3L_Lg_m\right) + s^2\left(C_1L_3R_1g_m + C_LL_3R_Lg_m\right)}{g_m + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_3C_LL_3L_LR_1g_m + C_1C_3L_3R_1R_Lg_m + C_1C_3L_3R_1g_m + C_1C_4L_3R_1g_m + C_1C_4L_3R_1g_m + C_1C_4L_3R_1g_m + C_1C_4L_3R_1g_m + C_1C_4L_3R_1g_m + C_1C_4L_4R_1g_m + C_1C_4L_4R_1g_m + C_1C_4L_4R_1g_m + C_1C_4R_1g_m + 
10.396 INVALID-ORDER-396 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                     H(s) = \frac{C_{1}L_{3}L_{L}R_{1}R_{L}g_{m}s^{2} + L_{3}L_{L}R_{L}g_{m}s}{L_{3}R_{L}g_{m} + L_{L}R_{L}g_{m} + s^{3}\left(C_{1}C_{3}L_{3}L_{L}R_{1}R_{L}g_{m} + C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}g_{m} + C_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}L_{3}R_{L}R_{1}g_{m} + C_{1}L_
10.397 INVALID-ORDER-397 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_LL_3L_LR_1R_Lg_ms^4 + L_3R_Lg_ms + s^3\left(C_1L_3L_LR_1g_m + C_LL_3L_LR_Lg_m\right) + s^2\left(C_1L_3R_1R_Lg_m + L_3L_Lg_m\right)}{R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_3L_3L_LR_1g_m + C_1C_3L_3L_1g_m + C_1C_3L_3L_1g_m
10.398 INVALID-ORDER-398 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_1C_LL_3L_LR_1R_Lg_ms^4 + C_1L_3R_1R_Lg_ms^2 + C_LL_3L_LR_Lg_ms^3 + L_3R_Lg_ms^3
                                          \frac{C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}g_{m}s^{4}+C_{1}L_{3}R_{L}R_{g}s^{2}+C_{L}L_{3}L_{L}R_{L}g_{m}s^{3}+L_{3}R_{L}g_{m}s}{R_{L}g_{m}+s^{5}\left(C_{1}C_{3}C_{L}L_{3}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_{L}R_{L}g_{m}+C_{1}C_{L}L_{3}R_
10.399 INVALID-ORDER-399 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                     H(s) = \frac{C_1C_3L_3R_1R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_3R_1R_3R_Lg_m + C_3L_3R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_3R_3R_Lg_m\right)}{g_m + s^3\left(C_1C_3L_3R_1g_m + C_1C_3L_3\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_1R_Lg_m + C_1C_3R_3 + C_1C_3R_L + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_1+C_3R_3g_m + C_3R_Lg_m\right)}
10.400 INVALID-ORDER-400 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                        H(s) = \frac{C_1C_3L_3R_1g_ms^3 + g_m + s^2\left(C_1C_3R_1R_3g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_3R_3g_m\right)}{s^4\left(C_1C_3C_LL_3R_1g_m + C_1C_3C_LL_3\right) + s^3\left(C_1C_3C_LR_1R_3g_m + C_1C_3C_LR_3 + C_3C_LL_3g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L + C_3C_LR_3g_m\right) + s\left(C_3g_m + C_Lg_m\right)}
10.401 INVALID-ORDER-401 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_3L_3R_1R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_3R_1R_3R_Lg_m + C_3L_3R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_3R_3R_Lg_m\right)}{g_m + s^4\left(C_1C_3C_LL_3R_1R_Lg_m + C_1C_3C_LL_3R_L\right) + s^3\left(C_1C_3C_LR_1R_3R_Lg_m + C_1C_3L_3R_Lg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_1R_Lg_m + C_1C_3R_1R_Lg_m + C_1C_3R_LR_Lg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_1R_Lg_m + C_1C_3R_LR_Lg_m + C_1C_3R_LR_Lg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_1R_Lg_m + C_1C_3R_LR_Lg_m + C_1C_3R_LR_Lg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_LR_Lg_m + C_1C_3R_LR_Lg_m + C_1C_3R_LR_Lg_m\right) + s^2\left(C_1C_3R_1R_2g_m + C_1C_3R_LR_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m\right) + s^2\left(C_1C_3R_Lg_m\right) + s^2\left(C_1C_3R_Lg_m\right) +
10.402 INVALID-ORDER-402 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                     H(s) = \frac{C_1C_3C_LL_3R_1R_Lg_ms^4 + g_m + s^3\left(C_1C_3C_LR_1R_3R_Lg_m + C_1C_3L_3R_1g_m + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_Lg_m + C_3C_LR_3R_Lg_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_3R_3g_m + C_LR_Lg_m\right)}{s^4\left(C_1C_3C_LL_3R_1g_m + C_1C_3C_LR_1R_3g_m + C_1C_3C_LR_1R_Lg_m + C_1C_3C_LR_1R_Lg_m + C_1C_3C_LR_1R_2g_m + C_1C_3C_LR_
10.403 INVALID-ORDER-403 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}\right)
                                                                                      H(s) = \frac{C_1C_3C_LL_3L_LR_1g_ms^5 + g_m + s^4\left(C_1C_3C_LL_LR_1R_3g_m + C_3C_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_LL_R_1g_m + C_3C_LL_Rg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_3L_3g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_3R_3g_m\right)}{s^4\left(C_1C_3C_LL_3R_1g_m + C_1C_3C_LL_3R_1g_m + C_1C_3C_LL_Rg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_3L_Lg_m\right) + s^2\left(C_1C_3R_1g_m + C_3
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10.404 INVALID-ORDER-404 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3L_3L_LR_1g_ms^4 + L_Lg_ms + s^3\left(C_1C_3L_LR_1R_3g_m + C_3L_3L_Lg_m\right) + s^2\left(C_1L_LR_1g_m + C_3L_LR_3g_m\right)}{g_m + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_3L_LL_R_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g
10.405 INVALID-ORDER-405 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_3L_LR_1g_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_1R_Lg_m + C_1C_3C_LL_2R_1g_m + C_3C_LL_3R_1g_m + C_1C_3L_LR_1g_m + C_3C_LL_2R_1g_m + C_3C_LL_2R_1g_m + C_3C_LL_2R_1g_m + C_3C_LL_2R_1g_m + C_3C_LL_2R_3g_m + C_3C_LL_3R_3g_m + C_3C_LL_
10.406 INVALID-ORDER-406 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           H(s) = \frac{C_1C_3L_3L_LR_1R_Lg_ms^4 + L_LR_Lg_ms + s^3\left(C_1C_3L_LR_1R_3R_Lg_m + C_3L_LR_1R_2g_ms^4 + L_LR_Lg_ms + s^3\left(C_1C_3L_LR_1R_3R_Lg_m + C_3L_LR_1R_2g_m + C_3L_LR_1R_2g
10.407 INVALID-ORDER-407 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3C_LL_3L_LR_1R_2g_ms^5 + R_Lg_m + s^4\left(C_1C_3C_LL_LR_1R_3R_Lg_m + C_1C_3L_LR_1g_m + C_3C_LL_LR_1R_3g_m + C_1C_LL_LR_1R_2g_m + C_3C_LL_LR_3R_Lg_m + C_3C_LL_LR_3R_Lg_m + C_3C_LL_LR_1R_2g_m + C_3C_LLR_1R_2g_m + C_3C_LLR_1R_2g_m + C_3C_LLR_1R_2g_m +
10.408 INVALID-ORDER-408 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \frac{C_1C_3C_LL_3L_LR_1R_Lg_ms^\circ + R_Lg_m + s^\circ (C_1C_3C_LL_RR_1R_3R_Lg_m + C_3C_LL_3L_LR_1g_m) + s^\circ (C_1C_3L_3R_1R_Lg_m + C_1C_3C_LL_RR_1R_3g_m + C_1C_3C_LL_RR_1R_3g_m + C_1C_3C_LL_RR_1R_3g_m + C_1C_3C_LL_RR_1R_3g_m + C_1C_3C_LL_RR_1R_3g_m + C_1C_3C_LL_RR_1R_2g_m + C_1C_3C_LR_1R_3R_Lg_m + C_1C_3C_LR_1R_1R_2g_m + C_1C_3C_LR_1R_3R_Lg_m + C_1C_3C_LR_1R_1R_1g_m + C_1
10.409 INVALID-ORDER-409 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)
                                                                                                                                                       H(s) = \frac{C_{1}L_{3}R_{1}R_{3}R_{L}g_{m}s^{2} + L_{3}R_{3}R_{L}g_{m}s}{R_{3}R_{L}g_{m} + s^{3}\left(C_{1}C_{3}L_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}L_{3}R_{3}R_{L}\right) + s^{2}\left(C_{1}L_{3}R_{1}R_{3}g_{m} + C_{1}L_{3}R_{1}R_{L}g_{m} + C_{1}L_{3}R_{3} + C_{1}L_{3}R_{L} + C_{3}L_{3}R_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{1}R_{3}R_{L}g_{m} + C_{1}R_{3}R_{L} + L_{3}R_{3}g_{m} + L_{3}R_{L}g_{m}\right)}
10.410 INVALID-ORDER-410 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                    H(s) = \frac{C_1L_3R_1R_3g_ms^2 + L_3R_3g_ms}{R_3g_m + s^3\left(C_1C_3L_3R_1R_3g_m + C_1C_3L_3R_3 + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_3\right) + s^2\left(C_1L_3R_1g_m + C_1L_3 + C_3L_3R_3g_m + C_LL_3R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1R_3 + L_3g_m\right)}
10.411 INVALID-ORDER-411 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                      H(s) = \frac{C_{1}L_{3}R_{1}R_{3}R_{L}g_{m}s^{2} + L_{3}R_{3}R_{L}g_{m}s}{R_{3}R_{L}g_{m} + s^{3}\left(C_{1}C_{3}L_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}L_{3}R_{3}R_{L} + C_{1}C_{L}L_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{3}R_{1}R_{3}g_{m} + C_{1}L_{3}R_{1}R_{2}g_{m} + C_{1}L_{3}R_{3}R_{L}g_{m} + C_{1}L_{3}R_{3}R_{L}g_{m}
10.412 INVALID-ORDER-412 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
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 $H(s) = \frac{C_1C_LL_3R_1R_3R_Lg_ms^3 + L_3R_3g_ms + s^2\left(C_1L_3R_1R_3g_m + C_LL_3R_3R_Lg_m\right)}{R_3g_m + s^4\left(C_1C_3C_LL_3R_1R_3g_m + C_1C_3C_LL_3R_3R_Lg_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_3R_Lg_m\right) + s^2\left(C_1L_3R_1R_3R_Lg_m + C_1C_LL_3R_3R_Lg_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_3R_Lg_m + C_1C_LL_3R_3R_L$

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10.413 INVALID-ORDER-413 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_3L_LR_1R_3g_ms^4 + C_1L_3R_1R_3g_ms^3 + L_3R_3g_ms^3 + L_3R_3g
10.414 INVALID-ORDER-414 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                              H(s) = \frac{C_1L_3L_LR_1R_3g_ms^2 + L_3L_LR_3g_ms}{L_3R_3g_m + L_LR_3g_m + S^3\left(C_1C_3L_3L_LR_1R_3g_m + C_1C_LL_3L_LR_1R_3g_m + C_1L_3L_LR_3g_m + C_1L_3L_2R_3g_m + C_1L_3L_2R_
10.415 INVALID-ORDER-415 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_3L_LR_1R_3g_ms^4 + L_3R_3g_ms + s^3\left(C_1C_LL_3R_1R_3R_Lg_m + C_LL_3R_1R_3R_Lg_m + C_LL_3R_1R_3R_Lg_m + C_LL_3R_1R_3g_ms + s^3\left(C_1C_LL_3R_1R_3g_ms + s^3\left(C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10.416 INVALID-ORDER-416 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_{1}L_{3}L_{L}R_{1}R_{3}R_{L}g_{m}s^{2} + L_{3}L_{L}R_{3}R_{L}g_{m}s}{L_{3}R_{3}R_{L}g_{m} + s^{3}\left(C_{1}C_{3}L_{3}L_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{3}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{3}L_{L}R_{3}R_{L}g_{m} + C_{1}
10.417 INVALID-ORDER-417 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_1C_LL_3L_LR_1R_3R_Lg_ms^4 + L_3R_3R_1
H(s) = \frac{C_1 C_L L_3 L_L R_1 R_3 R_L g_m + s^5 \left(C_1 C_3 C_L L_3 L_L R_1 R_3 R_L g_m + C_1 C_3 L_L L_R R_3 R_L g_m + C_1 C_L L_3 L_L R_1 R_3 g_m + C_1 C_L L_3 L_L R_1 R_2 g_m + C_1 C_L L_3 L_L R_1 R_3 g_m + C_1 C_L L_3 L_L R_1 R_2 g_m + C_1 C_L
10.418 INVALID-ORDER-418 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10.419 INVALID-ORDER-419 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
                                                                                                                                  H(s) = \frac{C_1C_3L_3R_1R_3R_Lg_ms^3 + R_3R_Lg_m + s^2\left(C_1L_3R_1R_Lg_m + C_3L_3R_3R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + L_3R_Lg_m\right)}{R_3g_m + R_Lg_m + s^3\left(C_1C_3L_3R_1R_3g_m + C_1C_3L_3R_1R_Lg_m + C_1C_3L_3R_3R_L\right) + s^2\left(C_1L_3R_1g_m + C_1L_3 + C_3L_3R_3g_m + C_3L_3R_Lg_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_Lg_m + C_1R_1R_Lg_m + C_1R_1R_Lg_m\right)}
10.420 INVALID-ORDER-420 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_1 s}\right)
                                                                                                     H(s) = \frac{C_1C_3L_3R_1R_3g_ms^3 + R_3g_m + s^2\left(C_1L_3R_1g_m + C_3L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + L_3g_m\right)}{g_m + s^4\left(C_1C_3C_LL_3R_1R_3g_m + C_1C_3L_LR_3\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3R_3g_m\right) + s^2\left(C_1C_LR_1R_3g_m + C_1C_LR_3 + C_3L_3g_m\right) + s\left(C_1R_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1C_1R_3g_m\right) 
10.421 INVALID-ORDER-421 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_3L_3R_1R_3R_Lg_m + s^2\left(C_1L_3R_1R_Lg_m + C_3L_3R_3R_Lg_m + s^2\left(C_1L_3R_1R_Lg_m + C_3L_3R_3R_Lg_m + L_3R_Lg_m + L_3R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + L_3R_Lg_m + L_3R_Lg_m
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 \begin{aligned} & \textbf{10.422} \quad \textbf{INVALID-ORDER-422} \ Z(s) = \left( R_1 + \frac{1}{C_1 s}, \ \infty, \ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s} \right) \\ & H(s) = \frac{C_1 C_3 C_L L_3 R_1 R_3 L_2 g_m s^4 + R_3 g_m + s^3 \left( C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_L L_3 R_1 R_2 L_2 g_m + s^2 \left( C_1 C_L R_1 R_3 R_L g_m + C_1 L_3 R_1 g_m + C_1 L_3 R_2 g_m + C_1 L_3 R_2 g_m + C_1 L_3 R_3 g_m + C_1 C_2 L_3 R_3 R_3 + C_1 C_3 L_4 R_3 R_3 g_m + C_1 C_3 L_4 R_3 R_3 g_m + C_1 C_2 L_3 R_3 R_3 g_m + C_1 C_2 R_3 R_3 g_m + C_1 C_2
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10.424 INVALID-ORDER-424 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

10.425 INVALID-ORDER-425 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_1C_3C_LL_3L_LR_1R_3g_ms^5 + R_3g_m + s^4\left(C_1C_3C_LL_3R_1R_3R_Lg_m + C_1C_LL_3L_LR_1g_m + C_3C_LL_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C_LL_3R_3g_m + C_$

10.426 INVALID-ORDER-426 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $H(s) = \frac{C_1C_3L_3L_LR_1R_3R_Lg_m s^4 + L_LR_3}{R_3R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_1R_3R_Lg_m + C_1C_3L_3L_LR_1R_3g_m + C_1C_3L_3L_LR_1R_2g_m + C_1C_3L_3L_LR_1R_Lg_m + C_1C_3L_3L_LR_1R_Lg_m + C_1C_3L_3L_LR_1R_Lg_m + C_1C_3L_3L_LR_1R_2g_m + C_1C_3L_3L_1R_3R_2g_m + C_1C_$

10.427 INVALID-ORDER-427 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_3L_LR_1R_3R_Lg_ms^5 + R_3R_Lg_m + s^4\left(C_1C_3L_3L_LR_1R_3g_m + C_1C_LL_3L_LR_1R_Lg_m + C_3C_LL_3L_LR_3R_Lg_m\right) + s^3\left(C_1C_3L_3R_1R_3R_Lg_m + C_1C_LL_2L_2R_3R_Lg_m + C_1C_LL_3L_LR_1R_2g_m + C_1C_3L_3L_LR_1R_2g_m + C_1C_3L_3L_1R_1R_2g_m + C_1C_3L_3L_1R_2g_m + C_1C_3L_3L_1R_2g_m + C_1C_3L_3L_1R_2g$

10.428 INVALID-ORDER-428 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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

10.429 INVALID-ORDER-429 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L\right)$

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

10.430 INVALID-ORDER-430 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$

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

10.434 INVALID-ORDER-434 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_3L_3L_LR_1R_3g_ms^4 + C_1L_LR_1R_3g_ms^2 + C_3L_3L_LR_3g_ms^3 + L_LR_3g_ms}{R_3g_m + s^5\left(C_1C_3C_LL_3L_LR_3g_m + C_1C_3L_3L_LR_3g_m + C_1C_3L_3L_LR_3g_m + C_1C_3L_3L_LR_3g_m + C_1C_3L_3L_LR_3g_m + C_1C_3L_LR_3g_m + C_1C_3L_3L_LR_3g_m + C_1C_3L_3L_$

10.435 INVALID-ORDER-435 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_1C_3C_LL_3L_LR_1R_3g_ms^5 + R_3g_m + s^4\left(C_1C_3C_LL_3R_1R_3R_Lg_m + C_3C_LL_3L_LR_3g_m\right) + s^3\left(C_1C_3L_3R_1R_3g_m + C_1C_LL_3R_1R_3g_m + C_1C_2L_3R_1R_3g_m + C_1C_3C_LL_3R_1R_3g_m + C$

10.436 INVALID-ORDER-436 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $s) = \frac{C_1 C_3 L_3 L_L R_1 R_3 R_L g_m s^4 + C_1 L_L R_1 R_3 R_L g_m s^2 + C_3 L_2 R_2 R_2 R_3 R_2 R_3 R_2 R_3 R_2 R_3 R_2 R_3 R_4 R_3 R_L R$

10.437 INVALID-ORDER-437 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

10.438 INVALID-ORDER-438 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_1 C_3 C_L L_3 L_L R_1 R_3 R_L g_m s^5 - C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m s^5 - C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_2 g_m + C_1 C_3 C_L L_3 L_L R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 g_m + C_1 C_3 C_L L_3 L$

10.439 INVALID-ORDER-439 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 L_1 R_3 g_m s^2 + R_3 g_m}{C_1 C_L L_1 R_3 q_m s^3 + q_m + s^2 \left(C_1 C_L R_3 + C_1 L_1 q_m \right) + s \left(C_1 + C_L R_3 q_m \right)}$$

10.440 INVALID-ORDER-440
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + R_3R_Lg_m}{C_1C_LL_1R_3R_Lg_ms^3 + R_3g_m + R_Lg_m + s^2\left(C_1C_LR_3R_L + C_1L_1R_3g_m + C_1L_1R_Lg_m\right) + s\left(C_1R_3 + C_1R_L + C_LR_3R_Lg_m\right)}$$

10.441 INVALID-ORDER-441
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1 C_L L_1 R_3 R_L g_m s^3 + C_1 L_1 R_3 g_m s^2 + C_L R_3 R_L g_m s + R_3 g_m}{g_m + s^3 \left(C_1 C_L L_1 R_3 g_m + C_1 C_L L_1 R_L g_m \right) + s^2 \left(C_1 C_L R_3 + C_1 C_L R_L + C_1 L_1 g_m \right) + s \left(C_1 + C_L R_3 g_m + C_L R_L g_m \right)}$$

10.442 INVALID-ORDER-442
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1 C_L L_1 L_L R_3 g_m s^4 + R_3 g_m + s^2 \left(C_1 L_1 R_3 g_m + C_L L_L R_3 g_m\right)}{C_1 C_L L_1 L_L g_m s^4 + g_m + s^3 \left(C_1 C_L L_1 R_3 g_m + C_1 C_L L_L\right) + s^2 \left(C_1 C_L R_3 + C_1 L_1 g_m + C_L L_L g_m\right) + s \left(C_1 + C_L R_3 g_m\right)}$$

10.443 INVALID-ORDER-443
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1 L_1 L_L R_3 g_m s^3 + L_L R_3 g_m s}{C_1 C_L L_1 L_L R_3 g_m s^4 + R_3 g_m + s^3 \left(C_1 C_L L_L R_3 + C_1 L_1 L_L g_m \right) + s^2 \left(C_1 L_1 R_3 g_m + C_1 L_L + C_L L_L R_3 g_m \right) + s \left(C_1 R_3 + L_L g_m \right)}$$

10.444 INVALID-ORDER-444
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.445 INVALID-ORDER-445
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.446 INVALID-ORDER-446
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

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

10.447 INVALID-ORDER-447
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_3R_Lg_ms^4 + R_3R_Lg_m + s^2\left(C_1L_1R_3R_Lg_m + C_LL_LR_3R_Lg_m\right)}{R_3g_m + R_Lg_m + s^4\left(C_1C_LL_1L_LR_3g_m + C_1C_LL_1L_LR_2g_m\right) + s^3\left(C_1C_LL_1R_3R_Lg_m + C_1C_LL_LR_3 + C_1C_LL_LR_4\right) + s^2\left(C_1C_LR_3R_L + C_1L_1R_3g_m + C_1L_LR_3g_m + C_LL_LR_3g_m + C_LL_LR_3g_m\right) + s\left(C_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m + C_1C_LL_1R_3g_m + C_1C_LL_1R_3g_m$$

10.448 INVALID-ORDER-448 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1 L_1 R_L g_m s^2 + R_L g_m}{C_1 C_3 L_1 R_L g_m s^3 + g_m + s^2 \left(C_1 C_3 R_L + C_1 L_1 g_m \right) + s \left(C_1 + C_3 R_L g_m \right)}$$

10.449 INVALID-ORDER-449
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_4 s}\right)$$

$$H(s) = \frac{C_1 L_1 g_m s^2 + g_m}{s^3 \left(C_1 C_3 L_1 g_m + C_1 C_L L_1 g_m \right) + s^2 \left(C_1 C_3 + C_1 C_L \right) + s \left(C_3 g_m + C_L g_m \right)}$$

10.450 INVALID-ORDER-450
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

10.451 INVALID-ORDER-451
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_1R_Lg_ms^3 + C_1L_1g_ms^2 + C_LR_Lg_ms + g_m}{C_1C_3C_LL_1R_Lg_ms^4 + s^3\left(C_1C_3C_LR_L + C_1C_3L_1g_m + C_1C_LL_1g_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_Lg_m\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.452 INVALID-ORDER-452
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_1L_Lg_ms^4 + g_m + s^2\left(C_1L_1g_m + C_LL_Lg_m\right)}{C_1C_3C_LL_1L_Lg_ms^5 + C_1C_3C_LL_Ls^4 + s^3\left(C_1C_3L_1g_m + C_1C_LL_1g_m + C_3C_LL_Lg_m\right) + s^2\left(C_1C_3 + C_1C_L\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.453 INVALID-ORDER-453
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1 L_1 L_L g_m s^3 + L_L g_m s}{C_1 s + g_m + s^4 \left(C_1 C_3 L_1 L_L g_m + C_1 C_L L_1 L_L g_m \right) + s^3 \left(C_1 C_3 L_L + C_1 C_L L_L \right) + s^2 \left(C_1 L_1 g_m + C_3 L_L g_m + C_L L_L g_m \right)}$$

10.454 INVALID-ORDER-454
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_1L_Lg_ms^4 + C_1C_LL_1R_Lg_ms^3 + C_LR_Lg_ms + g_m + s^2\left(C_1L_1g_m + C_LL_Lg_m\right)}{C_1C_3C_LL_1L_Lg_ms^5 + s^4\left(C_1C_3C_LL_1R_Lg_m + C_1C_3C_LL_L\right) + s^3\left(C_1C_3C_LR_L + C_1C_3L_1g_m + C_1C_LL_1g_m + C_3C_LL_Lg_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_Lg_m\right) + s\left(C_3g_m + C_Lg_m\right)}$$

10.455 INVALID-ORDER-455 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.456 INVALID-ORDER-456
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_Lg_ms^4 + C_1L_1L_Lg_ms^3 + L_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_3C_LL_1L_LR_Lg_ms^5 + g_m + s^4\left(C_1C_3C_LL_LR_L + C_1C_3L_1L_Lg_m + S_1\left(C_1C_3L_1R_Lg_m + C_1C_3L_L + C_1C_3L_L + C_1C_3L_LR_Lg_m\right) + s^3\left(C_1C_3L_1R_Lg_m + C_1C_3L_L + C_1C_3L_LR_Lg_m\right) + s^2\left(C_1C_3R_L + C_1L_1g_m + C_3L_Lg_m + C_1L_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_3R_L + C_1L_1g_m\right) + s^2\left(C_1C_3R_L + C_1C_3R_L + C_1C_3R_L + C_1C_3R_L\right) + s^2\left(C_1C_3R_L + C_1C_3R_L + C_1C_3R_L\right) + s^2\left(C_1C_3R_L + C_1C_3R_L\right) + s^2\left(C_1C_3R_L + C_1C_3R_L\right) + s^2\left(C_1C_3R_L + C_1C_3R_L\right) + s^2\left(C_1C_3R_L + C_1C_3R_L\right) + s^2\left(C_1C_3R_L\right) + s$$

10.457 INVALID-ORDER-457
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_Lg_ms^4 + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_3C_LL_1L_LR_Lg_ms^5 + g_m + s^4\left(C_1C_3C_LL_LR_L + C_1C_LL_1L_Lg_m\right) + s^3\left(C_1C_3L_1R_Lg_m + C_1C_LL_1R_Lg_m + C_1C_LL_LR_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_1L_1g_m + C_LL_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_1L_1g_m + C_LL_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_L + C_1C_LR_L + C_1C_LR_Lg_m\right) + s^2\left(C_1C_3R_L + C_1C_LR_Lg_m\right) + s^2\left(C_1C_3R_Lg_m\right) +$$

10.458 INVALID-ORDER-458 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)$ $H(s) = \frac{C_{1}L_{1}R_{3}R_{L}g_{m}s^{2} + R_{3}R_{L}g_{m}}{C_{1}C_{3}L_{1}R_{3}R_{L}g_{m}s^{3} + R_{3}g_{m} + R_{L}g_{m} + s^{2}\left(C_{1}C_{3}R_{3}R_{L} + C_{1}L_{1}R_{3}g_{m} + C_{1}L_{1}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L} + C_{3}R_{3}R_{L}g_{m}\right)}$ **10.459** INVALID-ORDER-459 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1 L_1 R_3 g_m s^2 + R_3 g_m}{g_m + s^3 (C_1 C_3 L_1 R_3 g_m + C_1 C_L L_1 R_3 g_m) + s^2 (C_1 C_3 R_3 + C_1 C_L R_3 + C_1 L_1 g_m) + s (C_1 + C_3 R_3 g_m + C_L R_3 g_m)}$ **10.460** INVALID-ORDER-460 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + R_3R_Lg_m}{R_3g_m + R_Lg_m + s^3\left(C_1C_3L_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_LR_3R_L + C_1L_1R_3g_m + C_1L_1R_Lg_m\right) + s\left(C_1R_3 + C_1R_L + C_3R_3R_Lg_m + C_LR_3R_Lg_m\right)}$ **10.461** INVALID-ORDER-461 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1R_3R_Lg_ms^3 + C_1L_1R_3g_ms^2 + C_LR_3R_Lg_ms + R_3g_m}{C_1C_3C_LL_1R_3R_Lg_ms^4 + g_m + s^3\left(C_1C_3C_LR_3R_L + C_1C_3L_1R_3g_m + C_1C_LL_1R_2g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3$ **10.462** INVALID-ORDER-462 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_LR_3g_ms^4 + R_3g_m + s^2\left(C_1L_1R_3g_m + C_LL_LR_3g_m\right)}{C_1C_3C_LL_1L_LR_3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_LR_3 + C_1C_LL_1L_2g_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_LL_1+C_3C_LL_L+C_3C_LL_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1L_1g_m + C_LL_2g_m\right) + s\left(C_1C_3R_3g_m + C_1C_LL_1R_3g_m + C_1C_LL_1R_3g_m + C_1C_LL_1R_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3 + C_1C_LR_3 + C_1C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3 + C_1C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3 + C_1C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3 + C_1C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR$ **10.463** INVALID-ORDER-463 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}L_{1}L_{L}R_{3}g_{m}s^{3} + L_{L}R_{3}g_{m}s}{R_{3}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{3}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{3} + C_{1}L_{L}L_{R}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}g_{m} + C_{1}L_{L} + C_{3}L_{L}R_{3}g_{m} + C_{L}L_{L}R_{3}g_{m}\right) + s\left(C_{1}R_{3} + L_{L}g_{m}\right)}$ **10.464** INVALID-ORDER-464 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_R_3g_ms^4 + C_1C_LL_1R_3R_Lg_ms^3 + C_LR_3R_Lg_ms + R_3g_m + s^2\left(C_1L_1R_3g_m + C_LL_LR_3g_m\right)}{C_1C_3C_LL_1L_R_3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_1R_3R_Lg_m + C_1C_LL_1L_Lg_m\right) + s^3\left(C_1C_3C_LR_3R_L + C_1C_LL_1R_3g_m + C_1C_LL_1R_3g_m + C_1C_LL_1R_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_LR_3$ **10.465** INVALID-ORDER-465 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_{1}L_{1}L_{L}R_{3}R_{L}g_{m}s^{3} + L_{L}R_{3}R_{L}g_{m}s}{R_{3}R_{L}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{3}R_{L} + C_{1}C_{L}L_{L}R_{3}R_{L} + C_{1}L_{L}R_{3}g_{m} + C_{1}L_{L}R_{3}g_{m} + C_{1}L_{L}R_{3} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}R_{3}R_{L}g_{m} + C_{1}L_{L}R_{$ 10.466 INVALID-ORDER-466 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $C_1C_LL_1L_LR_3R_Lg_ms^4 + C_1L_1L_LR_3g_ms^3 + L_LR_3g_ms + R_3R_Lg_m + s^2\left(C_1L_1R_3R_Lg_m + C_LL_LR_3R_Lg_m\right)$ $H(s) = \frac{C_1C_LL_1L_LR_3R_Lg_ms^4 + C_1L_1L_LR_3g_ms^3 + L_LR_3g_ms^3 + L_LR_3g_ms^3 + L_LR_3g_ms^3 + L_LR_3g_ms^3 + L_LR_3g_ms^4 + C_1L_LR_3R_Lg_m + C_2L_LR_3R_Lg_m + C_2L_LR_3R_Lg_m + C_3L_LR_3R_Lg_m + C_3L$

 $H(s) = \frac{C_1C_LL_1L_LR_3R_Lg_m + s \cdot (C_1L_1L_2R_3R_Lg_m + s \cdot (C_1L_1R_3R_Lg_m + s \cdot (C_$

 $C_1C_LL_1L_LR_3R_Lg_ms^4 + R_3R_Lg_m + s^2(C_1L_1R_3R_Lg_m + C_LL_LR_3R_Lg_m)$

10.467 INVALID-ORDER-467 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

10.468 INVALID-ORDER-468 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$ $H(s) = \frac{C_{1}C_{3}L_{1}R_{3}R_{L}g_{m}s^{3} + C_{1}L_{1}R_{L}g_{m}s^{2} + C_{3}R_{3}R_{L}g_{m}s + R_{L}g_{m}}{g_{m} + s^{3}\left(C_{1}C_{3}L_{1}R_{3}g_{m} + C_{1}C_{3}L_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{3} + C_{1}C_{3}R_{L} + C_{1}L_{1}g_{m}\right) + s\left(C_{1} + C_{3}R_{3}g_{m} + C_{3}R_{L}g_{m}\right)}$ **10.469** INVALID-ORDER-469 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_3L_1R_3g_ms^3 + C_1L_1g_ms^2 + C_3R_3g_ms + g_m}{C_1C_3C_LL_1R_3g_ms^4 + s^3\left(C_1C_3C_LR_3 + C_1C_3L_1g_m + C_1C_LL_1g_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_3g_m\right) + s\left(C_3g_m + C_Lg_m\right)}$ 10.470 INVALID-ORDER-470 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1C_3L_1R_3R_Lg_ms^3 + C_1L_1R_Lg_ms^2 + C_3R_3R_Lg_ms + R_Lg_m}{C_1C_3C_LL_1R_3R_Lg_ms^4 + g_m + s^3\left(C_1C_3C_LR_3R_L + C_1C_3L_1R_3g_m + C_1C_3L_1R_Lg_m\right) + s^2\left(C_1C_3R_3 + C_1C_3R_L + C_1C_LR_L + C_1L_1g_m + C_3C_LR_3R_Lg_m\right) + s\left(C_1 + C_3R_3g_m + C_3R_Lg_m + C_LR_Lg_m\right)}$ **10.471** INVALID-ORDER-471 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_{1}C_{3}C_{L}L_{1}R_{3}R_{L}g_{m}s^{4} + g_{m} + s^{3}\left(C_{1}C_{3}L_{1}R_{3}g_{m} + C_{1}C_{L}L_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}g_{m} + C_{3}C_{L}R_{3}R_{L}g_{m}\right) + s\left(C_{3}R_{3}g_{m} + C_{L}R_{L}g_{m}\right)}{s^{4}\left(C_{1}C_{3}C_{L}L_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}R_{3} + C_{1}C_{3}C_{L}R_{3} + C_{1}C_{3}C_{L}R_{1} + C_{1}C_{3}L_{1}g_{m} + C_{1}C_{L}L_{1}g_{m}\right) + s^{2}\left(C_{1}C_{3} + C_{1}C_{L} + C_{3}C_{L}R_{3}g_{m} + C_{2}C_{L}R_{2}g_{m}\right) + s\left(C_{3}R_{3}g_{m} + C_{2}R_{2}g_{m}\right) + s\left(C_{3}R_{3}g_{m} + C_{2}R_{3}g_{m}\right) + s\left(C_{3}R_{3}g_{m} + C_{2}R_{3}g_{m}\right) + s\left(C_{3}R_{3}g_{m} + C_{2}R_{3}g_{m}\right) + s\left(C_{3}R_{3}g_{m} + C_{2}R_{3}g_{m}\right) + s\left(C_{3}R_$ **10.472** INVALID-ORDER-472 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_3C_LL_1L_LR_3g_ms^5 + C_1C_LL_1L_Lg_ms^4 + C_3R_3g_ms + g_m + s^3\left(C_1C_3L_1R_3g_m + C_3C_LL_LR_3g_m\right) + s^2\left(C_1L_1g_m + C_LL_Lg_m\right)}{C_1C_3C_LL_1L_Lg_ms^5 + s^4\left(C_1C_3C_LL_1R_3g_m + C_1C_3C_LL_L\right) + s^3\left(C_1C_3C_LR_3 + C_1C_3L_1g_m + C_1C_LL_1g_m + C_3C_LL_Lg_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_3g_m\right) + s\left(C_3g_m + C_Lg_m\right)}$ 10.473 INVALID-ORDER-473 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}C_{3}L_{1}L_{L}R_{3}g_{m}s^{4} + C_{1}L_{1}L_{L}g_{m}s^{3} + C_{3}L_{L}R_{3}g_{m}s^{2} + L_{L}g_{m}s}{C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}g_{m}s^{5} + g_{m} + s^{4}\left(C_{1}C_{3}C_{L}L_{L}R_{3} + C_{1}C_{3}L_{L}L_{g}_{m} + C_{1}C_{L}L_{L}L_{g}_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{L} + C_{3}C_{L}L_{L}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{3} + C_{1}L_{1}g_{m} + C_{2}L_{L}g_{m}\right) + s\left(C_{1} + C_{3}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{3} + C_{1}L_{1}g_{m} + C_{2}L_{L}g_{m}\right) + s\left(C_{1} + C_{3}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{3} + C_{1}L_{1}g_{m} + C_{2}L_{L}g_{m}\right) + s\left(C_{1} + C_{3}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{3} + C_{1}L_{1}g_{m} + C_{2}L_{L}g_{m}\right) + s\left(C_{1}C_{3}R_{3} + C_{1}L_{1}g_{m}\right) +$

10.475 INVALID-ORDER-475 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.476 INVALID-ORDER-476 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_LR_3R_Lg_m s^5 + R_Lg_m + s^4\left(C_1C_3L_1L_LR_3g_m + C_1C_LL_1L_LR_Lg_m\right) + s^3\left(C_1C_3L_1R_3R_Lg_m + C_1L_LR_3g_m +$

10.477 INVALID-ORDER-477 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_LR_3R_Lg_ms^5 + C_1C_LL_1L_LR_2g_ms^4 + C_3R_3R_Lg_ms + R_Lg_m + s^3\left(C_1C_3L_1R_3R_Lg_m + C_3C_LL_LR_3R_Lg_m\right) + s^2\left(C_1L_1R_Lg_m + C_LL_LR_Lg_m\right)}{g_m + s^5\left(C_1C_3C_LL_1L_LR_3g_m + C_1C_3C_LL_1L_LR_3g_m + C_1C_3C_LL_LR_3R_Lg_m\right) + s^4\left(C_1C_3C_LL_1R_3R_Lg_m + C_1C_3C_LL_1R_3R_Lg_m\right) + s^4\left(C_1C_3C_LL_1R_3R_Lg_m + C_1C_2C_LL_1R_2g_m\right) + s^4\left(C_1C_3C_LL_1R_3R_Lg_m +$

10.478 INVALID-ORDER-478 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$ $H(s) = \frac{C_{1}C_{3}L_{1}L_{3}R_{L}g_{m}s^{4} + R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{L}g_{m} + C_{3}L_{3}R_{L}g_{m}\right)}{C_{1}C_{3}L_{1}L_{3}g_{m}s^{4} + g_{m} + s^{3}\left(C_{1}C_{3}L_{1}R_{L}g_{m} + C_{1}C_{3}L_{3}\right) + s^{2}\left(C_{1}C_{3}R_{L} + C_{1}L_{1}g_{m} + C_{3}L_{3}g_{m}\right) + s\left(C_{1} + C_{3}R_{L}g_{m}\right)}$ **10.479** INVALID-ORDER-479 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_3L_1L_3g_ms^4 + g_m + s^2\left(C_1L_1g_m + C_3L_3g_m\right)}{C_1C_3C_LL_1L_3g_ms^5 + C_1C_3C_LL_3s^4 + s^3\left(C_1C_3L_1g_m + C_1C_LL_1g_m + C_3C_LL_3g_m\right) + s^2\left(C_1C_3 + C_1C_L\right) + s\left(C_3g_m + C_Lg_m\right)}$ **10.480** INVALID-ORDER-480 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_{1}C_{3}L_{1}L_{3}R_{L}g_{m}s^{4} + R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{L}g_{m} + C_{3}L_{3}R_{L}g_{m}\right)}{C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m}s^{5} + g_{m} + s^{4}\left(C_{1}C_{3}C_{L}L_{3}R_{L} + C_{1}C_{3}L_{1}L_{3}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{1}R_{L}g_{m} + C_{1}C_{3}L_{3} + C_{1}C_{L}L_{1}R_{L}g_{m} + C_{3}C_{L}L_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{L} + C_{1}C_{L}R_{L} + C_{1$ **10.481** INVALID-ORDER-481 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_3C_LL_1L_3R_Lg_ms^5 + C_1C_3L_1L_3g_ms^4 + C_LR_Lg_ms + g_m + s^3\left(C_1C_LL_1R_Lg_m + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1L_1g_m + C_3L_3g_m\right)}{C_1C_3C_LL_1L_3g_ms^5 + s^4\left(C_1C_3C_LL_1R_Lg_m + C_1C_3C_LL_3\right) + s^3\left(C_1C_3C_LR_L + C_1C_3L_1g_m + C_1C_LL_1g_m + C_3C_LL_3g_m\right) + s^2\left(C_1C_3 + C_1C_L + C_3C_LR_Lg_m\right) + s\left(C_3g_m + C_Lg_m\right)}$ **10.482** INVALID-ORDER-482 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}\right)$ $H(s) = \frac{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^4\left(C_1C_3L_1L_3g_m + C_1C_LL_1L_Lg_m + C_3C_LL_3L_Lg_m\right) + s^2\left(C_1L_1g_m + C_3L_3g_m + C_LL_Lg_m\right)}{s^5\left(C_1C_3C_LL_1L_3g_m + C_1C_3C_LL_1L_Lg_m\right) + s^4\left(C_1C_3C_LL_3 + C_1C_3C_LL_1\right) + s^3\left(C_1C_3L_1g_m + C_3C_LL_1g_m + C_3C_LL_1g_m\right) + s^2\left(C_1C_3 + C_1C_1\right) + s\left(C_3g_m + C_Lg_m\right)}$ **10.483** INVALID-ORDER-483 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}C_{3}L_{1}L_{3}L_{L}g_{m}s^{5} + L_{L}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}g_{m} + C_{3}L_{3}L_{L}g_{m}\right)}{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}g_{m}s^{6} + C_{1}C_{3}C_{L}L_{3}L_{L}s^{5} + C_{1}s + g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{2}g_{m} + C_{1}C_{L}L_{1}L_{L}g_{m} + C_{3}C_{L}L_{3}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{3} + C_{1}C_{3}L_{L} + C_{1}C_{L}L_{L}\right) + s^{2}\left(C_{1}L_{1}g_{m} + C_{3}L_{2}g_{m} + C_{2}L_{L}g_{m}\right)}$ **10.484** INVALID-ORDER-484 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

10.485 INVALID-ORDER-485 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.486 INVALID-ORDER-486 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_3L_LR_Lg_ms^6 + C_1C_3L_1L_3L_Lg_ms^5 + L_Lg_ms + R_Lg_m + s^4\left(C_1C_3L_1L_3R_Lg_m + C_1C_LL_1L_LR_Lg_m + C_3C_LL_3L_LR_Lg_m\right) + s^3\left(C_1L_1L_Lg_m + C_3L_3L_Lg_m\right) + s^2\left(C_1L_1R_Lg_m + C_3L_3R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_1L_LR_Lg_m + C_1C_3L_1L_2g_m + C_1C_3L_1L_2g_m + C_1C_3L_1L_2g_m\right) + s^3\left(C_1L_3L_Lg_m + C_3L_3L_Lg_m\right) + s^3\left(C_1L_3L_Lg_m + C_3L_3L_Lg_m\right) + s^2\left(C_1L_3L_LR_Lg_m + C_3L_3L_Lg_m\right) + s^2\left(C_1L_3L_LR_Lg_m + C_3L_3L_Lg_m\right) + s^2\left(C_1L_3L_LR_Lg_m + C_3L_3L_LR_Lg_m\right) + s^2\left(C_1L_3L_LR_Lg_m + C_3L_LR_Lg_m\right) + s^2\left(C_1L_3L_LR_Lg_m + C_3L_LR_Lg_m\right) + s^2\left(C_1L_3L_LR_Lg_m + C_3L_LR_Lg_m\right) + s^2\left(C_1L_3L_LR_Lg_m\right) + s^2\left(C_1L_3L_LR_L$

10.487 INVALID-ORDER-487 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_3L_Lg_ms^6 + R_Lg_m + s^4\left(C_1C_3L_1L_3R_Lg_m + C_1C_LL_1L_LR_Lg_m + C_3C_LL_3L_LR_Lg_m\right) + s^2\left(C_1L_1R_Lg_m + C_3L_3R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_1L_3R_Lg_m + C_1C_3C_LL_1L_1R_Lg_m + C_1C_3C_LL_1L_1R_Lg_m + C_1C_3C_LL_1R_Lg_m + C_1C$

10.488 INVALID-ORDER-488 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)$ $H(s) = \frac{C_1L_1L_3R_Lg_ms^3 + L_3R_Lg_ms}{C_1C_3L_1L_3R_Lg_ms^4 + R_Lg_m + s^3\left(C_1C_3L_3R_L + C_1L_1L_3g_m\right) + s^2\left(C_1L_1R_Lg_m + C_1L_3 + C_3L_3R_Lg_m\right) + s\left(C_1R_L + L_3g_m\right)}$ **10.489** INVALID-ORDER-489 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1L_1L_3g_ms^3 + L_3g_ms}{C_1s + g_m + s^4\left(C_1C_3L_1L_3g_m + C_1C_LL_1L_3g_m\right) + s^3\left(C_1C_3L_3 + C_1C_LL_3\right) + s^2\left(C_1L_1a_m + C_2L_3a_m + C_LL_2a_m\right)}$ 10.490 INVALID-ORDER-490 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1L_1L_3R_Lg_ms^3 + L_3R_Lg_ms}{R_Lg_m + s^4\left(C_1C_3L_1L_3R_Lg_m + C_1C_LL_1L_3R_Lg_m\right) + s^3\left(C_1C_3L_3R_L + C_1C_LL_3R_L + C_1L_1L_3g_m\right) + s^2\left(C_1L_1R_Lg_m + C_1L_3 + C_3L_3R_Lg_m + C_LL_3R_Lg_m\right) + s\left(C_1R_L + L_3g_m\right)}{R_Lg_m + s^4\left(C_1C_3L_1L_3R_Lg_m + C_1C_LL_1L_3R_Lg_m\right) + s^3\left(C_1C_3L_3R_L + C_1C_LL_3R_Lg_m\right) + s^2\left(C_1L_1R_Lg_m + C_1L_3 + C_3L_3R_Lg_m\right) + s\left(C_1R_L + L_3g_m\right)}$ 10.491 INVALID-ORDER-491 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_{1}C_{L}L_{1}L_{3}R_{L}g_{m}s^{4} + C_{1}L_{1}L_{3}g_{m}s^{3} + C_{L}L_{3}R_{L}g_{m}s^{2} + L_{3}g_{m}s}{C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m}s^{5} + g_{m} + s^{4}\left(C_{1}C_{3}C_{L}L_{3}R_{L} + C_{1}C_{3}L_{1}L_{3}g_{m} + C_{1}C_{L}L_{1}R_{2}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{3} + C_{1}C_{L}L_{1}R_{L}g_{m} + C_{1}C_{L}L_{3} + C_{3}C_{L}L_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{L} + C_{1}L_{1}g_{m} + C_{3}L_{3}g_{m} + C_{L}L_{3}g_{m}\right) + s\left(C_{1} + C_{L}R_{L}g_{m}\right) + s\left(C_{1} + C_{L}R_{L}$ **10.492** INVALID-ORDER-492 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_3L_Lg_ms^5 + L_3g_ms + s^3\left(C_1L_1L_3g_m + C_LL_3L_Lg_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + C_1C_3C_LL_3L_Ls^5 + C_1s + g_m + s^4\left(C_1C_3L_1L_3g_m + C_1C_LL_1L_2g_m + C_3C_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_3 + C_1C_LL_3 + C_1C_LL_1\right) + s^2\left(C_1L_1g_m + C_3L_3g_m + C_LL_3g_m + C_LL_2g_m\right)}$ 10.493 INVALID-ORDER-493 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}L_{1}L_{3}L_{L}g_{m}s^{3} + L_{3}L_{L}g_{m}s}{L_{3}g_{m} + L_{L}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}L_{L}g_{m} + C_{1}C_{L}L_{1}L_{3}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{3}L_{L} + C_{1}C_{L}L_{3}L_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}g_{m} + C_{1}L_{1}L_{L}g_{m} + C_{2}L_{3}L_{L}g_{m}\right) + s\left(C_{1}L_{3} + C_{1}L_{L}\right)}$ **10.494** INVALID-ORDER-494 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_3L_Lg_ms^5 + C_1C_LL_1L_3R_Lg_ms^4 + C_LL_3R_Lg_ms^4 + C_LL_3R_Lg_ms^2 + L_3g_ms + s^3\left(C_1L_1L_3g_m + C_LL_3L_Lg_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_1L_3R_Lg_m + C_1C_3C_LL_3L_L\right) + s^4\left(C_1C_3C_LL_3R_L + C_1C_3L_1L_3g_m + C_1C_LL_1L_2g_m + C_3C_LL_3L_2g_m\right) + s^3\left(C_1C_3L_1L_3R_Lg_m + C_1C_LL_1L_2g_m + C_3C_LL_3L_2g_m\right) + s^3\left(C_1C_3C_LL_1L_3R_Lg_m + C_1C_LL_1L_3R_Lg_m + C_1C_LL_1L_2g_m + C_3C_LL_3L_2g_m\right) + s^3\left(C_1C_3C_LL_1L_3R_Lg_m + C_1C_LL_1L_3R_Lg_m + C_1C_LL_1L_2g_m + C_3C_LL_3L_2g_m\right) + s^3\left(C_1C_3C_LL_1L_3R_Lg_m + C_1C_LL_1L_3R_Lg_m + C_1C_LL_1L_2g_m + C_3C_LL_3R_Lg_m\right) + s^3\left(C_1C_3C_LL_3R_Lg_m + C_1C_LL_3R_Lg_m + C_1C_LL_3R_Lg_m\right) + s^3\left(C_1C_3C_LL_3R_Lg_m + C_1C_LL_3R_Lg_m + C_1C_LL_3R_Lg_m\right) + s^3\left(C_1C_3C_LL_3R_Lg_m + C_1C_LL_3R_Lg_m\right) + s^3\left(C_1C_3C_LL_3R_Lg_m\right) +$ 10.495 INVALID-ORDER-495 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_{1}L_{1}L_{3}L_{L}R_{L}g_{m}s^{3} + L_{3}L_{L}R_{L}g_{m}s}{L_{3}R_{L}g_{m} + L_{L}R_{L}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{3}L_{L}R_{L} + C_{1}L_{1}L_{3}L_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}g_{m} + C_{1}L_{1}L_{L}R_{L}g_{m} + C_{1}L_{3}L_{L}R_{L}g_{m}\right) + s\left(C_{1}L_{3}R_{L}R_{L} + C_{1}L_{L}R_{L}g_{m}\right) + s\left(C_{1}L_{3}R_{L}R_{L} + C_{1}L_{2}L_{L}R_{L}g_{m}\right) + s\left(C_{1}L_{3}R_{L}R_{L}g_{m}\right) + s\left(C_{1}R_{3}R_{L}R_{L}g_{m}\right) + s\left(C_{1}R_{$ 10.496 INVALID-ORDER-496 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $C_1C_LL_1L_3L_LR_Lg_ms^5 + C_1L_1L_3L_Lg_ms^4 + L_3L_Lg_ms^2 + L_3R_Lg_ms + s^3\left(C_1L_1L_3R_Lg_m + C_LL_3L_LR_Lg_m\right)$ $H(s) = \frac{C_1C_LL_1L_3L_LR_Lg_ms^5 + C_1L_1L_3L_Lg_ms^4 + L_3L_Lg_ms^4 + L_3L_Lg$ 10.497 INVALID-ORDER-497 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_1C_2L_1L_3L_LLg_{m^5} + L_3L_Lg_{m^5} + C_1C_3L_LLg_{m^5} + C_1C_3L_Lg_{m^5} + C_1C_3L_Lg_{m^5}$

 $C_1C_LL_1L_3L_LR_Lg_ms^5 + L_3R_Lg_ms + s^3(C_1L_1L_3R_Lg_m + C_LL_3L_LR_Lg_m)$

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H(s) = \frac{C_{1}C_{3}L_{1}L_{3}g_{m}s^{4} + C_{1}C_{3}L_{1}R_{3}g_{m}s^{3} + C_{3}R_{3}g_{m}s + g_{m} + s^{2}\left(C_{1}L_{1}g_{m} + C_{3}L_{3}g_{m}\right)}{C_{1}C_{3}C_{L}L_{1}L_{3}q_{m}s^{5} + s^{4}\left(C_{1}C_{3}C_{L}L_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{3}\right) + s^{3}\left(C_{1}C_{3}C_{L}R_{3} + C_{1}C_{3}L_{1}g_{m} + C_{1}C_{L}L_{1}g_{m} + C_{3}C_{L}L_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3} + C_{1}C_{L} + C_{3}C_{L}R_{3}g_{m}\right) + s\left(C_{3}g_{m} + C_{L}g_{m}\right)}{C_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{3}C_{L}L_{1}C_{2}C_{L}L_{1}C_{3}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L_{1}C_{2}C_{L}L
10.500 INVALID-ORDER-500 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_3L_1L_3R_Lg_ms^4 + C_1C_3L_1R_3R_Lg_ms^3 + C_3R_3R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_3L_3R_Lg_m\right)}{C_1C_3C_LL_1L_3R_Lg_ms^5 + g_m + s^4\left(C_1C_3C_LL_1R_3R_Lg_m + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3C_LR_3R_L + C_1C_3L_1R_3g_m + C_1C_3L_1R_2g_m + C_1C_3L_1R_Lg_m + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_Lg_m + C_3C_LR_3R_Lg_m + C_3C_LR_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_Lg_m + C_3C_LR_3R_Lg_m + C_3C_LR_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_Lg_m + C_3C_LR_3R_Lg_m + C_3C_LR_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_Lg_m + C_3C_LR_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_Lg_m\right)
10.501 INVALID-ORDER-501 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                H(s) = \frac{C_1C_3C_LL_1L_3R_Lg_ms^5 + g_m + s^4\left(C_1C_3C_LL_1R_3R_Lg_m + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_LL_1R_Lg_m + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1L_1g_m + C_3C_LR_3R_Lg_m + C_3L_3g_m\right) + s\left(C_3R_3g_m + C_LR_Lg_m\right)}{C_1C_3C_LL_1L_3g_ms^5 + s^4\left(C_1C_3C_LL_1R_3g_m + C_1C_3C_LL_3\right) + s^3\left(C_1C_3C_LR_3 + C_1C_3C_LR_1 + C_1C_3L_1g_m + C_3C_LL_3g_m\right) + s^2\left(C_1C_3 + C_1C_4 + C_3C_LR_3g_m + C_3C_LR_3g_m\right) + s^2\left(C_1C_3 + C_1C_4 + C_3C_LR_3g_m + C_3C_LR_3g_m\right) + s^2\left(C_3C_4R_3R_Lg_m + C_3C_LR_3g_m\right) + s^2\left(C_3C_4R_3R_2g_m + C_3C_LR_3g_m\right) + s^2\left(C_3C_4R_3R_3g_m + C_3C_4R_3g_m\right) + s^2\left(C_3C_4
10.502 INVALID-ORDER-502 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                        H(s) = \frac{C_1C_3C_LL_1L_3L_Lg_ms^6 + C_1C_3C_LL_1L_LR_3g_ms^5 + C_3R_3g_ms + g_m + s^4\left(C_1C_3L_1L_3g_m + C_1C_LL_1L_Lg_m + C_3C_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_3C_LL_LR_3g_m\right) + s^2\left(C_1L_1g_m + C_3L_3g_m + C_LL_Lg_m\right)}{s^5\left(C_1C_3C_LL_1L_3g_m + C_1C_3C_LL_1L_2g_m\right) + s^4\left(C_1C_3C_LL_1R_3g_m + C_1C_3C_LL_1\right) + s^3\left(C_1C_3C_LR_3 + C_1C_3L_1g_m + C_3C_LL_1g_m\right) + s^2\left(C_1C_3 + C_1C_3C_LR_3g_m + C_3C_LL_1g_m\right) + s^2\left(C_1C_3 + C_1C_3C_LR_3g_m + C_3C_LL_1g_m\right) + s^2\left(C_1C_3C_LR_3g_m + C_3C_LR_3g_m\right) + s^2\left(C_1C_3C_L
10.503 INVALID-ORDER-503 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                   \frac{C_{1}C_{3}L_{1}L_{2}L_{g}ms^{5} + C_{1}C_{3}L_{1}L_{L}R_{3}g_{m}s^{4} + C_{3}L_{L}R_{3}g_{m}s^{2} + L_{L}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}g_{m} + C_{3}L_{3}L_{L}g_{m}\right)}{C_{1}C_{3}C_{L}L_{1}L_{2}g_{m}s^{6} + g_{m} + s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}L_{L}L_{L}R_{3} + C_{1}C_{3}L_{L}L_{L}g_{m} + C_{1}C_{L}L_{L}L_{g}m + C_{3}C_{L}L_{3}L_{g}m\right) + s^{3}\left(C_{1}C_{3}L_{L}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}L_{L}L_{L}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{3} + C_{1}L_{L}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{3} + C_{1}L_{L}R_{3}g_{m}\right)
10.504 INVALID-ORDER-504 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_1L_3R_Lg_m + C_1C_3C_LL_1L_2R_3g_m\right) + s^4\left(C_1C_3C_LL_1R_3g_m + C_1C_LL_1L_2g_m + C_3C_LL_1R_3g_m + C_1C_LL_1R_Lg_m + C_3C_LL_1R_3g_m + C_1C_LL_1R_Lg_m + C_3C_LL_1R_3g_m\right) + s^2\left(C_1L_1g_m + C_3C_LL_1R_3g_m + C_1C_LL_1R_Lg_m + C_3C_LL_1R_3g_m + C_3C_LL_1R_3
10.505 INVALID-ORDER-505 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_1C_3L_1L_3L_LR_Lg_ms^5 + C_1C_3L_1L_LR_3R_Lg_ms^4 + C_3L_LR_3R_Lg_ms^2
H(s) = \frac{1}{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{L}g_{m}s^{6} + R_{L}g_{m} + s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}R_{L}g_{m} + C_{1}C_{3}L_{L}L_{L}R_{3}g_{m} + C_{1}C_{3}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}L_{1}L_{L}R_{1}g_{m} + C_{1}C_{3}L_{1}L_{1}R_{1}g_{m} + C_{1}C_
10.506 INVALID-ORDER-506 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_g_ms^6 + R_Lg_m + s^5\left(C_1C_3C_LL_1L_LR_3R_Lg_m + C_1C_3L_1L_3R_Lg_m + C_1C_3L_1L_LR_3g_m + C_1C_3L_1L_LR_3g_m + C_1C_3L_1L_LR_2g_m + S^4\left(C_1C_3L_1L_LR_3g_m + C_1C_3L_1L_LR_3g_m + C_1C_3L_LL_RL_g_m + S^4\left(C_1C_3L_1L_LR_3g_m + C_1C_3L_LL_RL_g_m + C_1C_3L_LL_RL_g_m + C_1C_3L_LL_RL_g_m + S^4\left(C_1C_3L_LL_RL_g_m + C_1C_3L_LL_RL_g_m + C_1
10.507 INVALID-ORDER-507 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   H(s) = \frac{1}{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}g_{m}s^{6} + g_{m} + s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}R_{2}R_{L}g_{m} 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               77
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 $H(s) = \frac{C_1C_3L_1L_3R_Lg_ms^4 + C_1C_3L_1R_3R_Lg_ms^3 + C_3R_3R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_3L_3R_Lg_m\right)}{C_1C_3L_1L_3g_ms^4 + g_m + s^3\left(C_1C_3L_1R_3g_m + C_1C_3L_1R_Lg_m + C_1C_3L_3\right) + s^2\left(C_1C_3R_3 + C_1C_3R_L + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1 + C_3R_3g_m + C_3R_Lg_m\right)}$

10.498 INVALID-ORDER-498 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

10.499 INVALID-ORDER-499 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$

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10.508 INVALID-ORDER-508 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)
                                                                                                                                                                 H(s) = \frac{C_{1}L_{1}R_{3}R_{L}g_{m}s^{3} + L_{3}R_{3}R_{L}g_{m}s}{C_{1}C_{3}L_{1}L_{3}R_{3}R_{L}g_{m} + s^{3}\left(C_{1}C_{3}L_{3}R_{3}R_{L} + C_{1}L_{1}L_{3}R_{3}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}R_{L}g_{m} + C_{1}L_{3}R_{3} + C_{1}L_{3}R_{L} + C_{3}L_{3}R_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{3}R_{L} + L_{3}R_{3}g_{m} + L_{3}R_{L}g_{m}\right)}
10.509 INVALID-ORDER-509 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                            H(s) = \frac{C_1L_1L_3R_3g_ms^3 + L_3R_3g_ms}{R_3g_m + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_3R_3g_m\right) + s^3\left(C_1C_3L_3R_3 + C_1L_LL_3R_3 + C_1L_LL_3R_3g_m\right) + s^2\left(C_1L_1R_3g_m + C_1L_3 + C_3L_3R_3g_m + C_LL_3R_3g_m\right) + s\left(C_1R_3 + L_3g_m\right)}
10.510 INVALID-ORDER-510 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
               H(s) = \frac{C_1L_1L_3R_3R_Lg_ms^3 + L_3R_3R_Lg_ms}{R_3R_Lg_m + s^4\left(C_1C_3L_1L_3R_3R_Lg_m + C_1C_LL_1L_3R_3R_Lg_m\right) + s^3\left(C_1C_3L_3R_3R_L + C_1C_LL_3R_3R_L + C_1L_1L_3R_3g_m + C_1L_1L_3R_3g_m + C_1L_1R_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m\right) + s^2\left(C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_
10.511 INVALID-ORDER-511 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_3R_3R_Lg_ms^4 + C_1L_1L_3R_3g_ms^3 + C_LL_3R_3R_Lg_ms^2 + L_3R_3g_ms}{C_1C_3C_LL_1L_3R_3R_Lg_ms^5 + R_3g_m + s^4\left(C_1C_3C_LL_3R_3R_L + C_1C_LL_1L_3R_3g_m + C_1C_LL_1L_3R_2g_m\right) + s^3\left(C_1C_3L_3R_3 + C_1C_LL_3R_3R_Lg_m + C_1C_LL_3R_3 + C_1C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_LR_3R_L + C_1L_1R_3R_Lg_m + C_1C_LL_3R_3R_Lg_m + C_1C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_LR_3R_L + C_1L_1R_3R_Lg_m + C_1C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_LR_3R_L + C_1L_1R_3R_Lg_m + C_1C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_LR_3R_L + C_1L_1R_3R_Lg_m + C_1C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_LR_3R_L + C_1C_LL_3R_Lg_m\right) + s^2\left(C_1C_LR_3R_Lg_m\right) + s
10.512 INVALID-ORDER-512 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_3L_LR_3g_ms^5 + L_3R_3g_ms + s^3\left(C_1L_1L_3R_3g_m + C_LL_3L_LR_3g_m\right)}{C_1C_3C_LL_1L_3L_LR_3g_ms^6 + R_3g_m + s^5\left(C_1C_3C_LL_3L_LR_3 + C_1C_LL_1L_3L_2g_m\right) + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_3R_3g_m + C_1C_LL_3L_LR_3g_m\right) + s^3\left(C_1L_3L_3R_3g_m + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m\right) + s^3\left(C_1L_3L_3R_3g_m + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m\right) + s^3\left(C_1C_3L_3R_3 + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m\right) + s^3\left(C_1C_3C_LL_3L_3R_3 + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m\right) + s^3\left(C_1C_3C_LL_3R_3R_3 + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m\right) + s^3\left(C_1C_3C_LL_3R_3R_3 + C_1C_LL_3R_3g_m\right) + s^3\left(C_1C_3C_LL_3R_3R_3 + C_1C_LL_3R_3g_m\right) + s^3\left(C_1C_3C_LL_3R_3R_3 + C_1C_LL_3R_3g_m\right) + s^3\left(C_1C_3C_LL_3R_3R_3 + C_1C_LL_3R_3R_3 + C_1C_
10.513 INVALID-ORDER-513 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                      H(s) = \frac{C_1L_1L_3L_LR_3g_ms^3 + L_3L_LR_3g_ms}{L_3R_3g_m + L_LR_3g_m + s^4\left(C_1C_3L_1L_3L_LR_3g_m + C_1C_LL_1L_3L_LR_3g_m\right) + s^3\left(C_1C_3L_3L_LR_3 + C_1L_1L_3L_LR_3 + C_1L_1L_3L_LR_3g_m + C_1L_1L_1L_RR_3g_m + C_1L_3L_LR_3g_m + C_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3L_LR_3g_m + C_1L_3L_LR_3g_m + C_1L_3L_3L_LR_3g_m + C_1L_3L_3L_3L_3R_3g_m + C_1L_3L_3L_3R_3g_m + C_1L_3L_3L_3R_3g_m + C_1L_3L_3L_3R_3g_m + C_1L_3L_3L_3
10.514 INVALID-ORDER-514 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_{1}C_{L}L_{1}L_{3}L_{L}R_{3}g_{m}s^{5}+C_{1}C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}s^{4}+C_{L}L_{3}R_{3}R_{L}g_{m}s^{2}+\\
H(s) = \frac{C_1C_1L_1L_3L_1R_3g_ms^6 + C_1C_2L_1L_3R_3R_Lg_ms^6 + C_1C_2L_1L_3R_3R_Lg_ms^6 + C_1C_2L_1L_3R_3R_Lg_ms^6 + C_1C_2L_1L_3R_3R_Lg_ms^6 + C_1C_2L_1L_3R_3R_Lg_ms^6 + C_1C_2L_1L_3R_3g_ms^6 + C_1C_2L_3L_2R_3g_ms^6 + C_1C_2L_3L_3L_3R_3g_ms^6 + C_1C_2L_3L_3R_3g_ms^6 
10.515 INVALID-ORDER-515 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_1L_1L_3L_LR_3R_Lg_ms^3 + L_3L_LR_3R_Lg_ms}{L_3R_3R_Lg_m + L_LR_3R_Lg_m + s^4\left(C_1C_3L_1L_3L_LR_3R_Lg_m + C_1C_LL_1L_3L_LR_3R_Lg_m + C_1L_1L_3L_LR_3R_Lg_m + C_1L_1L_3L_LR_3R_Lg_m + s^2\left(C_1L_1L_3R_3R_Lg_m + C_1L_1L_3L_LR_3R_Lg_m + C_1L_3L_LR_3R_Lg_m + C_1L_3L_LR_3R_Lg_m
10.516 INVALID-ORDER-516 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $H(s) = \frac{\sum_{l \in L} L_{1} L_{3} L_{L} R_{3} R_{L} g_{m} s^{6} + R_{3} R_{L} g_{m} + s^{5} \left(C_{1} C_{3} C_{L} L_{3} L_{L} R_{3} R_{L} + C_{1} C_{3} L_{1} L_{3} L_{L} R_{3} g_{m} + C_{1} C_{L} L_{1} L_{3} L_{L} R_{3} g_{m} + C_{1} C_{L} L_{1} L_{3} L_{L} R_{3} g_{m} + C_{1} C_{L} L_{1} L_{2} L_{2} R_{3} R_{L} g_{m} + C_{1} C_{3} L_{1} L_{2} L_{2} R_{3} R_{L} g_{m} + C_{1} C_{2} L_{1} L_{2} L_{2} L_{2} R_{3} R_{L} g_{m} + C_{1} C_{2} L_{1} L_{2} L_{2} L_{2} R_{3} R_{L} g_{m} + C_{1} C_{2} L_{1} L_{2} L_{2$ 10.517 INVALID-ORDER-517 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $C_1C_LL_1L_3L_LR_3R_Lg_ms^5 + C_1L_1I_1$

 $C_1C_LL_1L_3L_LR_3R_Lg_ms^5 + L_3R_3R_Lg_ms + s^3(C_1L_1L_1)$ $H(s) = \frac{C_1C_2C_1L_3L_1R_3R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_3R_L + C_1C_LL_1L_3L_LR_3g_m + C_1C_LL_1L_3R_3R_Lg_m + C_1C_LL_1L_3R_3R_Lg_m + C_1C_LL_1L_3R_3R_Lg_m + C_1C_LL_1L_3R_3R_Lg_m + C_1C_LL_3L_LR_3 + C_1C_$

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10.520 INVALID-ORDER-520 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_1C_3L_1L_3R_3R_Lg_ms^4 + C_1L_1L_3R_Lg_ms^3 + L_3R_Lg_ms + R_3R_Lg_m + s^2(C_1L_1R_3R_Lg_m + C_3L_3R_3R_Lg_m)
H(s) = \frac{C_1C_3L_1L_3R_3R_Lg_ms^4 + C_1L_1L_3R_Lg_ms^3 + L_3R_Lg_ms + R_3R_Lg_m + s^2\left(C_1L_1R_3R_Lg_m + C_3L_3R_3R_Lg_m\right)}{C_1C_3C_LL_1L_3R_3R_Lg_ms^5 + R_3g_m + R_Lg_m + s^4\left(C_1C_3C_LL_3R_3R_L + C_1C_3L_1L_3R_2g_m\right) + s^3\left(C_1C_3L_3R_3 + C_1C_3L_3R_3 + C_3C_3L_3R_3 + C_3
10.521 INVALID-ORDER-521 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3R_3R_Lg_ms^5 + R_3g_m + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_3R_Lg_m\right) + s^3\left(C_1C_LL_1R_3R_Lg_m + C_3L_LR_3R_Lg_m\right) + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m + C_LL_3R_Lg_m\right) + s\left(C_LR_3R_Lg_m + L_3g_m\right)}{g_m + s^5\left(C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_3R_3g_m + C_1C_LL_1R_3g_m + C
10.522 INVALID-ORDER-522 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_3g_ms^6 + C_1C_LL_1L_3L_Lg_ms^5 + L_3g_ms + R_3g_m + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_LR_3g_m + C_3C_LL_3L_LR_3g_m\right) + s^3\left(C_1L_1L_3g_m + C_LL_3L_Lg_m\right) + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m + C_4L_LR_3g_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_1L_3R_3g_m + C_1C_3L_LL_3R_3g_m + C_1C_LL_1L_3g_m + C_3C_LL_3L_2g_m\right) + s^3\left(C_1L_3L_2R_3g_m + C_4L_3L_2g_m\right) + s^3\left(C_1L_3L_3R_3g_m + C_4L_3L_2g_m\right) + s^3\left(C_1L_3L_3R_3g_m + C_4L_3L_2g_m\right) + s^3\left(C_1L_3L_3R_3g_m + C_4L_3L_2g_m\right) + s^3\left(C_4L_3L_3R_3g_m + C_4L_3L_3R_3g_m + C_4L_3L_3R_3g_m\right) + s^3\left(C_4L_3L_3R_3g_m + C_4L_3L_3R_3g_m\right) + s^3\left(C_4L_3L_3R_3g_m + C_4L_3L_3R_3g_m\right) + s^3\left(C_4L_3L_3R_3g_m + C_4L_3L_3R_3g_m\right) + s^3\left(C_4L_3R_3g_m + C_4L_3R_3g_m\right) + s^3\left(C_4R_3R_3g_m + C_4L_3R_3g_m\right) + s^3\left(C_4R_3R_3g_m + C_4R_3R_3g_m\right) + s^3\left(C_4R_3R_3g_m + C_4R_3R_3g_m\right) + s^3\left(C_4R_3R_3g_m + C_4R_3
10.523 INVALID-ORDER-523 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_{1}C_{3}L_{1}L_{3}L_{L}R_{3}g_{m}s^{5} + C_{1}L_{1}L_{3}L_{L}g_{m}s^{4} + L_{3}L_{L}g_{m}s^{2} + L_{L}R_{3}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}R_{3}g_{m} + C_{3}L_{3}L_{L}R_{3}g_{m}\right)
H(s) = \frac{C_1C_3L_1L_3L_R_3g_ms^5 + C_1L_1L_3L_Lg_ms^5 + L_LR_3g_ms^5 + L_LR_3g_
10.524 INVALID-ORDER-524 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_3g_ms^6 + R_3g_m + s^5\left(C_1C_3C_LL_1L_3R_3g_m + C_1C_LL_1L_3L_Lg_m\right) + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_3R_2g_m + C_1C_LL_1L_3R_3g_m + C_1C_LL_1R_3g_m + C_1C_LL_1R
10.525 INVALID-ORDER-525 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_3L_1L_3L_LR_3R_Lg_ms^5 + C_1L_1R_3
10.526 INVALID-ORDER-526 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_3g_m + s^5\left(C_1C_3L_1L_3L_LR_3g_m + C_1C_LL_1L_3L_LR_2g_m\right) + s^4\left(C_1C_3L_1L_3R_3R_Lg_m + C_1C_LL_1L_1R_3R_Lg_m + C_1L_1L_3L_2R_3g_m + C_1C_LL_1L_3L_2R_3g_m + C_1C_LL_1L_2R_3g_m + C_1C
10.527 INVALID-ORDER-527 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      79
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 $H(s) = \frac{C_{1}C_{3}L_{1}L_{3}R_{3}R_{L}g_{m}s^{4} + C_{1}L_{1}L_{3}R_{L}g_{m}s^{3} + L_{3}R_{L}g_{m}s + R_{3}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{3}R_{L}g_{m} + C_{3}L_{3}R_{3}R_{L}g_{m}\right)}{R_{3}g_{m} + R_{L}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{3}g_{m} + C_{1}C_{3}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{3}R_{3} + C_{1}C_{3}L_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}g_{m} + C_{1}L_{1}R_{L}g_{m} + C_{1}L_{3} + C_{3}L_{3}R_{3}g_{m} + C_{3}L_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L} + L_{3}g_{m}\right) + s\left(C_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m}\right) + s\left(C_{1}R_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{3}R_{L}g$

 $H(s) = \frac{C_1C_3L_1L_3R_3g_ms^4 + C_1L_1L_3g_ms^3 + L_3g_ms + R_3g_m + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m\right)}{C_1C_3C_LL_1L_3R_3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_3 + C_1C_3L_1L_3g_m + C_1C_LL_1R_3g_m + C_1C_LL_3 + C_3C_LL_3R_3g_m\right) + s^2\left(C_1C_LR_3 + C_1L_1g_m + C_3L_3g_m + C_1L_3g_m\right) + s^2\left(C_1C_LR_3 + C_1L_1g_m + C_3L_3g_m + C_1L_3g_m\right) + s^2\left(C_1C_LR_3 + C_1C_LL_3R_3g_m + C_1C_LL_3R_3g_m\right) + s^2\left(C_1C_LR_3 + C_1L_1g_m + C_3L_3g_m + C_1L_3g_m\right) + s^2\left(C_1C_LR_3 + C_1L_1g_m + C_3L_3g_m\right) + s^2\left(C_1C_LR_3 + C_1L_1g_m + C_3L_3g_m\right) + s^2\left(C_1C_LR_3 + C_1C_LL_3R_3g_m\right) + s^2\left(C_1C_LR_3 + C_1C_LR_3 + C_1C_$

10.518 INVALID-ORDER-518 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)$

10.519 INVALID-ORDER-519 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_1 s}\right)$

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10.528 INVALID-ORDER-528 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L\right)
                                                                                                           H(s) = \frac{C_{1}C_{3}L_{1}L_{3}R_{3}R_{L}g_{m}s^{4} + R_{3}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{3}R_{L}g_{m} + C_{3}L_{3}R_{3}R_{L}g_{m}\right)}{R_{3}g_{m} + R_{L}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{3}g_{m} + C_{1}C_{3}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}L_{3}R_{A}\right) + s^{2}\left(C_{1}C_{3}R_{3}R_{L} + C_{1}L_{1}R_{3}g_{m} + C_{1}L_{1}R_{L}g_{m} + C_{3}L_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L} + C_{3}R_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L} + C_{3}R_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L} + C_{2}R_{3}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L} + C_{2}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L} + C_{2}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L}g_{m}\right) + s\left(C_{1}R_{3} + C_{1}R_{L}g_{m}\right)
10.529 INVALID-ORDER-529 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                    H(s) = \frac{C_1C_3L_1L_3R_3g_ms^4 + R_3g_m + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m\right)}{C_1C_3C_LL_1L_3R_3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_3 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_3L_3 + C_1C_LL_1R_3g_m + C_3C_LL_3R_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1L_1g_m + C_3L_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_LR_3 + C_1C_
10.530 INVALID-ORDER-530 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_3L_1L_3R_3R_Lg_ms^4 + R_3R_Lg_m + s^2\left(C_1L_1R_3R_Lg_m + C_3L_3R_3R_Lg_m\right)}{C_1C_3C_LL_1L_3R_3R_Lg_ms^5 + R_3g_m + R_Lg_m + s^4\left(C_1C_3C_LL_3R_3R_L + C_1C_3L_1L_3R_3g_m + C_1C_3L_1R_3R_Lg_m + C_1C_3L_3R_3R_Lg_m\right) + s^3\left(C_1C_3L_1R_3R_Lg_m + C_1C_3L_3R_3R_Lg_m + C_3C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_LR_3R_L + C_1C_LR_3R_Lg_m + C_1C_3L_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_3L_3R_3R_Lg_m + C_3C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_3L_3R_3R_Lg_m + C_3C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_3L_3R_3R_Lg_m + C_3C_LL_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_3L_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_L + C_1C_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R_Lg_m\right) + s^2\left(C_1C_3R_3R
10.531 INVALID-ORDER-531 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_{1}C_{3}C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}s^{5} + C_{1}C_{3}L_{1}L_{3}R_{3}g_{m}s^{4} + C_{L}R_{3}R_{L}g_{m}s + R_{3}g_{m} + s^{3}\left(C_{1}C_{L}L_{1}R_{3}R_{L}g_{m} + C_{3}C_{L}L_{3}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}g_{m} + C_{3}L_{3}R_{3}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}g_{m} + C
H(s) = \frac{C_1C_3C_LL_1L_3R_3R_Lg_ms^5 + C_1C_3L_1L_3R_3g_ms^4 + C_LR_3R_Lg_ms + R_3g_m + s^3\left(C_1C_LL_1R_3R_Lg_m + C_3C_LL_3R_3R_Lg_m\right) + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m\right)}{g_m + s^5\left(C_1C_3C_LL_1L_3R_3g_m + C_1C_3L_LL_3R_3g_m + C_1C_3L_LL_3R_3g_m + C_1C_3L_LR_3g_m + C_1C_3L_LR_3
10.532 INVALID-ORDER-532 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_3g_ms^6 + R_3g_m + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_LR_3g_m + C_3C_LL_3L_LR_3g_m\right) + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m + C_LL_LR_3g_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_1L_3R_3g_m + C_1C_3L_LL_R_3g_m + C_1C_3L_LL_R_
10.533 INVALID-ORDER-533 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3L_1L_3L_LR_3g_ms^5 + L_LR_3g_ms + s^3\left(C_1L_1L_LR_3g_m + C_3L_3L_LR_3g_m\right)}{C_1C_3C_LL_1L_3L_LR_3g_ms^6 + R_3g_m + s^5\left(C_1C_3C_LL_3L_LR_3 + C_1C_3L_1L_3R_3g_m + C_1C_3L_1L_LR_3g_m + C_3C_LL_3L_LR_3g_m\right) + s^3\left(C_1C_3L_3L_2R_3 + C_1C_3L_3L_2R_3 + C_1C_3L_3L_2R_3 + C_3L_3L_2R_3 + C_3L_3L_3R_3 + C_3L_3L_3L_3R_3 + C_3L_3
10.534 INVALID-ORDER-534 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                H(s) = \frac{C_1C_3C_LL_1L_3L_R3g_ms^6 + C_1C_3C_LL_1L_3R_3R_Lg_ms^5 + C_LR_3R_Lg_ms + R_3g_m + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_LL_2R_3g_m + C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_1R_3R_Lg_m + C_1C_3
10.535 INVALID-ORDER-535 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_1C_3L_1L_3L_LR_3R_Lg_ms^5 + L_LR_3R_Lg_ms + s^3(C_1L_1L_1)
                                                  \frac{\cup_{1}\cup_{3}L_{L}R_{3}R_{L}g_{m}s^{6}+R_{3}R_{L}g_{m}s^{6}+L_{L}R_{3}R_{L}g_{m}s^{6}+L_{L}R_{3}R_{L}g_{m}s+s}{(\cup_{1}L_{1}L_{2}L_{L}R_{3}R_{L}g_{m}+S^{5}\left(C_{1}C_{3}C_{L}L_{3}L_{L}R_{3}R_{L}+C_{1}C_{3}L_{1}L_{3}L_{L}R_{3}g_{m}+C_{1}C_{3}L_{1}L_{3}R_{L}R_{3}g_{m}+C_{1}C_{3}L_{1}L_{3}R_{L}g_{m}+S^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g
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 $H(s) = \frac{1}{R_3 g_m + R_L g_m + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_3 g_m + C_1 C_3 C_L L_1 L_2 L_2 R_3 g_m + C_1 C_3 C_L L_1 L_2 L_2 R_3 g_m + C_1 C_3 C_L L_2 L_2 L_2 R_3 R_L + C_1 C_3 C_L L_2 L_2 R_3 R_L + C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_2 R_3 g_m + C_1 C_3 L_2 L_2 R_3 R_L + C_1 C_3 L_2 L_2 R_2 R_L + C_1 C_3 L_2 R_2 R_L + C_1 C_3 L_2 R_2 R_L + C_1 C_3 L_2 R_2 R_L + C_1 C$

10.537 INVALID-ORDER-537
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{1}{R_3 g_m + R_L g_m + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_3 g_m + C_1 C_3 C_L L_1 L_3 L_L R_3 g_m + C_1 C_3 C_L L_1 L_3 R_L g_m + C_1 C_3 C_L L_1 L_2 R_3 R_L g_m + C_1 C_3 C_L L_2 L_2 R_3 R_L + C_1 C_3 C_L L_2 R_2 R_L + C_1 C_2 C_L R_2 R_L + C$

10.538 INVALID-ORDER-538
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{L_1 R_3 g_m s}{C_1 C_L L_1 R_3 s^3 + s^2 \left(C_1 L_1 + C_L L_1 R_3 g_m\right) + s \left(C_L R_3 + L_1 g_m\right) + 1}$$

10.539 INVALID-ORDER-539
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{L_1 R_3 R_L g_m s}{C_1 C_L L_1 R_3 R_L s^3 + R_3 + R_L + s^2 (C_1 L_1 R_3 + C_1 L_1 R_L + C_L L_1 R_3 R_L g_m) + s (C_L R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m)}$$

10.540 INVALID-ORDER-540
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 R_3 R_L g_m s^2 + L_1 R_3 g_m s}{s^3 \left(C_1 C_L L_1 R_3 + C_1 C_L L_1 R_L \right) + s^2 \left(C_1 L_1 + C_L L_1 R_3 g_m + C_L L_1 R_L g_m \right) + s \left(C_L R_3 + C_L R_L + L_1 g_m \right) + 1}$$

10.541 INVALID-ORDER-541
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_3 g_m s^3 + L_1 R_3 g_m s}{C_1 C_L L_1 L_L s^4 + s^3 \left(C_1 C_L L_1 R_3 + C_L L_1 L_L g_m \right) + s^2 \left(C_1 L_1 + C_L L_1 R_3 g_m + C_L L_L \right) + s \left(C_L R_3 + L_1 g_m \right) + 1}$$

10.542 INVALID-ORDER-542
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_1 L_L R_3 g_m s^2}{C_1 C_L L_1 L_L R_3 s^4 + R_3 + s^3 \left(C_1 L_1 L_L + C_L L_1 L_L R_3 g_m \right) + s^2 \left(C_1 L_1 R_3 + C_L L_L R_3 + L_1 L_L g_m \right) + s \left(L_1 R_3 g_m + L_L \right)}$$

10.543 INVALID-ORDER-543
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

10.544 INVALID-ORDER-544
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.545 INVALID-ORDER-545
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

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

10.547 INVALID-ORDER-547 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

$$H(s) = \frac{L_1 R_L g_m s}{C_1 C_3 L_1 R_L s^3 + s^2 \left(C_1 L_1 + C_3 L_1 R_L g_m \right) + s \left(C_3 R_L + L_1 g_m \right) + 1}$$

10.548 INVALID-ORDER-548 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{L_1 R_L g_m s}{s^3 \left(C_1 C_3 L_1 R_L + C_1 C_L L_1 R_L \right) + s^2 \left(C_1 L_1 + C_3 L_1 R_L g_m + C_L L_1 R_L g_m \right) + s \left(C_3 R_L + C_L R_L + L_1 g_m \right) + 1}$$

10.549 INVALID-ORDER-549 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 R_L g_m s + L_1 g_m}{C_1 C_3 C_L L_1 R_L s^3 + C_3 + C_L + s^2 \left(C_1 C_3 L_1 + C_1 C_L L_1 + C_3 C_L L_1 R_L g_m \right) + s \left(C_3 C_L R_L + C_3 L_1 g_m + C_L L_1 g_m \right)}$$

10.550 INVALID-ORDER-550 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 L_L g_m s^2 + L_1 g_m}{C_1 C_3 C_L L_1 L_L s^4 + C_3 C_L L_1 L_L g_m s^3 + C_3 + C_L + s^2 \left(C_1 C_3 L_1 + C_1 C_L L_1 + C_3 C_L L_L \right) + s \left(C_3 L_1 g_m + C_L L_1 g_m \right)}$$

10.551 INVALID-ORDER-551 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_1 L_L g_m s^2}{L_1 g_m s + s^4 \left(C_1 C_3 L_1 L_L + C_1 C_L L_1 L_L \right) + s^3 \left(C_3 L_1 L_L g_m + C_L L_1 L_L g_m \right) + s^2 \left(C_1 L_1 + C_3 L_L + C_L L_L \right) + 1}$$

10.552 INVALID-ORDER-552 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 L_L g_m s^2 + C_L L_1 R_L g_m s + L_1 g_m}{C_1 C_3 C_L L_1 L_L s^4 + C_3 + C_L + s^3 \left(C_1 C_3 C_L L_1 L_L g_m \right) + s^2 \left(C_1 C_3 L_1 + C_1 C_L L_1 + C_3 C_L L_1 R_L g_m + C_3 C_L L_L \right) + s \left(C_3 C_L R_L + C_3 L_1 g_m + C_L L_1 g_m \right)}$$

10.553 INVALID-ORDER-553 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.554 INVALID-ORDER-554 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

10.555 INVALID-ORDER-555 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_L L_1 L_L R_L g_m s^3 + L_1 R_L g_m s}{C_1 C_3 C_L L_1 L_L R_L s^5 + s^4 \left(C_1 C_L L_1 L_L + C_3 C_L L_1 L_L R_L g_m\right) + s^3 \left(C_1 C_3 L_1 R_L + C_1 C_L L_1 R_L + C_3 C_L L_L R_L + C_L L_1 L_L g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_L g_m + C_L L_1\right) + s \left(C_3 R_L + C_L R_L + L_1 g_m\right) + 1}$$

10.556 INVALID-ORDER-556 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)$ $H(s) = \frac{L_1 R_3 R_L g_m s}{C_1 C_3 L_1 R_3 R_L s^3 + R_3 + R_L + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_L + C_3 L_1 R_3 R_L g_m \right) + s \left(C_3 R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m \right)}$ **10.557** INVALID-ORDER-557 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{L_1 R_3 g_m s}{s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_L L_1 R_3\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_3 g_m + C_L L_1 R_3 g_m\right) + s \left(C_3 R_3 + C_L R_3 + L_1 g_m\right) + 1}$ **10.558** INVALID-ORDER-558 $Z(s) = \left(\frac{L_{1s}}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{L_1 R_3 R_L g_m s}{R_3 + R_L + s^3 \left(C_1 C_3 L_1 R_3 R_L + C_1 C_L L_1 R_3 R_L \right) + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_L + C_3 L_1 R_3 R_L g_m + C_L L_1 R_3 R_L g_m \right) + s \left(C_3 R_3 R_L + C_L R_3 R_L + L_1 R_3 g_m + L_1 R_L g_m \right)}$ **10.559** INVALID-ORDER-559 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L L_1 R_3 R_L g_m s^2 + L_1 R_3 g_m s}{C_1 C_3 C_L L_1 R_3 R_L s^4 + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_L L_1 R_3 + C_1 C_L L_1 R_L + C_3 C_L L_1 R_3 R_L g_m\right) + s^2 \left(C_1 L_1 + C_3 C_L R_3 R_L + C_3 L_1 R_3 g_m + C_L L_1 R_3 g_m + C_L L_1 R_2 g_m\right) + s \left(C_3 R_3 + C_L R_3 R_L g_m\right) + s \left(C_3 R_3 + C_L R_3 R_L g_m\right) + s \left(C_3 R_3 + C_L R_3 R_L g_m\right) + s \left(C_3 R_3 + C_L R_3 R_L g_m\right) + s \left(C_3 R_3 + C_L R_3 R_L g_m\right) + s \left(C_3 R_3 + C_L R_3 R_L g_m\right) + s \left(C_3 R_3 + C_L R_3 R_L g_m\right) + s \left(C_3 R_3 + C_L R_3 R_L g_m\right) + s \left(C_3 R_$ **10.560** INVALID-ORDER-560 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L L_1 L_L R_3 g_m s^3 + L_1 R_3 g_m s}{C_1 C_3 C_L L_1 L_L R_3 s^5 + s^4 \left(C_1 C_L L_1 L_L + C_3 C_L L_1 L_L R_3 g_m\right) + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_L L_1 R_3 + C_2 C_L L_L R_3 + C_L L_1 L_L g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_3 g_m + C_L L_1 R_3 g_m + C_L L_1\right) + s \left(C_3 R_3 + C_L R_3 + L_1 g_m\right) + 1}$ 10.561 INVALID-ORDER-561 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{L_1L_LR_3g_ms^2}{R_3 + s^4\left(C_1C_3L_1L_LR_3 + C_1C_LL_1L_LR_3\right) + s^3\left(C_1L_1L_L + C_3L_1L_LR_3g_m + C_LL_1L_LR_3g_m\right) + s^2\left(C_1L_1R_3 + C_3L_LR_3 + C_LL_LR_3 + L_1L_Lg_m\right) + s\left(L_1R_3g_m + L_L\right)}$ **10.562** INVALID-ORDER-562 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L L_1 L_L R_3 g_m s^3 + C_L L_1 R_3 R_L g_m s^2 + L_1 R_3 g_m s}{C_1 C_3 C_L L_1 L_L R_3 s^5 + s^4 \left(C_1 C_3 C_L L_1 R_3 R_L + C_1 C_L L_1 L_L + C_3 C_L L_1 R_3 g_m\right) + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_L L_1 R_3 + C_1 C_L L_1 R_4 + C_3 C_L L_1 R_3 R_L g_m + C_3 C_L L_1 R_3 R_L + C_3 C_L R_3 R_L + C_3 L_1 R_3 g_m + C_L L_1 R_$ 10.563 INVALID-ORDER-563 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{L_{1}L_{L}R_{3}R_{L}g_{m}s^{2}}{R_{3}R_{L} + s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{3}R_{L} + C_{1}C_{L}L_{L}L_{R}R_{3}R_{L}\right) + s^{3}\left(C_{1}L_{1}L_{L}R_{3} + C_{1}L_{L}L_{R}R_{3}R_{L}g_{m} + C_{L}L_{1}L_{L}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{3}R_{L} + C_{1}L_{L}R_{3}R_{L} + C_{1}L_{L}R_{3}R_{L} + L_{1}L_{L}R_{3}g_{m} + L_{1}L_{L}R_{3}g_{m} + L_{1}L_{L}R_{3}g_{m} + L_{L}R_{3} + L_{L}R_{2}\right)}$ **10.564** INVALID-ORDER-564 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_L L_1 L_L R_3 R_L g_m s^3 + L_1 L_L R_3 g_m s^2 + L_1 R_3 R_L g_m s}{C_1 C_3 C_L L_1 L_L R_3 R_L s^5 + R_3 + R_L + s^4 \left(C_1 C_3 L_1 L_L R_3 + C_1 C_L L_1 L_L R_3 + C_1 C_L L_1 L_L R_3 R_L g_m \right) + s^3 \left(C_1 C_3 L_1 R_3 R_L + C_1 L_1 L_L R_3 g_m + C_L L_1 L_L R_3 g_m + C$ 10.565 INVALID-ORDER-565 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $\frac{C_L L_1 L_L R_3 R_L g_m s}{C_1 C_3 C_L L_1 L_L R_3 R_L s^5 + R_3 + R_L + s^4 \left(C_1 C_L L_1 L_L R_3 + C_1 C_L L_1 L_L R_3 R_L g_m \right) + s^3 \left(C_1 C_3 L_1 R_3 R_L + C_1 C_L L_1 R_3 R_L + C_1 L_1 L_L R_3 g_m + C_L L_1 L_L R_3 g_m + C_L L_1 R_3 R_L g_m \right) + s^3 \left(C_1 C_3 L_1 L_L R_3 R_L + C_1 C_L L_1 L_L R_3 R_L + C_1 L_1 L_L R_3 g_m + C_L L_1 L_L R_3 R_L g_m \right) + s^3 \left(C_1 C_3 L_1 L_L R_3 R_L + C_1 C_L L_1 R_1 R_L$

 $C_L L_1 L_L R_3 R_L g_m s^3 + L_1 R_3 R_L g_m s$

10.566 INVALID-ORDER-566 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$ $H(s) = \frac{C_3 L_1 R_3 R_L g_m s^2 + L_1 R_L g_m s}{s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_L\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_3 g_m + C_3 L_1 R_L g_m\right) + s \left(C_3 R_3 + C_3 R_L + L_1 g_m\right) + 1}$ **10.567** INVALID-ORDER-567 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_3 L_1 R_3 g_m s + L_1 g_m}{C_1 C_3 C_L L_1 R_3 s^3 + C_3 + C_L + s^2 \left(C_1 C_3 L_1 + C_1 C_L L_1 + C_3 C_L L_1 R_3 g_m \right) + s \left(C_3 C_L R_3 + C_3 L_1 g_m + C_L L_1 g_m \right)}$ **10.568** INVALID-ORDER-568 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_3L_1R_3R_Lg_ms^2 + L_1R_Lg_ms}{C_1C_3C_LL_1R_3R_Ls^4 + s^3\left(C_1C_3L_1R_3 + C_1C_3L_1R_L + C_3C_LL_1R_3R_Lg_m\right) + s^2\left(C_1L_1 + C_3C_LR_3R_L + C_3L_1R_3g_m + C_3L_1R_Lg_m + C_LL_1R_Lg_m\right) + s\left(C_3R_3 + C_3R_L + C_LR_L + L_1g_m\right) + 1}$ **10.569** INVALID-ORDER-569 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_3C_LL_1R_3R_Lg_ms^2 + L_1g_m + s\left(C_3L_1R_3g_m + C_LL_1R_Lg_m\right)}{C_3 + C_L + s^3\left(C_1C_3C_LL_1R_3 + C_1C_3C_LL_1R_L\right) + s^2\left(C_1C_3L_1 + C_1C_LL_1 + C_3C_LL_1R_3g_m + C_3C_LL_1R_Lg_m\right) + s\left(C_3C_LR_3 + C_3C_LR_L + C_3L_1g_m + C_LL_1g_m\right)}$ **10.570** INVALID-ORDER-570 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_3C_LL_1L_LR_3g_ms^3 + C_3L_1R_3g_ms + C_LL_1L_Lg_ms^2 + L_1g_m}{C_1C_3C_LL_1L_Ls^4 + C_3 + C_L + s^3\left(C_1C_3C_LL_1R_3 + C_3C_LL_1L_Lg_m\right) + s^2\left(C_1C_3L_1 + C_1C_LL_1 + C_3C_LL_1R_3g_m + C_3C_LL_1\right) + s\left(C_3C_LR_3 + C_3L_1g_m + C_LL_1g_m\right)}$ 10.571 INVALID-ORDER-571 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_3L_1L_LR_3g_ms^3 + L_1L_Lg_ms^2}{C_1C_3C_LL_1L_LR_3s^5 + s^4\left(C_1C_3L_1L_L + C_1C_LL_1L_L + C_3C_LL_1L_LR_3g_m\right) + s^3\left(C_1C_3L_1R_3 + C_3C_LL_LR_3 + C_3L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1 + C_3L_1R_3g_m + C_3L_L + C_LL_L\right) + s\left(C_3R_3 + L_1g_m\right) + 1}$ 10.572 INVALID-ORDER-572 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_3C_LL_1L_LR_3g_ms^3 + L_1g_m + s^2\left(C_3C_LL_1R_3R_Lg_m + C_LL_1L_Lg_m\right) + s\left(C_3L_1R_3g_m + C_LL_1R_Lg_m\right)}{C_1C_3C_LL_1L_Ls^4 + C_3 + C_L + s^3\left(C_1C_3C_LL_1R_3 + C_1C_3C_LL_1L_Lg_m\right) + s^2\left(C_1C_3L_1 + C_3C_LL_1 + C_3C_LL_1R_3g_m + C_3C_LL_1\right) + s\left(C_3C_LR_3 + C_3C_LR_1 + C_3L_1g_m + C_4L_1g_m\right)}$ 10.573 INVALID-ORDER-573 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $H(s) = \frac{C_3L_1L_LR_3R_Lg_ms^3 + L_1L_LR_Lg_ms^2}{C_1C_3C_LL_1L_LR_3R_Ls^5 + R_L + s^4\left(C_1C_3L_1L_LR_3 + C_1C_3L_1L_LR_L + C_3C_LL_1L_LR_3R_Lg_m\right) + s^3\left(C_1C_3L_1R_3R_L + C_1L_1L_LR_3R_L + C_3L_1L_LR_3R_L + C_3L_1L_1R_3R_L + C_3L_1R_3R_L + C_$

10.574 INVALID-ORDER-574 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_3C_LL_1L_LR_3R_Lg_ms^4 + L_1R_Lg_ms + s^3\left(C_3L_1L_LR_3g_m + C_LL_1L_LR_Lg_m\right) + s^2\left(C_3L_1R_3R_Lg_m + L_1L_Lg_m\right)}{s^5\left(C_1C_3C_LL_1L_LR_3 + C_1C_3C_LL_1L_LR_L\right) + s^4\left(C_1C_3L_1L_L + C_3C_LL_1L_LR_3g_m + C_3C_LL_1L_LR_3g_m + s^3\left(C_3L_1L_LR_3g_m + C_3L_1L_LR_3g_m + C_3L_1L_1R_3g_m + C_3L_1L_1L_1R_3g_m + C_3L_1L_1R_3g_m + C_3L_1$

10.575 INVALID-ORDER-575 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $C_3C_LL_1L_LR_3R_Lg_ms^4 + C_3L_1R_3R_Lg_ms^2 + C_LL_1L_LR_Lg_ms^3 + L_1R_Lg_ms^3$ **10.577** INVALID-ORDER-577 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_3 L_1 L_3 g_m s^2 + L_1 g_m}{C_1 C_3 C_L L_1 L_3 s^4 + C_3 C_L L_1 L_3 q_m s^3 + C_3 + C_L + s^2 \left(C_1 C_3 L_1 + C_1 C_L L_1 + C_3 C_L L_3 \right) + s \left(C_3 L_1 q_m + C_L L_1 q_m \right)}$ 10.578 INVALID-ORDER-578 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_3L_1L_3R_Lg_ms^3 + L_1R_Lg_ms}{C_1C_3C_LL_1L_3R_Ls^5 + s^4\left(C_1C_3L_1L_3 + C_3C_LL_1L_3R_Lg_m\right) + s^3\left(C_1C_3L_1R_L + C_1C_LL_1R_L + C_3C_LL_3R_L + C_3L_1L_3g_m\right) + s^2\left(C_1L_1 + C_3L_1R_Lg_m + C_3L_3 + C_LL_1R_Lg_m\right) + s\left(C_3R_L + C_LR_L + L_1g_m\right) + 1}$ **10.579** INVALID-ORDER-579 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_3C_LL_1L_3R_Lg_ms^3 + C_3L_1L_3g_ms^2 + C_LL_1R_Lg_ms + L_1g_m}{C_1C_3C_LL_1L_3s^4 + C_3 + C_L + s^3\left(C_1C_3C_LL_1R_L + C_3C_LL_1L_3g_m\right) + s^2\left(C_1C_3L_1 + C_1C_LL_1 + C_3C_LL_1R_Lg_m + C_3C_LL_3\right) + s\left(C_3C_LR_L + C_3L_1g_m + C_LL_1g_m\right)}$ **10.580** INVALID-ORDER-580 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_3C_LL_1L_3L_Lg_ms^4 + L_1g_m + s^2\left(C_3L_1L_3g_m + C_LL_1L_Lg_m\right)}{C_3 + C_L + s^4\left(C_1C_3C_LL_1L_3 + C_1C_3C_LL_1L_L\right) + s^3\left(C_3C_LL_1L_3g_m + C_3C_LL_1L_Lg_m\right) + s^2\left(C_1C_3L_1 + C_1C_LL_1 + C_3C_LL_3 + C_3C_LL_1\right) + s\left(C_3L_1g_m + C_LL_1g_m\right)}$ 10.581 INVALID-ORDER-581 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_3L_1L_3L_Lg_ms^4 + L_1L_Lg_ms^2}{C_1C_3C_LL_1L_3L_Ls^6 + C_3C_LL_1L_3L_Lg_ms^5 + L_1g_ms + s^4\left(C_1C_3L_1L_3 + C_1C_3L_1L_L + C_1C_LL_1L_L + C_3C_LL_3L_L\right) + s^3\left(C_3L_1L_3g_m + C_3L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1 + C_3L_3 + C_3L_L + C_LL_L\right) + 1}$ **10.582** INVALID-ORDER-582 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$ $H(s) = \frac{C_3C_LL_1L_3L_Lg_ms^4 + C_3C_LL_1L_3R_Lg_ms^3 + C_LL_1R_Lg_ms + L_1g_m + s^2\left(C_3L_1L_3g_m + C_LL_1L_Lg_m\right)}{C_3 + C_L + s^4\left(C_1C_3C_LL_1L_3 + C_1C_3C_LL_1L_L\right) + s^3\left(C_1C_3C_LL_1R_L + C_3C_LL_1L_2g_m\right) + s^2\left(C_1C_3L_1 + C_1C_LL_1 + C_3C_LL_1R_Lg_m + C_3C_LL_1\right) + s\left(C_3C_LR_L + C_3L_1g_m + C_LL_1g_m\right)}$ 10.583 INVALID-ORDER-583 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_3L_1L_3L_LR_Lg_ms^4 + L_1L_LR_Lg_ms^2}{C_1C_3C_LL_1L_3L_LR_Ls^6 + R_L + s^5\left(C_1C_3L_1L_3L_LR_Lg_m\right) + s^4\left(C_1C_3L_1L_3R_L + C_1C_3L_1L_LR_L + C_3C_LL_3L_LR_L + C_3L_1L_3L_LR_L + C_3L_1L_3L_1L_1 +$ 10.584 INVALID-ORDER-584 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_3C_LL_1L_3L_LR_Lg_ms^5 + C_3L_1L_3L_Lg_ms^4 + L_1L_Lg_ms^2 + L_1R_Lg_ms + s^3\left(C_3L_1L_3R_Lg_m + C_LL_1L_LR_Lg_m\right)}{C_1C_3C_LL_1L_3L_Ls^6 + s^5\left(C_1C_3C_LL_1L_LR_L + C_3C_LL_1L_LR_Lg_m\right) + s^4\left(C_1C_3L_1L_3 + C_1C_3L_1L_L + C_3C_LL_1L_LR_Lg_m + C_3C_LL_3L_L\right) + s^3\left(C_1C_3L_1L_2R_L + C_3C_LL_1L_LR_Lg_m + C_2L_1L_Lg_m\right) + s^2\left(C_1L_1 + C_3L_1R_Lg_m + C_3L_1L_2R_Lg_m + C_3L_1L_2R_Lg_m + C_3L_1L_2R_Lg_m + C_3L_1L_2R_Lg_m + C_3L_1L_2R_Lg_m\right)}$ 10.585 INVALID-ORDER-585 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $C_3C_LL_1L_3L_LR_Lg_ms^5 + L_1R_Lg_ms + s^3(C_3L_1L_3R_Lg_m + C_LL_1L_LR_Lg_m)$ $H(s) = \frac{C_3C_LL_1L_3L_Ls^6 + s^5\left(C_1C_3C_LL_1L_3R_L + C_1C_3C_LL_1L_3R_L + C_3C_LL_1L_3L_Lg_m\right) + s^4\left(C_1C_3L_1L_3 + C_1C_LL_1L_L + C_3C_LL_1L_3R_Lg_m + C_3C_LL_3L_L\right) + s^3\left(C_1C_3L_1R_L + C_3C_LL_3R_L + C_3C_LL_3R_L + C_3C_LL_3R_L\right) + s^4\left(C_1C_3L_1L_3R_L + C_3C_LL_3R_L + C_3C_LL_3R_L\right) + s^4\left(C_1C_3L_1L_3R_L + C_3C_LL_3R_L + C_3C_LL_3R_L\right) + s^4\left(C_1C_3L_1L_3R_L + C_3C_LL_3R_L\right) + s^4\left(C_1C_3L_1R_L + C_3C_LL_3R_L\right) +$

 $H(s) = \frac{C_3L_1L_3R_Lg_ms^3 + L_1R_Lg_ms}{C_1C_3L_1L_3s^4 + s^3\left(C_1C_3L_1R_L + C_3L_1L_3g_m\right) + s^2\left(C_1L_1 + C_3L_1R_Lg_m + C_3L_3\right) + s\left(C_3R_L + L_1g_m\right) + 1}$

10.576 INVALID-ORDER-576 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)$

10.586 INVALID-ORDER-586 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)$ $H(s) = \frac{L_1 L_3 R_L g_m s^2}{C_1 C_3 L_1 L_3 R_L s^4 + R_L + s^3 \left(C_1 L_1 L_3 + C_3 L_1 L_3 R_L g_m \right) + s^2 \left(C_1 L_1 R_L + C_3 L_3 R_L + L_1 L_3 g_m \right) + s \left(L_1 R_L g_m + L_3 \right)}$ **10.587** INVALID-ORDER-587 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{L_1 L_3 g_m s^2}{L_1 q_m s + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_L L_1 L_3\right) + s^3 \left(C_3 L_1 L_3 q_m + C_L L_1 L_3 q_m\right) + s^2 \left(C_1 L_1 + C_3 L_3 + C_L L_3\right) + 1}$ 10.588 INVALID-ORDER-588 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{L_{1}L_{3}R_{L}g_{m}s^{2}}{R_{L} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{L} + C_{1}C_{L}L_{1}L_{3}R_{L}\right) + s^{3}\left(C_{1}L_{1}L_{3} + C_{3}L_{1}L_{3}R_{L}g_{m} + C_{L}L_{1}L_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{L} + C_{3}L_{3}R_{L} + C_{L}L_{3}R_{L} + L_{1}L_{3}g_{m}\right) + s\left(L_{1}R_{L}g_{m} + L_{3}\right)}$ **10.589** INVALID-ORDER-589 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ **10.590** INVALID-ORDER-590 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L L_1 L_3 L_L g_m s^4 + L_1 L_3 g_m s^2}{C_1 C_3 C_L L_1 L_3 L_L s^6 + C_3 C_L L_1 L_3 L_L g_m s^5 + L_1 g_m s + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_L L_1 L_3 + C_1 C_L L_1 L_L + C_3 C_L L_3 L_L \right) + s^3 \left(C_3 L_1 L_3 g_m + C_L L_1 L_3 g_m + C_L L_1 L_1 g_m \right) + s^2 \left(C_1 L_1 + C_3 L_3 + C_L L_3 + C_L L_1 \right) + 1 \left(C_1 L_1 L_1 L_2 L_1 L_3 L_1 L_1 L_1 L_2 L_1 L_2$ **10.591** INVALID-ORDER-591 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{L_{1}L_{3}L_{L}g_{m}s^{2}}{L_{3} + L_{L} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}L_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}\right) + s^{3}\left(C_{3}L_{1}L_{3}L_{L}g_{m} + C_{L}L_{1}L_{3}L_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}L_{3} + C_{1}L_{1}L_{L} + C_{3}L_{3}L_{L} + C_{L}L_{3}L_{L}\right) + s\left(L_{1}L_{3}g_{m} + L_{1}L_{L}g_{m}\right)}$ **10.592** INVALID-ORDER-592 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L L_1 L_3 L_L g_m s^4 + C_L L_1 L_3 R_L g_m s^3 + L_1 L_3 g_m s^2}{C_1 C_3 C_L L_1 L_3 L_L s^6 + s^5 \left(C_1 C_3 C_L L_1 L_3 L_L g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_L L_1 L_3 + C_1 C_L L_1 L_1 + C_3 C_L L_1 L_3 L_L g_m + C_3 C_L L_3 L_L \right) + s^3 \left(C_1 C_L L_1 L_3 R_L + C_3 C_L L_3 R_L + C_3 L_1 L_3 g_m + C_L L_1 L_3 g_m + C_L L_1 L_2 g_m \right) + s^2 \left(C_1 L_1 + C_3 L_1 L_3 R_L g_m + C_L L_1 R_L g_m + C_L R_L g_$ **10.593** INVALID-ORDER-593 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 10.594 INVALID-ORDER-594 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 10.595 INVALID-ORDER-595 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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10.596 INVALID-ORDER-596 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                   H(s) = \frac{C_3L_1L_3R_Lg_ms^3 + C_3L_1R_3R_Lg_ms^2 + L_1R_Lg_ms}{C_1C_3L_1L_3s^4 + s^3\left(C_1C_3L_1R_3 + C_1C_3L_1R_L + C_3L_1L_3g_m\right) + s^2\left(C_1L_1 + C_3L_1R_3g_m + C_3L_1R_Lg_m + C_3L_3\right) + s\left(C_3R_3 + C_3R_L + L_1g_m\right) + 1}
10.597 INVALID-ORDER-597 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                               H(s) = \frac{C_3L_1L_3g_ms^2 + C_3L_1R_3g_ms + L_1g_m}{C_1C_3C_LL_1L_3s^4 + C_3 + C_L + s^3\left(C_1C_3C_LL_1R_3 + C_3C_LL_1L_3g_m\right) + s^2\left(C_1C_3L_1 + C_1C_LL_1 + C_3C_LL_1R_3g_m + C_3C_LL_3\right) + s\left(C_3C_LR_3 + C_3L_1g_m + C_LL_1g_m\right)}
10.598 INVALID-ORDER-598 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_3L_1L_3R_Lg_ms^3 + C_3L_1R_3R_Lg_ms^2 + L_1R_Lg_ms}{C_1C_3C_LL_1L_3R_Ls^5 + s^4\left(C_1C_3C_LL_1R_3R_L + C_1C_3L_1L_3 + C_3C_LL_1R_3R_Lg_m\right) + s^3\left(C_1C_3L_1R_3 + C_1C_3L_1R_4 + C_1C_LL_1R_L + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1L_1 + C_3C_LR_3R_L + C_3L_1R_3g_m + C_3L_1R_2g_m\right) + s^2\left(C_1L_1 + C_3C_LR_3R_L + C_3L_1R_3g_m\right) + s
10.599 INVALID-ORDER-599 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                          H(s) = \frac{C_3C_LL_1L_3R_Lg_ms^3 + L_1g_m + s^2\left(C_3C_LL_1R_3R_Lg_m + C_3L_1L_3g_m\right) + s\left(C_3L_1R_3g_m + C_LL_1R_Lg_m\right)}{C_1C_3C_LL_1L_3s^4 + C_3 + C_L + s^3\left(C_1C_3C_LL_1R_3 + C_1C_3C_LL_1R_L + C_3C_LL_1L_3g_m\right) + s^2\left(C_1C_3L_1 + C_3C_LL_1R_3g_m + C_3C_LL_1R_2g_m + C_3C_LL_3\right) + s\left(C_3C_LR_3 + C_3C_LR_1 + C_3C_LR_1 + C_3C_LL_1R_3g_m + C_3C_LL_1R_3g_m
10.600 INVALID-ORDER-600 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                       H(s) = \frac{C_3C_LL_1L_3L_Lg_ms^4 + C_3C_LL_1L_LR_3g_ms^3 + C_3L_1R_3g_ms + L_1g_m + s^2\left(C_3L_1L_3g_m + C_LL_1L_Lg_m\right)}{C_3 + C_L + s^4\left(C_1C_3C_LL_1L_3 + C_1C_3C_LL_1L_L\right) + s^3\left(C_1C_3C_LL_1R_3 + C_3C_LL_1L_2g_m\right) + s^2\left(C_1C_3L_1 + C_3C_LL_1 + C_3C_LL_1 + C_3C_LL_1 + C_3C_LL_1\right) + s\left(C_3C_LR_3 + C_3L_1g_m + C_LL_1g_m\right)}
10.601 INVALID-ORDER-601 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_3L_1L_3L_Lg_ms^4 + C_3L_1L_Lg_ms^3 + L_1L_Lg_ms^2}{C_1C_3C_LL_1L_3L_Ls^6 + s^5\left(C_1C_3C_LL_1L_LR_3 + C_3C_LL_1L_Lg_m\right) + s^4\left(C_1C_3L_1L_3 + C_1C_3L_1L_L + C_3C_LL_1L_LR_3g_m + C_3C_LL_1L_R\right) + s^3\left(C_1C_3L_1R_3 + C_3C_LL_1R_3 + C_3L_1L_Lg_m\right) + s^2\left(C_1L_1 + C_3L_1R_3g_m + C_3L_1L_1R_3g_m\right) + s^2\left(C_1L_1 + C_3L_1R_3g_m + C_3L_1R_3g_m\right) + s^2\left(C_1L_1 + C_3L_1R_3g_m 
10.602 INVALID-ORDER-602 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}\right)
   H(s) = \frac{C_3C_LL_1L_3L_Lg_ms^4 + L_1g_m + s^3\left(C_3C_LL_1L_3R_Lg_m + C_3C_LL_1L_LR_3g_m\right) + s^2\left(C_3C_LL_1R_3R_Lg_m + C_LL_1L_Lg_m\right) + s\left(C_3L_1R_3g_m + C_LL_1L_Lg_m\right) + s\left(C_3L_1R_3g_m + C_LL_1L_Lg_m\right) + s\left(C_3L_1R_3g_m + C_LL_1R_Lg_m\right) + s\left(C_3L_1R_3g_m + C_2L_1R_Lg_m\right) + s\left(C_3L_1R_3g_m + C_3L_1R_Lg_m\right) + s\left(C_3L_1R_1g_m + C_
10.603 INVALID-ORDER-603 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_3L_1L_3L_LR_Lg_ms^4 + C_3L_1L_LR_3R_Lg_ms^3 + L_1L_LR_3
10.604 INVALID-ORDER-604 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_3C_LL_1L_3L_LR_2g_ms^5 + L_1R_Lg_ms + s^4\left(C_3C_LL_1L_LR_3R_Lg_m + C_3L_1L_3R_Lg_m + C_3L_1L_LR_3g_m + C_LL_1L_LR_2g_m\right) + s^2\left(C_3L_1R_3R_Lg_m + C_3L_1L_2R_2g_m + C_3L_1L_2R_2g_m + C_3L_1L_2R_2g_m + C_3L_1L_2R_2g_m + C_3L_2L_2R_2g_m + C_3L_2R_2g_m + C_3L_2R_2g_m
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 $H(s) = \frac{-1.5 \times 1.2 \times$

 $C_3C_LL_1L_3L_LR_Lg_ms^5 + C_3C_LL_1L_LR_3R_Lg_ms^4 + C_3L_1R_3R_Lg_ms^2 + L_1$

10.605 INVALID-ORDER-605 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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H(s) = \frac{L_1 L_3 R_3 R_L g_m s^2}{C_1 C_3 L_1 L_3 R_3 R_L s^4 + R_3 R_L + s^3 \left(C_1 L_1 L_3 R_3 + C_1 L_1 L_3 R_L + C_3 L_1 L_3 R_3 R_L g_m\right) + s^2 \left(C_1 L_1 R_3 R_L + C_3 L_3 R_3 R_L + L_1 L_3 R_3 g_m + L_1 L_3 R_L g_m\right) + s \left(L_1 R_3 R_L g_m + L_3 R_3 + L_3 R_L\right)}
10.607 INVALID-ORDER-607 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                               10.608 INVALID-ORDER-608 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                H(s) = \frac{L_1 L_3 R_3 R_L g_m s^2}{R_3 R_L + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_L + C_1 C_L L_1 L_3 R_3 R_L\right) + s^3 \left(C_1 L_1 L_3 R_3 + C_1 L_1 L_3 R_3 R_L g_m + C_L L_1 L_3 R_3 R_L g_m\right) + s^2 \left(C_1 L_1 R_3 R_L + C_1 L_3 R_3 R_L + L_1 L_3 R_3 g_m + L_1 L_3 R_2 g_m\right) + s \left(L_1 R_3 R_L g_m + L_3 R_3 R_L + C_1 L_3 R_3 R_L + L_1 L_3 R_3 g_m + L_1 L_3 R_2 g_m\right) + s \left(L_1 R_3 R_L g_m + L_3 R_2 g_m + L_3 R_3 R_L + C_1 L_3 R_3 R_L\right)
10.609 INVALID-ORDER-609 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                       \frac{C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}s^{3}+L_{1}L_{3}R_{3}g_{m}s^{2}}{C_{1}C_{3}C_{L}L_{1}L_{3}R_{3}+C_{1}C_{L}L_{1}L_{3}R_{3}+C_{1}C_{L}L_{1}L_{3}R_{3}+C_{1}C_{L}L_{1}L_{3}R_{3}+C_{1}C_{L}L_{1}L_{3}R_{3}R_{L}g_{m})+s^{3}\left(C_{1}C_{L}L_{1}R_{3}R_{L}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{L}L_{1}L_{3}R_{3}g_{m}+C_{L}L_{1}L_{3}R_{2}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{1}L_{3}R_{3}+C_{2}L_{2}L_{2}L_{3}+C_{2}L_{2}L_{2}L_{3}+C_{2}L_{2}L_{2}L_{2}+C_{2}L_{2}L_{2}L_{2}+C_{2}L_{2}L_{2}L_{2}+C_{2}L_{2}L_{2}+C_{2}L_{2}L_{2}+C_{2}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_
10.610 INVALID-ORDER-610 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_3 L_L R_3 g_m s^4 + L_1 L_3 R_3 g_m s^2}{C_1 C_3 C_L L_1 L_3 L_L R_3 s^6 + R_3 + s^5 \left(C_1 C_L L_1 L_3 L_L + C_3 C_L L_1 L_3 L_L R_3 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_L L_1 L_3 R_3 + C_1 C_L L_1 L_3 R_3 + C_1 C_L L_1 L_3 R_3 g_m + C_L 
10.611 INVALID-ORDER-611 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                    10.612 INVALID-ORDER-612 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_L L_1 L_3 L_L R_3 g_m s^- + C_L L_1 L_3 R_3 R_L g_m s^+ + L_1 L_3 R_3 g_m s^- + C_L L_1 L_3 R_3 R_L g_m s^+ + L_1 L_3 R_3 g_m s^- + C_L L_1 L_3 R_3 R_L g_m s^+ + L_1 L_3 R_3 g_m s^- + L_2 L_3 R_3 R_L g_m s^- + L_3 R_3 R_L g_m s^- + L_4 R_3 R_L g_m s^-
10.613 INVALID-ORDER-613 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.614 INVALID-ORDER-614 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_L L_1 L_3 L_L R_3 R_L g_r
10.615 INVALID-ORDER-615 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_L L_1 L_3 L_L R_3 R_L g_m s^4 + L_1 L_3 R_3 R_L g_m s^2
H(s) = \frac{C_L L_1 L_3 L_L R_3 R_L s^6 + R_3 R_L + s^5 \left( C_1 C_L L_1 L_3 L_L R_3 + C_1 C_L L_1 L_3 L_L R_3 R_L + C_1 C_L L_1 L_3 R_3 R_L + C_1 C_L L_1 L_3 L_L R_3 R_L + C_1 C_L L_1 L_3 R_3 R_L + C_1 C_L L_1 L_3 R_3 R_L + C_1 C_L L_1 L_3 L_L R_3 R_L + C_1 C_L L_1 L_3 L_L R_3 R_L + C_1 C_L L_1 L_3 R_3 R_L + C_1 C_L L_1 L_3 R_3 R_L + C_1 C_L L_1 L_3 L_L R_3 R_L + C_
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10.606 INVALID-ORDER-606 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)$

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H(s) = \frac{C_3L_1L_3R_3g_ms^3 + L_1L_3g_ms^2 + L_1R_3g_ms}{C_1C_3C_LL_1L_3R_3s^5 + s^4\left(C_1C_3L_1L_3 + C_1C_LL_1L_3 + C_3C_LL_1L_3R_3g_m\right) + s^3\left(C_1C_LL_1R_3 + C_3C_LL_3R_3 + C_3L_1L_3g_m + C_LL_1L_3g_m\right) + s^2\left(C_1L_1 + C_3L_3 + C_LL_1R_3g_m + C_LL_3\right) + s\left(C_LR_3 + L_1g_m\right) + 1}
10.618 INVALID-ORDER-618 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_3L_1L_3R_3R_Lg_ms^3 + L_1L_3R_Lg_ms^2 + L_1R_3R_Lg_ms
H(s) = \frac{C_3L_1L_3R_3R_Lg_ms^3 + L_1L_3R_Lg_ms^2 + L_1R_3R_Lg_ms}{C_1C_3C_LL_1L_3R_3R_Ls^5 + R_3 + R_L + s^4\left(C_1C_3L_1L_3R_3 + C_1C_LL_1L_3R_L + C_3C_LL_1L_3R_3R_Lg_m\right) + s^3\left(C_1C_LL_1R_3R_L + C_1L_1L_3R_3R_L + C_3L_1L_3R_3R_L + C_3L_3R_3R_L + C_3L
10.619 INVALID-ORDER-619 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_2 L_2 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                      \frac{C_{3}C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}s^{4}+L_{1}R_{3}g_{m}s+s^{3}\left(C_{3}L_{1}L_{3}R_{L}g_{m}\right)+s^{2}\left(C_{L}L_{1}R_{3}R_{L}g_{m}+L_{1}L_{3}g_{m}\right)}{s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{2}+C_{1}C_{L}L_{1}L_{3}+C_{3}C_{L}L_{1}L_{3}R_{2}g_{m}\right)+s^{3}\left(C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{1}+C_{1}C_{L}L_{1}R_{1}+C_{1}C_{L}L_{1}R_{1}+C_{1}C_{L}L_{1}R_{1}+C_{1}C_{L}L_{1}R_{1}+C_{1}C_{L}L_{1}R_{1}+C_{1}C_{L}L_{1}R_{1}+C_{1}C_{L}L_{1}+C_{1}C_{L}L_{1}+C_{1}C_{L}L_{1}+C_{1}C_{L}L_{1}+C_{1}C_{L}L_{1}+C_{1}C_{L}L_{1}+C_{1}C_{L}L_{1}+C_{1}C_{L}L_{1}+C_{1}C_{L}L
10.620 INVALID-ORDER-620 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_3C_LL_1L_3L_LR_3g_ms^5 + C_LL_1L_3L_Lg_ms^4 + L_1L_3g_ms^2 + L_1R_3g_ms + s^3\left(C_3L_1L_3R_3g_m + C_LL_1L_LR_3g_m\right)}{C_1C_3C_LL_1L_3L_Ls^6 + s^5\left(C_1C_3C_LL_1L_3R_3 + C_3C_LL_1L_3L_Lg_m\right) + s^4\left(C_1C_3L_1L_3 + C_1C_LL_1L_3 + C_1C_LL_1L_1 + C_3C_LL_1L_3R_3g_m + C_3C_LL_3R_3 + C_3L_1L_3g_m + C_LL_1L_3g_m + C_L
10.621 INVALID-ORDER-621 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_3L_1L_3L_LR_3g_ms^4 + L_1L_3L_Lg_ms^3 + L_1L_LR_3g_ms^2
H(s) = \frac{C_3L_1L_3U_Ln_3g_ms + L_1L_2L_1g_ms + L_1L_2L_1g_ms}{C_1C_3C_LL_1L_3L_LR_3s^6 + R_3 + s^5\left(C_1C_3L_1L_3L_L + C_3C_LL_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3R_3 + C_3C_LL_1L_3L_LR_3 + C_3C_LL_3L_LR_3 + C_3L_1L_3L_Lg_m\right) + s^3\left(C_1L_1L_3 + C_3L_1L_3R_3g_m + C_3L_3L_LR_3 + C_3L_3L_3L_LR_3 + C_3L_3L_3L_LR_3 + C_3L_3L_3L_1R_3 + C_3L_3L_3L_1R_3 + C_3L_3L_3L_1R_3 + C_3L_3L_3L_1R_3 + C_3L_3L_3L_1R_3 + C_3L_3L_3L_1R_3 + C_3L_3L_3L_3L_3 + C_3L_3L_3L_3L_3 + C_3L_3L_3L_3 
10.622 INVALID-ORDER-622 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_3C_LL_1L_3L_LR_3g_ms^5 + L_1R_3g_ms + s^4\left(C_3C_LL_1L_3R_2g_m + C_LL_1L_3L_Lg_m\right) + s^3\left(C_3L_1L_3R_3g_m + C_LL_1L_3R_Lg_m + C_LL_1L_1R_3g_m\right) + s^2\left(C_LL_1R_3R_Lg_m + C_LL_1L_3R_Lg_m + C_LL_1L_3R_
10.623 INVALID-ORDER-623 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_3L_1L_3L_LR_3R_Lg
10.624 INVALID-ORDER-624 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_3C_LL_1L_3L_LR_3R_Lg_ms^5 + L_1R_3R_Lg_ms + s^4(C_3L_1L_3L_LR_3g_m + C_LL_1L_3L_LR_Lg_m)
H(s) = \frac{C_3C_LL_1L_3L_LR_3R_Lg_ms + L_1R_3R_Lg_ms + S_1C_3L_1L_3L_LR_3g_m + C_LL_1L_3L_LR_2g_m}{R_3 + R_L + s^6(C_1C_3C_LL_1L_3L_LR_3 + C_1C_3L_1L_3L_LR_1) + s^5(C_1C_3L_1L_3L_LR_1 + C_3C_LL_1L_3L_LR_2g_m) + s^4(C_1C_3L_1L_3R_1 + C_1C_LL_1L_1L_1R_3 + C_1C_LL_1L_1L_1R_1 + C_3C_LL_1L_3L_1R_2g_m) + s^4(C_1C_3L_1L_3R_1 + C_1C_LL_1L_1R_2 + C_3C_LL_1L_3L_1R_3 + C_1C_LL_1L_3L_1R_3g_m + C_1C_1L_3L_1R_3g_m) + s^4(C_1C_3L_1L_3R_1 + C_1C_LL_1L_1R_2 + C_3C_LL_1L_3L_1R_3 + C_1C_LL_1L_3L_1R_3g_m) + s^4(C_1C_3L_1L_3R_1 + C_1C_LL_1L_1R_2 + C_3C_LL_1L_3L_1R_3 + C_1C_LL_1L_3L_1R_3 + C_1C_LL_1L_1R_3 + C_1C
10.625 INVALID-ORDER-625 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                      \frac{1}{R_3 + R_L + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 L_L R_L \right) + s^5 \left( C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_L L_1 L_3 L_L R_3 g_m + C_3 C_L L_1 L_2 L_L R_3 g_m + C_3 C_L L_1 L_2 L_L R_3 g_m + C_3 C_L L_1 L_3 L_L R_3 g_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               89
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 $H(s) = \frac{C_3L_1L_3R_3R_Lg_ms^3 + L_1L_3R_Lg_ms^2 + L_1R_3R_Lg_ms}{R_3 + R_L + s^4\left(C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_L\right) + s^3\left(C_1L_1L_3 + C_3L_1L_3R_3g_m + C_3L_1L_3R_Lg_m\right) + s^2\left(C_1L_1R_3 + C_1L_1R_L + C_3L_3R_3 + C_3L_3R_L + L_1L_3g_m\right) + s\left(L_1R_3g_m + L_1R_Lg_m + L_3\right)}$

10.616 INVALID-ORDER-616 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)$

10.617 INVALID-ORDER-617 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)$

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10.627 INVALID-ORDER-627 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                  H(s) = \frac{C_3L_1L_3R_3g_ms^3 + L_1R_3g_ms}{C_1C_3C_LL_1L_3R_3s^5 + s^4\left(C_1C_3L_1L_3 + C_3C_LL_1L_3R_3g_m\right) + s^3\left(C_1C_3L_1R_3 + C_1C_LL_1R_3 + C_3C_LL_3R_3g_m\right) + s^2\left(C_1L_1 + C_3L_1R_3g_m + C_3L_3 + C_LL_1R_3g_m\right) + s\left(C_3R_3 + C_LR_3 + L_1g_m\right) + 1}{C_3C_LL_1L_3R_3s^5 + s^4\left(C_1C_3L_1L_3 + C_3C_LL_1L_3R_3g_m\right) + s^3\left(C_1C_3L_1R_3 + C_3C_LL_1R_3 + C_3C_LL_1R_3g_m\right) + s^2\left(C_1L_1 + C_3L_1R_3g_m + C_3L_3 + C_LL_1R_3g_m\right) + s^2\left(C_3R_3 + C_LR_3 + 
 10.628 INVALID-ORDER-628 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 H(s) = \frac{C_3L_1L_3R_3R_Lg_ms^3 + L_1R_3R_Lg_ms}{C_1C_3C_LL_1L_3R_3R_Ls^5 + R_3 + R_L + s^4\left(C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_3 + C_3C_LL_1R_3R_L + C_3C_LL_1R_3R_L + C_3C_LL_1R_3R_L + C_3C_LL_1R_3R_L + C_3C_LL_1R_3R_L + C_3L_1L_3R_3R_Lg_m\right) + s^2\left(C_1L_1R_3 + C_1L_1R_3 
 10.629 INVALID-ORDER-629 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                 \frac{C_{3}C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}s^{4}+C_{3}L_{1}L_{3}R_{3}g_{m}s^{3}+C_{L}L_{1}R_{3}R_{L}g_{m}s^{2}+L_{1}R_{3}g_{m}s}{s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{3}+C_{1}C_{3}L_{1}L_{3}R_{L}+C_{1}C_{3}L_{1}L_{3}R_{L}+C_{1}C_{3}L_{1}L_{3}R_{L}+C_{1}C_{3}L_{1}L_{3}R_{L}g_{m}\right)+s^{3}\left(C_{1}C_{3}L_{1}L_{3}R_{2}+C_{1}C_{L}L_{1}R_{3}+C_{1}C_{L}L_{1}R_{3}+C_{2}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_{L}+C_{3}L_{1}L_{3}R_
 10.630 INVALID-ORDER-630 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
 H(s) = \frac{C_3C_LL_1L_3L_LR_3g_ms^5 + L_1R_3g_ms + s^3\left(C_3L_1L_3R_3g_m + C_LL_1L_LR_3g_m\right)}{C_1C_3C_LL_1L_3L_Ls^6 + s^5\left(C_1C_3C_LL_1L_3R_3 + C_1C_3C_LL_1L_3R_3 + C_3C_LL_1L_3R_3g_m + C_3C_LL_1L_3R_3g_m + C_3C_LL_1L_3R_3g_m + C_3C_LL_1L_3R_3g_m + C_3C_LL_1L_3R_3g_m + C_3C_LL_1L_3R_3g_m + C_3C_LL_3R_3 + C
 10.631 INVALID-ORDER-631 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_3L_1L_3L_LR_3g_ms^4 + L_1L_LR_3g_ms^2}{C_1C_3C_LL_1L_3L_LR_3s^6 + R_3 + s^5\left(C_1C_3L_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3R_3 + C_1C_3L_1L_LR_3 + C_3C_LL_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3L_LR_3 + C_3L_1L_2R_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3L_1R_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_1L_3L_LR_3 + C_3L_3L_1L_3L_LR_3 + C_3L_3L_1L_3L_LR_3 + C_3L_3L_1L_3L_1R_3 + C_3L_3L_3L_1R_3 + C_3L_3L_3L_3R_3 + C_3L_3L_3L_3R_3 + C_3L_3L_3L_3L_3R_3 + C_3L_3L_3L_3R_3 +
 10.632 INVALID-ORDER-632 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_3C_LL_1L_3L_LR_3g_ms^5 + C_3C_LL_1L_3R_3R_Lg_ms^4 + C_LL_1R_3R_Lg_ms^2 + L_1R_3R_Lg_ms^2 + L_1R_3R
 H(s) = \frac{C_3C_LL_1L_3L_LR_3g_ms^5 + C_3C_LL_1L_3R_3R_Lg_ms^4 + C_LL_1R_3R_Lg_ms^2 + L_1L_2R_3g_ms^5 + C_3C_LL_1L_3R_3R_Lg_ms^4 + C_LL_1R_3R_Lg_ms^2 + L_1L_2R_3g_ms^2 + C_3C_LL_1L_3R_3g_ms^3 + C_3C_LL_3R_3g_ms^3 
 10.633 INVALID-ORDER-633 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
 10.634 INVALID-ORDER-634 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
 H(s) = \frac{1}{R_3 + R_L + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 L_L L_1 L_2 R_3 R_L + C_1 C_3 L_1 L_3 L_L R_3 g_m + C_3 C_L L_1 L_3 L_L R_3 g_m + C_3 C_L L_1 L_3 L_L R_3 g_m + C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 L_1 L_2 R_3 + C_1 C_3 L_1 L_2 R_3 + C_1 C_3 L_1 L_2 R_3 R_L + C_1 C_3 L_1 L_3 R_2 R_2 R_L + C_1 C_3 L_1 L_3 R_2 R_L
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 $H(s) = \frac{C_3L_1L_3R_3R_Lg_ms^3 + L_1R_3R_Lg_ms}{R_3 + R_L + s^4\left(C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_L\right) + s^3\left(C_1C_3L_1R_3R_L + C_3L_1L_3R_{3}g_m + C_3L_1L_3R_{L}g_m\right) + s^2\left(C_1L_1R_3 + C_1L_1R_L + C_3L_1R_3R_Lg_m + C_3L_3R_3 + C_3L_3R_L\right) + s\left(C_3R_3R_L + L_1R_3g_m + L_1R_Lg_m\right) + s^2\left(C_3R_3R_L + C_3R_3R_L + C_3R_$

10.626 INVALID-ORDER-626 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L\right)$

10.635 INVALID-ORDER-635 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_{C_{1}}}{R_{3} + R_{L} + s^{6} \left(C_{1} C_{3} C_{L} L_{1} L_{3} L_{L} R_{3} + C_{1} C_{3} C_{L} L_{1} L_{3} R_{L} + C_{1} C_{3} C_{L} L_{1} L_{3} R_{3} R_{L} + C_{1} C_{3} C_{L} L_{1} L_{3} R_{3} R_{L} + C_{3} C_{L} L_{1} L_{3} L_{L} R_{3} g_{m} + C_{3} C_{L} L_{1} L_{3} L_{L} R_{3} g_{m} + C_{3} C_{L} L_{1} L_{3} R_{3} R_{L} + C_{1} C_{3} L_{1} L_{3} L_{L} R_{3} g_{m} + C_{3} C_{L} L_{1} L_{3} L_{L} R_{3} g_{m} + C_{3} C_{L} L_{1} L_{3} L_{L} R_{3} g_{m} + C_{3} C_{L} L_{1} L_{2} L_{2} R_{3} R_{L} + C_{1} C_{2} L_{1} L_{2} L_{2} R_{2} R_{L} + C_{1} C_{2} L_{1} L_{2} R_{2} R_{L} + C_{1} C_{2} L_{2} L_{2} R_{2} R_{L} + C_{2} C_{2} L_{2} L_{2} L_{2} R_{2} R_{L} + C_{2} C_{2} L_{2} L_{2} L_{2} L_{2} R_{2} R_{L} + C_{2} C_{2} L_{2} L_{2} L_{2} L_{2} R_{2} R_{L} + C_{2} C_{2} L_{2} L_{2} L_{2} R_{2} R_{2$

10.636 INVALID-ORDER-636 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1L_1R_3g_ms^2 + C_1R_1R_3g_ms + R_3g_m}{C_1C_LL_1R_3g_ms^3 + g_m + s^2\left(C_1C_LR_1R_3g_m + C_1C_LR_3 + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_1 + C_LR_3g_m\right)}$$

10.637 INVALID-ORDER-637 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

10.638 INVALID-ORDER-638 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_1R_3R_Lg_ms^3 + R_3g_m + s^2\left(C_1C_LR_1R_3R_Lg_m + C_1L_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_LR_3R_Lg_m\right)}{g_m + s^3\left(C_1C_LL_1R_3g_m + C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_LR_1R_3g_m + C_1C_LR_1R_Lg_m + C_1C_LR_3 + C_1C_LR_1 + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_1 + C_LR_3g_m + C_1R_Lg_m\right)}$$

10.639 INVALID-ORDER-639 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_1L_LR_3g_ms^4 + C_1C_LL_LR_1R_3g_ms^3 + C_1R_1R_3g_ms + R_3g_m + s^2\left(C_1L_1R_3g_m + C_LL_LR_3g_m\right)}{C_1C_LL_1L_Lg_ms^4 + g_m + s^3\left(C_1C_LL_1R_3g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1C_LR_1R_3g_m + C_1C_LR_3 + C_1L_1g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1C_LL_Rg_m\right)}$$

10.640 INVALID-ORDER-640 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1L_1L_LR_3g_ms^3 + C_1L_LR_1R_3g_ms^2 + L_LR_3g_ms}{C_1C_LL_LR_3g_ms^4 + R_3g_m + s^3\left(C_1C_LL_LR_1R_3g_m + C_1L_LL_Rg_m\right) + s^2\left(C_1L_1R_3g_m + C_1L_LR_1g_m + C_1L_L + C_LL_Rg_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_3g_m + C_1R_1R_3g_m + C_1R_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_3g_m + C_1R_1R_3g_m + C_1R_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_3g_m + C_1R_1R_3g_m + C_1R_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_3g_m\right) + s\left(C_1R_1R_3g_m\right) + s\left(C_$$

10.641 INVALID-ORDER-641 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_1L_LR_3g_ms^4 + R_3g_m + s^3\left(C_1C_LL_1R_3R_Lg_m + C_1C_LL_LR_1R_3g_m\right) + s^2\left(C_1C_LR_1R_3R_Lg_m + C_1L_1R_3g_m + C_LL_LR_3g_m\right) + s\left(C_1R_1R_3g_m + C_LR_3g_m\right) + s\left(C_1R_1R_3g_m + C_LR_3g_m\right) + s\left(C_1R_1R_3g_m + C_LR_3g_m\right) + s\left(C_1R_1R_3g_m + C_1R_3g_m\right) +$$

10.642 INVALID-ORDER-642 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

10.643 INVALID-ORDER-643 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1C_LL_1L_LR_3R_Lg_ms^4 + R_3R_Lg_m + s^3\left(C_1C_LL_LR_1R_3R_Lg_m + C_1L_LR_3g_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_LR_3g_m + C_LL_LR_3R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + L_LR_3g_m\right) + s\left(C_1R_1R_3R_Lg_m + L_LR_3g_m\right) + s\left(C_1R_1R_3R_Lg_m + C_1L_LR_3g_m + C_1L_LR_3g_m\right) + s\left(C_1R_1R_3g_m + C_1L_LR_3g_m + C_1L_LR_3g_m + C_1L_LR_3g_m\right) + s\left(C_1R_1R_3g_m + C_1L_LR_3g_m\right) + s\left(C_1R$$

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10.644 INVALID-ORDER-644 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_1C_LL_1L_RR_3R_Lg_ms^4 + C_1C_LL_LR_1R_3R_Lg_ms^3 + C_1R_1R_3R_Lg_ms + R_3R_Lg_m + s^2\left(C_1L_1R_3R_Lg_m + C_LL_LR_3R_Lg_m + C_LL_LR_3R_Lg_m\right)}{R_3g_m + R_Lg_m + s^4\left(C_1C_LL_1L_LR_3g_m + C_1C_LL_LR_1R_3g_m + C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_1R_2g_m + C_1C_LL_RR_3R_Lg_m + C_1C_LR_3R_Lg_m + C
10.645 INVALID-ORDER-645 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                                         H(s) = \frac{C_1L_1R_Lg_ms^2 + C_1R_1R_Lg_ms + R_Lg_m}{C_1C_2L_1R_Lg_ms^3 + g_m + s^2\left(C_1C_3R_1R_Lg_m + C_1C_3R_L + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_1 + C_3R_Lg_m\right)}
10.646 INVALID-ORDER-646 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                      H(s) = \frac{C_1 L_1 g_m s^2 + C_1 R_1 g_m s + g_m}{s^3 \left( C_1 C_3 L_1 g_m + C_1 C_L L_1 g_m \right) + s^2 \left( C_1 C_3 R_1 g_m + C_1 C_3 + C_1 C_L R_1 g_m + C_1 C_L \right) + s \left( C_3 g_m + C_L g_m \right)}
10.647 INVALID-ORDER-647 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                 H(s) = \frac{C_1L_1R_Lg_ms^2 + C_1R_1R_Lg_ms + R_Lg_m}{g_m + s^3\left(C_1C_3L_1R_Lg_m + C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m + C_1C_3R_L + C_1C_LR_1R_Lg_m + C_1C_LR_1 + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_1 + C_3R_Lg_m + C_LR_Lg_m\right)}
10.648 INVALID-ORDER-648 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                      H(s) = \frac{C_1C_LL_1R_Lg_ms^3 + g_m + s^2\left(C_1C_LR_1R_Lg_m + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_LR_Lg_m\right)}{C_1C_3C_LL_1R_Lg_ms^4 + s^3\left(C_1C_3C_LR_1R_Lg_m + C_1C_3L_1g_m + C_1C_LL_1g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L + C_3C_LR_Lg_m\right) + s\left(C_3g_m + C_Lg_m\right)}
10.649 INVALID-ORDER-649 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                               H(s) = \frac{C_1C_LL_1L_Lg_ms^4 + C_1C_LL_LR_1g_ms^3 + C_1R_1g_ms + g_m + s^2\left(C_1L_1g_m + C_LL_Lg_m\right)}{C_1C_3C_LL_1L_Lg_ms^5 + s^4\left(C_1C_3C_LL_LR_1g_m + C_1C_3C_LL_L\right) + s^3\left(C_1C_3L_1g_m + C_1C_LL_1g_m + C_3C_LL_Lg_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L\right) + s\left(C_3g_m + C_Lg_m\right)}
10.650 INVALID-ORDER-650 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                            H(s) = \frac{C_{1}L_{1}L_{2}g_{m}s^{3} + C_{1}L_{L}R_{1}g_{m}s^{2} + L_{L}g_{m}s}{g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{L}g_{m} + C_{1}C_{L}L_{1}L_{2}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{L}\right) + s^{2}\left(C_{1}L_{1}g_{m} + C_{1}L_{L}g_{m}\right) + s\left(C_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{L}\right) + s^{2}\left(C_{1}L_{1}g_{m} + C_{1}L_{L}g_{m}\right) + s\left(C_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}R_{1}g_{m}\right) + s\left(C_{1}R_{1}g_{m} + C_{1}C_{L}R_{1}R_{1}g_{m}\right) + s\left(C_{1}R_{1}g_{m} + C_{1}C_{L}R_{1}R_{1}g_{m}\right) + s\left(C_{1}R_{1}g_{m} 
10.651 INVALID-ORDER-651 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                            =\frac{C_{1}C_{L}L_{1}L_{L}g_{m}s^{4}+g_{m}+s^{3}\left(C_{1}C_{L}L_{1}R_{L}g_{m}+C_{1}C_{L}L_{L}R_{1}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{1}R_{L}g_{m}+C_{1}L_{L}g_{m}\right)+s\left(C_{1}R_{1}g_{m}+C_{L}L_{L}g_{m}\right)+s\left(C_{1}R_{1}g_{m}+C_{L}R_{L}g_{m}\right)}{C_{1}C_{3}C_{L}L_{1}L_{L}g_{m}+S^{5}+s^{4}\left(C_{1}C_{3}C_{L}L_{1}R_{L}g_{m}+C_{1}C_{3}C_{L}L_{L}\right)+s^{3}\left(C_{1}C_{3}C_{L}R_{1}R_{L}g_{m}+C_{1}C_{3}L_{L}g_{m}+C_{1}C_{L}L_{1}g_{m}+C
10.652 INVALID-ORDER-652 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                 H(s) = \frac{C_{1}L_{1}L_{L}R_{L}g_{m}s^{3} + C_{1}L_{L}R_{1}g_{m}s^{2} + L_{L}R_{L}g_{m}s}{R_{L}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{L}R_{1}g_{m} + C_{1}L_{L}R_{1}g_{m} + C_{1}L_
10.653 INVALID-ORDER-653 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                    \frac{C_{1}C_{L}L_{L}R_{L}g_{m}s^{4}+R_{L}g_{m}+s^{3}\left(C_{1}C_{L}L_{L}R_{1}R_{L}g_{m}+C_{1}L_{L}R_{1}g_{m}+C_{1}L_{L}R_{1}g_{m}+C_{L}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}R_{1}R
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10.654 INVALID-ORDER-654 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_1C_LL_1L_LR_Lg_ms^4 + C_1C_LL_LR_1g_ms^3 + C_1R_1R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_3C_LL_1L_LR_Lg_ms^5 + g_m + s^4\left(C_1C_3C_LL_LR_1g_m + C_1C_LL_LR_Lg_m\right) + s^3\left(C_1C_3L_1R_Lg_m + C_1C_LL_LR_1g_m + C_1C_LL_LR_1g_m\right) + s^3\left(C_1C_3L_LR_Lg_m + C_1C_LL_LR_1g_m + C_1C_LL_LR_1g_m\right) + s^3\left(C_1C_3L_LR_Lg_m + C_1C_LL_LR_1g_m + C_1C_LL_LR_1g_m\right) + s^3\left(C_1C_3L_LR_1g_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_3R_1R_Lg_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_3R_1R_Lg_m + C_1C_LR_1R_Lg_m\right) + s^3\left(C_1C_3R_1R_Lg_m\right) + s^3\left(C_1C_3R_1R_L
10.655 INVALID-ORDER-655 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                    10.656 INVALID-ORDER-656 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                    H(s) = \frac{C_1L_1R_3g_ms^2 + C_1R_1R_3g_ms + R_3g_m}{g_m + s^3\left(C_1C_3L_1R_3g_m + C_1C_LL_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m + C_1C_LR_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m + C_1C_1R_3g_m\right) + s\left(C_1R_1g_m + C_1C_1R_3g_m + C_1C_1R
10.657 INVALID-ORDER-657 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                         H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + C_1R_1R_3R_Lg_ms + R_3R_Lg_m}{R_3g_m + R_Lg_m + s^3\left(C_1C_3L_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m\right) + s^2\left(C_1C_3R_1R_3R_Lg_m + C_1C_LR_1R_3R_Lg_m + C_1C_LR_3R_L + C_1L_1R_3g_m + C_1L_1R_2g_m\right) + s\left(C_1R_1R_3g_m + C_1R_1R_2g_m + C_1R_3R_Lg_m + C_1R_3R_Lg_m\right) + s\left(C_1R_3R_2g_m + C_1R_3R_Lg_m + C_1R_3R_Lg_m + C_1R_3R_Lg_m\right) + s\left(C_1R_3R_2g_m + C_1R_3R_2g_m\right) 
10.658 INVALID-ORDER-658 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1R_3R_Lg_ms^3 + R_3g_m + s^2\left(C_1C_LR_1R_3R_Lg_m + C_1L_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_LR_3R_Lg_m\right)}{C_1C_3C_LL_1R_3R_Lg_ms^4 + g_m + s^3\left(C_1C_3C_LR_1R_3R_Lg_m + C_1C_3L_1R_3g_m + C_1C_LL_1R_2g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_2g_m + C_
10.659 INVALID-ORDER-659 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_R3g_ms^4 + C_1C_LL_LR_1R_3g_ms^3 + C_1R_1R_3g_ms + R_3g_m + s^2\left(C_1L_1R_3g_m + C_LL_LR_3g_m\right)}{C_1C_3C_LL_1L_R3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_LR_1R_3g_m + C_1C_LL_LR_3g_m + C_1C_LL_LR_3g_m + C_1C_LL_LR_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LL_RR_3g_m + C_1C_LL_RR_3g_m + C_1C_LL_RR_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_3g_m + C_1C_LR_1R_3g_m + C_1C_LR_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_3g_m + C_1C_LR_1R_3g_m + C_1C_LR_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LR_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m\right) + s^2\left(C_1C_3
10.660 INVALID-ORDER-660 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                  H(s) = \frac{C_{1}L_{1}L_{1}R_{3}g_{m}s^{3} + C_{1}L_{L}R_{1}R_{3}g_{m}s^{2} + L_{L}R_{3}g_{m}s}{R_{3}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{1}R_{3}g_{m} + C_{1}C_{L}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{L}R_{3}g_{m} + C_{1}L_{L}R_{3}g_{m} + C_{1}L_{L}
10.661 INVALID-ORDER-661 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_{1}C_{L}L_{1}L_{L}R_{3}g_{m}s^{4} + R_{3}g_{m} + s^{3}\left(C_{1}C_{L}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{1}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}R_{3}g_{m} + C_{L}L_{L}R_{1}R_{2}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}R_{3}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}R_{1}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}R_{1}R_{2}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{1}R_{2}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{1}R_{2}R_{L}g_{m}\right) + s^
10.662 INVALID-ORDER-662 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                           \frac{C_{1}L_{1}L_{L}R_{3}R_{L}g_{m}s^{3}+C_{1}L_{L}R_{1}R_{3}R_{L}g_{m}s^{2}+L_{L}R_{3}R_{L}g_{m}s}{R_{3}R_{L}g_{m}+s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{L}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_
10.663 INVALID-ORDER-663 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $\frac{C_{1}C_{L}L_{L}L_{R}R_{S}R_{L}g_{m}s^{5}+R_{3}g_{m}+R_{L}g_{m}+s^{4}\left(C_{1}C_{3}C_{L}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{L}L_{L}R_{1}R_{2}g_{m}+C_{1}C_$

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10.664 INVALID-ORDER-664 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       H(s) = \frac{C_1C_2C_LL_1L_1R_3R_Lg_m s^5 + R_3g_m + C_1C_LL_1R_3R_Lg_m + 
10.665 INVALID-ORDER-665 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                       H(s) = \frac{C_1C_3L_1R_3R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_3R_1R_3R_Lg_m + C_1L_1R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_3R_3R_Lg_m\right)}{g_m + s^3\left(C_1C_3L_1R_3g_m + C_1C_3L_1R_Lg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_1R_Lg_m + C_1C_3R_1 + C_1C_3R_L + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_1 + C_3R_3g_m + C_3R_Lg_m\right)}
10.666 INVALID-ORDER-666 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                        H(s) = \frac{C_1C_3L_1R_3g_ms^3 + g_m + s^2\left(C_1C_3R_1R_3g_m + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_3R_3g_m\right)}{C_1C_3C_LL_1R_3g_ms^4 + s^3\left(C_1C_3C_LR_1R_3g_m + C_1C_3L_1g_m + C_1C_LL_1g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L + C_3C_LR_3g_m\right) + s\left(C_3g_m + C_Lg_m\right)}
10.667 INVALID-ORDER-667 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_3L_1R_3R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_3R_1R_3R_Lg_m + C_1L_1R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_3R_3R_Lg_m\right)}{C_1C_3C_LL_1R_3R_Lg_ms^4 + g_m + s^3\left(C_1C_3C_LR_1R_3R_Lg_m + C_1C_3L_1R_3g_m + C_1C_4L_1R_Lg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_1R_Lg_m + C_1C_4R_1R_Lg_m + C_1C_4R_1R_1R_1g_m + C_1C_4R_1R_1g_m + C_1C_4R_1g_m + C_1C_4R_1R_1g_m + C_1C_4R_1g_m + C_1C_4R_1g_m + C_1C_4R_
10.668 INVALID-ORDER-668 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_2 s}, \infty, \infty, R_L + \frac{1}{C_T s}\right)
                          H(s) = \frac{C_1C_3C_LL_1R_3R_Lg_ms^4 + g_m + s^3\left(C_1C_3C_LR_1R_3R_Lg_m + C_1C_3L_1R_3g_m + C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1L_1g_m + C_3C_LR_3R_Lg_m\right) + s\left(C_1R_1g_m + C_3R_3g_m + C_LR_Lg_m\right)}{s^4\left(C_1C_3C_LL_1R_3g_m + C_1C_3C_LR_1R_3g_m + C_1C_3C_LR_1R_2g_m + C_1C_3C_LR_1R_2g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_LL_1g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_LL_1g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_LR_1g_m + C_1C_LR_1g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_LR_
10.669 INVALID-ORDER-669 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                     H(s) = \frac{C_1C_3C_LL_1L_LR_3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_LR_1R_3g_m + C_1C_LL_LLg_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_LL_LR_1g_m + C_3C_LL_LR_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1L_1g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_3R_3g_m\right)}{C_1C_3C_LL_1L_2g_ms^5 + s^4\left(C_1C_3C_LL_1R_3g_m + C_1C_3C_LL_1R_3g_m + C_1C_3C_LL_1R_3g_m + C_1C_3C_LL_1g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1L_1g_m + C_3C_LL_1g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3C_LL_1R_3g_m + C_1C_3C_LL_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_1L_1g_m + C_3C_LL_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_1L_1g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3C_1L_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3C_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3
10.670 INVALID-ORDER-670 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3L_1L_LR_3g_ms^4 + L_Lg_ms + s^3\left(C_1C_3L_LR_1R_3g_m + C_1L_LLg_m\right) + s^2\left(C_1L_LR_1g_m + C_3L_LR_3g_m\right)}{C_1C_3C_LL_LL_R_3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_LR_1R_3g_m + C_1C_3L_LLg_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_
10.671 INVALID-ORDER-671 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                    \frac{C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}g_{m}s^{5} + g_{m} + s^{4}\left(C_{1}C_{3}C_{L}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L
10.672 INVALID-ORDER-672 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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 $C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}R_{L}g_{m}s^{5} + R_{L}g_{m} + s^{4}\left(C_{1}C_{3}C_{L}L_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{L}R_{1}R_{3}g_{m} + C_{1}C_{L}L_{L}R_{1}R_{3}g_{m} + C_{1}C_{L}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{L}L_{L}R_{1}R_{2$

10.673 INVALID-ORDER-673 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

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10.674 INVALID-ORDER-674 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}R_{L}g_{m}s^{5} + R_{L}g_{m} + s^{4}\left(C_{1}C_{3}C_{L}L_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{1}R_{2}R_{L}g_{m} + C_{1}C_{L}R_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{1}R_{2}R_{L}g_{m} + C_{1}C_{L}R_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}R_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}R_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}R_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}R_{1}R_{2}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}R_{1}R_{2}R_
H(s) = \frac{c_1 c_3 c_L L_1 L_2 c_B m^2 + c_L c_B m^2 + c_L
10.675 INVALID-ORDER-675 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                       H(s) = \frac{C_1C_3L_1L_3R_Lg_ms^4 + C_1C_3L_3R_1R_Lg_ms^3 + C_1R_1R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_3L_3R_Lg_m\right)}{C_1C_3L_1L_3g_ms^4 + g_m + s^3\left(C_1C_3L_1R_Lg_m + C_1C_3L_3R_1g_m + C_1C_3L_3\right) + s^2\left(C_1C_3R_1R_Lg_m + C_1C_3R_L + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_1C_3R_Lg_m\right)}
10.676 INVALID-ORDER-676 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                            H(s) = \frac{C_1C_3L_1L_3g_ms^4 + C_1C_3L_3R_1g_ms^3 + C_1R_1g_ms + g_m + s^2\left(C_1L_1g_m + C_3L_3g_m\right)}{C_1C_3C_LL_1L_3g_ms^5 + s^4\left(C_1C_3C_LL_3R_1g_m + C_1C_3C_LL_3\right) + s^3\left(C_1C_3L_1g_m + C_1C_LL_1g_m + C_3C_LL_3g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + C_1C_LR_1g_m + C_1C_L\right) + s\left(C_3g_m + C_Lg_m\right)}
10.677 INVALID-ORDER-677 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_3L_1L_3R_Lg_ms^4 + C_1C_3L_3R_1R_Lg_ms^3 + C_1R_1R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_3L_3R_Lg_m\right)}{C_1C_3C_LL_1R_2g_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_1R_Lg_m + C_1C_3L_1R_Lg_m + C_1C_3L_3R_1g_m + C_1C_3L_3R_Lg_m\right) + s^3\left(C_1C_3L_1R_Lg_m + C_1C_3L_3R_1g_m + C_1C_3L_3R_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m + C_1C_3R_LR_Lg_m + C_1C_3R_LR_Lg_m + C_1C_3R_LR_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m + C_1C_3R_LR_Lg_m\right) + s^2\left(C_1C_3R_1R_Lg_m\right) + s^2\left(C_
10.678 INVALID-ORDER-678 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_2 s}, \infty, \infty, R_L + \frac{1}{C_T s}\right)
                         H(s) = \frac{C_1C_3C_LL_1L_3R_Lg_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_1R_Lg_m + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_LL_1R_Lg_m + C_3C_LL_3R_Lg_m\right) + s^2\left(C_1C_LR_1R_Lg_m + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_LR_Lg_m\right)}{C_1C_3C_LL_1L_3g_ms^5 + s^4\left(C_1C_3C_LL_3R_1g_m + C_1C_3C_LL_3R_1g_m + C_1C_3C_LR_1g_m + C_1C_3C_LR_1g
10.679 INVALID-ORDER-679 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                  \frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}g_{m}s^{6}+C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}g_{m}s^{5}+C_{1}R_{1}g_{m}s+g_{m}+s^{4}\left(C_{1}C_{3}L_{1}L_{3}g_{m}+C_{1}C_{L}L_{1}L_{L}g_{m}\right)+s^{3}\left(C_{1}C_{3}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{L}R_{1}g_{m}\right)+s^{2}\left(C_{1}L_{1}g_{m}+C_{3}L_{3}g_{m}+C_{L}L_{L}g_{m}\right)}{s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{2}g_{m}\right)+s^{4}\left(C_{1}C_{3}C_{L}L_{3}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{3}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}\right)+s^{3}\left(C_{1}C_{3}L_{1}L_{2}g_{m}\right)+s^{2}\left(C_{1}C_{3}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{2}g_{m}\right)+s^{2}\left(C_{1}C_{3}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}\right)+s^{2}\left(C_{1}C_{3}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}\right)+s^{2}\left(C_{1}C_{3}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}\right)+s^{2}\left(C_{1}C_{3}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}g_{m}+
10.680 INVALID-ORDER-680 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3L_1L_3L_Lg_ms^5 + C_1C_3L_3L_LR_1g_ms^4 + C_1L_LR_1g_ms^2 + L_Lg_ms + s^3\left(C_1L_1L_Lg_m + C_3L_3L_Lg_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_3L_LL_3L_Lg_m + C_1C_3L_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m\right)}
10.681 INVALID-ORDER-681 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_2 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                          \frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}g_{m}s^{6} + g_{m} + s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}g_{m}\right) + s^{4}\left(C_{1}C_{3}C_{L}L_{3}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{2}g_{m} + C_{1}C_{L}L_{1}R_{L}g_{m} + C_{1}C_{L}L_{1}R_{
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 $H(s) = \frac{C_{1}C_{3}L_{1}L_{3}L_{L}R_{L}g_{m}s^{5} + C_{1}C_{3}L_{3}L_{L}R_{1}R_{L}g_{m}s^{4} + C_{1}L_{L}R_{1}R_{L}g_{m}s^{2} + L_{L}R_{L}g_{m}s + C_{1}C_{3}L_{L}L_{L}R_{L}g_{m}s^{4} + C_{1}L_{L}R_{L}R_{L}g_{m}s^{4} + C_{1}L_{L}R$

10.683 INVALID-ORDER-683 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

10.682 INVALID-ORDER-682 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_3L_LR_Lg_ms^6 + R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_1R_Lg_m + C_1C_3L_1L_3L_Lg_m\right) + s^4\left(C_1C_3L_1L_3L_Lg_m + C_1C_3L_3L_LR_1g_m + C_1C_4L_1L_LR_Lg_m + C_3C_LL_3L_LR_Lg_m\right) + s^3\left(C_1C_3L_3R_1R_Lg_m + C_1C_4L_LR_LR_Lg_m\right) + s^4\left(C_1C_3C_LL_1L_2R_Lg_m + C_1C_3L_1L_2R_Lg_m + C_1C_3L_1L_2R_Lg_m + C_1C_3L_1L_2R_Lg_m\right) + s^4\left(C_1C_3L_1L_2R_Lg_m + C_1C_3L_1L_2R_Lg_m + C_1C_3L_1L_2R_Lg_m + C_1C_3L_1L_2R_Lg_m + C_1C_3L_1L_2R_Lg_m\right) + s^4\left(C_1C_3L_1L_2R_Lg_m + C_1C_3L_1L_2R_Lg_m + C_1C_3L_2R_Lg_m + C_1C_3L_2R_Lg_m + C_1C_3L_2R_Lg_m + C_1C_3L_2R_Lg_m + C_1C_3L_2R_Lg_m + C_1C_3L_2R_Lg_m + C_1C_3L_2R_L$

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10.684 INVALID-ORDER-684 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.685 INVALID-ORDER-685 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                     H(s) = \frac{C_1L_1L_3R_Lg_ms^3 + C_1L_3R_1R_Lg_ms^2 + L_3R_Lg_ms}{C_1C_3L_1L_3R_Lg_ms^4 + R_Lg_m + s^3\left(C_1C_3L_3R_1R_Lg_m + C_1L_3L_3R_L + C_1L_1L_3g_m\right) + s^2\left(C_1L_1R_Lg_m + C_1L_3R_1g_m + C_1L_3 + C_3L_3R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_1R_L + L_3g_m\right)}
10.686 INVALID-ORDER-686 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                   H(s) = \frac{C_1L_1L_3g_ms^3 + C_1L_3R_1g_ms^2 + L_3g_ms}{g_m + s^4\left(C_1C_3L_1L_3g_m + C_1C_LL_1L_3g_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3\right) + s^2\left(C_1L_1g_m + C_3L_3g_m + C_LL_3g_m\right) + s\left(C_1R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3\right) + s^2\left(C_1L_1g_m + C_3L_3g_m + C_LL_3g_m\right) + s\left(C_1R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3\right) + s^2\left(C_1L_1g_m + C_3L_3g_m + C_1L_3g_m\right) + s^2\left(C_1L_1g_m + C_3L_3g_m\right) + s^2\left(C_1L_1g_m 
10.687 INVALID-ORDER-687 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                 H(s) = \frac{C_1L_1L_3R_Lg_ms^3 + C_1L_3R_Lg_ms^2 + L_3R_Lg_ms}{R_Lg_m + s^4\left(C_1C_3L_1L_3R_Lg_m + C_1C_LL_1L_3R_Lg_m\right) + s^3\left(C_1C_3L_3R_1R_Lg_m + C_1C_LL_3R_Lg_m + C_1L_1L_3g_m\right) + s^2\left(C_1L_1R_Lg_m + C_1L_3R_1g_m + C_1L_3R_Lg_m + C_1L_3R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_1R_LL_3R_Lg_m\right) + s\left(C_1R_LR_2R_Lg_m\right) + s\left(C_1R_LR_2R_Lg_
10.688 INVALID-ORDER-688 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_3R_Lg_ms^4 + L_3g_ms + s^3\left(C_1C_LL_3R_1R_Lg_m + C_1L_1L_3g_m\right) + s^2\left(C_1L_3R_1g_m + C_LL_3R_Lg_m\right)}{C_1C_3C_LL_1L_3R_Lg_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_1R_Lg_m + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3R_1g_m\right) + s^2\left(C_1L_3R_1g_m + C_1C_LL_3R_1g_m\right) + s^2\left(C_1L_3
10.689 INVALID-ORDER-689 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_3L_Lg_ms^5 + C_1C_LL_3L_LR_1g_ms^4 + C_1L_3R_1g_ms^2 + L_3g_ms + s^3\left(C_1L_1L_3g_m + C_LL_3L_Lg_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_3L_LL_3L_Lg_m + C_1C_LL_1L_2g_m + C_3C_LL_3L_Lg_m\right) + s^3\left(C_1C_3L_1L_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3R_1
10.690 INVALID-ORDER-690 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                        H(s) = \frac{C_{1}L_{1}L_{3}L_{L}g_{m}s^{3} + C_{1}L_{3}L_{L}g_{m}s^{2} + L_{3}L_{L}g_{m}s}{L_{3}g_{m} + L_{L}g_{m} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}L_{L}g_{m} + C_{1}C_{L}L_{1}L_{3}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{3}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{3}L_{L}R_{1}g_{m} + C_{1}L_{L}L_{3}L_{L}g_{m} + C_{1}L_{1}L_{2}g_{m} + C_{1}L_{2}L_{2}g_{m} + C_{1}L
10.691 INVALID-ORDER-691 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_2 L_3 s^2 + 1}, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_{1}C_{L}L_{1}L_{3}L_{L}g_{m}s^{5} + L_{3}g_{m}s + s^{4}\left(C_{1}C_{L}L_{1}L_{3}R_{L}g_{m} + C_{1}C_{L}L_{3}L_{L}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{3}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{3}g_{m} + C_{L}L_{3}L_{L}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{3}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{3}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{3}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{3}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{3}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{3}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{1}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{1}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{1}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{1}R_{1}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{1}R_{1}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{1}R_{1}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{1}R_{1}R_{L}g_{m}\right) + s^{3}\left(C_
H(s) = \frac{C_1C_LL_1L_3L_Lg_ms^5 + L_3g_ms + s^4\left(C_1C_LL_1L_3R_Lg_m + C_1C_LL_3L_LR_1g_m\right) + s^3\left(C_1C_LL_3R_1R_Lg_m + C_1L_1L_3g_m + C_1L_1L_3L_1g_m + C_1C_1L_1L_3R_1g_m + C_1C_1L_1L_1g_m + C_1C_1
10.692 INVALID-ORDER-692 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_1L_1L_3L_LR_Lg_ms^3 + C_1L_3L_LR_Lg_ms^2 + L_3L_LR_Lg_ms}{L_3R_Lg_m + L_LR_Lg_m + s^4\left(C_1C_3L_1L_3L_LR_Lg_m + C_1C_LL_3L_LR_Lg_m + C_1C_LL_3L_LR_Lg_m + C_1L_3L_LR_Lg_m + C_1L_3L_
10.693 INVALID-ORDER-693 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $C_1C_LL_1L_3L_LR_Lg_ms^5 + L_3R_Lg_ms + s^4(C_1C_LL_3L_LR_1R_Lg_m + C_1L_1L_3L_Lg_m) + s^3$

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H(s) = \frac{C_1C_3C_LL_1L_3L_LR_Lg_m s^6 + R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_Lg_m + C_1C_LL_1L_3L_Lg_m + s^4\left(C_1C_3L_1L_3L_LR_Lg_m + C_1C_LL_3L_LR_Lg_m + C_1C_LL_3L_LR_Lg_m + s^4\left(C_1C_3L_1L_3L_LR_Lg_m + C_1C_LL_3L_LR_Lg_m + C_1C_LL_3L_LR_Lg_m + s^4\left(C_1C_3L_3L_LR_Lg_m + c_1C_LL_3L_LR_Lg_m + c_1C_LL_3L_LR_Lg_m + c_1C_LL_3L_LR_Lg_m + s^4\left(C_1C_3L_3L_LR_Lg_m + c_1C_LL_3L_LR_Lg_m + 
10.695 INVALID-ORDER-695 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                            10.696 INVALID-ORDER-696 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_4 s}\right)
                                     H(s) = \frac{C_1C_3L_1L_3g_ms^4 + g_m + s^3\left(C_1C_3L_1R_3g_m + C_1C_3L_3R_1g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_3R_3g_m\right)}{C_1C_3C_LL_1L_3g_ms^5 + s^4\left(C_1C_3C_LL_1R_3g_m + C_1C_3C_LL_3\right) + s^3\left(C_1C_3C_LR_1R_3g_m + C_1C_3L_1R_3g_m + C_1C_3L_1g_m + C_3C_LL_3g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3L_1R_3g_m + C_1C_3L_1R_3g_m + C_1C_3L_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3L_1R_3g_m + C_1C_3L_1R_3g_m + C_1C_3L_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m
10.697 INVALID-ORDER-697 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_{1}C_{3}L_{1}L_{3}R_{L}g_{m}s^{4} + R_{L}g_{m} + s^{3}\left(C_{1}C_{3}L_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}L_{3}R_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m} + C_{3}L_{3}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{2}g_{m} + C_{1}L_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{2}g_{m} + C_{1}L_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{2}g_{m} + C_{1}L_{1}R_{2}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{2}g_{m} + C_{1}L_{1}R_{2}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{2}g_{m} + C_{1}L_{1}R_{2}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{2}g_{m} + C_{1}R_{2}g_{m}\right) + s^{2}\left(C_{1}C_{3}R_{1}R_{2}g_{m}\right) + s^{2}\left(C_{
H(s) = \frac{C_1C_3L_1L_3R_Lg_ms^5 + R_Lg_m + s^5 \cdot (C_1C_3L_1R_3R_Lg_m + C_1C_3L_1R_3R_Lg_m + c_1C_1C_3L_1R_3R_Lg_m + s^5 \cdot (C_1C_3L_1R_3R_Lg_m + c_1C_3L_1R_3R_Lg_m + c_1C_3L_1R_
10.698 INVALID-ORDER-698 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, R_L + \frac{1}{C_T s}\right)
                                                    \frac{C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m}s^{5}+g_{m}+s^{4}\left(C_{1}C_{3}C_{L}L_{1}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{L}L_{3}R_{L}g_{m}+C_{1}C_{3}L_{L}L_{3}g_{m}\right)+s^{3}\left(C_{1}C_{3}C_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{3}g_{m}+C_{1}C_{3
10.699 INVALID-ORDER-699 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                    \frac{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_1L_LR_3g_m + C_1C_3C_LL_2R_1g_m\right) + s^4\left(C_1C_3C_LL_LR_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_LR_3g_m + C_1C_3L_LR_3g_m + C_1C_
10.700 INVALID-ORDER-700 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_3L_1L_2R_3g_m + S^4\left(C_1C_3L_1L_LR_3g_m + C_1C_3L_3L_LR_1g_m\right) + s^3\left(C_1C_3L_LR_1R_3g_m + C_1L_1L_Lg_m + C_3L_3L_LR_1g_m\right) + s^3\left(C_1C_3L_LR_1R_3g_m + C_1L_1L_Lg_m + C_3L_3L_LR_1g_m\right) + s^3\left(C_1C_3L_LR_1R_3g_m + C_1C_3L_LR_1R_3g_m + C_1C_3L_1R_3g_m + C_1C_3L_1R_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_{1}C_{3}L_{1}L_{3}L_{L}g_{m}s^{5} + L_{L}g_{m}s + s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{3}g_{m} + C_{1}C_{3}L_{3}L_{L}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{3}g_{m} + C_{1}L_{1}L_{L}g_{m} + C_{3}L_{3}L_{L}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{3}g_{m} + C_{1}L_{1}L_{L}g_{m} + C_{3}L_{1}L_{L}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{3}g_{m} + C_{1}L_{1}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1
10.701 INVALID-ORDER-701 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}g_{m}s^{6} + g_{m} + s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}R_{1}g_{m} + C_{1}C_{3}C_{L}L_{1}
10.702 INVALID-ORDER-702 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_1 C_3 C_L L_1 L_3 L_L R_L g_m s^6 + R_L g_m + s^5 \left( C_1 C_3 C_L L_1 L_L R_3 R_L g_m + C_1 C_3 C_L L_3 L_L R_1 R_L g_m + C_1 C_3 L_L L_2 R_1 R_2 g_m + C_1 C_3 L_L L_2 R_3 R_L g_m + C_1 C_3 L_2 L_2 R_2 R_L g_m + C_1 C_3 L_2 R_L g_m + C
10.703 INVALID-ORDER-703 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                   \frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{L}g_{m}s^{6}+R_{L}g_{m}+s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{L}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{L}L_{R}R_{L}g_{m}+C_{1}C_{3}L_{L}
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10.694 INVALID-ORDER-694 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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C_1C_3C_LL_1L_3L_LR_Lg_ms^6 + R_Lg_m + s^5\left(C_1C_3C_LL_1L_LR_3R_Lg_m + C_1C_3C_L\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_Lg_ms^6 + R_Lg_m + s^5\left(C_1C_3C_LL_1L_LR_3g_m + C_1C_3C_LL_1L_LR_3g_m + C_1C_3C_LL_1L_LR_3g_m + C_1C_3C_LL_1L_RR_3g_m + C_1C_3C_LL_1L_RR_3g_m + C_1C_3C_LL_1R_3R_Lg_m + C_1C_3C_LL_1R_3R_Lg_m + C_1C_3C_LL_1R_1R_2g_m + C_1C_3C_LL_1R_2g_m + C_1C_3C_
10.705 INVALID-ORDER-705 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)
H(s) = \frac{C_1L_1L_3R_3R_Lg_ms^3 + C_1L_3R_1R_3R_Lg_ms^2 + L_3R_3R_Lg_ms}{C_1C_3L_1L_3R_3R_Lg_ms^4 + R_3R_Lg_m + s^3\left(C_1C_3L_3R_1R_3R_Lg_m + C_1L_1L_3R_3g_m + C_1L_1L_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_1R_3g_m + C_1L_3R_1R_2g_m + C_1L_3R_1R_2g_m + C_1L_3R_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_1R_2g_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m + C_1L_3R_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_Lg_
10.706 INVALID-ORDER-706 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_L s}\right)
                                     H(s) = \frac{C_1L_1L_3R_3g_ms^3 + C_1L_3R_1g_ms^2 + L_3R_3g_ms}{R_3g_m + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_3R_3g_m\right) + s^3\left(C_1C_3L_3R_1R_3g_m + C_1C_LL_3R_3g_m + C_1L_1L_3g_m\right) + s^2\left(C_1L_1R_3g_m + C_1L_3R_3g_m + C_1L_3R_3g_m + C_1L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1L_3R_3g
10.707 INVALID-ORDER-707 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_1L_1L_3R_3R_Lg_ms^3 + C_1L_3R_1R_3R_Lg_ms^2 + L_3R_3R_Lg_ms
H(s) = \frac{C_1L_1L_3R_3R_Lg_ms^3 + C_1L_3R_1R_3R_Lg_ms^2 + L_3R_3R_Lg_ms^2 + L_3R_3R
10.708 INVALID-ORDER-708 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10.709 INVALID-ORDER-709 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_1C_LL_1L_3L_LR_3g_ms^5 + C_1C_LL_3L_LR_1R_3g_ms^4 + C_1L_3R_1R_3g_ms^2 + L_3R_3g_ms + s^3 (
H(s) = \frac{C_1C_LL_1L_3L_LR_3g_ms^5 + C_1C_LL_3L_LR_1R_3g_ms^5 + C_1C_LL_3L_LR_1R_3g_ms^5 + C_1L_3R_1R_3g_ms^5 + C
10.710 INVALID-ORDER-710 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1L_1L_3L_LR_3g_ms^3 + C_1L_3L_LR_3g_ms^2 + L_3L_LR_3g_ms}{L_3R_3g_m + L_LR_3g_m + s^4\left(C_1C_3L_1L_3L_LR_3g_m + C_1C_LL_3L_LR_3g_m + C_1C_LL_3L_LR_3g_m + C_1L_3L_LR_3g_m + C_1L_3L_3L_LR_3g_m + C_1L_3L_3L_2R_3g_m + C_1L_3L_3L_3R_3g_m + C_1L_3L_3L_3R_3g_m + C_1L_3L_3L_3R_3g_m + C_1L_3L_3L_3R_3g_m + C_
10.711 INVALID-ORDER-711 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                    \frac{C_1}{C_1C_3C_LL_1L_3L_LR_3g_ms^6 + R_3g_m + s^5\left(C_1C_3C_LL_1L_3R_3R_Lg_m + C_1C_3C_LL_3L_LR_3g_m + C_1C_LL_1L_3L_Lg_m\right) + s^4\left(C_1C_3C_LL_3R_1R_3R_Lg_m + C_1C_3L_LR_3R_3g_m + C_1C_LL_1L_3R_3g_m + C_1C_LL_1L_3R_3g_m
10.712 INVALID-ORDER-712 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1L_1L_3L_LR_3R_Lg_ms^3 + C_1L_3L_LR_1R_3R_Lg_ms^2 + L_3L_LR_3R_1R_3R_Lg_ms^2
                                    \frac{C_1L_1L_3L_LR_3R_Lg_ms + C_1L_3L_LR_3R_Lg_ms + C_1L_3L_LR_3R_Lg_m + C_1L_3L_LR_3
10.713 INVALID-ORDER-713 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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10.704 INVALID-ORDER-704 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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10.714 INVALID-ORDER-714 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{1}{C_1 C_3 C_L L_1 L_3 L_L R_3 R_L g_m s^6 + R_3 R_L g_m + s^5 \left( C_1 C_3 C_L L_3 L_L R_1 R_3 R_L g_m + C_1 C_L L_1 L_3 L_L R_3 R_L g_m + C_1 C_L L_1 L_2 L_2 R_3 R_L g_m + C_1 C_L L_1 L_2 L_2 R_3 R_L g_m + C_1 C_L L_1 L_2 R_3 R_L g_m + C_1 C_L L_2 L_2 L_2 R_3 R_L g_m + C_1 C_L L_3 L_2 R_3 R_L g
10.715 INVALID-ORDER-715 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
H(s) = \frac{C_1C_3L_1L_3R_3R_Lg_m s^4 + R_3R_Lg_m + s^3\left(C_1C_3L_3R_1R_3R_Lg_m + C_1L_1L_3R_Lg_m\right) + s^2\left(C_1L_1R_3R_Lg_m + C_1L_3R_1R_Lg_m + C_3L_3R_3R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + L_3R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + L_3R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + C_1L_3R_1R_Lg_m + C_1L_3R_1R_Lg_m\right) + s\left(C_1R_1R_3R_Lg_m + C_1R_1R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_1R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1R_2g_m + C_1R_2g_m\right) + s\left(C_1R_1
10.716 INVALID-ORDER-716 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_1 s}\right)
H(s) = \frac{C_1C_3L_1L_3R_3g_ms^4 + R_3g_m + s^3\left(C_1C_3L_3R_1R_3g_m + C_1L_1L_3g_m\right) + s^2\left(C_1L_1R_3g_m + C_1L_3R_1g_m + C_3L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + L_3g_m\right)}{C_1C_3C_LL_1L_3R_3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_1R_3g_m + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_LL_3R_1g_m + C_1C_LL_3R_3g_m\right) + s^2\left(C_1C_LR_1R_3g_m + C_1C_LR_3R_3g_m\right) + s^2\left(C_1C_LR_1R_
10.717 INVALID-ORDER-717 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            H(s) = \frac{C_1C_3L_1L_3R_3R_Lg_ms^2 + R_3R_Lg_m + s^3\left(C_1C_3L_3R_1R_3R_Lg_m + C_1L_1L_3R_Lg_m\right) + s^2\left(C_1C_3L_1R_3R_Lg_m + C_1C_3L_1R_3R_Lg_m + C_1C_3L_1R_3R_Lg_m\right) + s^2\left(C_1C_3L_1R_3R_1R_2g_m + C_1C_3L_1R_3R_Lg_m\right) + s^2\left(C_1C_3L_1R_1R_2g_m\right) + s^2\left(C
10.718 INVALID-ORDER-718 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3R_3R_Lg_ms^5 + R_3g_m + s^4\left(C_1C_3C_LL_3R_1R_3R_Lg_m + C_1C_LL_1L_3R_Lg_m\right) + s^3\left(C_1C_3L_3R_1R_3g_m + C_1C_LL_1R_3R_Lg_m + C_1C_LL_3R_1R_Lg_m + C_1L_LL_3g_m + C_1C_LL_3R_1R_Lg_m + C_1C_LL_3R
10.719 INVALID-ORDER-719 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_Rg_ms^6 + R_3g_m + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_LL_1L_3L_Lg_m\right) + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_3L_LR_1g_m + C_3C_LL_3L_LR_3g_m\right) + s^3\left(C_1C_3L_3R_1R_3g_m + C_1C_LL_1L_1R_3g_m + C_1C_LL_1R_3g_m + 
10.720 INVALID-ORDER-720 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_{1}C_{3}L_{1}L_{3}L_{L}R_{3}g_{m}s^{5} + L_{L}R_{3}g_{m}s + s^{4}\left(C_{1}C_{3}L_{3}L_{L}R_{1}R_{3}g_{m} + C_{1}L_{1}L_{3}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{3}g_{m}s^{6} + R_{3}g_{m} + s^{5}\left(C_{1}C_{3}L_{L}L_{1}L_{3}L_{L}R_{3}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{2}R_{3}g_{m} + C_{1}C_{L}L_{1}L_{1}R_{3}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}R_{3}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{1}L_
10.721 INVALID-ORDER-721 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
                                                \frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{3}g_{m}s^{6}+R_{3}g_{m}+s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{3}L_{L}g_{m}\right)+s^{4}\left(C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}g_{m}+C
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10.722 INVALID-ORDER-722 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $H(s) = \frac{1}{C_1 C_3 C_L L_1 L_3 L_L R_3 R_L g_m s^6 + R_3 R_L g_m + s^5 \left(C_1 C_3 C_L L_3 L_L R_1 R_3 R_L g_m + C_1 C_3 L_1 L_3 L_L R_3 g_m + C_1 C_3 L_3 L_L R_3 R_L g_m + C_1 C_3 L_1 L_1 R_3 R_L g_m + C_1 C_3 L$

10.723 INVALID-ORDER-723 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_3L_LR_3R_Lg_ms^6 + R_3R_Lg_m + s^5\left(C_1C_3C_LL_3L_LR_1R_3R_Lg_m + C_1C_3L_1L_3L_LR_3g_m + C_1C_LL_1L_3L_LR_3g_m + C_1C_LL_1L_3L_LR_3g_m + s^4\left(C_1C_3L_LL_3L_LR_3g_m + C_1C_3L_LL_3L_LR_3g_m + C_1C_3$

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H(s) = \frac{1}{R_3 g_m + R_L g_m + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_3 g_m + C_1 C_3 C_L L_1 L_3 L_L R_1 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 g_m + C_1 C_3 C_L L_3 L_L R_3 g_m + C_1 C_3 C_L L_3 L_L R_3 g_m + C_1 C_3 C_L L_3 L_L R
10.725 INVALID-ORDER-725 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L\right)
H(s) = \frac{C_1C_3L_1L_3R_3R_Lg_ms^4 + C_1C_3L_3R_1R_3R_Lg_ms^3 + C_1R_1R_3R_Lg_ms + R_3R_Lg_m + s^2\left(C_1L_1R_3R_Lg_m + C_3L_3R_3R_Lg_m\right)}{R_3g_m + R_Lg_m + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_3L_1R_3R_Lg_m + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_2g_m + C_1C_3L_3R_3g_m + C_1C_3L_3R
10.726 INVALID-ORDER-726 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3L_1L_3R_3g_ms^4 + C_1C_3L_3R_1R_3g_ms^3 + C_1R_1R_3g_ms + R_3g_m + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m\right)}{C_1C_3C_LL_1L_3R_3g_ms^5 + g_m + s^4\left(C_1C_3C_LL_3R_1R_3g_m + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_3L_3R_1g_m + C_1C_3L_3R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_3R_3R_3g_m\right) + s^2\left(C_1C_3R_3R_3g_m\right) + s^2\left(C_1C_3R_3R_3R_3g_m\right) + s^2\left(C_1C_3R_3R_3g_m\right) + s^2\left
10.727 INVALID-ORDER-727 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1C_3L_1L_3R_3R_Lg_ms^4 + C_1C_3L_3R_1R_3R_Lg_ms^3 + C_1R_1R_3R_Lg_ms + R_3R_Lg_m + s^2 (C)
                                             \frac{C_{1}C_{3}L_{1}L_{3}R_{3}R_{L}g_{m}s^{-} + C_{1}C_{3}L_{3}R_{1}R_{3}R_{L}g_{m}s^{-} + C_{1}R_{1}R_{3}R_{L}g_{m}s + R_{3}R_{L}g_{m}s + R_{3}R_{
10.728 INVALID-ORDER-728 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10.729 INVALID-ORDER-729 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_3g_ms^6 + C_1C_3C_LL_3L_LR_1R_3g_ms^5 + C_1R_1R_3g_ms^5 + C_1R_1R_3g_ms + R_3g_m + s^4\left(C_1C_3L_1L_3R_3g_m + C_1C_LL_1L_LR_3g_m\right)}{C_1C_3C_LL_1L_3L_Lg_ms^6 + g_m + s^5\left(C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_3L_LR_1g_m + C_1C_3C_LL_3R_1R_3g_m + C_1C_3C_LL_3R_3 + C_1C_3C_LL
10.730 INVALID-ORDER-730 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1C_3L_1L_3L_LR_3g_ms^5 + C_1C_3L_3L_LR_1R_3g_ms^4 + C_1L_LR_1R_3g_ms^2 + L_LR_3g_ms + s^3 (
H(s) = \frac{C_1C_3L_1L_3L_LR_3g_ms^5 + C_1C_3L_3L_LR_1R_3g_ms^4 + C_1L_LR_1R_3g_ms^4 + C_1L_LR
10.731 INVALID-ORDER-731 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_3C_LL_1L_3L_LR_3g_ms^6 + R_3g_m + s^5(C_1C_3C_LL_1L_3R_3R_Lg_m + C_1C_3C_LL_3
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_3g_ms^5 + R_3g_m + s^5\left(C_1C_3C_LL_1L_3R_3R_Lg_m + C_1C_3C_LL_1L_3R_3R_Lg_m + C_1C_3C_LL_1L_3R_3R_Lg_m + C_1C_3C_LL_3R_1R_3g_m + s^5\left(C_1C_3C_LL_1L_3R_3g_m + C_1C_3C_LL_3L_1R_3g_m + C_1C_3C_LL_3R_1R_3g_m + C_1C_3C_LL_3R_1R_3g_m + C_1C_3C_LL_3R_1R_3g_m + C_1C_3C_LL_3R_1R_3g_m + C_1C_3C_LL_3R_3R_Lg_m + C_1C_3C_L
10.732 INVALID-ORDER-732 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{3}R_{L}g_{m} + s^{5}\left(C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}L_{L}L_{3}L_{L}R_{3}g_{m} + C_{1}C_{3}L_{1}L_{3}L_{L}R_{3}g_{m} + C_{1}C_{3}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{3}L_{1}L_{2}R_{3}g_{m} + C_{1}C_{3}L_{1}L_{2}R_{2}g_{m} + C_{1}
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10.724 INVALID-ORDER-724 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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10.733 INVALID-ORDER-733 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
```

 $H(s) = \frac{1}{R_3 g_m + R_L g_m + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_3 g_m + C_1 C_3 C_L L_1 L_2 L_2 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 g_m + C_1 C_3 C_L L_3 L$

10.734 INVALID-ORDER-734
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{1}{R_3 g_m + R_L g_m + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_3 g_m + C_1 C_3 C_L L_1 L_3 L_L R_3 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_L g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 R_2 g_m + C_1 C_3 C_L L_3 L_L R_3 R_2 g_m + C_1 C_3 C_L L_3 L_L$

10.735 INVALID-ORDER-735
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{L_1 R_1 R_3 g_m s}{C_1 C_L L_1 R_1 R_3 s^3 + R_1 + s^2 \left(C_1 L_1 R_1 + C_L L_1 R_1 R_3 q_m + C_L L_1 R_3 \right) + s \left(C_L R_1 R_3 + L_1 R_1 q_m + L_1 \right)}$$

10.736 INVALID-ORDER-736
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

10.737 INVALID-ORDER-737
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

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

10.738 INVALID-ORDER-738
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_1 R_3 g_m s^3 + L_1 R_1 R_3 g_m s}{C_1 C_L L_1 L_L R_1 s^4 + R_1 + s^3 \left(C_1 C_L L_1 R_1 R_3 + C_L L_1 L_L R_1 g_m + C_L L_1 L_L \right) + s^2 \left(C_1 L_1 R_1 + C_L L_1 R_1 R_3 g_m + C_L L_1 R_3 + C_L L_L R_1 \right) + s \left(C_L R_1 R_3 + L_1 R_1 g_m + L_1 \right)}$$

10.739 INVALID-ORDER-739
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_1 L_L R_1 R_3 g_m s^2}{C_1 C_L L_1 L_L R_1 R_3 s^4 + R_1 R_3 + s^3 \left(C_1 L_1 L_L R_1 + C_L L_1 L_L R_1 R_3 g_m + C_L L_1 L_L R_3\right) + s^2 \left(C_1 L_1 R_1 R_3 + C_L L_L R_1 R_3 + L_1 L_L R_1 g_m + L_1 L_L\right) + s \left(L_1 R_1 R_3 g_m + L_1 R_3 + L_L R_1\right)}$$

10.740 INVALID-ORDER-740
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.741 INVALID-ORDER-741
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_1 L_L R_1 R_3 R_L g_m s^2}{C_1 C_L L_1 L_L R_1 R_3 R_L s^4 + R_1 R_3 R_L + s^3 \left(C_1 L_1 L_L R_1 R_3 + C_1 L_1 L_L R_1 R_3 R_L g_m + C_L L_1 L_L R_1 R_3 R_L \right) + s^2 \left(C_1 L_1 R_1 R_3 R_L + L_1 L_L R_1 R_3 g_m + L_1 L_L R_1 R_3 g_m + L_1 L_L R_3 + L_1 L_L R_1 R_3 g_m + L_1 L_L R_1 R_1 g_m + L_1 L_L R$$

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10.742 INVALID-ORDER-742 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_L L_1 L_L R_1 R_3 R_L g_m s^3 + L_1 L_L R_1 R_3 g_m s^2 + L_1 R_1 R_3 R_L g_m s}{R_1 R_3 + R_1 R_L + s^4 \left( C_1 C_L L_1 L_L R_1 R_3 + C_1 C_L L_1 L_L R_1 R_L \right) + s^3 \left( C_1 L_1 L_L R_1 + C_L L_1 L_L R_1 R_3 g_m + C_L L_1 L_L R_1 R_2 + C_L L_1 L_L R_1 R_3 + C_L L_1 L_L R_1 R_3 + C_L L_1 L_L R_1 R_3 + C_L L_L R_1 R_2 + C_L L_L R_1 R_3 + C_L
10.743 INVALID-ORDER-743 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_1 L_L R_1 R_3 R_L g_m s^3 + L_1 R_1 R_3 R_L g_m s}{R_1 R_3 + R_1 R_L + s^4 \left( C_1 C_L L_1 L_L R_1 R_3 + C_1 C_L L_1 L_L R_1 R_3 R_L + C_L L_1 L_L R_1 R_3 g_m + C_L L_1 L_L R_1 R_3 g_m + C_L L_1 L_L R_1 R_3 + C_L L_1 L_L R_1 R_3 + C_L L_1 R_1 R_3 R_L g_m + C_L L_1 R_1 R_1 R_1 g_m + C_L L_1 R_1 R
10.744 INVALID-ORDER-744 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{L_1 R_1 R_L g_m s}{C_1 C_3 L_1 R_1 R_L s^3 + R_1 + s^2 \left( C_1 L_1 R_1 + C_3 L_1 R_1 R_L g_m + C_3 L_1 R_L \right) + s \left( C_3 R_1 R_L + L_1 R_1 g_m + L_1 \right)}
10.745 INVALID-ORDER-745 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                          H(s) = \frac{L_1 R_1 R_L g_m s}{R_1 + s^3 \left(C_1 C_3 L_1 R_1 R_L + C_1 C_L L_1 R_1 R_L\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 R_L g_m + C_3 L_1 R_L + C_L L_1 R_1 R_L g_m + C_L L_1 R_L\right) + s \left(C_3 R_1 R_L + C_L R_1 R_L + L_1 R_1 g_m + L_1\right)}
10.746 INVALID-ORDER-746 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                          H(s) = \frac{C_L L_1 R_1 R_L g_m s + L_1 R_1 g_m}{C_1 C_3 C_L L_1 R_1 R_L s^3 + C_3 R_1 + C_L R_1 + s^2 \left( C_1 C_3 L_1 R_1 + C_1 C_L L_1 R_1 + C_3 C_L L_1 R_1 R_L g_m + C_3 C_L L_1 R_L \right) + s \left( C_3 C_L R_1 R_L + C_3 L_1 R_1 g_m + C_3 L_1 + C_L L_1 R_1 g_m + C_L L_1 \right)}
10.747 INVALID-ORDER-747 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                 H(s) = \frac{C_L L_1 L_L R_1 g_m s^2 + L_1 R_1 g_m}{C_1 C_3 C_L L_1 L_L R_1 s^4 + C_3 R_1 + C_L R_1 + s^3 \left( C_3 C_L L_1 L_L R_1 g_m + C_3 C_L L_1 L_L \right) + s^2 \left( C_1 C_3 L_1 R_1 + C_1 C_L L_1 R_1 + C_3 C_L L_L R_1 \right) + s \left( C_3 L_1 R_1 g_m + C_3 L_1 + C_L L_1 R_1 g_m + C_L L_1 \right)}
10.748 INVALID-ORDER-748 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                     H(s) = \frac{L_1 L_L R_1 g_m s^2}{R_1 + s^4 \left(C_1 C_3 L_1 L_L R_1 + C_1 C_L L_1 L_L R_1\right) + s^3 \left(C_3 L_1 L_L R_1 g_m + C_3 L_1 L_L + C_L L_1 L_L R_1 g_m + C_L L_1 L_L\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_L R_1 + C_L L_L R_1\right) + s \left(L_1 R_1 g_m + L_1\right)}{R_1 + s^4 \left(C_1 C_3 L_1 L_L R_1 + C_1 L_L L_L R_1\right) + s^3 \left(C_3 L_1 L_L R_1 g_m + C_3 L_1 L_L R_1 g_m + C_L L_1 L_L\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_L R_1 + C_L L_L R_1\right) + s \left(L_1 R_1 g_m + L_1\right)}
10.749 INVALID-ORDER-749 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                              H(s) = \frac{C_L L_1 L_L R_1 g_m s^2 + C_L L_1 R_1 R_L g_m s + L_1 R_1 g_m}{C_1 C_3 C_L L_1 L_L R_1 s^4 + C_3 R_1 + C_L R_1 + s^3 \left(C_1 C_3 C_L L_1 R_1 R_L + C_3 C_L L_1 L_L R_1 g_m + C_3 C_L L_1 R_1 + C_1 C_L L_1 R_1 + C_3 C_L L_1 R_1 R_L g_m + C_3 C_L L_1 R_1 + C_3 C_L L_1 R_1 R_L g_m + C_3 C_L R_1 R_1 
10.750 INVALID-ORDER-750 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_{3s}}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                   H(s) = \frac{L_1 L_L R_1 R_L g_m s^2}{R_1 R_L + s^4 \left( C_1 C_3 L_1 L_L R_1 R_L + C_1 C_L L_1 L_L R_1 R_L \right) + s^3 \left( C_1 L_1 L_L R_1 + C_3 L_1 L_L R_1 R_L g_m + C_3 L_1 L_L R_1 R_L g_m + C_L L_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L + C_1 L_L R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L + C_1 L_L R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 L_L R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 R_1 R_L \right) + s^2 \left( C_1 R_1 R_L + C_1 R_1 R_L
10.751 INVALID-ORDER-751 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                 \frac{C_{L}L_{1}L_{L}R_{1}g_{m}s^{3}+L_{1}L_{L}R_{1}g_{m}s^{2}+L_{1}R_{1}g_{m}s}{C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{
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10.752 INVALID-ORDER-752 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_1 L_L R_1 R_L g_m s^3 + L_1 R_1 R_L g_m s}{C_1 C_3 C_L L_1 L_L R_1 R_L s^5 + R_1 + s^4 \left( C_1 C_L L_1 L_L R_1 + C_3 C_L L_1 L_L R_1 R_L g_m + C_3 C_L L_1 L_L R_1 R_L + C_1 C_L L_1 R
10.753 INVALID-ORDER-753 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)
                                                                                                                                                                    H(s) = \frac{L_1 R_1 R_3 R_L g_m s}{C_1 C_3 L_1 R_1 R_3 R_L s^3 + R_1 R_3 + R_1 R_L + s^2 \left( C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_L + C_3 L_1 R_1 R_3 R_L g_m + C_3 L_1 R_3 R_L \right) + s \left( C_3 R_1 R_3 R_L + L_1 R_1 R_3 g_m + L_1 R_1 R_L g_m + L_1 R_3 + L_1 R_L \right)}
10.754 INVALID-ORDER-754 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                        H(s) = \frac{L_1 R_1 R_3 g_m s}{R_1 + s^3 \left(C_1 C_3 L_1 R_1 R_3 + C_1 C_L L_1 R_1 R_3\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 R_3 g_m + C_3 L_1 R_3 + C_L L_1 R_1 R_3 g_m + C_L L_1 R_3\right) + s \left(C_3 R_1 R_3 + C_L R_1 R_3 + L_1 R_1 g_m + L_1\right)}
10.755 INVALID-ORDER-755 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                             H(s) = \frac{L_1 R_1 R_3 R_L g_m s}{R_1 R_3 + R_1 R_L + s^3 \left( C_1 C_3 L_1 R_1 R_3 R_L + C_1 C_L L_1 R_1 R_3 R_L \right) + s^2 \left( C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_3 R_L g_m + C_2 L_1 R_3 R_L + C_L L_1 R_3 R_L \right) + s \left( C_3 R_1 R_3 R_L + C_L R_1 R_3 R_L + L_1 R_1 R_3 g_m + L_1 R_1 R_2 g_m + L_1 R_3 R_L \right) + s \left( C_3 R_1 R_3 R_L + C_2 R_1 R_3 R_L + C_2 R_1 R_3 R_L + L_1 R_1 R_2 g_m + L_1 R_1 R_2 g_m + L_1 R_1 R_2 g_m + L_1 R_2 R_2 g_m +
10.756 INVALID-ORDER-756 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 R_1 R_3 R_L g_m s^2 + L_1 R_1 R_3 g_m s}{C_1 C_3 C_L L_1 R_1 R_3 R_L s^4 + R_1 + s^3 \left( C_1 C_3 L_1 R_1 R_3 + C_1 C_L L_1 R_1 R_3 + C_1 C_L L_1 R_1 R_3 + C_2 L_1 R_1 R_3 R_L g_m + C_3 C_L L_1 R_3 R_L \right) + s^2 \left( C_1 L_1 R_1 + C_3 C_L R_1 R_3 R_L + C_3 L_1 R_1 R_3 g_m + C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_1 R_3 g_m + C_2 L_1 R_1 R_2 g_m + C_2 L_1 R
10.757 INVALID-ORDER-757 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                             \frac{C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}s^{3}+L_{1}R_{1}R_{3}g_{m}s}{C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}+s^{4}\left(C_{1}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{L}R_{3}g_{m}+C_{3}C_{L}L_{1}L_{L}R_{3}\right)+s^{3}\left(C_{1}C_{3}L_{1}R_{1}R_{3}+C_{1}C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}L_{L}R_{1}g_{m}+C_{L}L_{1}L_{L}\right)+s^{2}\left(C_{1}L_{1}R_{1}+C_{3}L_{1}R_{1}R_{3}g_{m}+C_{3}L_{1}R_{3}+C_{L}L_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{3}+C_{L}L_{1}R_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_{1}R_{1}R_{2}+C_{L}L_
10.758 INVALID-ORDER-758 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                         H(s) = \frac{L_1 L_L R_1 R_3 g_m s^2}{R_1 R_3 + s^4 \left(C_1 C_3 L_1 L_L R_1 R_3 + C_1 C_L L_1 L_L R_1 R_3\right) + s^3 \left(C_1 L_1 L_L R_1 + C_3 L_1 L_L R_1 R_3 g_m + C_3 L_1 L_L R_3 + C_L L_1 L_L R_3\right) + s^2 \left(C_1 L_1 R_1 R_3 + C_3 L_L R_1 R_3 + C_1 L_L R_1 R_3 + L_1 L_L R_1 g_m + L_1 L_L\right) + s \left(L_1 R_1 R_3 g_m + L_1 R_3 + L_1 L_L R_1 R_3 + C_1 L_L R_1 R_3 + L_1 L_L R_1 R_3 + L_
10.759 INVALID-ORDER-759 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.760 INVALID-ORDER-760 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.761 INVALID-ORDER-761 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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10.762 INVALID-ORDER-762 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_L L_1 L_L R_1 R_3 R_L g_m s^3 + L_1 R_1 R_3 R_L g_m s
10.763 INVALID-ORDER-763 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                       H(s) = \frac{C_3L_1R_1R_3R_Lg_ms^2 + L_1R_1R_Lg_ms}{R_1 + s^3\left(C_1C_3L_1R_1R_3 + C_1C_3L_1R_1R_L\right) + s^2\left(C_1L_1R_1 + C_3L_1R_1R_3g_m + C_3L_1R_1R_Lg_m + C_3L_1R_3 + C_3L_1R_L\right) + s\left(C_3R_1R_3 + C_3R_1R_L + L_1R_1g_m + L_1\right)}
10.764 INVALID-ORDER-764 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                  H(s) = \frac{C_3L_1R_1R_3g_ms + L_1R_1g_m}{C_1C_3C_LL_1R_1R_3s^3 + C_3R_1 + C_LR_1 + s^2\left(C_1C_3L_1R_1 + C_1C_LL_1R_1 + C_3C_LL_1R_1R_3g_m + C_3C_LL_1R_3\right) + s\left(C_3C_LR_1R_3 + C_3L_1R_1g_m + C_3L_1 + C_LL_1R_1g_m + C_LL_1\right)}
10.765 INVALID-ORDER-765 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_3L_1R_1R_3R_Lg_ms^2 + L_1R_1R_Lg_ms}{C_1C_3C_LL_1R_1R_3R_Ls^4 + R_1 + s^3\left(C_1C_3L_1R_1R_3 + C_1C_3L_1R_1R_L + C_1C_LL_1R_1R_L + C_3C_LL_1R_3R_Lg_m + C_3C_LL_1R_3R_L\right) + s^2\left(C_1L_1R_1 + C_3C_LR_1R_3R_L + C_3L_1R_1R_2g_m + C_3L_1R_2g_m + C_3L_1R_2g
10.766 INVALID-ORDER-766 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                     H(s) = \frac{C_3C_LL_1R_1R_3R_Lg_ms^2 + L_1R_1g_m + s\left(C_3L_1R_1R_3g_m + C_LL_1R_1R_Lg_m\right)}{C_3R_1 + C_LR_1 + s^3\left(C_1C_3C_LL_1R_1R_3 + C_1C_3C_LL_1R_1R_L\right) + s^2\left(C_1C_3L_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_3 + C_3C_LL_1R_3 + C_3C_LL_1R_3 + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_1R_3 + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_1R_3 + C_3C_LL_1R_1R_3 + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_1R_3 + C_3C_LL_1R_3 + C_3C_LL_1R_1R_3 + 
10.767 INVALID-ORDER-767 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                  H(s) = \frac{C_3C_LL_1L_LR_1R_3g_ms^3 + C_3L_1R_1R_3g_ms + C_LL_1L_LR_1g_ms^2 + L_1R_1g_m}{C_1C_3C_LL_1L_LR_1s^4 + C_3R_1 + C_LR_1 + s^3\left(C_1C_3C_LL_1R_1R_3 + C_3C_LL_1L_LR_1g_m + C_3C_LL_1R_1 + C_3C_LL_
10.768 INVALID-ORDER-768 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_3L_1L_LR_1R_3g_ms^3 + L_1L_LR_1g_ms^2}{C_1C_3C_LL_1L_LR_1R_3s^5 + R_1 + s^4\left(C_1C_3L_1L_LR_1 + C_3C_LL_1L_LR_1 + C_3C_LL_1L_LR_3\right) + s^3\left(C_1C_3L_1R_1R_3 + C_3C_LL_1L_RR_3 + C_3L_1L_LR_1g_m + C_3L_1L_LR_1g_m + C_4L_1L_L\right) + s^2\left(C_1L_1R_1 + C_3L_1R_1R_3g_m + C_3L_1R_1 + C_4L_1L_RR_3\right) + s^3\left(C_1C_3L_1R_1R_3 + C_3L_1L_RR_3 + C_3L_1L_RR_3 + C_3L_1L_RR_3\right) + s^3\left(C_1C_3L_1L_RR_3 + C_3L_1L_RR_3 + C_3L_1L_RR_3\right) + s^3\left(C_1C_3L_1L_RR_3 + C_3L_1L_RR_3\right) + s^3\left(C_1C_3L_1R_1R_3 + C_3L_1R_3\right) + s^3\left(C_1C_3L_1R_1R_3 + C_3L_1R_3\right) + s^3\left(C_1C_3L_1R_1R_3 + C_3L_1R_3\right) + s^3\left(C_1C_3L_1R_1R_3\right) +
10.769 INVALID-ORDER-769 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_2 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_3C_LL_1L_LR_1R_3g_ms^3 + L_1R_1g_m + s^2\left(C_3C_LL_1R_1R_3R_Lg_m + C_LL_1L_LR_1g_m\right) + s\left(C_3L_1R_1R_3g_m + C_LL_1R_1R_2g_m\right)}{C_1C_3C_LL_1L_LR_1s^4 + C_3R_1 + C_LR_1 + s^3\left(C_1C_3C_LL_1R_1R_3 + C_1C_3C_LL_1R_1R_2 + C_3C_LL_1R_1\right) + s^2\left(C_1C_3L_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1\right) + s\left(C_3C_LR_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1\right) + s\left(C_3C_LR_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R
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10.770 INVALID-ORDER-770 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

10.771 INVALID-ORDER-771 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

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

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10.772 INVALID-ORDER-772 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.773 INVALID-ORDER-773 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                     H(s) = \frac{C_3L_1L_3R_1R_Lg_ms^3 + L_1R_1R_Lg_ms}{C_1C_3L_1L_3R_1s^4 + R_1 + s^3\left(C_1C_3L_1R_1R_L + C_3L_1L_3R_1g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1 + C_3L_1R_1R_Lg_m + C_3L_1R_L + C_3L_3R_1\right) + s\left(C_3R_1R_L + L_1R_1g_m + L_1\right)}
10.774 INVALID-ORDER-774 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                              H(s) = \frac{C_3L_1L_3R_1g_ms^2 + L_1R_1g_m}{C_1C_3C_LL_1L_3R_1s^4 + C_3R_1 + C_LR_1 + s^3\left(C_3C_LL_1L_3R_1g_m + C_3C_LL_1L_3\right) + s^2\left(C_1C_3L_1R_1 + C_1C_LL_1R_1 + C_3C_LL_3R_1\right) + s\left(C_3L_1R_1g_m + C_3L_1 + C_LL_1R_1g_m + C_LL_1\right)}
10.775 INVALID-ORDER-775 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_3L_1L_3R_1R_Lg_ms^3 + L_1R_1R_Lg_ms}{C_1C_3C_LL_1L_3R_1R_Ls^5 + R_1 + s^4\left(C_1C_3L_1L_3R_1 + C_3C_LL_1L_3R_1R_Lg_m + C_3L_1L_3R_1\right) + s^3\left(C_1C_3L_1R_1R_L + C_3C_LL_1R_1R_L + C_3L_1R_1R_Lg_m + C_3L_1R_1\right) + s^2\left(C_1L_1R_1 + C_3L_1R_1R_Lg_m + C_3L_1R_1R_1R_1g_m + C_3L_1R_1R_1R_1g_m + C_3L_1R_1R_1R_1g_m + C_3L_1R_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1g_m + 
10.776 INVALID-ORDER-776 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                             H(s) = \frac{C_3C_LL_1L_3R_1R_Lg_ms^3 + C_3L_1L_3R_1g_ms^2 + C_LL_1R_1R_Lg_ms + L_1R_1g_m}{C_1C_3C_LL_1L_3R_1s^4 + C_3R_1 + C_LR_1 + s^3\left(C_1C_3C_LL_1R_1R_L + C_3C_LL_1L_3R_1g_m + C_3C_LL_1R_1 + C_1C_LL_1R_1 + C_3C_LL_1R_1R_Lg_m + C_3C_LL_1R_1 + C_
10.777 INVALID-ORDER-777 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                          H(s) = \frac{C_3C_LL_1L_3L_LR_1g_ms^4 + L_1R_1g_m + s^2\left(C_3L_1L_3R_1g_m + C_LL_1L_LR_1g_m\right)}{C_3R_1 + C_LR_1 + s^4\left(C_1C_3C_LL_1L_3R_1 + C_1C_3C_LL_1L_2R_1\right) + s^3\left(C_3C_LL_1L_3R_1g_m + C_3C_LL_1L_2R_1g_m + C_3C_LL_1L_L\right) + s^2\left(C_1C_3L_1L_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1\right) + s\left(C_3L_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1\right) + s\left(C_3L_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1\right) + s\left(C_3L_1R_1g_m + C_3L_1R_1g_m + C_3L_1R_1
10.778 INVALID-ORDER-778 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_1 L_L s^2 + 1}\right)
H(s) = \frac{C_3L_1L_3L_LR_1g_ms^4 + L_1L_LR_1g_ms^2}{C_1C_3C_LL_1L_3L_LR_1s^6 + R_1 + s^5\left(C_3C_LL_1L_3L_LR_1g_m + C_3C_LL_1L_3L_L\right) + s^4\left(C_1C_3L_1L_3R_1 + C_1C_3L_1L_LR_1 + C_1C_LL_1L_LR_1 + C_3C_LL_3L_LR_1\right) + s^3\left(C_3L_1L_3R_1g_m + C_3L_1L_LR_1g_m + C_3L_1L_1R_1g_m + C_3L_1R_1g_m + C_3L_1L_1R_1g_m + C_3L_1R_1g_m 
10.779 INVALID-ORDER-779 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_3C_LL_1L_3L_LR_1g_ms^4 + C_3C_LL_1L_3R_1R_Lg_ms^3 + C_LL_1R_1R_Lg_ms + L_1R_1g_m + s^2\left(C_3L_1L_3R_1g_m + C_LL_1L_LR_1g_m\right)}{C_3R_1 + C_LR_1 + s^4\left(C_1C_3C_LL_1L_3R_1 + C_1C_3C_LL_1L_R\right) + s^3\left(C_1C_3C_LL_1R_1R_L + C_3C_LL_1R_1R_L + C_3C_LL_1L_3R_1g_m + C_3C_LL_1L_1\right) + s^2\left(C_1C_3L_1R_1 + C_1C_LL_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1\right) + s^2\left(C_3C_LL_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1\right) + s^2\left(C_3C_LL_1R_1 + C_3C_LL_1R_1\right) + s^2\left(C_3C_LL_1
10.780 INVALID-ORDER-780 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.781 INVALID-ORDER-781 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $\frac{C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}s^{6}+R_{1}+s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{L}+C_{3}C_{L}L_{1}L_{3}L_{L}\right)+s^{4}\left(C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}+C_{1}C_{L}L_{1}L_{L}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1}R_{1}+C_{3}C_{L}L_{1}L_{1$

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10.782 INVALID-ORDER-782 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_3C_LL_1L_3L_LR_1g_ms^5 + L_1R_1g_ms^5 + L_1R_1R_Lg_ms^5 + L_1R_1R_Lg_ms
10.783 INVALID-ORDER-783 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
                                                                                                                                                                                                            H(s) = \frac{L_1 L_3 R_1 R_L g_m s^2}{C_1 C_3 L_1 L_3 R_1 R_L s^4 + R_1 R_L + s^3 \left(C_1 L_1 L_3 R_1 + C_3 L_1 L_3 R_1 R_L g_m + C_3 L_1 L_3 R_L\right) + s^2 \left(C_1 L_1 R_1 R_L + C_3 L_3 R_1 R_L + L_1 L_3 R_1 g_m + L_1 L_3\right) + s \left(L_1 R_1 R_L g_m + L_1 R_L + L_3 R_1\right)}
10.784 INVALID-ORDER-784 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                      H(s) = \frac{L_1 L_3 R_1 g_m s^2}{R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_L L_1 L_3 R_1\right) + s^3 \left(C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3 + C_L L_1 L_3 R_1 g_m + C_L L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_3 R_1 + C_L L_3 R_1\right) + s \left(L_1 R_1 g_m + L_1\right)}
10.785 INVALID-ORDER-785 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                  H(s) = \frac{L_1 L_3 R_1 R_L g_m s^2}{R_1 R_L + s^4 \left( C_1 C_3 L_1 L_3 R_1 R_L + C_1 C_L L_1 L_3 R_1 R_L \right) + s^3 \left( C_1 L_1 L_3 R_1 + C_3 L_1 L_3 R_1 R_L g_m + C_3 L_1 L_3 R_1 R_L g_m + C_L L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_3 L_3 R_1 R_L + C_L L_3 R_1 R_L + L_1 L_3 R_1 g_m + L_1 L_3 \right) + s \left( L_1 R_1 R_L g_m + L_1 R_L + L_2 R_1 g_m + L_1 R_L + L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L + L_1 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_L + C_2 L_3 R_1 R_L \right) + s^2 \left( C_1 L
10.786 INVALID-ORDER-786 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_3 R_1 R_L g_m s^3 + L_1 L_3 R_1 g_m s^2}{C_1 C_3 C_L L_1 L_3 R_1 R_L s^5 + R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_3 C_L L_1 L_3 R_1 R_L g_m + C_3 C_L L_1 L_3 R_1 R_L + C_3 C_L L_1 R_1 R_L + C_4 C_L R_1 R_1 R_L + C_4 C_L R_1 R_
10.787 INVALID-ORDER-787 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_3 L_L R_1 g_m s^4 + L_1 L_3 R_1 g_m s^2}{C_1 C_3 C_L L_1 L_3 L_L R_1 s^6 + R_1 + s^5 \left(C_3 C_L L_1 L_3 L_L R_1 g_m + C_3 C_L L_1 L_3 L_L\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_L L_1 L_3 R_1 + C_1 C_L L_1 L_2 R_1\right) + s^3 \left(C_3 L_1 L_3 R_1 g_m + C_2 L_1 L_2 R_1 g_m + C_2 L_1 L_3 R_1 g_m + 
10.788 INVALID-ORDER-788 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                      H(s) = \frac{L_1L_3L_LR_1g_ms^2}{L_3R_1 + L_LR_1 + s^4\left(C_1C_3L_1L_3L_LR_1 + C_1C_LL_1L_3L_LR_1\right) + s^3\left(C_3L_1L_3L_LR_1g_m + C_3L_1L_3L_LR_1g_m + C_LL_1L_3L_L\right) + s^2\left(C_1L_1L_3R_1 + C_1L_1L_LR_1 + C_3L_3L_LR_1\right) + s\left(L_1L_3R_1g_m + L_1L_3 + L_1L_LR_1g_m + L_1L_L\right)}
10.789 INVALID-ORDER-789 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_3 L_L R_1 g_m s^4 + C_L L_1 L_3 R_1 R_L g_m s^3 + L_1 L_3 R_1 g_m s^2}{C_1 C_3 C_L L_1 L_3 L_L R_1 s^6 + R_1 + s^5 \left(C_1 C_3 C_L L_1 L_3 R_1 R_L + C_3 C_L L_1 L_3 L_L R_1 g_m + C_3 C_L L_1 L_3 R_1 R_L + C_3 C_L L_1 R_1 R_L 
10.790 INVALID-ORDER-790 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{L_{1}L_{3}L_{L}R_{1}R_{L}g_{m}s^{2}}{L_{3}R_{1}R_{L} + L_{L}R_{1}R_{L} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{L}\right) + s^{3}\left(C_{1}L_{1}L_{3}L_{L}R_{1}R_{L}g_{m} + C_{3}L_{1}L_{3}L_{L}R_{1}R_{L}g_{m} + C_{L}L_{1}L_{3}L_{L}R_{1}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L} + C_{1}L_{1}L_{2}R_{L}R_{L} + C_{L}L_{3}L_{L}R_{1}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L} + C_{1}L_{1}L_{2}R_{L}R_{L} + C_{1}L_{1}L_{2}R_{L}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L} + C_{1}L_{1}L_{2}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L} + C_{1}L_{1}L_{2}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L} + C_{1}L_{1}L_{2}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L} + C_{1}L_{1}L_{2}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}R_{L}\right) + s^{2}\left(C_{1}L_{1}L_{3}R_{L}\right) + s^{2}\left(C_{1}L_{
10.791 INVALID-ORDER-791 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                       \frac{C_L L_1 L_3 L_L R_1 R_L s^6 + R_1 R_L + s^5 \left(C_1 C_3 L_1 L_3 L_L R_1 + C_1 C_L L_1 L_3 L_L R_1 + C_3 C_L L_1 L_3 L_L R_1 + C_3 C_L L_1 L_3 L_L R_1 R_L + C_3 C_L L_1 L_3 L_L R_1 R_L
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10.792 INVALID-ORDER-792 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_1 L_3 L_L R_1 R_L g_m s}{C_1 C_3 C_L L_1 L_3 L_L R_1 R_L s^6 + R_1 R_L + s^5 \left( C_1 C_L L_1 L_3 L_L R_1 R_L g_m + C_3 C_L L_1 L_3 L_L R_1 R_L + C_1 C_L L_1 L_3 R_1 R_L + C_1 C_L L_1 L_3 R_1 R_L + C_1 C_L L_1 L_3 L_L R_1 R_L + C_1 C_L L_1 L_1 R_1 R_L + C_1 C_L L_1 L_1 R_1 R_L + C_1 C_L L_1 R_1 R_L + C_1 C_L L_1 R_1 R_L + C_1 C_L L_1 R_1 R_L + C_1 C
10.793 INVALID-ORDER-793 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                 H(s) = \frac{C_3L_1L_3R_1R_Lg_ms^3 + C_3L_1R_1R_3R_Lg_ms^2 + L_1R_1R_Lg_ms}{C_1C_3L_1L_3R_1s^4 + R_1 + s^3\left(C_1C_3L_1R_1R_3 + C_1C_3L_1R_1R_L + C_3L_1L_3R_1g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1 + C_3L_1R_1R_3g_m + C_3L_1R_1R_2g_m + C_3L_1R_3 + C_3L_1R_1 + C_3L_3R_1\right) + s\left(C_3R_1R_3 + C_3R_1R_L + L_1R_1g_m + L_1\right)}
10.794 INVALID-ORDER-794 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                        H(s) = \frac{C_3L_1L_3R_1g_ms^2 + C_3L_1R_1g_ms + L_1R_1g_m}{C_1C_3C_LL_1L_3R_1s^4 + C_3R_1 + C_LR_1 + s^3\left(C_1C_3C_LL_1R_1R_3 + C_3C_LL_1L_3R_1g_m + C_3C_LL_1R_1 + C_1C_LL_1R_1 + C_3C_LL_1R_1R_3g_m + C_3C_LL_1R_3 + C_3C_LL_3R_1\right) + s\left(C_3C_LR_1R_3 + C_3L_1R_1g_m + C_3L_1+C_LL_1R_1g_m + C_2L_1\right)}
10.795 INVALID-ORDER-795 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_3L_1L_3R_1R_Lg_ms^3 + C_3L_1R_1R_3R_Lg_ms^2 + L_1R_1R_Lg_ms
H(s) = \frac{C_3L_1L_3R_1R_Lg_ms^{\circ} + C_3L_1R_1R_3R_Lg_ms + L_1R_1R_2g_ms}{C_1C_3C_LL_1L_3R_1R_Ls^5 + R_1 + s^4\left(C_1C_3C_LL_1R_1R_3R_L + C_3C_LL_1L_3R_1R_Lg_m + C_3C_LL_1R_3R_L + C_3C_LL_1R_3R_Lg_m + C_3C_LL_1R_3R_L + C_3C_LL_1R_
10.796 INVALID-ORDER-796 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_3C_LL_1L_3R_1R_Lg_ms^3 + L_1R_1g_m + s^2\left(C_3C_LL_1R_1R_3R_Lg_m + C_3L_1L_3R_1g_m\right) + s\left(C_3L_1R_1R_3g_m + C_LL_1R_1R_Lg_m\right)}{C_1C_3C_LL_1L_3R_1s^4 + C_3R_1 + C_LR_1 + s^3\left(C_1C_3C_LL_1R_1R_3 + C_1C_3C_LL_1R_1R_1 + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_2
10.797 INVALID-ORDER-797 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}\right)
H(s) = \frac{C_3C_LL_1L_3L_LR_1g_ms^4 + C_3C_LL_1L_LR_1g_ms^3 + C_3L_1R_1R_3g_ms^3 + C_3L_1R_1g_m + s^2\left(C_3L_1L_3R_1g_m + C_LL_1L_LR_1g_m\right)}{C_3R_1 + C_LR_1 + s^4\left(C_1C_3C_LL_1L_3R_1 + C_1C_3C_LL_1L_2R_1\right) + s^3\left(C_1C_3C_LL_1R_1R_3 + C_3C_LL_1L_3R_1g_m + C_3C_LL_1L_2\right) + s^2\left(C_1C_3L_1L_1R_1 + C_3C_LL_1R_1 + C_3C_LL_1R_1
10.798 INVALID-ORDER-798 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_1 L_L s^2 + 1}\right)
H(s) = \frac{C_3L_1L_3L_LR_1g_ms^4 + C_3L_1L_LR_1g_ms^3 + L_1L_LR_1g_ms^2}{C_1C_3C_LL_1L_3L_LR_1s^6 + R_1 + s^5\left(C_1C_3C_LL_1L_LR_1R_3 + C_3C_LL_1L_3L_LR_1g_m + C_3C_LL_1L_LR_1 + C_3C_LL_1L_1L_1 + C_3C_LL_1L_1 + C_3C_L
10.799 INVALID-ORDER-799 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_7 s}\right)
H(s) = \frac{C_3C_LL_1L_3L_LR_1g_m s^4 + L_1R_1g_m + s^3\left(C_3C_LL_1L_3R_1R_Lg_m + C_3C_LL_1L_LR_1R_3g_m\right) + s^2\left(C_3C_LL_1R_1R_3R_Lg_m + C_3L_1L_3R_1g_m + C_LL_1L_LR_1g_m\right) + s\left(C_3L_1R_1R_3g_m + C_3L_1L_1R_1g_m + C_3L_1R_1g_m + C_3L_1R
10.800 INVALID-ORDER-800 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{-}{C_1C_3C_LL_1L_3L_LR_1R_Ls^6 + R_1R_L + s^5\left(C_1C_3C_LL_1L_LR_1R_3R_L + C_1C_3L_1L_3L_LR_1 + C_3C_LL_1L_3L_LR_1R_Lg_m + C_3C_LL_1L_3L_LR_1\right) + s^4\left(C_1C_3L_1L_3R_1R_L + C_1C_3L_1L_LR_1R_3 + C_1C_3L_1L_LR_1R_L + C_3C_LL_1L_LR_1R_3R_L + C_3C_LL_1L_LR_1R_3R_L + C_3C_LL_1L_LR_1R_1R_1 + C_3C_LL_1L_LR_1R_1R_1 + C_3C_LL_1L_LR_1R_1R_1 + C_3C_LL_1L_LR_1R_1R_1 + C_3C_LL_1L_RR_1R_1 + C_3C_LL_1L_1R_1R_1 + C_3C_LL_1L_1R_1R_1 + C_3C_LL_1L_1R_1R_1 + C_3C_LL_1L_1R_1R_1 + C_3C_LL_1R_1R_1 + C_3C_LL_1R_1R_1 + C_3C_LL_1R_1R_1 + C_3C_LL_1R_1R_1 + C_3C_LL_1R_1R_1R_1 + C_3C_LL_1R_1R_1 + C_3C_LL_1R_1R_1 + C_3C_LL_1R_1R_1 + C_3C_LL_1R_1R_1 + C
10.801 INVALID-ORDER-801 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{C_L L_R R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \frac{C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}s^{6}+R_{1}+s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}+C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}
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10.802 INVALID-ORDER-802 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{1}{C_1 C_3 C_L L_1 L_3 L_L R_1 s^6 + R_1 + s^5 \left( C_1 C_3 C_L L_1 L_3 R_1 R_L + C_1 C_3 C_L L_1 L_L R_1 R_3 + C_1 C_3 C_L L_1 L_2 R_1 R_3 + C_1 C_3 C_L L_1 L_3 L_L R_1 g_m + C_3 C_L L_1 L_3 L_L R_1 g_m + C_3 C_L L_1 L_3 R_1 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_3 R_1 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 R_1 R_2 R_L
10.803 INVALID-ORDER-803 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L\right)
H(s) = \frac{L_1 L_3 R_1 R_3 R_L g_m s^2}{C_1 C_3 L_1 L_3 R_1 R_3 R_L s^4 + R_1 R_3 R_L + s^3 \left( C_1 L_1 L_3 R_1 R_3 + C_1 L_1 L_3 R_1 R_3 + C_1 L_1 L_3 R_1 R_3 R_L g_m + C_3 L_1 L_3 R_3 R_L \right) + s^2 \left( C_1 L_1 R_1 R_3 R_L + L_1 L_3 R_1 R_3 g_m + L_1 L_3 R_1 g_m + L_1 L_3
10.804 INVALID-ORDER-804 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{1}{C_{L_s}}\right)
                                             H(s) = \frac{L_{1}L_{3}R_{1}R_{3}g_{m}s^{2}}{R_{1}R_{3} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{1}R_{3} + C_{1}C_{L}L_{1}L_{3}R_{1}R_{3}\right) + s^{3}\left(C_{1}L_{1}L_{3}R_{1} + C_{3}L_{1}L_{3}R_{1}R_{3}g_{m} + C_{2}L_{1}L_{3}R_{3}\right) + s^{2}\left(C_{1}L_{1}R_{1}R_{3} + C_{2}L_{1}R_{3}R_{1}R_{3} + C_{L}L_{1}R_{3}R_{1}R_{3} + C_{L}L_{1}R_{1}R_{3} + C_{L}L_{1}R_{1}R_{1} + C_{L}L_{1}R_{1}R_{1} + C_{L}L_{1}R_{1}R_{1} + C_{L}L_{1}R_{1}R_{1} + C_{L}L_{1}R_{1}R_{1} + C_
10.805 INVALID-ORDER-805 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{L_1 L_3 R_1 R_3 R_L g_m s^2}{R_1 R_3 R_L + s^4 \left( C_1 C_3 L_1 L_3 R_1 R_3 R_L + C_1 C_L L_1 L_3 R_1 R_3 R_L \right) + s^3 \left( C_1 L_1 L_3 R_1 R_3 + C_1 L_1 L_3 R_1 R_3 R_L + C_2 L_1 L_3 R_1 R_3 R
10.806 INVALID-ORDER-806 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_3 R_1 R_3 R_L g_m s^3 + L_1 L_3 R_1 R_3 g_m s^2}{C_1 C_3 C_L L_1 L_3 R_1 R_3 R_L s^5 + R_1 R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_L L_1 L_3 R_1 R_3 + C_1 C_L L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_1 L_1 L_3 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_1 L_1 L_3 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_3 R_L + C_3 L_1 L_3 R_1 R_3 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_1 R_1 R_1 + C_3 L_1 L_3 R_1 R_1 R_1 R_1 + C_3 L_1 L_3 
10.807 INVALID-ORDER-807 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_3 L_L K_1 K_3 g_m s^{-} + L_1 L_3 K_1 K_3 g_m s^{-} + L_1 L_3 K_1 K_3 g_m s^{-}}{C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 s^{6} + R_1 R_3 + s^{5} \left( C_1 C_L L_1 L_3 L_L R_1 R_3 g_m + C_3 C_L L_1 L_3 L_L R_3 \right) + s^{4} \left( C_1 C_3 L_1 L_3 L_L R_1 R_3 + C_1 C_L L_1 L_2 R_1 R_3 + C_1 C_L L_1 L_3 L_L R_1 R_3 + C_1 C_L L_1 L_1 R_1 R_1 R_1 +
10.808 INVALID-ORDER-808 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{L_1 L_3 L_L R_1 R_3 g_m s^2}{L_3 R_1 R_3 + L_L R_1 R_3 + s^4 \left(C_1 C_3 L_1 L_3 L_L R_1 R_3 + C_1 L_L L_1 L_3 L_L R_1 R_3 + C_1 L_1 L_3 L_L R_1 R_3 + C_1 L_1 L_3 L_L R_1 R_3 g_m + C_2 L_1 L_3 L_L R_1 R_3 g_m + C_2 L_1 L_3 L_L R_1 R_3 + C_1 L_1 L_2 R_1 R_3 + C_2 L_3 L_L R_1 R_3 + C_3 L_2 L_L R_1 R_
10.809 INVALID-ORDER-809 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
                                         \overline{C_1C_3C_LL_1L_3L_LR_1R_3s^6 + R_1R_3 + s^5\left(C_1C_3C_LL_1L_3R_1R_3R_L + C_1C_LL_1L_3L_LR_1 + C_3C_LL_1L_3L_LR_1R_3g_m + C_3C_LL_1L_3R_1R_3 + C_1C_LL_1L_3R_1R_3 + C_1C_LL_1L_1
10.810 INVALID-ORDER-810 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.811 INVALID-ORDER-811 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $\overline{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L}s^{6} + R_{1}R_{3}R_{L} + s^{5}\left(C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}R_{3} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{2}L_{2}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{1}R_{2} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{1}R_{2} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{1}R_{2} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{1}R_{2} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{1}R_{2} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2} +$

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10.813 INVALID-ORDER-813 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L\right)
H(s) = \frac{C_3L_1L_3R_1R_3R_Lg_ms^3 + L_1L_3R_1R_Lg_ms^2 + L_1R_1R_3R_Lg_ms}{R_1R_3 + R_1R_L + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_3L_1L_3R_1R_L\right) + s^3\left(C_1L_1L_3R_1 + C_3L_1L_3R_1R_2g_m + C_3L_1L_3R_1\right) + s^2\left(C_1L_1R_1R_3 + C_1L_1R_1R_L + C_3L_3R_1R_3 + C_3L_3R_1R_L + L_1L_3R_1g_m + L_1L_3\right) + s\left(L_1R_1R_3g_m + L_1R_1R_2g_m + L_1R_2g_m + L_1R_2g_m + L_1R_2g_m + L_1R_2g_m + L_1R_2g_m + L_1R_2g_m 
10.814 INVALID-ORDER-814 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s}\right)
H(s) = \frac{C_3L_1L_3R_1R_3g_ms^3 + L_1L_3R_1g_ms^2 + L_1R_1R_3g_ms}{C_1C_3C_LL_1L_3R_1R_3s^5 + R_1 + s^4\left(C_1C_3L_1L_3R_1 + C_3C_LL_1L_3R_1 + C_3C_LL_1L_3R_3\right) + s^3\left(C_1C_LL_1R_1R_3 + C_3C_LL_3R_1R_3 + C_3L_1L_3R_1g_m + C_LL_1L_3\right) + s^2\left(C_1L_1R_1 + C_3L_3R_1 + C_LL_1R_3g_m + C_LL_1R_3\right) + s^2\left(C_1L_1R_1 + C_3L_1R_3g_m + C_LL_1R_3g_m + C_LL_1
10.815 INVALID-ORDER-815 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_3L_1L_3R_1R_3R_Lg_ms^3 + L_1L_3R_1R_1
H(s) = \frac{C_3L_1L_3R_1R_3R_Lg_ms^{\circ} + L_1L_3R_1R_3}{C_1C_3C_LL_1L_3R_1R_3R_Ls^5 + R_1R_3 + R_1R_L + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_LL_1L_3R_1R_4 + C_3C_LL_1L_3R_1R_3R_L + C_3C_LL_1L_3R_1R_1 + C
10.816 INVALID-ORDER-816 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \underline{C_{3}C_{L}L_{1}L_{3}R_{1}R_{3}R_{L}g_{m}s^{4}} + L_{1}R_{1}R_{3}g_{m}s + s^{3}\left(C_{3}L_{1}L_{3}R_{1}R_{3}g_{m} + C_{L}L_{1}L_{3}R_{1}R_{L}g_{m}\right) + s^{2}\left(C_{L}L_{1}R_{1}R_{3}R_{L}g_{m}\right) + s^{2}\left(C_{L}L_{1}R_{1}R_{2}R_{L}g_{m}\right) + s^{2
H(s) = \frac{C_3C_LL_1L_3R_1R_3g_ms^4 + L_1R_1R_3g_ms + s^3\left(C_3L_1L_3R_1R_3g_m + C_LL_1L_3R_1R_Lg_m\right) + s^2\left(C_LL_1R_1R_3R_Lg_m\right) + s^2\left(C_LL_1R_1R_3R_Lg_m\right) + s^2\left(C_LL_1R_1R_3R_Lg_m + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1R_3R_1R_3 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R
10.817 INVALID-ORDER-817 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10.818 INVALID-ORDER-818 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_3L_1L_3L_LR_1R_3g_ms^4 + L_1L_3L_LR_1}{C_1C_3C_LL_1L_3L_LR_1R_3s^6 + R_1R_3 + s^5\left(C_1C_3L_1L_3L_LR_1 + C_1C_LL_1L_3L_LR_1 + C_3C_LL_1L_3L_LR_3g_m + C_3C_LL_1L_3L_LR_3 + C_3C_LL_1L_3L_LR_1 + C_3C_LL_1L_3L_1 + C_3C_LL_1L_3L_1 + C_3C_LL_1L_3L_1 + C_3C_LL_1L_3L_1 + C_3C_LL_1L_3L_1 + C_3C_LL_1L_1L_1 + C_3C_LL_1L_1 + C_3C_LL_1L_1L_1 + C_3C_LL_1L_1L_1 + C_3C_LL_1L_1L_1 + C_3C_L
10.819 INVALID-ORDER-819 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + L_3}, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}s_{3}g_{m}s_{+} + L_{1}R_{1}R_{3}g_{m}s_{+} + s_{-}C_{3}C_{L}L_{1}L_{3}R_{1}R_{3}g_{m}s_{-} + s_{-}C_{3}C_{L}L_{1}L_{3}R_{1}R_{2}g_{m} + s_{-}C_{3}C_{L}L_{1}L
10.820 INVALID-ORDER-820 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + s^{5}\left(C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}R_{3} + C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{L} + C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{R}R_{1}R_{2}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{L} + C_{1}C_{L}L_{1
10.821 INVALID-ORDER-821 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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10.812 INVALID-ORDER-812 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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10.822 INVALID-ORDER-822 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
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10.823 INVALID-ORDER-823
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L\right)$$

 $H(s) = \frac{C_3L_1L_3R_1R_3R_Lg_ms^3 + L_1R_1R_3R_Lg_ms}{R_1R_3 + R_1R_L + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_3L_1L_3R_1R_2\right) + s^3\left(C_1C_3L_1R_1R_3R_L + C_3L_1L_3R_1R_2g_m + C_3L_1L_3R_1R_2 + C_3L_1L_3R_1R_2 + C_3L_1R_1R_3R_Lg_m + C_3L_1R_3R_Lg_m + C$

10.824 INVALID-ORDER-824
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_3L_1L_3R_1R_3g_ms^3 + L_1R_1R_3g_ms}{C_1C_3C_LL_1L_3R_1R_3s^5 + R_1 + s^4\left(C_1C_3L_1L_3R_1 + C_3C_LL_1L_3R_1R_3g_m + C_3C_LL_1R_1R_3 + C_3C_LL_1R_1R_3 + C_3C_LL_1R_1R_3 + C_3C_LL_1R_1R_3 + C_3C_LL_1R_1R_3 + C_3C_LL_1R_1R_3g_m + C_3L_1R_3 + C_3C_LL_1R_1R_3g_m + C_3L_1R_3R_1R_3 + C_3C_LL_1R_1R_3g_m + C_3L_1R_3R_3g_m + C_3L_$

10.825 INVALID-ORDER-825
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

 $C_3L_1L_3R_1R_3R_Lg_ms^3 + L_1R_1R_3R_Lg_ms$

 $\frac{ \cup_{3} L_{1} L_{3} n_{1} n_{3} n_{L} y_{m} s^{-} + L_{1} n_{1} n$

10.826 INVALID-ORDER-826
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_3 C_L L_1 L_3 R_1 R_3 R_L g_m s^2 + C_3 L_1 L_3 R_1 R_3 R_L g_m s^2 + C_3 L_1 L_3 R_1 R_3 R_L g_m s^2 + C_3 L_1 L_3 R_1 R_3 g_m s^2}{R_1 + s^5 \left(C_1 C_3 C_L L_1 L_3 R_1 R_3 + C_1 C_L L_1 R_1 R_3 R_L + C_3 C_L L_1 L_3 R_1 R_3 g_m + C_3 C_L L_1 L_3 R_1 R_3 + C_3 C_L L_1 L_3 R_1 R_3 + C_1 C_L L_1 R_1 R_3 R_L + C_1 C_L L_1 R_1 R_1 R_1 R_1 + C_1 C_L L_1 R_1 R_1 R_1 + C_$

10.827 INVALID-ORDER-827
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_3C_LL_1L_3L_LR_1R_3g_ms^5 + L_1R_1R_3g_ms^5 + L_1R_1R_3g_ms + s^3\left(C_1C_3C_LL_1L_3L_LR_1s^6 + R_1 + s^5\left(C_1C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_3g_m + C_3C_LL_1L_$

10.828 INVALID-ORDER-828
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

10.829 INVALID-ORDER-829
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{1}{C_1C_3C_LL_1L_3L_LR_1s^6 + R_1 + s^5\left(C_1C_3C_LL_1L_3R_1R_3 + C_1C_3C_LL_1L_3R_1R_2 + C_1C_3C_LL_1L_3L_LR_1g_m + C_3C_LL_1L_3L_LR_1g_m + C_3C_LL_1L_3R_1R_3R_L + C_1C_3L_1L_3R_1 + C_1C_LL_1L_3R_1R_3R_1 + C_1C_LL_1L_3R_1R_3R_1 + C_1C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_3 + C_3C_LL_1L_3R_1R_$

10.830 INVALID-ORDER-830
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

 $H(s) = \frac{1}{C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 R_L s^6 + R_1 R_3 R_L + s^5 \left(C_1 C_3 L_1 L_3 L_L R_1 R_3 + C_1 C_3 L_1 L_3 L_L R_1 R_3 R_L + C_3 C_L L_1 L_3 L_L R_1 R_3 R_L + C_1 C_3 L_1 L_3 L_L R_1 R_3 R_L + C_1 C_3 L_1 L_3 L_L R_1 R_3 R_L + C_3 C_L L_3 L_L R_1 R_3 R_L + C_3$

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10.831 INVALID-ORDER-831 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $H(s) = \frac{1}{R_1R_3 + R_1R_L + s^6 \left(C_1C_3C_LL_1L_3L_LR_1R_3 + C_1C_3C_LL_1L_3L_LR_1R_2 \right) + s^5 \left(C_1C_3C_LL_1L_3L_LR_1R_3R_L + C_1C_3L_1L_3L_LR_1R_3g_m + C_3C_LL_1L_3L_LR_1R_2g_m + C_3C_LL_1L_3L_LR_3 + C_3C_LL_1L_3L_LR_1 + s^4 \left(C_1C_3L_1L_3L_LR_1R_3 + C_1C_3L_1L_3L_LR_1 + C_3C_LL_1L_3L_LR_1 + C_3C_LL_1L_3L_1 + C_3C_LL_1L_3L_1 + C_3C_LL_1L_3L_1 + C_3C_LL_1L_1L_1 + C_3C_LL_1L$

10.832 INVALID-ORDER-832
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

10.833 INVALID-ORDER-833
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3, \infty, \infty, \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1L_1R_1R_3g_ms^2 + L_1R_3g_ms + R_1R_3g_m}{R_1g_m + s^3\left(C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_3\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_LL_1R_3g_m\right) + s\left(C_LR_1R_3g_m + C_LR_3 + L_1g_m\right) + 1}$$

10.834 INVALID-ORDER-834
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$$

$$H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + L_1R_3R_Lg_ms + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_LL_1R_1R_3R_Lg_m + C_1C_LL_1R_3R_L\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_1R_Lg_m + C_1L_1R_3 + C_1L_1R_L + C_LL_1R_3R_Lg_m\right) + s\left(C_LR_1R_3R_Lg_m + C_LR_3R_L + L_1R_3g_m + L_1R_Lg_m\right)}$$

10.835 INVALID-ORDER-835
$$Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_1R_1R_3R_Lg_ms^3 + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_LL_1R_3R_Lg_m\right) + s\left(C_LR_1R_3R_Lg_m + L_1R_3g_m\right)}{R_1g_m + s^3\left(C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_3 + C_1C_LL_1R_L\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_LL_1R_3g_m + C_LL_1R_Lg_m\right) + s\left(C_LR_1R_3g_m + L_1R_3g_m + C_LR_1R_Lg_m + C_LR_1R_Lg_m\right) + s\left(C_LR_1R_3g_m + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_1R_2g_m\right) + s\left(C_LR_1R_3R_Lg_m + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_1R_2g_m\right) + s\left(C_LR_1R_3R_Lg_m + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_1R_2g_m\right) + s\left(C_LR_1R_3R_2g_m + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_1R_2g_m\right) + s\left(C_LR_1R_3g_m + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_1R_2g_m\right) + s\left(C_LR_1R_3g_m + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_1R_2g_m\right) + s\left(C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_2g_m\right) + s\left(C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_2g_m\right) + s\left(C_LR_1R_2g_m + C_LR_2g_m\right) + s\left(C_LR_1R_2g_m + C_LR_2g_m\right) + s\left(C_L$$

10.836 INVALID-ORDER-836
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_3g_ms^4 + C_LL_1L_LR_3g_ms^3 + L_1R_3g_ms + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_LL_LR_1R_3g_m\right)}{R_1g_m + s^4\left(C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_3 + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_LL_1R_3g_m + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_LR_1R_3g_m + C_LR_3 + L_1g_m\right) + 1}$$

10.837 INVALID-ORDER-837
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$$

$$H(s) = \frac{C_1L_1L_LR_1R_3g_ms^3 + L_1L_LR_3g_ms^2 + L_LR_1R_3g_ms}{R_1R_3g_m + R_3 + s^4\left(C_1C_LL_1L_LR_1R_3g_m + C_1C_LL_1L_LR_3\right) + s^3\left(C_1L_1L_LR_1g_m + C_1L_1L_LR_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3 + C_LL_LR_1R_3g_m + C_LL_LR_3 + L_LL_g_m\right) + s\left(L_1R_3g_m + L_LR_1g_m + L_LR_1g_m + L_LR_1g_m\right) + s\left(L_1R_3g_m + L_LR_1g_m + L_LR_1g_m + L_LR_1g_m + L_LR_1g_m\right) + s\left(L_1R_3g_m + L_LR_1g_m + L_LR_1g_m + L_LR_1g_m + L_LR_1g_m + L_LR_1g_m + L_LR_1g_m\right) + s\left(L_1R_3g_m + L_LR_1g_m + L_LR_1g_$$

10.838 INVALID-ORDER-838
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_1C_LL_1R_1R_3R_Lg_m + C_LL_1L_LR_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_LL_1R_3g_m + C_LL_1R_3g_m\right) + s\left(C_LR_1R_3R_Lg_m + L_1R_3g_m + L_1R_3g_m\right) + s\left(C_LR_1R_3R_Lg_m + L_1R_3g_m + L_1R_3g_m\right) + s\left(C_LR_1R_3R_Lg_m + C_LL_1R_1R_3g_m + C_LL_1R_1R_3g_m + C_LL_1R_1R_3g_m\right) + s\left(C_LR_1R_3R_Lg_m + C_LL_1R_1R_3g_m + C_LL_1R_1R_3g_m + C_LL_1R_1R_3g_m + C_LL_1R_1R_3g_m + C_LL_1R_1R_3g_m + C_LL_1R_1g_m + C_LL_1R_1R_3g_m + C_LR_1R_3g_m + C_$$

10.839 INVALID-ORDER-839
$$Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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10.840 INVALID-ORDER-840 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_3R_Lg_m + s^3\left(C_1L_1L_LR_1R_3g_m + C_LL_1L_LR_3R_Lg_m + s^2\left(C_1L_1R_1R_3R_Lg_m + C_LL_LR_1R_3R_Lg_m + L_1L_LR_3g_m\right) + s\left(L_1R_3R_Lg_m + L_1L_LR_3g_m + L_1L
10.841 INVALID-ORDER-841 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, R_3, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_1C_LL_1L_LR_3R_Lg_ms^4 + C_LL_1L_LR_3R_Lg_ms^3 + L_1R_3R_Lg_ms + R_1R_3R_Lg_m + s^2\left(C_1L_1R_1R_3R_Lg_m + C_LL_LR_1R_3R_Lg_m\right)}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^4\left(C_1C_LL_1L_LR_1R_3g_m + C_1C_LL_1L_LR_3 + C_1C_LL_1L_1L_1R_3 + C_1C_LL_1L_1R_3 + C_1C_LL_1L_1R
10.842 INVALID-ORDER-842 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                      H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + L_1R_Lg_ms + R_1R_Lg_m}{R_1g_m + s^3\left(C_1C_3L_1R_1R_Lg_m + C_1C_3L_1R_L\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_1R_Lg_m\right) + s\left(C_3R_1R_Lg_m + C_3R_L + L_1g_m\right) + 1}
10.843 INVALID-ORDER-843 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                          H(s) = \frac{C_1L_1R_1g_ms^2 + L_1g_ms + R_1g_m}{s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(C_3L_1g_m + C_LL_1g_m\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}
10.844 INVALID-ORDER-844 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
                                                                                                                        H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + L_1R_Lg_ms + R_1R_Lg_m}{R_1g_m + s^3\left(C_1C_3L_1R_1R_Lg_m + C_1C_3L_1R_L + C_1C_LL_1R_1R_Lg_m + C_1L_1R_1g_m + C_1L_1 + C_3L_1R_Lg_m + C_LL_1R_Lg_m\right) + s\left(C_3R_1R_Lg_m + C_3R_L + C_LR_1R_Lg_m + C_LR_L + L_1g_m\right) + 1}
10.845 INVALID-ORDER-845 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{1}{C_3s}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                                                                    H(s) = \frac{C_{1}C_{L}L_{1}R_{1}R_{L}g_{m}s^{3} + R_{1}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}g_{m} + C_{L}L_{1}R_{L}g_{m}\right) + s\left(C_{L}R_{1}R_{L}g_{m} + L_{1}g_{m}\right)}{s^{4}\left(C_{1}C_{3}C_{L}L_{1}R_{L}g_{m} + C_{1}C_{3}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1}R_{L}g_{m}\right) + s^{2}\left(C_{3}C_{L}R_{1}R_{L}g_{m} + C_{3}C_{L}R_{L} + C_{3}L_{1}g_{m} + C_{L}L_{1}g_{m}\right) + s\left(C_{3}R_{1}g_{m} + C_{4}L_{1}g_{m}\right) + s\left(C_{3}R_{1}g_{m} + C_{4}L_{1}g_{m}\right) + s\left(C_{4}R_{1}R_{L}g_{m} + C_{4}R_{1}g_{m}\right) + s\left(C_{4}R_{1}R_{1}g_{m} + 
10.846 INVALID-ORDER-846 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{1}{C_3s}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                                                                    H(s) = \frac{C_1C_LL_1L_LR_1g_ms^4 + C_LL_1L_Lg_ms^3 + L_1g_ms + R_1g_m + s^2\left(C_1L_1R_1g_m + C_LL_LR_1g_m\right)}{C_3C_LL_1L_Lg_ms^4 + s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_3L_LL_L\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + C_3C_LL_LR_1g_m + C_3C_LL_L\right) + s^2\left(C_3L_1g_m + C_LL_1g_m\right) + s\left(C_3R_1g_m + C_3C_LR_1g_m + C_3C_LL_1\right) + s^2\left(C_3L_1g_m + C_1C_3C_LR_1g_m + C_3C_LR_1g_m + C_3C_LR_1g_m\right) + s\left(C_3R_1g_m + C_3C_LR_1g_m + C_3R_1g_m\right) + s\left(C
10.847 INVALID-ORDER-847 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{1}{C_3s}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
                                                                                                                         H(s) = \frac{C_1L_1L_LR_1g_ms^3 + L_1L_Lg_ms^2 + L_LR_1g_ms}{L_1g_ms + R_1g_m + s^4\left(C_1C_3L_1L_LR_1g_m + C_1C_3L_1L_L + C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(C_3L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_LR_1g_m + C_3L_L + C_LL_LR_1g_m + C_LL_L\right) + 1}
10.848 INVALID-ORDER-848 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \frac{1}{C_3 s}, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
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 $H(s) = \frac{C_1C_LL_1L_LR_1g_ms^4 + R_1g_m + s^3\left(C_1C_LL_1R_1R_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_LL_1R_Lg_m + C_LL_LR_1g_m\right) + s\left(C_LR_1R_Lg_m + L_1g_m\right)}{s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_3C_LL_1R_1R_Lg_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_3C_LL_1R_1g_m + C_3C_LL_$

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10.849 INVALID-ORDER-849 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{1}{C_3s}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
H(s) = \frac{C_1L_1L_R_1R_Lg_ms^3 + L_1L_LR_Lg_ms^2 + L_LR_1R_Lg_ms}{R_1R_Lg_m + R_L + s^4\left(C_1C_3L_1L_LR_1R_Lg_m + C_1C_3L_1L_LR_1R_Lg_m + C_1C_LL_1L_LR_1\right) + s^3\left(C_1L_1L_LR_1g_m + C_1L_1L_LR_Lg_m + C_LL_1L_LR_Lg_m + C_1L_1L_LR_Lg_m + C_1L_1R_Lg_m + C_1L_1R_Lg_
10.850 INVALID-ORDER-850 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{1}{C_3s}, \infty, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
10.851 INVALID-ORDER-851 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{1}{C_3s}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_{1}C_{L}L_{1}L_{L}R_{1}R_{L}g_{m}s^{4} + C_{L}L_{1}L_{L}R_{L}g_{m}s^{3} + L_{1}R_{L}g_{m}s + R_{1}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}R_{L}g_{m} + C_{L}L_{L}R_{1}R_{L}g_{m}\right)
10.852 INVALID-ORDER-852 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L\right)
                                                                                   H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + L_1R_3R_Lg_ms + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_3L_1R_3R_Lg_m + C_1C_3L_1R_3R_L\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_1R_Lg_m + C_1L_1R_1 + C_3L_1R_3R_Lg_m\right) + s\left(C_3R_1R_3R_Lg_m + C_3R_3R_L + L_1R_3g_m + L_1R_Lg_m\right)}
10.853 INVALID-ORDER-853 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3}{C_3R_3s + 1}, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                             H(s) = \frac{C_1L_1R_1R_3g_ms^2 + L_1R_3g_ms + R_1R_3g_m}{R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_2L_1R_3\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_1R_3g_m + C_LL_1R_3g_m\right) + s\left(C_3R_1R_3g_m + C_3R_3 + C_LR_1R_3g_m + C_LR_3 + L_1g_m\right) + 1}
10.854 INVALID-ORDER-854 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3}{C_3R_3s + 1}, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + L_1R_3R_Lg_ms + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_3L_1R_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m + C_1L_1R_1R_2g_m + C_1L_1R_3R_Lg_m + C_1L_
10.855 INVALID-ORDER-855 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3}{C_3R_3s + 1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_{1}C_{L}L_{1}R_{1}R_{3}R_{L}g_{m}s^{3} + R_{1}R_{3}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}R_{3}g_{m} + C_{L}L_{1}R_{3}R_{L}g_{m}\right) + s\left(C_{L}R_{1}R_{3}R_{L}g_{m} + L_{1}R_{3}g_{m}\right)
H(s) = \frac{C_1C_LL_1R_1R_3R_Lg_ms^3 + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_LL_1R_3R_Lg_m\right) + s\left(C_LR_1R_3R_Lg_m + L_1R_3g_m\right)}{R_1g_m + s^4\left(C_1C_3C_LL_1R_1R_3R_Lg_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_3R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1+C_3C_LR_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_3R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1C_LL_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1C_LL_1R_1g_m\right) + s^2\left(C_1L_1R_1g_m + C_1C_LL_1R_1
10.856 INVALID-ORDER-856 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3}{C_3R_3s + 1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_LR_3g_ms^4 + C_LL_1L_LR_3g_ms^3 + L_1R_3g_ms + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_LL_LR_1R_3g_m\right)}{R_1g_m + s^5\left(C_1C_3C_LL_1L_LR_3g_m + C_1C_LL_1L_LR_3g_m + C_1C_LL_1L_LR_3g_m + C_1C_LL_1R_3g_m + C_1C_LL
10.857 INVALID-ORDER-857 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3}{C_3R_3s + 1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
H(s) = \frac{C_1L_1L_LR_3g_ms^3 + L_1L_LR_3g_ms^2 + L_LR_1R_3g_ms}{R_1R_3g_m + R_3 + s^4\left(C_1C_3L_1L_LR_1R_3g_m + C_1C_2L_1L_LR_3 + C_1C_LL_1L_LR_3\right) + s^3\left(C_1L_1L_LR_1g_m + C_1L_1L_LR_3g_m + C_LL_1L_LR_3g_m + C_1L_1L_RR_3g_m + C_1L_1R_3g_m + C_1L
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 10.858 \quad \text{INVALID-ORDER-858} \ Z(s) = \left( \frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \ \infty, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s} \right) 
 \frac{C_1 C_L L_1 L_1 R_1 R_3 g_m s^4 + R_1
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10.861 INVALID-ORDER-861 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3}{C_3R_3s + 1}, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$

 $\begin{aligned} \textbf{10.862} \quad \textbf{INVALID-ORDER-862} \ \ Z(s) &= \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \ \ \infty, \ \ R_3 + \frac{1}{C_3 s}, \ \ \infty, \ \ \infty, \ \ R_L \right) \\ & \quad H(s) &= \frac{C_1 C_3 L_1 R_1 R_3 R_L g_m s^3 + R_1 R_L g_m + s^2 \left(C_1 L_1 R_1 R_L g_m + C_3 L_1 R_3 R_L g_m \right) + s \left(C_3 R_1 R_3 R_L g_m + L_1 R_L g_m \right)}{R_1 g_m + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m + C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_3 \right) + s^2 \left(C_1 L_1 R_1 g_m + C_1 L_1 + C_3 L_1 R_3 g_m + C_3 L_1 R_2 g_m \right) + s \left(C_3 R_1 R_3 g_m + C_3 R_1 R_L g_m + C_3 R_3 R_L + L_1 g_m \right) + 1} \end{aligned}$

 $\begin{aligned} \textbf{10.863} \quad \textbf{INVALID-ORDER-863} \ Z(s) &= \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ R_3 + \frac{1}{C_3s}, \ \infty, \ \infty, \ \frac{1}{C_Ls}\right) \\ & H(s) &= \frac{C_1C_3L_1R_1R_3g_ms^3 + R_1g_m + s^2\left(C_1L_1R_1g_m + C_3L_1R_3g_m\right) + s\left(C_3R_1R_3g_m + L_1g_m\right)}{s^4\left(C_1C_3C_LL_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1R_3g_m\right) + s^2\left(C_3C_LR_1R_3g_m + C_3L_1g_m + C_LL_1g_m\right) + s\left(C_3R_1g_m + C_3L_1g_m + C_4L_1g_m\right) + s\left(C_3R_1g_m + C_4R_1g_m\right) + s\left(C_3R_1g_m\right) + s\left(C_3$

10.864 INVALID-ORDER-864 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$

 $H(s) = \frac{C_1C_3L_1R_1R_3R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_3L_1R_3R_Lg_m + C_3L_1R_3R_Lg_m + L_1R_Lg_m\right)}{R_1g_m + s^4\left(C_1C_3C_LL_1R_1R_3R_Lg_m + C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_2g_m + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_1R_2g_m + C_1C_LL_1R_3R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3C_LR_1R_3R_Lg_m + C_1C_3L_1R_3R_Lg_m + C_3C_LR_3R_Lg_m\right)}$

10.865 INVALID-ORDER-865 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_1C_3C_LL_1R_1R_3R_Lg_ms^4 + R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_LL_1R_1R_Lg_m + C_3C_LL_1R_3R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_3C_LR_1R_3g_m + C_LL_1R_2g_m\right) + s\left(C_3R_1R_3g_m + C_LL_1R_Lg_m\right) + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m + C_1C_3C_LL_1R_1g_m\right) + s^2\left(C_3C_LL_1R_1R_3g_m + C_3C_LL_1R_1g_m\right) + s^2\left(C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_2g_m\right) + s^2\left(C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_2g_m\right) + s^2\left(C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_2g_m\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_1R_2g_m\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_1R_3g_m\right) + s^2\left(C_3C_LR_1R_3g_m\right) + s^$

10.866 INVALID-ORDER-866 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_LR_1g_m + s^4\left(C_1C_LL_1L_LR_1g_m + C_3C_LL_1L_LR_3g_m\right) + s^3\left(C_1C_3L_1L_LR_3g_m + C_LL_LL_1g_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_1R_3g_m + C_LL_LR_1g_m\right) + s\left(C_3R_1R_3g_m + L_1g_m\right)}{s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_3L_LL_1R_3g_m + C_1C_3L_LL_1R_3g_m + C_1C_3L_LL_1R_3g_m + C_1C_3L_LL_1R_3g_m + C_1C_3L_LL_1R_3g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m + C_3C_LL_1R_3g_m + C_3C_LL_1R_3g$

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10.867 INVALID-ORDER-867 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_1C_3L_1L_LR_1R_3g_ms^4 + L_LR_1g_ms + s^3\left(C_1L_1L_LR_1g_m + C_3L_1L_LR_3g_m\right) + s^2\left(C_3L_LR_1R_3g_m + L_1L_Lg_m\right)
H(s) = \frac{C_1C_3L_1L_LR_1R_3g_ms^2 + L_LR_1g_ms + s^2\left(C_1L_1L_LR_1g_m + C_3L_1L_LR_3g_m\right) + s^2\left(C_3L_LR_1R_3g_m + L_1L_Lg_m\right)}{R_1g_m + s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_3L_1L_LR_1g_m + C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_LR_3g_m\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_3g_m + C_3C_LL_1R_1R_3g_m + C_3C_LL_1R_3g_m + C_3C_
10.868 INVALID-ORDER-868 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1 C_3 C_L L_1 L_L R_1 g_3 g_m s^5 + R_1 g_m + s^4 \left(C_1 C_3 C_L L_1 R_1 R_3 g_m + C_1 C_L L_1 L_L R_3 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m + C_1 C_L L_1 R_1 R_2 g_m + C_3 C_L L_1 R_3 R_L g_m + C_3 C_L L_1 R_3 g_m + C_1 L_1 L_L g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_1 C_2 L_1 L_L R_3 g_m\right) + s^3 \left(C_1 C_3 L_1 L_L R_1 g_m + C_1 C_L L_1 R_1 R_2 g_m + C_1 C_2 L_1 L_L R_3 g_m\right) + s^3 \left(C_1 C_3 L_1 L_1 R_1 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_3 g_m + C_1 C_2 L_1 R_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 L_1 R_1 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\right) + s^3 \left(C_1 C_3 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_2 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 g_m\right) + s^3 \left(C_1 C_3 L_1 R_2 R_2 g
10.869 INVALID-ORDER-869 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_1C_3L_1L_LR_1R_3R_Lg_ms^4 +
10.870 INVALID-ORDER-870 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
H(s) = \frac{C_1C_3C_LL_1L_LR_1R_3R_Lg_ms^5 + R_1R_Lg_m + s^4\left(C_1C_3L_1L_LR_1R_3g_m + C_1C_LL_1L_LR_1R_Lg_m + C_3C_LL_1L_LR_3R_Lg_m\right) + s^3\left(C_1C_3L_1R_1R_3R_Lg_m + C_1L_1L_LR_1g_m + C_1L_1L_1R_1g_m + C_1L_1L_1R
10.871 INVALID-ORDER-871 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1C_3C_LL_1L_LR_1R_3R_Lg_ms^5 + R_1R_Lg_m + s^4(C_1C_LL_1L_LR_1)
                                    \frac{C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+R_{1}R_{L}g_{m}+s}{R_{1}g_{m}+s}(C_{1}C_{L}L_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}g_{m}+s}(C_{1}C_{2}L_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{L}R_{2}g_{m}+c_{1}C_{3}C_{L
10.872 INVALID-ORDER-872 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L\right)
                                                                                                                              H(s) = \frac{C_1C_3L_1L_3R_1R_Lg_ms^4 + C_3L_1L_3R_Lg_ms^3 + L_1R_Lg_ms + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_3L_3R_1R_Lg_m\right)}{R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_1R_1R_Lg_m + C_1C_3L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_1R_Lg_m + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_Lg_m + C_3R_L + L_1g_m\right) + 1}
10.873 INVALID-ORDER-873 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                            H(s) = \frac{C_1C_3L_1L_3R_1g_ms^4 + C_3L_1L_3g_ms^3 + L_1g_ms + R_1g_m + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m\right)}{C_3C_LL_1L_3g_ms^4 + s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3L_LL_1L_3\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + C_3C_LL_3R_1g_m + C_3C_LL_3\right) + s^2\left(C_3L_1g_m + C_LL_1g_m\right) + s\left(C_3R_1g_m + C_3C_LR_1g_m + C_1C_2L_1R_1g_m + C_1C_2L_1R_1g_m + C_3C_LR_1g_m\right) + s\left(C_3R_1g_m + C_3C_LR_1g_m + C_3C_LR_1g_m + C_3C_LR_1g_m\right) + s\left(C_3R_1g_m + C_3C_LR_1g_m + C_3C_LR_1g_m + C_3C_LR_1g_m\right) + s\left(C_3R_1g_m + C_3C_LR_1g_m + C_3C_LR_1g_m + C_3C_LR_1g_m\right) + s\left(C_3R_1g_m + C_3C_LR_1g_m\right) + s\left(C_
10.874 INVALID-ORDER-874 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
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 $H(s) = \frac{C_{1}C_{3}L_{1}L_{3}R_{1}R_{L}g_{m}s^{4} + C_{3}L_{1}L_{3}R_{L}g_{m}s^{3} + L_{1}R_{L}g_{m}s + R_{1}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}R_{L}g_{m} + C_{3}L_{3}R_{1}R_{L}g_{m}\right)}{R_{1}g_{m} + s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m} + C_{1}C_{3}L_{1}L_{3}R_{L}g_{m} + C_{1}C_{3}L_{1}L_{$

10.875 INVALID-ORDER-875 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_3R_1R_Lg_ms^5 + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_3C_LL_1L_3R_Lg_m\right) + s^3\left(C_1C_LL_1R_1R_Lg_m + C_3L_LL_3R_1g_m + C_3L_LL_3R_1g_m + C_4L_1R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_1R_1g_m + C_4L_1R_Lg_m\right) + s\left(C_1L_1R_1g_m + C_4L_1R_Lg_m + C_4L_1R_Lg_m\right) + s\left(C_1R_1R_1g_m + C_4L_1R_1g_m + C_4L_1R_Lg_m\right) + s\left(C_1R_1R_1g_m + C_4L_1R_1g_m + C_4L_1R_1g_m\right) + s\left(C_1R_1R_1g_m + C_4$

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10.876 INVALID-ORDER-876 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_ms^6 + C_3C_LL_1L_3L_Lg_ms^5 + L_1g_ms + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_LL_1L_LR_1g_m\right) + s^3\left(C_3L_1L_3g_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m + C_LL_LR_1g_m\right)}{s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3C_LL_1L_1R_1g_m + C_1C_3L_1L_1R_1g_m + C_1C_3L_1L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_3C_LL_1R_1g_m + C_
10.877 INVALID-ORDER-877 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}g_{m}s^{5}+C_{3}L_{1}L_{3}L_{L}g_{m}s^{4}+L_{1}L_{L}g_{m}s^{2}+L_{L}R_{1}g_{m}s+s^{3}\left(C_{1}L_{1}L_{L}R_{1}g_{m}+C_{3}L_{3}L_{L}R_{1}g_{m}\right)
                                             \frac{C_1C_3L_1L_3L_L\eta_m s + L_1L_1g_m s + L_1L_1g_m s + L_L\eta_1g_m s + L_L
10.878 INVALID-ORDER-878 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_ms^6 + R_1g_m + s^5\left(C_1C_3C_LL_1L_3R_1R_Lg_m + C_3C_LL_1L_3R_1g_m + C_1C_LL_1L_1R_1g_m + C_3C_LL_1L_3R_1g_m + C_3C_LL_1L_3R_1g_m + C_3C_LL_1L_3R_1g_m + C_3C_LL_1L_3R_1g_m + C_3C_LL_1L_3R_1g_m + C_3C_LL_1R_1R_1g_m + C_3C_LL_1R_
10.879 INVALID-ORDER-879 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_3L_1L_3L_LR_1R_Lg_ms^5 +
10.880 INVALID-ORDER-880 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \frac{C_LL_RL_s^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{L}g_{m}s^{6} + R_{1}R_{L}g_{m} + s^{5}\left(C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}g_{m} + C_{3}C_{L}L_{1}L_{3}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{1}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{1}R_{L}g_{m} + C_{3}C_{L}L_{3}L_{L}R_{1}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{1}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{1}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{3}L_{1}L_{1}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{3}L_{1}L_{1}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{3}L_{1}L_{1}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{3}L_{1}L_{1}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{3}L_{1}L_{1}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{3}L_{1}
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_m + s^\circ \left(C_1C_3L_LL_3L_LR_1g_m + C_3C_LL_1L_3L_LR_1g_m + C_4C_LL_1L_3L_LR_1g_m + C_4C_LL_1L_LR_1R_Lg_m + C_4C_LL_1L_2R_1R_Lg_m + C_4C_LL_1L_2R_1R_Lg_m + C_4C_3L_4L_4R_4R_4g_m + C_4C_3L_4L_4R_4g_m + C_4C_3L_4R_4g_m + C_4C_4R_4g_m + C
10.881 INVALID-ORDER-881 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_m s + C_3C_LL_1L_3L_LR_1g_m s + C_3C_LL_1L_3R_1g_m s + C_
10.882 INVALID-ORDER-882 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, R_L\right)
                                                                                                                   H(s) = \frac{C_1L_1L_3R_1R_Lg_ms^3 + L_1L_3R_Lg_ms^2 + L_3R_1R_Lg_ms}{R_1R_Lg_m + R_L + s^4\left(C_1C_3L_1L_3R_1R_Lg_m + C_1C_3L_1L_3R_L\right) + s^3\left(C_1L_1L_3R_1g_m + C_1L_1L_3 + C_3L_1L_3R_Lg_m\right) + s^2\left(C_1L_1R_1R_Lg_m + C_1L_1R_L + C_3L_3R_1R_Lg_m + C_3L_3R_L + L_1L_3g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + L_3R_1g_m + C_3L_3R_L + L_1L_3g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_L + L_1L_3g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_L + L_3R_1g_m + C_3L_3R_L + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + C_3L_3R_1 + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + L_3R_1g_m + L_3R_1g_m\right) + s\left(L_1R_Lg_m + L_3R_1g_m + L_3R_1g_m\right) + s\left(L_1R_1g_m + L_3R_1g_m + L_3R_1g_m\right) + s\left(L_1R_1g_m + L_3R_1g_m + L_3R
10.883 INVALID-ORDER-883 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_{Ls}}\right)
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 $H(s) = \frac{C_1L_1L_3R_1g_ms^3 + L_1L_3g_ms^2 + L_3R_1g_ms}{L_1g_ms + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_LL_1L_3R_1g_m + C_1C_LL_1L_3\right) + s^3\left(C_3L_1L_3g_m + C_LL_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_3R_1g_m + C_3L_3 + C_LL_3R_1g_m + C_LL_3\right) + 1}$ $\mathbf{10.884} \quad \mathbf{INVALID\text{-}ORDER\text{--}884} \ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \frac{L_3s}{C_3L_3s^2 + 1}, \ \infty, \ \infty, \ \frac{R_L}{C_LR_Ls + 1}\right)$

 $H(s) = \frac{C_1L_1L_3R_1R_Lg_ms^3 + L_1L_3R_Lg_ms^2 + L_3R_1R_Lg_ms}{R_1R_Lg_m + R_L + s^4\left(C_1C_3L_1L_3R_1R_Lg_m + C_1C_4L_1L_3R_1R_Lg_m + C_1L_1L_3R_1R_Lg_m + C_1L_1L_3R_Lg_m + C_1L_1L_3R_Lg_m + C_1L_1L_3R_Lg_m + C_1L_1L_3R_Lg_m + C_1L_1L_3R_Lg_m + C_1L_1R_Lg_m + C_1L_1R_Lg_$

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10.885 INVALID-ORDER-885 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_1C_LL_1L_3R_1R_Lg_ms^4 + L_3R_1g_ms + s^3\left(C_1L_1L_3R_1g_m + C_LL_1L_3R_Lg_m\right) + s^2\left(C_LL_3R_1R_Lg_m + L_1L_3g_m\right)
H(s) = \frac{C_1C_LL_1L_3R_1R_Lg_ms^4 + L_3R_1g_ms + s^3\left(C_1L_1L_3R_1g_m + C_LL_1L_3R_Lg_m\right) + s^2\left(C_LL_3R_1R_Lg_m + L_1L_3g_m\right)}{R_1g_m + s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3L_1L_3R_1g_m + C_1C_LL_1L_3R_1g_m + C_1C_LL_1L_3R_1g_m + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1
10.886 INVALID-ORDER-886 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m}s^{5} + C_{L}L_{1}L_{3}L_{L}g_{m}s^{4} + L_{1}L_{3}g_{m}s^{2} + L_{3}R_{1}g_{m}s + s^{3}\left(C_{1}L_{1}L_{3}R_{1}g_{m} + C_{L}L_{3}L_{L}R_{1}g_{m}\right)
H(s) = \frac{C_1C_LL_1L_3L_Lg_ms^5 + C_LL_1L_3L_Lg_ms^5 + L_1L_3g_ms^5 + L_1L_3g_ms
10.887 INVALID-ORDER-887 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
H(s) = \frac{C_1L_1L_3L_LR_1g_ms^3 + L_1L_3L_Lg_ms^2 + L_3L_LR_1g_ms}{L_3R_1g_m + L_3 + L_LR_1g_m + L_L + s^4\left(C_1C_3L_1L_3L_LR_1g_m + C_1C_2L_1L_3L_LR_1g_m + C_1C_LL_1L_3L_L\right) + s^3\left(C_3L_1L_3L_Lg_m + C_LL_1L_3L_Lg_m + C_1L_1L_3R_1g_m + C_1L_1L_3R
10.888 INVALID-ORDER-888 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     H(s) = \frac{C_1C_LL_1L_3L_LR_1g_ms + L_3R_1g_ms + s \cdot (C_1C_LL_1L_3R_1R_Lg_m + C_1L_1L_3R_1R_Lg_m + C_1L_1L_3R_1R_L
10.889 INVALID-ORDER-889 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1L_1L_3L_LR_1R_Lg_ms^3 + L_1L_3L_LR_Lg_ms^2 + L_3L_LR_1R_Lg_ms^3
H(s) = \frac{C_1L_1L_3L_LR_1R_Lg_ms^- + L_1L_3L_LR_1g_ms^- + L_1L_3L_LR_1g_ms^- + L_3L_LR_1g_ms^- + L_3L_1R_1g_ms^- + L_3L
10.890 INVALID-ORDER-890 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_1C_LL_1L_3L_LR_1R_Lg_ms^5
10.891 INVALID-ORDER-891 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
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10.891 INVALID-ORDER-891
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$$

 $C_1C_LL_1L_3L_LR_1R_Lg_ms^5 +$

10.892 INVALID-ORDER-892
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, R_L\right)$$

 $H(s) = \frac{C_1C_3L_1L_3R_1R_Lg_ms^4 + R_1R_Lg_m + s^3\left(C_1C_3L_1R_1R_3R_Lg_m + C_3L_1R_3R_Lg_m + C_3L_1R_3R_Lg_m + C_3L_1R_3R_Lg_m + C_3L_3R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_3L_1R_3R_Lg_m + C_3L_3R_1R_Lg_m + C_3L_3R_1R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_2g_m + C_4L_1R_2g_m + C_4L_1R_3R_2g_m + C_4L_1R_3R_2g_m + C_4L_1R_3g_m + C_4L_1R_3g_m$

10.893 INVALID-ORDER-893
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_3L_1L_3R_1g_ms^4 + R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_3L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_1R_3g_m + C_3L_3R_1g_m\right) + s\left(C_3R_1R_3g_m + L_1g_m\right)}{s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3L_1L_1R_3g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_3C_LL_1R_3g_m + C_3C_LL_3R_1g_m + C_3C_LL_3R_$

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10.894 INVALID-ORDER-894 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
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 $H(s) = \frac{C_1C_3L_1L_3R_1R_Lg_ms^2 + R_1R_Lg_m + s^3\left(C_1C_3L_1R_1R_3R_Lg_m + C_3L_1L_3R_1\right)}{R_1g_m + s^5\left(C_1C_3C_LL_1L_3R_1R_Lg_m + C_1C_3L_1L_3R_Lg_m + C_1C_3L_1L_3R_Lg_m + C_1C_3L_1L_3R_Lg_m + C_1C_3L_1R_1R_2g_m + C_1C_3L_1R_2g_m + C_1C_3L_1R_2g_$

10.895 INVALID-ORDER-895 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_3R_1R_Lg_ms^5 + R_1g_m + s^4\left(C_1C_3C_LL_1R_1R_3R_Lg_m + C_1C_3L_1L_3R_1g_m + C_3C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_2g_m + C_3C_LL_1R_3R_Lg_m + C_3C_LL_1R_3R_Lg_m + C_3C_LL_1R_3R_Lg_m + C_3C_LL_1R_1R_2g_m + C_3C_LL_1R_2g_m +$

10.896 INVALID-ORDER-896 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_ms^6 + R_1g_m + s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_3C_LL_1L_LR_1g_m + C_3C_LL_1L_LR_1g_m + C_3C_LL_1L_LR_1g_m + C_3C_LL_1L_LR_1g_m + C_3C_LL_1L_RR_1g_m + C_3C_LL_1L_RR_1g_m + C_3C_LL_1L_RR_1g_m + C_3C_LL_1R_1R_3g_m + C_3C_LL_1R_3g_m + C_$

10.897 INVALID-ORDER-897 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$

 $C_1C_3L_1L_3L_LR_1g_ms^5 + L_LR_1g_ms + s^4(C_1C_3L_1L_LR_1R_3g_m + C_3L_1L_3L_1g_m)$ $H(s) = \frac{C_1C_3L_1L_3L_LR_1g_ms + L_LR_1g_ms + s \cdot (C_1C_3L_1L_LR_1g_ms + s \cdot (C_1C_3L_1L_LR_1g_ms + s \cdot (C_1C_3L_1L_LR_1g_ms + s \cdot (C_1C_3L_1L_LR_1g_m + C_1C_3L_1L_LR_1g_m + c \cdot (C_1C_3L_1L_LR_1g_m + c \cdot (C_1C_3L_1L_1R_1g_m + c \cdot (C_1C_3L_1R_1g_m + c \cdot (C_1C$

10.898 INVALID-ORDER-898 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}\right)$

 $\frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m}s^{6}+R_{1}g_{m}+s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{2}R_{1}g_{m}+c_{1}C_{3}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{3}L_{1}L_{1$

10.899 INVALID-ORDER-899 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$

 $H(s) = \frac{1}{R_{1}R_{L}g_{m} + R_{L} + s^{6}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{3}R_{L}g_{m} + C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}C_{3}L_{1}L_{3}R_{1}R_{L}g_{m} + C_{1}C_{3}L_{1}L_{3}R_{L}R_{1}g_{m} + C_{1}C_{3}L_{1}L_{2}R_{1}R_{2}g_{m} + C_{1}C_{3}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{3}L_{2}L_{2}R_{2}g_{m} +$

10.900 INVALID-ORDER-900 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)$

 $\frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m}+s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}g_{m}+C_{1}C_{3}L_{L}L_{L}R_{1}g_{m}+C_{1}$

10.901 INVALID-ORDER-901 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty, \frac{R_L\left(C_LL_Ls^2 + 1\right)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$

 $H(s) = \frac{1}{R_{1}g_{m} + s^{6}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}R_{1}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{1}R_{2}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{3}C_{L}L_$

10.902 INVALID-ORDER-902 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, R_L\right)$

 $C_1L_1L_3R_1R_3R_Lg_ms^3 + L_1L_3R_3R_Lg_ms^2 + L_3R_1R_3R_Lg_ms^3$

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10.903 INVALID-ORDER-903 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, \frac{1}{C_Ls}\right)
H(s) = \frac{C_1L_1L_3R_1R_3g_ms^3 + L_1L_3R_3g_ms^2 + L_3R_1R_3g_ms}{R_1R_3g_m + R_3 + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_2L_1L_3R_3 + C_1C_LL_1L_3R_3\right) + s^3\left(C_1L_1L_3R_1g_m + C_1L_1L_3R_3g_m 
10.904 INVALID-ORDER-904 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_1L_1L_3R_1R_3R_Lg_ms^3 + L_1L_3R_3R_Lg_ms^2 + L_3R_1R_3R_Lg_ms
                                 \frac{C_{1}L_{1}L_{3}R_{1}R_{3}R_{L}g_{m}s^{3} + L_{1}L_{3}R_{3}R_{L}g_{m}s^{2} + L_{3}R_{3}R_{L}g_{m}s}{R_{1}R_{3}R_{L}g_{m} + R_{3}R_{L} + s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{3}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{1}R_{3}R_{L}g_{m} + C_{1}L_{1}L_{3}R_{1}R_{1}g_{m} + C_{1}L_{1}L_{1}R_{1}R_{1}g_{m} + C_{1}L_{1}L_{1}R_{1}R_{1}g_{m} + C_{1}L_{1}L_{1}R_{1}R_{1}g_{m} + C_{1}L_{1}L_{1}R_{1}R_{1}g_{m} + C_{1}L_{1}L_{1}R_
10.905 INVALID-ORDER-905 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_3R_1R_3R_Lg_m + C_1C_LL_1L_3R_1R_3R_Lg_m + C_1C_LL_1L_3R_1R_3R_Lg_m + C_1C_LL_1L_3R_1R_3R_Lg_m + C_1C_LL_1L_3R_1R_3g_m + C_1C_LL
10.906 INVALID-ORDER-906 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_3L_LR_1R_3g_ms^3 + C_1C_2L_1L_3L_LR_1R_3g_ms^3 + C_1C_2L_1L_3L_LR_1R_3g_ms^3 + C_1C_2L_1L_3L_LR_1R_3g_ms^3 + C_1C_2L_1L_3L_LR_1R_3g_ms^3 + C_1C_2L_1L_3L_LR_1R_3g_ms^3 + C_1C_2L_1L_3L_2R_1R_3g_ms^3 + C_1C_2L_1L_3R_1R_3g_ms^3 + C_1C_2L_1R
10.907 INVALID-ORDER-907 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
H(s) = \frac{C_1L_1L_3L_LR_1R_3g_ms^3 + L_1L_3L_LR_3g_ms^3 + L_1L_3L_LR_3g_ms^2 + L_3L_LR_1R_3g_ms}{L_3R_1R_3g_m + L_2R_3R_3 + L_2R_1R_3g_m + L_2R_3 + s^4\left(C_1C_3L_1L_3L_LR_3g_m + C_1C_LL_1L_3L_LR_3g_m + C_1C_LL_1L_3L_LR_3g_m + C_1L_1L_3L_LR_3g_m + C_1L_1L_3L_LR_3g_m + C_1L_1L_3L_LR_3g_m + C_1L_1L_3L_LR_3g_m + C_1L_1L_3L_LR_3g_m + C_1L_1L_3L_RR_3g_m + C_1L_3L_RR_3g_m + C_1L_
10.908 INVALID-ORDER-908 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
10.909 INVALID-ORDER-909 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
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10.910 INVALID-ORDER-910 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)$

 $H(s) = \frac{1}{R_1 R_3 R_L g_m + R_3 R_L + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 R_L g_m + C_1 C_3 L_L L_1 L_3 L_L R_3 R_L \right) + s^5 \left(C_1 C_3 L_1 L_3 L_L R_1 R_3 g_m + C_1 C_L L_1 L_3 L_L R_1 R_3 g_m + C_1 C_L L_1 L_3 L_L R_3 R_L g_m + C_1 C_L L_1 L_2 L_L R_3 R_L g_m + C_1 C_L L_1 L_2 L_L R_3 R_L g_m + C_1 C_L L_1 L_2 L_L R_3 R_L g_m + C_1 C_L L_1 L_2 L_L R_3 R_L g_m + C_1 C_L L_1 L_2 L_L R_3 R_L g_m + C_1 C_L$

10.911 INVALID-ORDER-911
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$$

 $H(s) = \frac{1}{R_1 R_3 R_L g_m + R_3 R_L + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 R_L g_m + C_1 C_3 L_L L_3 L_L R_3 R_L \right) + s^5 \left(C_1 C_L L_1 L_3 L_L R_1 R_3 g_m + C_1 C_L L_1 L_3 L_L R_3 + C_1 C_L L_1 L_3 L_L R_3 + C_1 C_L L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_3 L_1 L_3 R_1 R_3 R_L + C_1 C_L L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 L_L R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 L_3 L_L R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_L g_m + C_1 C_2 L_1 R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 R_3 R_L g_m + C_1 C_2 L_1 R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 R_3 R_L g_m + C_1 C_2 L_1 R_3 R_L g_m \right) + s^4 \left(C_1 C_3 L_1 R_3 R_L g_m + C_1 C$

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H(s) = \frac{C_1C_3L_1L_3R_1R_3R_Lg_m + s^3\left(C_1L_1L_3R_1R_Lg_m + C_3L_1L_3R_3R_Lg_m + C_3L_1L_3R_3R_Lg_m + C_3L_3R_1R_3R_Lg_m + L_1L_3R_Lg_m + s^2\left(C_1L_1R_1R_3R_Lg_m + C_3L_3R_1R_3R_Lg_m + L_1L_3R_Lg_m + L_1L_3R_Lg_m
10.913 INVALID-ORDER-913 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \infty, \frac{1}{C_{Ls}}\right)
                                        \frac{C_{1}C_{3}L_{1}L_{3}R_{1}R_{3}g_{m}s^{4}+R_{1}R_{3}g_{m}+s^{3}\left(C_{1}L_{1}L_{3}R_{1}g_{m}+C_{3}L_{1}L_{3}R_{3}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{1}R_{3}g_{m}+C_{3}L_{3}R_{1}R_{3}g_{m}+L_{1}L_{3}g_{m}\right)+s\left(L_{1}R_{3}g_{m}+L_{1}L_{3}g_{m}\right)+s\left(L_{1}R_{3}g_{m}+L_{1}L_{3}g_{m}\right)+s\left(L_{1}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{1}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{1}L_{3}R_{3}g_{m}+C_{1}L_{1}L_{1}R_{3}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{3}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{3}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{3}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{3}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{3}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}L_{1}R_{1}R_{2}g_{m}+C
10.914 INVALID-ORDER-914 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
                                       \frac{C_1C_3L_1L_3R_1R_3R_Lg_ms^2 + C_1C_3L_1L_3R_1R_3R_Lg_ms^2 + C_1C_3L_1L_3R_1R_3R_Lg_m + C_1C_3L_1L_3R_1R_3R_Lg_m + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_
10.915 INVALID-ORDER-915 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                        \frac{C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{3}g_{m}+s^{4}\left(C_{1}C_{3}L_{L}L_{3}R_{1}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}R_{L}g_{m}+C_{3}C_{L}L_{1}L_{3}R_{3}R_{L}g_{m}\right)+s^{3}\left(C_{1}C_{L}L_{1}R_{1}R_{3}R_{L}g_{m}+C_{1}L_{1}L_{3}R_{1}g_{m}+C_{1}L_{1}L_{3}R_{1}g_{m}+C_{1}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{3}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{1}R_{1}g_
10.916 INVALID-ORDER-916 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
10.917 INVALID-ORDER-917 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1C_3L_1L_3L_LR_1R_3g_ms^5 + I
                                       10.918 INVALID-ORDER-918 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_m + s^5\left(C_1C_3C_LL_1L_3R_1R_3g_m + s^5\left(C_1C_3C_LL_1L_3L_LR_1g_m + C_3C_LL_1L_3L_LR_3g_m\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_LL_1L_3R_1R_2g_m + C_1C_LL_1L_3R_1R_2g_m + C_1C_LL_1L_3R_1R_2g_m + C_1C_LL_1L_3R_1R_2g_m + C_1C_3C_LL_1L_3R_1R_2g_m + C_1C_3C_LL_
10.919 INVALID-ORDER-919 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
H(s) = \frac{1}{R_1 R_3 R_L g_m + R_3 R_L + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 R_L g_m + C_1 C_3 L_L L_3 L_L R_3 R_L g_m + C_1 C_3 L_1 L_3 L_L R_1 R_3 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_1 R
10.920 INVALID-ORDER-920 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_1C_3C_LL_1L_3L_LR_1R_3R_Lg_ms^6 + R_1R_3R_Lg_m +
H(s) = \frac{1}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_2 C_L L_1 L_3 L_L R_3
10.921 INVALID-ORDER-921 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
                                       \overline{R_{1}R_{3}q_{m} + R_{1}R_{L}q_{m} + R_{3} + R_{L} + s^{6}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}q_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{2}q_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{3} + C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L} + C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}q_{m} + C_{1}C_{L}L_{1}L_{2}L_{L}R_{1}q_{m} + C_{1}C_{L}L_{1}L_{2}L_{1}R_{1}q_{m} + C_{1}C_{L}L_{1}
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10.912 INVALID-ORDER-912 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{C_3L_3R_3s^2 + L_3s + R_3}{C_3L_3s^2 + 1}, \infty, \infty, \infty, R_L\right)$

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H(s) = \frac{C_1C_3L_1L_3R_1R_3R_Lg_ms^4 + C_3L_1L_3R_3R_Lg_ms^3 + L_1R_3R_Lg_ms + R_1R_3R_Lg_m + s^2\left(C_1L_1R_1R_3R_Lg_m + C_3L_3R_1R_3R_Lg_m\right)}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^4\left(C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_2g_m + C_1C_3L_1L_3R_2g_m + C_1C_3L_1L_3R_2g_m + C_1L_1R_1R_2g_m + C_1L
10.923 INVALID-ORDER-923 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3(C_3L_3s^2 + 1)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3L_1L_3R_1R_3g_ms^4 + C_3L_1L_3R_3g_ms^3 + L_1R_3g_ms + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_3L_3R_1R_3g_m\right)}{R_1g_m + s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3R_3g_m\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_LL_1R_3g_m + C_1C_LL_1R_3g_m + C_3C_LL_3R_3g_m + C_3C_LL_3R_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_1C_3L_1L_3R_3g_m + C_3C_LL_3R_3g_m + C_3C_LL_3R_3g_m + C_3C_LL_3R_3g_m + C_3C_LL_3R_3g_m + C_3C_LL_3R_3g_m + C_3C_LL_3R_3g_m + C_3C_LL_3R_3g_m\right)}
10.924 INVALID-ORDER-924 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3\left(C_3L_3s^2 + 1\right)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
H(s) = \frac{C_1C_3L_1L_3R_1R_3R_Lg_m s^4 + C_2C_2L_1L_3R_1R_3R_Lg_m + C_1C_3L_1L_3R_1R_3R_Lg_m + C_1C_3L_1L_3R_1R_1g_m + C_1C_3L_1L_3R_1R_1g_m
10.925 INVALID-ORDER-925 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3\left(C_3L_3s^2 + 1\right)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_1C_3C_LL_1L_3R_1R_3R_Lg_ms^5 + R_1R_3g_m + s^4(C_1C_3L_1L_3R_1R_3g_m)
                                  \frac{ \cup_{1} \cup_{3} \cup_{L} L_{1} L_{3} I_{1} I_{3} I_{L} L_{gm} s + I_{L} I_{1} I_{3} I_{L} L_{gm} s + I_{L} I_{1} I_{3} I_{L} L_{gm} s + I_{L} I_{L} I_{3} I_{L} I_{L} I_{3} I_{L} I_{L} I_{3} I_{L} I_{2} I_{2} I_{L} I_{2} I_{2
10.926 INVALID-ORDER-926 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3\left(C_3L_3s^2 + 1\right)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_1C_3C_LL_1L_3L_LR_1R_3g_ms^6 + C_3C_LL_1L_3L_LR_3g_ms^5 + L_1R_3
H(s) = \frac{C_1 C_3 C_L L_1 L_3 L_L R_1 g_m s + C_1 C_3 C_L L_1 L_3 L_L R_1 g_m s + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R
10.927 INVALID-ORDER-927 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3\left(C_3L_3s^2 + 1\right)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
                                  10.928 INVALID-ORDER-928 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3\left(C_3L_3s^2 + 1\right)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{1}{R_1 g_m + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_1 g_m + C_1 C_3 C_L L_1 L_3 L_L \right) + s^5 \left( C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_3 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 L_3 R_2 R_2 g_m + C_1 C_3 C_L L_1 R_3 R_3 g_m + C_1 C_3 C_L L_1 R_3 R_2 g_m + C_1 C_3 C_L L_1 R_3 R_3 g_m +
10.929 INVALID-ORDER-929 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3\left(C_3L_3s^2 + 1\right)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
                                  10.930 INVALID-ORDER-930 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3\left(C_3L_3s^2 + 1\right)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
 H(s) = \frac{1}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_2 L_2 R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L_L R_3 R_L + C_1 C_3 C_L L_1 L_3 L
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10.922 INVALID-ORDER-922 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3(C_3L_3s^2 + 1)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, R_L\right)$

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10.931 INVALID-ORDER-931 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \frac{R_3(C_3L_3s^2 + 1)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
H(s) = \frac{1}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 R_1 R_3 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_3 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 R_2 R_L + C_1 C_2 C_L L_2 R_2 R_L + C_1 C_2
10.932 INVALID-ORDER-932 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                         H(s) = \frac{C_1L_1R_1R_3g_ms^2 + R_1R_3g_m}{R_1g_m + s^3\left(C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_3\right) + s^2\left(C_1C_LR_1R_3 + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_LR_1R_3g_m + C_LR_3\right) + 1}
10.933 INVALID-ORDER-933 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                                             H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_LL_1R_1R_3R_Lg_m + C_1C_LL_1R_3R_L\right) + s^2\left(C_1C_LR_1R_3R_L + C_1L_1R_1R_3g_m + C_1L_1R_1R_2g_m + C_1L_1R_3 + C_1L_1R_1\right) + s\left(C_1R_1R_3 + C_1R_1R_2 + C_1R_1R_3R_Lg_m + C_1R_3R_L\right)}
10.934 INVALID-ORDER-934 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                                                                                      H(s) = \frac{C_1C_LL_1R_1R_3R_Lg_ms^3 + C_1L_1R_1R_3g_ms^2 + C_LR_1R_3R_Lg_ms + R_1R_3g_m}{R_1g_m + s^3\left(C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_3 + C_1C_LL_1R_1\right) + s^2\left(C_1C_LR_1R_3 + C_1C_LR_1R_L + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_LR_1R_3g_m + C_LR_1R_Lg_m + C_LR_1R_Lg_m + C_LR_1R_Lg_m\right) + 1}
10.935 INVALID-ORDER-935 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                                                                               H(s) = \frac{C_1C_LL_1L_LR_1R_3g_ms^4 + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_LL_LR_1R_3g_m\right)}{R_1g_m + s^4\left(C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_3 + C_1C_LL_1R_1\right) + s^2\left(C_1C_LR_1R_3 + C_1L_1R_1g_m + C_1L_1 + C_LL_1R_1g_m + C_LL_L\right) + s\left(C_1R_1 + C_LR_1R_3g_m + C_LR_3\right) + 1}
10.936 INVALID-ORDER-936 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
                                                                       H(s) = \frac{C_1L_1L_LR_1R_3g_ms^3 + L_LR_1R_3g_ms}{R_1R_3g_m + R_3 + s^4\left(C_1C_LL_1L_LR_1R_3g_m + C_1C_LL_1L_LR_3\right) + s^3\left(C_1C_LL_LR_1R_3 + C_1L_LR_1g_m + C_1L_1L_L\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_LR_1 + C_LL_LR_1R_3g_m + C_LL_LR_3\right) + s\left(C_1R_1R_3 + L_LR_1g_m + L_L\right)}
10.937 INVALID-ORDER-937 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_3g_ms^4 + C_1C_LL_1R_1R_3R_Lg_ms^3 + C_LR_1R_3R_Lg_ms + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_LL_LR_1R_3g_m\right)}{R_1g_m + s^4\left(C_1C_LL_1L_LR_1g_m + C_1C_LL_1R_1\right) + s^3\left(C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1\right) + s^2\left(C_1C_LR_1R_3 + C_1C_LL_1R_1R_3g_m + C_1L_LR_1g_m + C_1L_LR_1g_
10.938 INVALID-ORDER-938 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ R_3, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
                             \frac{C_{1}L_{1}L_{L}R_{1}R_{3}R_{L}g_{m}s^{3}+L_{L}R_{1}R_{3}R_{L}g_{m}s}{R_{1}R_{3}R_{L}g_{m}+R_{3}R_{L}+s^{4}\left(C_{1}C_{L}L_{1}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}L_{L}L_{R}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{3}R_{L}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1
10.939 INVALID-ORDER-939 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_3R_Lg_ms^4 + C_1L_1L_LR_1R_3g_ms^3 + L_LR_1R_3g_ms + R_1R_3R_Lg_m + s^2\left(C_1L_1R_1R_3R_Lg_m + C_LL_LR_1R_3R_Lg_m + C_LL_LR_1R_3R_Lg_m\right)}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^4\left(C_1C_LL_1L_LR_1R_3g_m + C_1C_LL_1L_LR_1R_2g_m + C_1C_LL_1L_LR_1R_2g_m + C_1L_1L_LR_1R_2g_m + C_1L_1L_LR_1R_2g_m + C_1L_1R_1R_2g_m + C_1L_1R_1R_2g_m
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10.940 INVALID-ORDER-940 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.941 INVALID-ORDER-941 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, R_L\right)
                                                                                                                            H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^3\left(C_1C_3L_1R_1R_Lg_m + C_1C_3L_1R_L\right) + s^2\left(C_1C_3R_1R_L + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_3R_1R_Lg_m + C_3R_L\right) + 1}
10.942 INVALID-ORDER-942 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                                             H(s) = \frac{C_1L_1R_1g_ms^2 + R_1g_m}{s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_L\right)}
10.943 INVALID-ORDER-943 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                      H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^3\left(C_1C_3L_1R_1R_Lg_m + C_1C_3L_1R_L + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(C_1C_3R_1R_L + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_3R_1R_Lg_m + C_3R_L + C_LR_1R_Lg_m + C_LR_L\right) + 1}
10.944 INVALID-ORDER-944 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                      H(s) = \frac{C_1C_LL_1R_1R_Lg_ms^3 + C_1L_1R_1g_ms^2 + C_LR_1R_Lg_ms + R_1g_m}{s^4\left(C_1C_3C_LL_1R_1R_Lg_m + C_1C_3L_1R_L\right) + s^3\left(C_1C_3C_LR_1R_L + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_1C_LL_1\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_Lg_m + C_3C_LR_L\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_1C_L\right)}
10.945 INVALID-ORDER-945 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                     H(s) = \frac{C_1C_LL_1L_LR_1g_ms^4 + R_1g_m + s^2\left(C_1L_1R_1g_m + C_LL_LR_1g_m\right)}{C_1C_3C_LL_LR_1s^4 + s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_3L_LL_L\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_4L_1R_1g_m + C_1C_LL_1R_1g_m + C_3C_LL_L\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_1C_LR_1\right)}
10.946 INVALID-ORDER-946 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
                                                      H(s) = \frac{C_1L_1L_LR_1g_ms^3 + L_LR_1g_ms}{C_1R_1s + R_1g_m + s^4\left(C_1C_3L_1L_LR_1g_m + C_1C_3L_1L_L + C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_3L_LR_1 + C_1C_LL_LR_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_LR_1g_m + C_3L_L + C_LL_LR_1g_m + C_LL_L\right) + 1}
10.947 INVALID-ORDER-947 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
               \frac{C_{1}C_{L}L_{1}L_{L}R_{1}g_{m}s^{4}+C_{1}C_{L}L_{1}R_{1}R_{L}g_{m}s^{3}+C_{L}R_{1}R_{L}g_{m}s+R_{1}g_{m}+s^{2}\left(C_{1}L_{1}R_{1}g_{m}+C_{L}L_{L}R_{1}g_{m}\right)}{s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{L}+C_{1}C_{3}C_{L}L_{1}R_{L}+C_{1}C_{3}C_{L}L_{1}R_{L}+C_{1}C_{3}L_{1}R_{L}+C_{1}C_{3}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}R_{1}g_{m}+C
10.948 INVALID-ORDER-948 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
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 $C_1L_1L_LR_1R_Lg_ms^3 + L_LR_1R_Lg_ms$

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10.949 INVALID-ORDER-949 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \frac{1}{C_3s}, \ \infty, \ \infty, \ \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1C_LL_1L_LR_1g_ms^4 + C_1L_1L_LR_1g_ms^3 + L_LR_1g_ms^3 + L_LR_1g_ms^3 + L_LR_1g_m + s^2\left(C_1L_1R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{R_1g_m + s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_3L_LL_RL_1g_m + C_1C_3L_LL_1g_m + C_1C_3L_LL_1g_m + C_1C_3L_1L_1g_m + C_1C_3L_
10.950 INVALID-ORDER-950 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{1}{C_3s}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.951 INVALID-ORDER-951 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, R_L\right)
                                                                                          H(s) = \frac{C_1L_1R_1R_3R_Lg_ms^2 + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_3L_1R_1R_3R_Lg_m + C_1C_3L_1R_3R_L\right) + s^2\left(C_1C_3R_1R_3R_L + C_1L_1R_1R_3g_m + C_1L_1R_1R_2g_m + C_1L_1R_3 + C_1L_1R_L\right) + s\left(C_1R_1R_3 + C_1R_1R_L + C_3R_1R_3R_Lg_m + C_3R_3R_L\right)}
10.952 INVALID-ORDER-952 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                                       H(s) = \frac{C_1L_1R_1R_3g_ms^2 + R_1R_3g_m}{R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + C_1C_LL_1R_3g_m + C_1C_LL_1R_3\right) + s^2\left(C_1C_3R_1R_3 + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3 + C_LR_1R_3g_m + C_LR_3\right) + 1}
10.953 INVALID-ORDER-953 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
H(s) = \frac{C_1L_1R_3R_Lg_ms^2 + R_1R_3R_Lg_m}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^3\left(C_1C_3L_1R_1R_3R_Lg_m + C_1C_LL_1R_3R_Lg_m + C_1C_LL_1R_3R_L\right) + s^2\left(C_1C_3R_1R_3R_L + C_1L_1R_1R_3g_m + C_1L_1R_1R_2g_m + C_1L_1R_3 +
10.954 INVALID-ORDER-954 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1R_1R_3R_Lg_ms^3 + C_1L_1R_1R_3g_ms^2 + C_LR_1R_3R_Lg_ms + R_1R_3g_m}{R_1g_m + s^4\left(C_1C_3C_LL_1R_1R_3R_Lg_m + C_1C_3L_1R_1R_3R_L + C_1C_3L_1R_1R_3g_m + C_1C_LL_1R_1R_3g_m + C_1C_LL_1R_1R_2g_m + C_1C_LL_1R_3 + C_
10.955 INVALID-ORDER-955 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_3g_ms^4 + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_LL_LR_1R_3g_m\right)}{R_1g_m + s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_LL_1L_LR_3\right) + s^4\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_LL_1R_3g_m + C_1C_L
10.956 INVALID-ORDER-956 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
                               \frac{C_{1}L_{1}L_{L}R_{1}R_{3}g_{m}s^{3}+L_{L}R_{1}R_{3}g_{m}s}{R_{1}R_{3}g_{m}+R_{3}+s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{L}L_{L}L_{R}R_{3}g_{m}+C_{1}L_{L}L_{R}R_{3}g_{m}+C_{1}L_{L}L_{R}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{3}g_{m}+C_{1}L_{L}R_{1}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+
10.957 INVALID-ORDER-957 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
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 $C_1C_LL_1L_LR_1R_3g_ms^4 + C_1C_LL_1R_1R_3R_Lg_ms^4$

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10.958 INVALID-ORDER-958 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
H(s) = \frac{C_{1}L_{1}L_{L}R_{1}R_{3}R_{L}g_{m}s^{3} + L_{L}R_{1}R_{3}R_{L}g_{m}s}{R_{1}R_{3}R_{L}g_{m} + R_{3}R_{L} + s^{4}\left(C_{1}C_{3}L_{1}L_{L}R_{1}R_{3}R_{L}g_{m} + C_{1}C_{L}L_{L}L_{R}R_{3}R_{L}g_{m} + C_{1}L_{L}L_{R}R_{3}R_{L}g_{m} + C_{1}L_{L}L_{R}R_{3}R_{L}
10.959 INVALID-ORDER-959 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
H(s) = \frac{1}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^5 \left( C_1 C_3 C_L L_1 L_L R_1 R_3 R_L g_m + C_1 C_3 L_L L_L R_1 R_3 R_L + C_1 C_3 L_1 L_L R_1 R_3 g_m + C_1 C_L L_1 L_L R_1 R_1 R_1 R_2 g_m + C_1 C_L L_1 L_L R_1 R_1 R_2 g_m + C_1 C_L L_1 L_L R_1 R_1 R_2 g_m + C_1 C_L L_1 L_L R_1 R_1 R_2 g_m + C_1 C_L L_1 L_L R_1 R_2 g_m + C_1 C_L
10.960 INVALID-ORDER-960 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.961 INVALID-ORDER-961 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, R_L\right)
                                                                                                                                           H(s) = \frac{C_1C_3L_1R_1R_3R_Lg_ms^3 + C_1L_1R_1R_Lg_ms^2 + C_3R_1R_3R_Lg_ms + R_1R_Lg_m}{R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_Lg_m + C_1C_3L_1R_1\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_L + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_1R_Lg_m + C_3R_3 + C_3R_L\right) + 1}
10.962 INVALID-ORDER-962 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                 H(s) = \frac{C_1C_3L_1R_1R_3g_ms^3 + C_1L_1R_1g_ms^2 + C_3R_1R_3g_ms + R_1g_m}{s^4\left(C_1C_3C_LL_1R_1g_m + C_1C_3C_LL_1R_3\right) + s^3\left(C_1C_3C_LR_1R_3 + C_1C_3L_1R_1g_m + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1 + C_3C_LR_1R_3g_m + C_3C_LR_3\right) + s\left(C_3R_1g_m + C_3 + C_LR_1g_m + C_1C_LR_1\right) + s^2\left(C_3C_LR_1R_3g_m + C_3C_LR_1R_3g_m + C_3C_LR_3\right) + s\left(C_3R_1g_m + C_3C_LR_1R_3g_m + C_3C_LR_1R_3g_m + C_3C_LR_3\right) + s\left(C_3R_1g_m + C_3C_LR_1R_3 + C_3C_LR_1R_3\right) + s\left(C_3R_1g_m + C_3C_LR_1R_3 + C_3C_LR_1R_3\right) + s\left(C_3R_1g_m + C_3C_LR_1
10.963 INVALID-ORDER-963 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                     \frac{C_{1}C_{3}L_{1}R_{1}R_{3}R_{L}g_{m}s^{3}+C_{1}L_{1}R_{1}R_{L}g_{m}s^{2}+C_{3}R_{1}R_{3}R_{L}g_{m}s+R_{1}R_{L}g_{m}}{R_{1}g_{m}+s^{4}\left(C_{1}C_{3}C_{L}L_{1}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{2}g_{m}+C_{1}C_{3}L_{1}R_{2}g_
10.964 INVALID-ORDER-964 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3C_LL_1R_1R_3R_Lg_ms^4 + R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_LL_1R_1R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_3C_LR_1R_3R_Lg_m\right) + s\left(C_3R_1R_3g_m + C_LR_1R_Lg_m\right)}{s^4\left(C_1C_3C_LL_1R_1R_3g_m + C_1C_3C_LL_1R_1\right) + s^3\left(C_1C_3C_LR_1R_3 + C_1C_3C_LR_1R_1 + C_1C_3L_1R_1g_m + C_1C_3L_1\right) + s^2\left(C_1C_3R_1 + C_1C_2R_1 + C_3C_LR_1R_3g_m + C_3C_LR_1R_2g_m\right) + s^2\left(C_1C_3R_1R_1R_2g_m + C_3C_LR_1R_3g_m + C_3C_LR_1R_2g_m\right) + s^2\left(C_1C_3R_1R_1R_2g_m + C_3C_LR_1R_3g_m + C_3C_LR_1R_2g_m\right) + s^2\left(C_1C_3R_1R_1R_2g_m + C_3C_LR_1R_3g_m + C_3C_LR_1R_2g_m\right) + s^2\left(C_1C_3R_1R_3R_2g_m + C_3C_LR_1R_2g_m + C_3C_LR_1R_2g_m\right) + s^2\left(C_1C_3R_1R_1R_2g_m + C_3C_LR_1R_2g_m\right) + s^2\left(C_1C_3R_
10.965 INVALID-ORDER-965 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, R_3 + \frac{1}{C_3s}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
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 $H(s) = \frac{C_1C_3C_LL_1L_LR_1R_3g_ms^5 + C_1C_LL_1L_LR_1g_ms^4 + C_3R_1R_3g_ms + R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_3C_LL_LR_1R_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_LL_RI_2g_m\right)}{s^5\left(C_1C_3C_LL_1L_LR_1g_m + C_1C_3C_LL_1R_1R_3g_m + C_1C_3C_LL_1R_1R_3g_m + C_1C_3C_LL_1R_1\right) + s^4\left(C_1C_3C_LL_1R_1R_3g_m + C_1C_3L_LR_1\right) + s^3\left(C_1C_3C_LR_1R_3 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + C_3C_LL_RI_2g_m + C_3C_LL_L\right) + s^2\left(C_1C_3R_1 + C_1C_LR_1g_m + C_3C_LR_1R_3g_m + C_3C_LR_1R_3g_m$

$$\textbf{10.971} \quad \textbf{INVALID-ORDER-971} \ \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ \infty, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ R_L \right) \\ \qquad \qquad \frac{C_1 C_3 L_1 L_3 R_1 R_L g_m s^4 + R_1 R_L g_m + s^2 \left(C_1 L_1 R_1 R_L g_m + C_3 L_3 R_1 R_L g_m \right)}{R_1 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 R_1 R_L g_m + C_1 C_3 L_1 R_1 + C_1 C_3 L_1 R_1 R_L g_m + C_1 L_1 R_1 g_m + C_1 L_1 + C_3 L_3 R_1 g_m + C_3 L_3 \right) + s \left(C_1 R_1 R_L g_m + C_3 R_1 R_L g_m + C$$

10.973 INVALID-ORDER-973
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$$

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

10.974 INVALID-ORDER-974
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ L_3s + \frac{1}{C_3s}, \ \infty, \ \infty, \ R_L + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1C_3C_LL_1L_3R_1R_Lg_ms^5 + C_1C_3L_1L_3R_1g_ms^4 + C_LR_1R_Lg_ms + R_1g_m + s^3\left(C_1C_LL_1R_1R_Lg_m + C_3C_LL_3R_1R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m\right)}{s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3L_LL_1R_1g_m + C_1C_3L_LL_1R_1g_m + C_1C_3L_LL_1R_1g_m + C_1C_3L_LR_1g_m + C_1C_3L_LR_1g_m$$

10.975 INVALID-ORDER-975
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ L_3s+\frac{1}{C_3s}, \ \infty, \ \infty, \ L_Ls+\frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_ms^6 + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_LL_1L_LR_1g_m + C_3C_LL_3L_LR_1g_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m + C_LL_LR_1g_m\right)}{s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3C_LL_1L_1\right) + s^4\left(C_1C_3C_LL_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_LL_1R_1g_m + C_3C_LL_3R_1g_m +$$

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10.976 INVALID-ORDER-976 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ L_3s + \frac{1}{C_3s}, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}g_{m}s^{5} + L_{L}R_{1}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}R_{1}g_{m} + C_{3}L_{3}L_{L}R_{1}g_{m}\right)}{C_{1}C_{3}C_{L}L_{3}L_{L}R_{1}s^{5} + C_{1}R_{1}s + R_{1}g_{m} + s^{6}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}C_{3}L_{1}L_{3}R_{1}g_{m} + C_{1}C_{3}L_{1}L_{1}R_{1}g_{m} + C_{1}C_{3}L_{1}R_{1}g_{m} + C_{1}
10.977 INVALID-ORDER-977 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_ms^6 + C_1C_3C_LL_1L_3R_1R_Lg_ms^5 + C_LR_1R_Lg_ms + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_LL_1L_LR_1g_m + C_3C_LL_3L_LR_1g_m\right) + s^3\left(C_1C_LL_1R_1R_Lg_m + C_3C_LL_3R_1R_Lg_m + C_3C_LL_3R_1R_Lg_m\right)}{s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3C_LL_1L_1R_1g_m + C_1C_3C_LL_1R_1R_Lg_m + C_1C_3C_LL_1R_1R_1R_Lg_m + C_1C_3C_LL_1R_1R_Lg_m + C_1C_3C_LL_1R_1R_Lg_m + C_1C_3C_LL_1R_1R_Lg_m + C_1
10.978 INVALID-ORDER-978 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
10.979 INVALID-ORDER-979 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{L}g_{m}s^{6}+C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}g_{m}s^{5}+L_{L}R_{1}g_{m}s+R_{1}R_{L}g_{m}+s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}L_{1}L_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{1}R_{1}R_{L}g_{m}+C_{1}C_{2}R_{
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10.980 INVALID-ORDER-980 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$

 $H(s) = \frac{C_1 C_3 C_L L_1 L_3 L_L R_1 g_m + C_1 C_3 C_L L_1 L_3 L_L R_1 g_m + C_1 C_3 C_L L_1 L_3 R_L R_1 g_m + C_1 C_3 C_L L_1 L_2 R_L R_1 R_L + C_1 C_3 C_L L_1 L_2 R_L R_1 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_L + C_1 C_3 C_L L_2 L_2 R_1 R_L + C_1 C_3 C_L R_1 R_L + C_1 C_3 C_L R_1 R_L + C_1 C_3 C_L R_1 R_L + C_1 C_2 C_L R_1 R_L + C_1 C_2 C_L R_1$

 $\frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m}s^{\circ} + C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}g_{m}s^{\circ} + L_{L}R_{1}g_{m}s + R_{1}R_{L}g_{m} + s^{2}\left(C_{1}C_{3}L_{1}L_{3}R_{L}R_{1}g_{m} + C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}C_{3}L_{1}L_{2}R_{1}g_{m} + C_{1}C_{3}L_{1}L$

10.981 INVALID-ORDER-981 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, R_L\right)$

10.982 INVALID-ORDER-982 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \frac{1}{C_Ls}\right)$ $H(s) = \frac{C_1L_1L_3R_1g_ms^3 + L_3R_1g_ms}{C_1R_1s + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + C_1C_LL_1L_3R_1g_m + C_1C_LL_1L_3\right) + s^3\left(C_1C_3L_3R_1 + C_1C_LL_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_3R_1g_m + C_3L_3 + C_LL_3R_1g_m + C_LL_3\right) + 1}$

10.983 INVALID-ORDER-983 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$

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

10.984 INVALID-ORDER-984 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$

 $C_1C_LL_1L_3R_1R_Lg_ms^4 + C_1L_1L_3R_1g_ms^3 + C_LL_3R_1R_Lg_ms^2 + L_3R_1g_ms$ $H(s) = \frac{C_1C_LL_1L_3R_1R_Lg_ms^4 + C_1L_1L_3R_1g_ms^3 + C_LL_3R_1R_Lg_ms^4 + C_1L_1L_3R_1g_ms^4 + C_1L_1R_1g_ms^4 + C_1L_1L_3R_1g_ms^4 + C_1L_1L_3R_1g_ms$

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10.985 INVALID-ORDER-985 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_3L_LR_1g_ms^5 + L_3R_1g_ms + s^3\left(C_1L_1L_3R_1g_m + C_LL_3L_LR_1g_m\right)}{C_1C_3C_LL_3L_LR_1s^5 + C_1R_1s + R_1g_m + s^6\left(C_1C_3C_LL_1L_3L_LR_1g_m + C_1C_3L_1L_3R_1g_m + C_1C_LL_1L_3R_1g_m + C_1C_LL_1L_4R_1g_m + C_1C_LL_1
10.986 INVALID-ORDER-986 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1L_1L_3L_LR_1g_ms^3 + L_3L_LR_1g_ms}{L_3R_1g_m + L_3 + L_LR_1g_m + L_L + s^4\left(C_1C_3L_1L_3L_LR_1g_m + C_1C_LL_1L_3L_LR_1g_m + C_1C_LL_1L_3L_L\right) + s^3\left(C_1C_3L_3L_LR_1 + C_1C_LL_3L_LR_1\right) + s^2\left(C_1L_1L_3R_1g_m + C_1L_1L_3 + C_1L_1L_1R_1g_m + C_1L_1L_1 + C_3L_3L_LR_1g_m + C_1L_1L_1R_1g_m + C_1L_1R_1g_m + C_1L_1
10.987 INVALID-ORDER-987 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_1C_LL_1L_3L_LR_1g_ms^5 + C_1C_LL_1L_3R_1R_Lg_ms^5
10.988 INVALID-ORDER-988 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
                                \frac{C_{1}L_{1}L_{3}L_{L}R_{1}R_{L}g_{m}s^{3}+L_{3}L_{L}R_{1}R_{L}g_{m}s}{L_{3}R_{1}R_{L}g_{m}+L_{3}R_{L}+L_{L}R_{1}R_{L}g_{m}+L_{L}R_{L}+s^{4}\left(C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}R_{L}g_{m}+C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{3}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{1}L_{2}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{1}L_{2}L_{L}R_{1}R_{L}+C_{1}C_{L}L_{1}L_
10.989 INVALID-ORDER-989 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
H(s) = \frac{1}{R_1 R_L g_m + R_L + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_1 R_L g_m + C_1 C_3 L_L L_1 L_3 L_L R_1 g_m + C_1 C_3 L_1 L
10.990 INVALID-ORDER-990 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
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10.991 INVALID-ORDER-991
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, R_L\right)$$

 $H(s) = \frac{C_1C_3L_1L_3R_1R_Lg_ms^4 + C_1C_3L_1R_1R_3R_Lg_ms^3 + C_3R_1R_3R_Lg_ms + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_3L_3R_1R_Lg_m\right)}{R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1R_3\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_Lg_m + C_1C_3L_1R_3 + C_1C_3L_1R_1 + C_1C_3L_1$

10.992 INVALID-ORDER-992
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{1}{C_Ls}\right)$$

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

10.993 INVALID-ORDER-993
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ L_3s+R_3+\frac{1}{C_3s}, \ \infty, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right)$$

 $C_1C_3L_1L_3R_1R_Lg_ms^4 + C_1C_3L_1R_1R_3R_Lg_ms^3$

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10.994 INVALID-ORDER-994 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ L_3s+R_3+\frac{1}{C_3s}, \ \infty, \ \infty, \ R_L+\frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3C_LL_1L_3R_1R_Lg_ms^5 + R_1g_m + s^4\left(C_1C_3C_LL_1R_1R_3R_Lg_m + C_1C_3L_1R_1R_3g_m + C_1C_LL_1R_1R_Lg_m + S^3\left(C_1C_3L_1R_1R_3g_m + C_1C_LL_1R_1R_Lg_m + C_3C_LL_3R_1R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_3C_LR_1R_3R_Lg_m + C_1C_3C_LL_1R_1R_2g_m + C_1C_3C_LL_
10.995 INVALID-ORDER-995 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_R_1g_ms^6 + C_1C_3C_LL_1L_LR_1g_ms^6 + C_1C_3C_LL_1L_LR_1g_ms^6 + C_1C_3C_LL_1L_RR_1g_ms^6 + C_1C_3C_LL_1L_RR_1g_ms^6 + C_1C_3C_LL_1L_RR_1g_ms^6 + C_1C_3C_LL_1L_RR_1g_ms^6 + C_1C_3C_LL_1L_RR_1g_ms^6 + C_1C_3C_LL_1L_1R_1g_ms^6 + C_1C_3C_LL_1R_1g_ms^6 + C_1C_3C_LL_1R_
10.996 INVALID-ORDER-996 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1 C_3 L_1 L_3 L_L R_1 g_m + S_1 + C_1 C_3 L_L L_L R_1 g_m + S_2 + C_1 C_3 L_L L_L R_1 g_m + S_2 + C_1 C_3 L_L L_L R_1 g_m + C_1 C_3 L_L R_1 g_m +
10.997 INVALID-ORDER-997 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                                            \frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m}s^{6}+R_{1}g_{m}+s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{L}g_{m}+C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{3}g_{m}\right)+s^{4}\left(C_{1}C_{3}C_{L}L_{1}L_{1}R_{1}R_{3}g_{m}+C_{1}C_{3}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+C_{3}C_{L}L_{1}L_{L}R_{1}g_{m}\right)+s^{3}\left(C_{1}C_{3}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{3}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{3}C_{L}L_{1}R
10.998 INVALID-ORDER-998 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
H(s) = \frac{1}{R_1 R_L g_m + R_L + s^6 \left( C_1 C_3 C_L L_1 L_3 L_L R_1 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_3 C_L L_2 L_2 R_2 R_L + C_1 C_3 C_L L_2 L_2 R_2 R_L + C_1 C_3 C_L L_2 R_2 R_2 R_L + C_1 C_2 R_2 R_L + C_1 C_2 R_2 R_L + C_1 C_2 R_L + C_1 C_2 R_L + C_1 C_2 R_L + C_1 C_2 R_L + C_1 C_2
10.999 INVALID-ORDER-999 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1g_ms^6 + R_1R_Lg_m + s^5\left(C_1C_3C_LL_1L_LR_1R_3R_Lg_m + C_1C_3L_1L_3L_LR_1g_m + s^6\left(C_1C_3C_LL_1L_LR_1R_3R_Lg_m + C_1C_3L_LL_LR_1R_2g_m + C_1C_3C_LL_LL_RR_1R_2g_m + C_1C_3C_LL_LL_RR_1R_2g_m + C_1C_3C_LL_LR_1R_2g_m + C_1C_3C_LL_1R_1R_2g_m + C_1C_3C_LL_1R_1R_2g_m
10.1000 INVALID-ORDER-1000 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
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$$H(s) = \frac{1}{R_{1}g_{m} + s^{6}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{1}R_{2}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{1}R_{1}R_{2}g_{m} + C$$

10.1001 INVALID-ORDER-1001
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_1L_1L_3R_1R_3R_Lg_ms^3 + L_3R_1R_3R_Lg_ms}{R_1R_3R_Lg_m + R_3R_L + s^4\left(C_1C_3L_1L_3R_1R_3R_Lg_m + C_1C_3L_1L_3R_3R_L + C_1L_1L_3R_1R_3g_m + C_1L_1L_3R_1R_2g_m + C_1L_1L_3R_1R_3g_m + C_1L_3R_1R_3g_m + C_1L_3R_1R_3g_m + C_1L_3R_3g_m + C_1L_$$

10.1002 INVALID-ORDER-1002
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \frac{1}{C_Ls}\right)$$

10.1003 INVALID-ORDER-1003 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$

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

10.1004 INVALID-ORDER-1004 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_1C_LL_1L_3R_1}{R_1R_3g_m + R_3 + s^5\left(C_1C_3C_LL_1L_3R_1R_3R_Lg_m + C_1C_3C_LL_1L_3R_3R_L\right) + s^4\left(C_1C_3C_LL_3R_1R_3R_L + C_1C_3L_1L_3R_1R_3g_m + C_1C_LL_1L_3R_1R_3g_m + C_1C_LL_1L_3R_$

10.1005 INVALID-ORDER-1005 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_1C_LL_1L_3}{R_1R_3g_m + R_3 + s^6\left(C_1C_3C_LL_1L_3L_LR_1g_m + C_1C_LL_1L_3L_LR_1g_m + C_1C_LL_1L_3L_LR_1g_m + C_1C_LL_1L_3R_1R_3g_m + C_1$

10.1006 INVALID-ORDER-1006 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$

10.1007 INVALID-ORDER-1007 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$

10.1008 INVALID-ORDER-1008 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$

10.1009 INVALID-ORDER-1009 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)$

10.1010 INVALID-ORDER-1010 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$

10.1011 INVALID-ORDER-1011 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, R_L\right)$

 $H(s) = \frac{C_1C_3L_1L_3R_1R_3R_Lg_ms^4 + C_1L_1L_3R_1R_Lg_ms^3 + L_3R_1R_Lg_ms + R_1R_3R_Lg_m + s^2\left(C_1L_1R_1R_3R_Lg_m + C_3L_3R_1R_3R_Lg_m\right)}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^4\left(C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1R_Lg_m + C_1C_3L_1L_3R_1R_Lg_m + C_1L_1L_3R_1R_Lg_m + C_1L_1L_3R_1g_m + C_1L_1R_1R_2g_m + C_1L$

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10.1012 INVALID-ORDER-1012 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3L_1L_3R_1R_3g_ms^4 + C_1L_1L_3R_1g_ms^3 + L_3R_1g_ms + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_3L_3R_1R_3g_m\right)}{R_1g_m + s^5\left(C_1C_3C_LL_1L_3R_1g_m + C_1C_3L_LL_3R_1g_m + C_1C_LL_1L_3R_1g_m + C_1C_LL_1R_3g_m + C_1C
10.1013 INVALID-ORDER-1013 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
H(s) = \frac{C}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^5 \left( C_1 C_3 C_L L_1 L_3 R_1 R_3 R_L g_m + C_1 C_3 L_L L_3 R_1 R_3 R_L + C_1 C_3 L_1 L_3 R_1 R_2 R_2 + C_1 C_3 L_1 L_3 R_1 R_2 R_2 + C_1 C_3 L_1 L_3 R_1 R_3 R_L + C_1 C_3 L_1 L_3 R_1 R_3 R_L
10.1014 INVALID-ORDER-1014 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_3C_LL_1L_3R_1R_3R_Lg_ms^5 + R_1R_3g_m + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_LL_1L_3R_1R_Lg_m\right) + s^3\left(C_1C_LL_1R_1R_3R_Lg_m + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_LL_1L_3R_1R_3g_m + C_1C_LL_1L_3R_1R_2g_m\right) + s^3\left(C_1C_LL_1R_1R_3R_Lg_m + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_LL_1L_3R_1R_3g_m + C_1C_LL_1L_3R_1R_2g_m\right) + s^3\left(C_1C_LL_1R_1R_3R_Lg_m + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_LL_1L_3R_1R_3g_m + C_1C_LL_1R_3g_m + C_1C_LL_1R_
10.1015 INVALID-ORDER-1015 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \frac{C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m}s^{6}+C_{1}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m}s^{5}+L_{3}R_{1}g_{m}s+R_{1}R_{3}g_{m}+s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{1}R_{3}g_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{1}R_{3}R_{m}+C_{1}C_{L}R_{1}R_{1}R_{1}R_{2}R_{m}+C_{1}C_{L}R_{1}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_
10.1016 INVALID-ORDER-1016 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
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10.1017 INVALID-ORDER-1017
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_3C_LL_1L_3L_LR_1R_3g_ms^6 + R_1R_3g_m + s^5\left(C_1C_3C_LL_1L_3R_1R_3R_Lg_m + C_1C_LL_1L_3L_LR_1g_m + C_1C_3C_LL_1L_3R_1R_3g_m + s^5\left(C_1C_3C_LL_1L_3R_1R_3g_m + s^5\left(C_1C_3C_LL_1L_3R_1R_3g_m + C_1C_3C_LL_1L_3R_1R_3g_m + C_1C$

10.1018 INVALID-ORDER-1018
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$$

 $H(s) = \frac{1}{R_1 R_3 R_L g_m + R_3 R_L + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 R_L g_m + C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 R_L \right) + s^5 \left(C_1 C_3 C_L L_3 L_L R_1 R_3 R_L + C_1 C_3 L_1 L_3 L_L R_1 R_3 g_m + C_1 C_3 L_1 L_3 L_L R_3 + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_2 g_m + C_1 C_3 L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 L_1 L_3 L_L R_2 g_m + C$

10.1019 INVALID-ORDER-1019
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)$$

 $H(s) = \frac{1}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 L_L R_1 R_L g_m + C_1 C_3 C_L L_1 L_3 L_L R_1 R_2 + C_1 C_3 C_L L_1 L_3 L_L R_1 R_2 + C_1 C_3 C_L L_1 L_3 L_L R_1 R_2 + C_1 C_3 C_L L_1 L_3 L_L R_1 R_2 + C_1 C_3 C_L L_1 L_3 L_L R_1 R_2 + C_1 C_3 C_L L_1 L_3 L_L R_1 R_2 + C_1 C_3 C_L L_1 L_3 L_L R_1 R_2 + C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 + C_1 C$

10.1020 INVALID-ORDER-1020
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1}, \infty, \infty, \infty, \frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}\right)$$

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10.1021 INVALID-ORDER-1021 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, R_L\right)
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 $H(s) = \frac{C_1C_3L_1L_3R_1R_3R_Lg_m s^4 + R_1R_3R_Lg_m + s^2\left(C_1L_1R_1R_3R_Lg_m + C_3L_3R_1R_3R_Lg_m\right)}{R_1R_3g_m + R_1R_Lg_m + R_3 + R_L + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1R_3R_Lg_m + C$

10.1022 INVALID-ORDER-1022
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_3L_1L_3R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_3L_3R_1R_3g_m\right) + S^2\left(C_1C_3C_LL_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1R_3g_m + C_3C_3L_1R_3g_m + C_3C_3L_3R_3g_m +$

10.1023 INVALID-ORDER-1023
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$$

 $H(s) = \frac{C_1 C_3 L_1 L_3}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^5 \left(C_1 C_3 C_L L_1 L_3 R_1 R_3 R_L g_m + C_1 C_3 L_L L_3 R_1 R_3 R_L + C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_3 L_1 L_3 R_$

10.1024 INVALID-ORDER-1024
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$$

 $\frac{ \cup_{1} \cup_{3} \cup_{L} \bot_{1} \bot_{3} R_{1} R_{3} L_{2} m_{1} R_{3} R_{L} L_{2} R_{1} R_{3} R_{L} L_{3} R_{1} R_{3} R_{L} L_{4} R_{1} R_{1} R_{2} R_{1} R_{1} R_{1} R_{1} R_{1} R_{1} R_{1} R_{1} L_{4} R_{1} L$

10.1025 INVALID-ORDER-1025
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 g_{m+1} + C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 g_{m+1} + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_{m+1} + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_{m+1} + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_{m+1} + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_{m+1} + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_{m+1} + C_1 C_3 C_L L_1 L_2 R_1 R_3 g_{m+1} + C_1 C_3 C_L L_2 R_1 R_3 g_{m+1} + C_1 C_2 C_L L_2 R_1 R_3 g_{m+1} + C_1 C_2 C_L L_2 R_1 R_3$

10.1026 INVALID-ORDER-1026
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$$

 $H(s) = \frac{C_1C_3L_1L}{R_1R_3g_m + R_3 + s^6\left(C_1C_3C_LL_1L_3L_LR_1g_m + C_1C_3C_LL_1L_3L_LR_3\right) + s^5\left(C_1C_3C_LL_3L_LR_1g_m + C_1C_3L_1L_3L_LR_1g_m + C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_3 + C_1C_3L_3L_3R_3 + C_1C_3L_3L_3R_3$

10.1027 INVALID-ORDER-1027
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{1}{R_{1}g_{m} + s^{6}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{L}R_{1}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{1}R_{3}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{1}R_{2}g_{m} + C_{1}C_{3}C_{L}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{3}$

10.1028 INVALID-ORDER-1028
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$$

 $\overline{R_{1}R_{3}R_{L}g_{m}+R_{3}R_{L}+s^{6}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L}g_{m}+C_{1}C_{3}L_{L}L_{1}L_{3}L_{L}R_{3}R_{L}\right)+s^{5}\left(C_{1}C_{3}C_{L}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L}+C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}R_{3}g_{m}+C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}R_{3}R_{L}+C_{1}C_{3}L_{1}L_{3}L_{L}R_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{L}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{1}R_{2}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_{1}R_{2}+C_{1}C_{3}L_{1}L_{2}L_{1}R_{1}R_{2}R_$

10.1029 INVALID-ORDER-1029
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)$$

10.1030 INVALID-ORDER-1030 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$

 $H(s) = \frac{1}{R_1 R_3 g_m + R_1 R_L g_m + R_3 + R_L + s^6 \left(C_1 C_3 C_L L_1 L_3 L_L R_1 R_3 g_m + C_1 C_3 C_L L_1 L_3 L_L R_1 R_2 g_m + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 L_L R_3 + C_1 C_3 C_L L_1 L_3 R_1 R_3 R_L g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 R_L g_m + C_1 C_3 C_L L_1 L_3 R_1 R_3 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_2 R_2 R_L g_m + C_1 C_3 C_L L_2 R_1 R_2 R_L g_m + C_1 C_3 C_L L_2 R_2 R_L g_m + C_1 C_3 C_L L_2 R_2 R_2 R_L g_m + C_1 C_3 C_L L_2 R_2$

11 PolynomialError