Filter Summary Report: TIA,simple,Z3,Z4,Z5

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Contents

1 Examined
$$H(z)$$
 for TIA simple Z3 Z4 Z5: $\frac{Z_3Z_4(Z_5g_m-1)}{2Z_3Z_4g_m+2Z_3Z_5g_m+2Z_3+Z_4Z_5g_m+Z_4}$

$$H(z) = \frac{Z_3 Z_4 (Z_5 g_m - 1)}{2Z_3 Z_4 g_m + 2Z_3 Z_5 g_m + 2Z_3 + Z_4 Z_5 g_m + Z_4}$$

- 2 HP
- 3 BP

3.1 BP-1
$$Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1}, R_5, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(R_5 g_m - 1\right)}{2 C_4 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_4 R_3 s^2 + 2 L_4 R_3 g_m s + L_4 R_5 g_m s + L_4 s + 2 R_3 R_5 g_m + 2 R_3}$$

Q:
$$\frac{2C_4R_3\sqrt{\frac{1}{C_4L_4}}(R_5g_m+1)}{2R_3g_m+R_5g_m+1}$$
 wo:
$$\sqrt{\frac{1}{C_4L_4}}$$
 bandwidth:
$$\frac{2R_3g_m+R_5g_m+1}{2C_4R_3(R_5g_m+1)}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1}$$
 Qz: 0 Wz: None

3.2 BP-2
$$Z(s) = \left(\infty, \infty, R_3, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$$

$$H(s) = \frac{L_4 R_3 R_4 s \left(R_5 g_m - 1\right)}{2 C_4 L_4 R_3 R_4 s g_m s^2 + 2 C_4 L_4 R_3 R_4 s^2 + 2 L_4 R_3 R_4 g_m s + 2 L_4 R_3 R_5 g_m s + 2 L_4 R_3 s + L_4 R_4 R_5 g_m s + L_4 R_4 s + 2 R_3 R_4 R_5 g_m + 2 R_3 R_4 R_5 g_m s + 2 R_5 R_5 g_m s +$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{2C_4R_3R_4\sqrt{\frac{1}{C_4L_4}}(R_5g_m+1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}\\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}}\\ \text{bandwidth:} \ \frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{2C_4R_3R_4(R_5g_m+1)}\\ \text{K-LP:} \ 0\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

3.3 BP-3
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

$$H(s) = \frac{L_4 s \left(R_5 g_m - 1\right)}{C_3 L_4 R_5 g_m s^2 + C_3 L_4 s^2 + 2 C_4 L_4 R_5 g_m s^2 + 2 C_4 L_4 s^2 + 2 L_4 g_m s + 2 R_5 g_m + 2}$$

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}\sqrt{\frac{1}{L_4(C_3+2C_4)}}\left(\frac{C_3R_5g_m}{2}+\frac{C_3}{2}+C_4R_5g_m+C_4\right)}{g_m} \\ \text{wo:} \ \sqrt{2}\sqrt{\frac{1}{L_4(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{g_m}{\frac{C_3R_5g_m}{2}+\frac{C_3}{2}+C_4R_5g_m+C_4} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_5g_m-1}{2g_m} \end{array}$$

3.4 BP-4
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$$

$$H(s) = \frac{L_4 R_4 s \left(R_5 g_m - 1\right)}{C_3 L_4 R_4 R_5 g_m s^2 + C_3 L_4 R_4 s^2 + 2 C_4 L_4 R_4 R_5 g_m s^2 + 2 C_4 L_4 R_4 s^2 + 2 L_4 R_4 g_m s + 2 L_4 R_5 g_m s + 2 L_4 s + 2 R_4 R_5 g_m + 2 R_4 R_5 g_m s^2 + 2 R_5 R_5 g_m$$

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}R_4\sqrt{\frac{1}{L_4(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2(R_4g_m+R_5g_m+1)} \\ \text{wo:} \ \sqrt{2}\sqrt{\frac{1}{L_4(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{2(R_4g_m+R_5g_m+1)}{R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.5 BP-5
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(R_5 g_m - 1\right)}{C_3 L_4 R_3 R_5 g_m s^2 + C_3 L_4 R_3 s^2 + 2 C_4 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_4 R_3 s^2 + 2 L_4 R_3 g_m s + L_4 R_5 g_m s + L_4 s + 2 R_3 R_5 g_m + 2 R_3 R_5 g_m s^2 + 2 R_5 R_5 g_m s^2$$

Parameters:

Q:
$$\frac{\sqrt{2}R_3\sqrt{\frac{1}{L_4(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2R_3g_m+R_5g_m+1}$$
 wo:
$$\sqrt{2}\sqrt{\frac{1}{L_4(C_3+2C_4)}}$$
 bandwidth:
$$\frac{2R_3g_m+R_5g_m+1}{R_3(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1}$$
 Qz: 0 Wz: None

3.6 BP-6
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5, \infty\right)$$

$$H(s) = \frac{L_4 R_3 R_4 s \left(R_5 g_m - 1\right)}{C_3 L_4 R_3 R_4 R_5 g_m s^2 + C_3 L_4 R_3 R_4 s^2 + 2 C_4 L_4 R_3 R_4 S^2 + 2 C_4 L_4 R_3 R_4 s^2 + 2 L_4 R_3 R_4 g_m s + 2 L_4 R_3 R_5 g_m s + 2 L_4 R_3 s + L_4 R_4 R_5 g_m s + L_4 R_4 s + 2 R_3 R_4 R_5 g_m + 2 R_3 R_4 R_5 g_m s + 2 R_4 R_$$

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}R_3R_4\sqrt{\frac{1}{L_4(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{wo:} \ \sqrt{2}\sqrt{\frac{1}{L_4(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{R_3R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.7 BP-7
$$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, R_4, R_5, \infty\right)$$

$$H(s) = \frac{L_3 R_4 s \left(R_5 g_m - 1\right)}{C_3 L_3 R_4 R_5 g_m s^2 + C_3 L_3 R_4 s^2 + 2 L_3 R_4 g_m s + 2 L_3 R_5 g_m s + 2 L_3 s + R_4 R_5 g_m + R_4}$$

$$\begin{aligned} &\text{Q: } \frac{C_3R_4\sqrt{\frac{1}{C_3L_3}}(R_5g_m+1)}{2(R_4g_m+R_5g_m+1)} \\ &\text{wo: } \sqrt{\frac{1}{C_3L_3}} \\ &\text{bandwidth: } \frac{2(R_4g_m+R_5g_m+1)}{C_3R_4(R_5g_m+1)} \\ &\text{K-LP: } 0 \\ &\text{K-HP: } 0 \\ &\text{K-BP: } \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)} \\ &\text{Qz: } 0 \\ &\text{Wz: None} \end{aligned}$$

3.8 BP-8
$$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{L_3 s \left(R_5 g_m - 1\right)}{C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + 2C_4 L_3 R_5 g_m s^2 + 2C_4 L_3 s^2 + 2L_3 g_m s + R_5 g_m + 1}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{\frac{1}{L_3(C_3+2C_4)}} \left(\frac{C_3R_5g_m}{2} + \frac{C_3}{2} + C_4R_5g_m + C_4}{g_m} \right)}{g_m} \\ \text{wo:} \ \sqrt{\frac{1}{L_3(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{g_m}{\frac{C_3R_5g_m}{2} + \frac{C_3}{2} + C_4R_5g_m + C_4} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_5g_m - 1}{2g_m} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.9 BP-9
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{R_4}{C_4R_4s+1}, R_5, \infty\right)$$

$$H(s) = \frac{L_3 R_4 s \left(R_5 g_m - 1\right)}{C_3 L_3 R_4 R_5 g_m s^2 + C_3 L_3 R_4 s^2 + 2 C_4 L_3 R_4 R_5 g_m s^2 + 2 C_4 L_3 R_4 s^2 + 2 L_3 R_4 g_m s + 2 L_3 R_5 g_m s + 2 L_3 s + R_4 R_5 g_m + R_4 R_5 g_m s^2 + 2 C_4 L_3 R_4 g_m s^2 + 2 L_3 R_5 g_m s + 2 L_3 R_5 g_m$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{R_4\sqrt{\frac{1}{L_3(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2(R_4g_m+R_5g_m+1)} \\ \text{wo:} \ \sqrt{\frac{1}{L_3(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{2(R_4g_m+R_5g_m+1)}{R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.10 BP-10
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1}, R_5, \infty\right)$$

$$H(s) = \frac{L_3L_4s\left(R_5g_m - 1\right)}{C_3L_3L_4R_5g_ms^2 + C_3L_3L_4s^2 + 2C_4L_3L_4R_5g_ms^2 + 2C_4L_3L_4s^2 + 2L_3L_4g_ms + 2L_3R_5g_m + 2L_3 + L_4R_5g_m + L_5R_5g_m + L_5R_5g_$$

Q:
$$\frac{\sqrt{\frac{2L_3+L_4}{L_3L_4(C_3+2C_4)}} \left(\frac{C_3R_5g_m}{2} + \frac{C_3}{2} + C_4R_5g_m + C_4\right)}{g_m}$$

wo:
$$\sqrt{\frac{2L_3+L_4}{L_3L_4(C_3+2C_4)}}$$
 bandwidth: $\frac{g_m}{\frac{C_3R_5g_m}{2}+\frac{C_3}{2}+C_4R_5g_m+C_4}$ K-LP: 0 K-HP: 0 K-BP: $\frac{R_5g_m-1}{2g_m}$ Qz: 0 Wz: None

3.11 BP-11
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_{3}L_{3}s^{2}+1}, \frac{L_{4}R_{4}s}{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}, R_{5}, \infty\right)$$

$$H(s) = \frac{L_3L_4R_4s\left(R_5g_m - 1\right)}{C_3L_3L_4R_4sg_ms^2 + C_3L_3L_4R_4s^2 + 2C_4L_3L_4R_4sg_ms^2 + 2C_4L_3L_4R_4s^2 + 2L_3L_4R_4g_ms + 2L_3L_4R_5g_ms + 2L_3L_4s + 2L_3R_4R_5g_m + 2L_3R_4R_5g_m + L_4R_4g_ms + L_4R$$

$$\begin{array}{l} \text{Q:} \ \frac{R_4\sqrt{\frac{2L_3+L_4}{L_3L_4(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2(R_4g_m+R_5g_m+1)} \\ \text{wo:} \ \sqrt{\frac{2L_3+L_4}{L_3L_4(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{2(R_4g_m+R_5g_m+1)}{R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.12 BP-12
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4, R_5, \infty\right)$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_3R_3R_4\sqrt{\frac{1}{C_3L_3}}(R_5g_m+1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}\\ \text{wo:} \ \sqrt{\frac{1}{C_3L_3}}\\ \text{bandwidth:} \ \frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{C_3R_3R_4(R_5g_m+1)}\\ \text{K-LP:} \ 0\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

3.13 BP-13
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{L_3 R_3 s \left(R_5 g_m - 1\right)}{C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + 2 C_4 L_3 R_3 R_5 g_m s^2 + 2 C_4 L_3 R_3 s^2 + 2 L_3 R_3 g_m s + L_3 R_5 g_m s + L_3 s + R_3 R_5 g_m + R_3 R_5 g_m s^2 + 2 C_4 L_3 R_3 g_m s^2 + 2 C_4 L_3 R_3 g_m s + L_3 R_5 g_m s + L_3$$

$$\begin{array}{l} \text{Q:} \ \frac{R_3\sqrt{\frac{1}{L_3(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2R_3g_m+R_5g_m+1} \\ \text{wo:} \ \sqrt{\frac{1}{L_3(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{2R_3g_m+R_5g_m+1}{R_3(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.14 BP-14
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_{3s}^2 + L_3 s + R_3}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$$

$$\begin{array}{l} \text{Q:} \ \frac{R_3R_4\sqrt{\frac{1}{L_3(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{wo:} \ \sqrt{\frac{1}{L_3(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{R_3R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.15 BP-15
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{R_3\sqrt{\frac{2L_3+L_4}{L_3L_4(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2R_3g_m+R_5g_m+1} \\ \text{wo:} \ \sqrt{\frac{2L_3+L_4}{L_3L_4(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{2R_3g_m+R_5g_m+1}{R_3(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.16 BP-16
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$$

$$H(s) = \frac{L_3L_4R_3R_4s\left(R_5g_m - 1\right)}{C_3L_3L_4R_3R_4s^2 + C_3L_3L_4R_3R_4s^2 + 2C_4L_3L_4R_3R_4s^2 + 2L_3L_4R_3R_4s^2 + 2L_3L_4R_3R_5g_ms + 2L_3L_4R_3s + L_3L_4R_4s^2 + 2L_3R_3R_4R_5g_m + 2L_3R_3R_4R_5g_ms + L_4R_3R_4s^2 + 2L_3R_3R_4s^2 +$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{R_3R_4\sqrt{\frac{2L_3+L_4}{L_3L_4(C_3+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{wo:} \ \sqrt{\frac{2L_3+L_4}{L_3L_4(C_3+2C_4)}} \\ \text{bandwidth:} \ \frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{R_3R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

4 LP

5 BS

5.1 BS-1
$$Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_3 \left(R_5 g_m - 1\right) \left(C_4 L_4 s^2 + 1\right)}{2 C_4 L_4 R_3 g_m s^2 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 s + 2 R_3 g_m + R_5 g_m + 1}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_4\sqrt{\frac{1}{C_4L_4}}(2R_3g_m+R_5g_m+1)}{2R_3(R_5g_m+1)} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{2R_3(R_5g_m+1)}{L_4(2R_3g_m+R_5g_m+1)} \\ \text{K-LP:} \ \frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1} \\ \text{K-HP:} \ \frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

5.2 BS-2
$$Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{L_4\sqrt{\frac{1}{C_4L_4}}(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}{2R_3R_4(R_5g_m+1)} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{2R_3R_4(R_5g_m+1)}{L_4(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)} \\ \text{K-LP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{K-HP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

5.3 BS-3
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(R_5 g_m - 1 \right) \left(C_3 L_3 s^2 + 1 \right)}{2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 R_4 g_m + 2 R_5 g_m + 2}$$

$$\begin{aligned} & \text{Q:} \ \frac{2L_3\sqrt{\frac{1}{C_3L_3}}(R_4g_m + R_5g_m + 1)}{R_4(R_5g_m + 1)} \\ & \text{wo:} \ \sqrt{\frac{1}{C_3L_3}} \\ & \text{bandwidth:} \ \frac{R_4(R_5g_m + 1)}{2L_3(R_4g_m + R_5g_m + 1)} \\ & \text{K-LP:} \ \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ & \text{K-HP:} \ \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ & \text{K-BP:} \ 0 \\ & \text{Qz:} \ \text{None} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_3L_3}} \end{aligned}$$

5.4 BS-4
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_3 R_4 \left(R_5 g_m - 1\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 L_3 R_3 R_4 g_m s^2 + 2 C_3 L_3 R_3 S_2 + C_3 L_3 R_4 R_5 g_m s^2 + C_3 L_3 R_4 S_2 + C_3 L_3 R_4 S_2 + C_3 R_3 R_4 S_3 R_5 R_4 S_3 R_4 S_3 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_$$

$$\begin{array}{l} \text{Q:} \ \frac{L_3\sqrt{\frac{1}{C_3L_3}}(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}{R_3R_4(R_5g_m+1)} \\ \text{wo:} \ \sqrt{\frac{1}{C_3L_3}} \\ \text{bandwidth:} \ \frac{R_3R_4(R_5g_m+1)}{L_3(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)} \\ \text{K-LP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{K-HP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_3L_3}} \end{array}$$

6 **GE**

6.1 GE-1
$$Z(s) = \left(\infty, \infty, R_3, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$H(s) = \frac{R_3 R_4 \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_4 g_m s^2 + 2 C_5 R_3 R_4 g_m s + 2 C_5 R_3 s + C_5 R_4 s + 2 R_3 g_m + R_4 g_m}$

Parameters:

Q:
$$\frac{L_{5}g_{m}\sqrt{\frac{1}{C_{5}L_{5}}}(2R_{3}+R_{4})}{2R_{3}R_{4}g_{m}+2R_{3}+R_{4}}$$
wo:
$$\sqrt{\frac{1}{C_{5}L_{5}}}$$
bandwidth:
$$\frac{2R_{3}R_{4}g_{m}+2R_{3}+R_{4}}{L_{5}g_{m}(2R_{3}+R_{4})}$$
K-LP:
$$\frac{R_{3}R_{4}}{2R_{3}+R_{4}}$$
K-HP:
$$\frac{R_{3}R_{4}}{2R_{3}+R_{4}}$$
K-BP:
$$-\frac{R_{3}R_{4}}{2R_{3}R_{4}g_{m}+2R_{3}+R_{4}}$$
Qz:
$$-L_{5}g_{m}\sqrt{\frac{1}{C_{5}L_{5}}}$$
Wz:
$$\sqrt{\frac{1}{C_{5}L_{5}}}$$

6.2 GE-2
$$Z(s) = \left(\infty, \infty, R_3, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_3 R_4 \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{2 C_5 L_5 R_3 R_4 g_m s^2 + 2 C_5 L_5 R_3 s^2 + C_5 L_5 R_4 s^2 + 2 L_5 R_3 g_m s + L_5 R_4 g_m s + 2 R_3 R_4 g_m + 2 R_3 + R_4}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_5\sqrt{\frac{1}{C_5L_5}}(2R_3R_4g_m + 2R_3 + R_4)}{g_m(2R_3 + R_4)} \\ & \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ & \text{bandwidth:} \ \frac{g_m(2R_3 + R_4)}{C_5(2R_3R_4g_m + 2R_3 + R_4)} \\ & \text{K-LP:} \ -\frac{R_3R_4}{2R_3R_4g_m + 2R_3 + R_4} \\ & \text{K-HP:} \ -\frac{R_3R_4}{2R_3R_4g_m + 2R_3 + R_4} \\ & \text{K-BP:} \ \frac{R_3R_4}{2R_3 + R_4} \\ & \text{Qz:} \ -\frac{C_5\sqrt{\frac{1}{C_5L_5}}}{g_m} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.3 GE-3
$$Z(s) = \left(\infty, \infty, R_3, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 R_4 \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_4 g_m s^2 + 2 C_5 R_3 R_4 g_m s + 2 C_5 R_3 R_5 g_m s + 2 C_5 R_3 s + C_5 R_4 R_5 g_m s + C_5 R_4 s + 2 R_3 g_m + R_4 g_m}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_5g_m\sqrt{\frac{1}{C_5L_5}}(2R_3+R_4)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ \text{bandwidth:} \ \frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{L_5g_m(2R_3+R_4)} \\ \text{K-LP:} \ \frac{R_3R_4}{2R_3+R_4} \\ \text{K-HP:} \ \frac{R_3R_4}{2R_3+R_4} \\ \text{K-BP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{Qz:} \ \frac{L_5g_m\sqrt{\frac{1}{C_5L_5}}}{R_5g_m-1} \\ \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{array}$$

6.4 GE-4 $Z(s) = \left(\infty, \infty, R_3, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5\right)}{2C_5L_5R_3R_4g_ms^2 + 2C_5L_5R_3R_5s^2 + C_5L_5R_4R_5s^2 + 2L_5R_3R_4g_ms + 2L_5R_3R_5g_ms + 2L_5R_3s + L_5R_4R_5g_ms + L_5R_4s + 2R_3R_4R_5g_m + 2R_3R_5 + R_4R_5g_ms + 2R_3R_5g_ms + 2R_5g_ms + 2$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_5R_5\sqrt{\frac{1}{C_5L_5}}(2R_3R_4g_m+2R_3+R_4)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ \text{bandwidth:} \ \frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{C_5R_5(2R_3R_4g_m+2R_3+R_4)} \\ \text{K-LP:} \ -\frac{R_3R_4}{2R_3R_4g_m+2R_3+R_4} \\ \text{K-HP:} \ -\frac{R_3R_4}{2R_3R_4g_m+2R_3+R_4} \\ \text{K-BP:} \ \frac{R_3R_4}{2R_3R_4g_m+2R_3R_5g_m-1)} \\ \text{C-S} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{Qz:} \ -\frac{C_5R_5\sqrt{\frac{1}{C_5L_5}}}{R_5g_m-1} \\ \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \\ \end{array}$$

6.5 GE-5
$$Z(s) = \left(\infty, \infty, R_3, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{R_3R_4\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{2C_5L_5R_3R_4g_ms^2 + 2C_5L_5R_3g_ms^2 + 2C_5L_5R_4R_5g_ms^2 + C_5L_5R_4s^2 + 2L_5R_3g_ms + L_5R_4g_ms + 2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4g_ms^2\right)}$$

Q:
$$\frac{C_5\sqrt{\frac{1}{C_5L_5}}(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}{g_m(2R_3+R_4)}$$
 wo:
$$\sqrt{\frac{1}{C_5L_5}}$$
 bandwidth:
$$\frac{g_m(2R_3+R_4)}{C_5(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}$$
 K-LP:
$$\frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}$$
 K-HP:
$$\frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}$$
 K-BP:
$$\frac{R_3R_4}{2R_3+R_4}$$
 Qz:
$$\frac{C_5\sqrt{\frac{1}{C_5L_5}}(R_5g_m-1)}{g_m}$$
 Wz:
$$\sqrt{\frac{1}{C_5L_5}}$$

6.6 GE-6
$$Z(s) = \left(\infty, \infty, R_3, R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{R_3R_4\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{2C_5L_5R_3R_4g_ms^2 + 2C_5L_5R_3S_2g_ms^2 + 2C_5L_5R_4S_2g_ms^2 + C_5L_5R_4S_2g_ms^2 + 2C_5R_3R_4S_2g_ms + 2C_5R_4S_2g_ms + 2C_5R_4S_$$

$$\begin{aligned} & \text{Q:} \ \frac{L_5\sqrt{\frac{1}{C_5L_5}}(2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4)}{R_5(2R_3R_4g_m + 2R_3 + R_4)} \\ & \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ & \text{bandwidth:} \ \frac{R_5(2R_3R_4g_m + 2R_3 + R_4)}{L_5(2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4)} \\ & \text{K-LP:} \ \frac{R_3R_4(R_5g_m - 1)}{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4} \\ & \text{K-HP:} \ \frac{R_3R_4(R_5g_m - 1)}{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4} \\ & \text{K-BP:} \ -\frac{R_3R_4}{2R_3R_4g_m + 2R_3 + R_4} \\ & \text{Qz:} \ \frac{L_5\sqrt{\frac{1}{C_5L_5}}(-R_5g_m + 1)}{R_5} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.7 GE-7
$$Z(s) = \left(\infty, \infty, R_3, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_3 \left(R_5 g_m - 1\right) \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right)}{2 C_4 L_4 R_3 g_m s^2 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 s^2 + 2 C_4 R_3 R_4 g_m s + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 s + C_4 R_4 R_5 g_m s + C_4 R_4 s + 2 R_3 g_m + R_5 g_m + 1}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \, \frac{L_4\sqrt{\frac{1}{C_4L_4}}(2R_3g_m + R_5g_m + 1)}{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4} \\ \text{wo:} \ \, \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \, \frac{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4}{L_4(2R_3g_m + R_5g_m + 1)} \\ \text{K-LP:} \ \, \frac{R_3(R_5g_m - 1)}{2R_3g_m + R_5g_m + 1} \\ \text{K-HP:} \ \, \frac{R_3(R_5g_m - 1)}{2R_3g_m + R_5g_m + 1} \\ \text{K-BP:} \ \, \frac{R_3R_4(R_5g_m - 1)}{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4} \\ \text{Qz:} \ \, \frac{L_4\sqrt{\frac{1}{C_4L_4}}}{R_4} \\ \text{Wz:} \ \, \sqrt{\frac{1}{C_4L_4}} \end{array}$$

6.8 GE-8
$$Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_3 \left(R_5 g_m - 1 \right) \left(C_4 L_4 R_4 s^2 + L_4 s + R_4 \right)}{2 C_4 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_4 R_3 s^2 + C_4 L_4 R_4 R_5 g_m s^2 + C_4 L_4 R_4 s^2 + 2 L_4 R_3 g_m s + L_4 R_5 g_m s + L_4 s + 2 R_3 R_4 g_m + 2 R_3 R_5 g_m + 2 R_3 + R_4 R_5 g_m + R_4 R_5 g_m + R_4 R_5 g_m s^2 + 2 R_4 R_5 g_m s^2 + 2 R_4 R_5 g_m s^2 + 2 R_5 R_5 g_m + 2 R_$$

$$\begin{array}{l} \text{Q:} \ \frac{C_4\sqrt{\frac{1}{C_4L_4}}}{C_4L_4}(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}{2R_3g_m+R_5g_m+1} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{2R_3g_m+R_5g_m+1}{C_4(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)} \\ \text{K-LP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{K-HP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ \text{K-BP:} \ \frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1} \\ \text{Qz:} \ C_4R_4\sqrt{\frac{1}{C_4L_4}} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \\ \end{array}$$

6.9 GE-9
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(R_5 g_m - 1 \right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1 \right)}{2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 s^2 + 2 C_3 R_3 R_4 g_m s + 2 C_3 R_3 R_5 g_m s + 2 C_3 R_3 s + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 R_4 g_m + 2 R_5 g_m + 2 C_3 R_3 R_5 g_m s + 2 C_3 R_3 R_5 g_m s + 2 C_3 R_3 R_5 g_m s + 2 C_3 R_5 g_m s + 2 C_5 R_5 g_m s + 2 C_5$$

$$\begin{array}{l} \text{Q:} \ \, \frac{2L_3\sqrt{\frac{1}{C_3L_3}}(R_4g_m + R_5g_m + 1)}{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4} \\ \text{wo:} \ \, \sqrt{\frac{1}{C_3L_3}} \\ \text{bandwidth:} \ \, \frac{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4}{2L_3(R_4g_m + R_5g_m + 1)} \\ \text{K-LP:} \ \, \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ \text{K-HP:} \ \, \frac{R_4(R_5g_m - 1)}{2(R_4g_m + R_5g_m + 1)} \\ \text{K-BP:} \ \, \frac{R_3R_4(R_5g_m - 1)}{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4} \\ \text{Qz:} \ \, \frac{L_3\sqrt{\frac{1}{C_3L_3}}}{R_3} \\ \text{Wz:} \ \, \sqrt{\frac{1}{C_3L_3}} \\ \end{array}$$

6.10 GE-10
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4, R_5, \infty\right)$$

Parameters:

Q:
$$\frac{C_3\sqrt{\frac{1}{C_3L_3}}(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}{2(R_4g_m+R_5g_m+1)}$$
 Wo:
$$\sqrt{\frac{1}{C_3L_3}}$$
 bandwidth:
$$\frac{2(R_4g_m+R_5g_m+1)}{C_3(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}$$
 K-LP:
$$\frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}$$
 K-HP:
$$\frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}$$
 K-BP:
$$\frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)}$$
 Qz:
$$C_3R_3\sqrt{\frac{1}{C_3L_3}}$$
 Wz:
$$\sqrt{\frac{1}{C_3L_3}}$$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1
$$Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

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

$$\begin{array}{l} \text{Q: } \frac{\sqrt{2}C_4C_5R_3\sqrt{\frac{g_m}{C_4C_5R_3}}}{2C_4R_3g_m + 2C_5R_3g_m + C_5} \\ \text{wo: } \frac{\sqrt{2}\sqrt{\frac{g_m}{C_4C_5R_3}}}{2} \\ \text{bandwidth: } \frac{2C_4R_3g_m + 2C_5R_3g_m + C_5}{2C_4C_5R_3} \\ \text{K-LP: } R_3 \\ \text{K-HP: } 0 \\ \text{K-BP: } -\frac{C_5R_3}{2C_4R_3g_m + 2C_5R_3g_m + C_5} \\ \text{Qz: } 0 \end{array}$$

8.2 INVALID-NUMER-2
$$Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

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

Q: $\frac{\sqrt{2}C_4C_5R_3R_5}{\frac{2C_4R_3R_5g_m+2C_4R_3+2C_5R_3R_5}{C_4C_5R_3R_5}}{\frac{\sqrt{2}\sqrt{\frac{2R_3g_m+8_5g_m+1}{C_4C_5R_3R_5}}}{\frac{2}{C_4C_5R_3R_5}}}{\frac{\sqrt{2}\sqrt{\frac{2R_3g_m+8_5g_m+1}{C_4C_5R_3R_5}}}{\frac{2}{C_4C_5R_3R_5}}}$ wo: $\frac{\sqrt{2}\sqrt{\frac{2R_3g_m+8_5g_m+1}{C_4C_5R_3R_5}}}{\frac{2}{C_4C_5R_3R_5}}$ bandwidth: $\frac{2C_4R_3R_5g_m+2C_4R_3+2C_5R_3R_5g_m+C_5R_5}{2C_4C_5R_3R_5}$ K-LP: $\frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1}$ K-HP: 0 K-BP: $-\frac{C_5R_3R_5}{2C_4R_3R_5g_m+2C_4R_3+2C_5R_3R_5g_m+C_5R_5}$ Qz: 0 Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

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

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_4C_5R_3\sqrt{\frac{g_m}{C_4C_5R_3(R_5g_m+1)}}(R_5g_m+1)}{2C_4R_3g_m+2C_5R_3g_m+C_5R_5g_m+C_5} \\ \text{wo:} \ \frac{\sqrt{2}\sqrt{\frac{g_m}{C_4C_5R_3(R_5g_m+1)}}}{2} \\ \text{bandwidth:} \ \frac{2C_4R_3g_m+2C_5R_3g_m+C_5R_5g_m+C_5}{2C_4C_5R_3(R_5g_m+1)} \\ \text{K-LP:} \ R_3 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_5R_3(R_5g_m-1)}{2C_4R_3g_m+2C_5R_3g_m+C_5R_5g_m+C_5} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.4 INVALID-NUMER-4 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

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

Parameters:

Q: $\frac{\sqrt{2}C_4C_5R_3R_4\sqrt{\frac{g_m(2R_3+R_4)}{C_4C_5R_3R_4}}}{\frac{2C_4R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3+C_5R_4}{2}}$ wo: $\frac{\sqrt{2}\sqrt{\frac{g_m(2R_3+R_4)}{2}}}{\frac{2C_4R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3+C_5R_4}{2}}$ bandwidth: $\frac{2C_4R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3+C_5R_4}{2C_4C_5R_3R_4}$ K-LP: $\frac{R_3R_4}{2R_3+R_4}$ K-HP: 0 K-BP: $-\frac{C_5R_3R_4}{2C_4R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3+C_5R_4}$ Qz: 0 Wz: None

8.5 INVALID-NUMER-5 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(-C_5R_5s + R_5g_m - 1\right)}{2C_4C_5R_3R_4R_5s^2 + 2C_4R_3R_4R_5g_ms + 2C_4R_3R_4s + 2C_5R_3R_4R_5g_ms + 2C_5R_3R_5s + C_5R_4R_5s + 2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_5g_m + R_5g_m$$

Parameters:

$$Q \colon \frac{\sqrt{2}C_4C_5R_3R_4R_5}{2C_4R_3R_4R_5g_m + 2C_4R_3R_4g_m + 2R_3R_5g_m + 2R_3R_4R_5g_m + R_4}}{C_4C_5R_3R_4R_5}$$

$$W0 \colon \sqrt{\frac{R_3R_4g_m + R_3R_5g_m + R_3 + \frac{R_4R_5g_m}{2} + \frac{R_4}{2}}{C_4C_5R_3R_4R_5}}$$

$$bandwidth \colon \frac{\sqrt{2}\sqrt{\frac{R_3R_4g_m + R_3R_5g_m + R_3 + \frac{R_4R_5g_m}{2} + \frac{R_4}{2}}{C_4C_5R_3R_4R_5}}}{2C_4C_5R_3R_4R_5} (2C_4R_3R_4R_5g_m + 2C_4R_3R_4 + 2C_5R_3R_4R_5g_m + 2C_5R_3R_5 + C_5R_4R_5)}$$

$$\frac{\sqrt{2}\sqrt{\frac{R_3R_4g_m + R_3R_5g_m + R_3 + \frac{R_4R_5g_m}{2} + \frac{R_4}{2}}{C_4C_5R_3R_4R_5}}}{2C_4C_5R_3R_4R_5} (2C_4R_3R_4R_5g_m + 2C_4R_3R_4 + 2C_5R_3R_4R_5g_m + 2C_5R_3R_5 + C_5R_4R_5)}$$

$$\frac{\sqrt{2}\sqrt{\frac{R_3R_4g_m + R_3R_5g_m + R_3 + \frac{R_4R_5g_m}{2} + \frac{R_4}{2}}{C_4C_5R_3R_4R_5}}}{2C_4C_5R_3R_4R_5g_m + 2C_4R_3R_4 + 2C_5R_3R_4R_5g_m + 2C_5R_3R_4R_5g_m + 2C_5R_3R_4R_5g_m + 2C_5R_3R_4R_5g_m + 2C_5R_3R_4R_5}}{C_4C_5R_3R_4R_5}}$$

$$K-LP \colon \frac{R_3R_4(R_5g_m - 1)}{2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_4}}{C_4C_5R_3R_4R_5g_m + 2C_5R_3R_4R_5}}$$

$$K-HP \colon 0$$

$$K-BP \colon -\frac{C_5R_3R_4R_5}{2C_4R_3R_4R_5g_m + 2C_4R_3R_4 + 2C_5R_3R_4R_5g_m + 2C_5R_3R_5 + C_5R_4R_5}}{C_4C_5R_3R_4R_5g_m + 2C_5R_3R_4R_5}}$$

$$Qz \colon 0$$

$$Wz \colon None$$

8.6 INVALID-NUMER-6 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

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

Parameters:

Q:
$$\frac{\sqrt{2}C_4C_5R_3R_4\sqrt{\frac{g_m(2R_3+R_4)}{C_4C_5R_3R_4(R_5g_m+1)}}(R_5g_m+1)}{\frac{2C_4R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3R_5g_m+2C_5R_3+C_5R_4R_5g_m+C_5R_4}{2C_4C_5R_3R_4(R_5g_m+1)}}$$
 wo:
$$\frac{\sqrt{2}\sqrt{\frac{g_m(2R_3+R_4)}{C_4C_5R_3R_4(R_5g_m+1)}}}{\frac{2}{2}}$$
 bandwidth:
$$\frac{2C_4R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3R_5g_m+2C_5R_3+C_5R_4R_5g_m+C_5R_4}{2C_4C_5R_3R_4(R_5g_m+1)}$$
 K-LP:
$$\frac{R_3R_4}{2R_3+R_4}$$
 K-HP:
$$0$$
 K-BP:
$$\frac{C_5R_3R_4(R_5g_m-1)}{2C_4R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3R_5g_m+2C_5R_3+C_5R_4R_5g_m+C_5R_4}{2C_4C_5R_3R_4g_m+2C_5R_3R_5g_m+2C_5R_3+C_5R_4R_5g_m+C_5R_4}$$
 Qz:
$$0$$
 Wz: None

8.7 INVALID-NUMER-7 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 s + g_m \right)}{C_3 C_5 R_4 s^2 + C_3 R_4 g_m s + 2C_5 R_4 g_m s + 2C_5 s + 2g_m}$$

Parameters:

Q:
$$\frac{\sqrt{2}C_3C_5R_4\sqrt{\frac{g_m}{C_3C_5R_4}}}{C_3R_4g_m+2C_5R_4g_m+2C_5}$$
 wo:
$$\sqrt{2}\sqrt{\frac{g_m}{C_3C_5R_4}}$$
 bandwidth:
$$\frac{C_3R_4g_m+2C_5R_4g_m+2C_5}{C_3C_5R_4}$$
 K-LP:
$$\frac{R_4}{2}$$
 K-HP:
$$0$$
 K-BP:
$$-\frac{C_5R_4}{C_3R_4g_m+2C_5R_4g_m+2C_5}$$
 Qz:
$$0$$
 Wz: None

8.8 INVALID-NUMER-8 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 R_5 s + R_5 g_m - 1 \right)}{C_3 C_5 R_4 R_5 s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_5 s + 2 R_4 g_m + 2 R_5 g_m + 2}$$

```
Q: \frac{\sqrt{2}C_{3}C_{5}R_{4}R_{5}\sqrt{\frac{R_{4}g_{m}+R_{5}g_{m}+1}{C_{3}C_{5}R_{4}R_{5}}}}{C_{3}R_{4}R_{5}g_{m}+C_{3}R_{4}+2C_{5}R_{4}R_{5}g_{m}+2C_{5}R_{5}}} wo: \sqrt{2}\sqrt{\frac{R_{4}g_{m}+R_{5}g_{m}+1}{C_{3}C_{5}R_{4}R_{5}}} bandwidth: \frac{C_{3}R_{4}R_{5}g_{m}+C_{3}R_{4}+2C_{5}R_{4}R_{5}g_{m}+2C_{5}R_{5}}{C_{3}C_{5}R_{4}R_{5}} K-LP: \frac{R_{4}(R_{5}g_{m}-1)}{2(R_{4}g_{m}+R_{5}g_{m}+1)} K-HP: 0 K-BP: -\frac{C_{5}R_{4}R_{5}}{C_{3}R_{4}R_{5}g_{m}+C_{3}R_{4}+2C_{5}R_{4}R_{5}g_{m}+2C_{5}R_{5}} Qz: 0 Wz: None
```

8.9 INVALID-NUMER-9 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 s^2 + C_3 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 R_5 g_m s + 2 C_5 s + 2 g_m r^2}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_3C_5R_4\sqrt{\frac{g_m}{C_3C_5R_4(R_5g_m+1)}}(R_5g_m+1)}{C_3R_4g_m+2C_5R_4g_m+2C_5R_5g_m+2C_5}\\ \text{wo:} \ \sqrt{2}\sqrt{\frac{g_m}{C_3C_5R_4(R_5g_m+1)}}\\ \text{bandwidth:} \ \frac{C_3R_4g_m+2C_5R_4g_m+2C_5R_5g_m+2C_5}{C_3C_5R_4(R_5g_m+1)}\\ \text{K-LP:} \ \frac{R_4}{2}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{C_5R_4(R_5g_m-1)}{C_3R_4g_m+2C_5R_4g_m+2C_5R_5g_m+2C_5}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_5s + R_5g_m - 1}{C_3C_5R_5s^2 + C_3R_5g_ms + C_3s + 2C_4C_5R_5s^2 + 2C_4R_5g_ms + 2C_4s + 2C_5R_5g_ms + 2g_m}$$

Parameters:

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

8.11 INVALID-NUMER-11 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

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

$$\begin{array}{l} \text{Q: } \frac{\sqrt{2}C_5R_4\sqrt{\frac{g_m}{C_5R_4(C_3+2C_4)}}(C_3+2C_4)}{C_3R_4g_m+2C_4R_4g_m+2C_5R_4g_m+2C_5}\\ \text{wo: } \sqrt{2}\sqrt{\frac{g_m}{C_5R_4(C_3+2C_4)}}\\ \text{bandwidth: } \frac{C_3R_4g_m+2C_4R_4g_m+2C_5R_4g_m+2C_5}{C_5R_4(C_3+2C_4)}\\ \text{K-LP: } \frac{R_4}{2}\\ \text{K-HP: 0}\\ \text{K-BP: } -\frac{C_5R_4}{C_3R_4g_m+2C_4R_4g_m+2C_5R_4g_m+2C_5}\\ \text{Qz: 0} \end{array}$$

8.12 INVALID-NUMER-12 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 R_5 s + R_5 g_m - 1 \right)}{C_3 C_5 R_4 R_5 s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 C_4 C_5 R_4 R_5 s^2 + 2 C_4 R_4 R_5 g_m s + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_5 s + 2 R_4 g_m + 2 R_5 g_m + 2 C_5 R_5 s + 2 R_5 g_m + 2 C_5 R_5 g_m + 2 C_5$$

Parameters:

8.13 INVALID-NUMER-13 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 s^2 + C_3 R_4 g_m s + 2 C_4 C_5 R_4 R_5 g_m s^2 + 2 C_4 C_5 R_4 s^2 + 2 C_4 R_4 g_m s + 2 C_5 R_5 g_m s + 2 C_5 s + 2 g_m r^2}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_5R_4\sqrt{\frac{g_m}{C_5R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{C_3R_4g_m+2C_4R_4g_m+2C_5R_4g_m+2C_5R_5g_m+2C_5}\\ \text{wo:} \ \sqrt{2}\sqrt{\frac{g_m}{C_5R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}}\\ \text{bandwidth:} \ \frac{G_3R_4g_m+2C_4R_4g_m+2C_5R_4g_m+2C_5R_5g_m+2C_5}{C_5R_4(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}\\ \text{K-LP:} \ \frac{R_4}{2}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{C_5R_4(R_5g_m-1)}{C_3R_4g_m+2C_4R_4g_m+2C_5R_4g_m+2C_5R_5g_m+2C_5}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

8.14 INVALID-NUMER-14 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{\left(R_5 g_m - 1\right) \left(C_4 R_4 s + 1\right)}{C_3 C_4 R_4 R_5 g_m s^2 + C_3 C_4 R_4 s^2 + C_3 R_5 g_m s + C_3 s + 2 C_4 R_4 g_m s + 2 C_4 R_5 g_m s + 2 C_4 s + 2 g_m}$$

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_3C_4R_4\sqrt{\frac{g_m}{C_3C_4R_4(R_5g_m+1)}}(R_5g_m+1)}{C_3R_5g_m+C_3+2C_4R_4g_m+2C_4R_5g_m+2C_4} \\ \text{wo:} \ \sqrt{2}\sqrt{\frac{g_m}{C_3C_4R_4(R_5g_m+1)}} \\ \text{bandwidth:} \ \frac{C_3R_5g_m+C_3+2C_4R_4g_m+2C_4R_5g_m+2C_4}{C_3C_4R_4(R_5g_m+1)} \\ \text{K-LP:} \ \frac{R_5g_m-1}{2g_m} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_4R_4(R_5g_m-1)}{C_3R_5g_m+C_3+2C_4R_4g_m+2C_4R_5g_m+2C_4} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.15 INVALID-NUMER-15 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{1}{C_5 s}, \infty\right)$

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

Parameters:

8.16 INVALID-NUMER-16 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(-C_5R_5s + R_5g_m - 1\right)}{C_3C_5R_3R_4R_5s^2 + C_3R_3R_4R_5g_ms + C_3R_3R_4s + 2C_5R_3R_4R_5g_ms + 2C_5R_3R_5s + C_5R_4R_5s + 2R_3R_4g_m + 2R_3R_5g_m + 2R_3 + R_4R_5g_m + R_5g_m + R_5$$

Parameters:

Q:
$$\frac{C_3C_5R_3R_4R_5\sqrt{\frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{C_3C_5R_3R_4R_5}}}{C_3C_5R_3R_4R_5g_m+2C_5R_3R_5+C_5R_4R_5}$$
 wo:
$$\sqrt{\frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{C_3C_5R_3R_4R_5}}$$
 bandwidth:
$$\frac{C_3R_3R_4g_m+2R_3R_5g_m+C_3R_3R_4+2C_5R_3R_4R_5g_m+2C_5R_3R_5+C_5R_4R_5}{C_3C_5R_3R_4R_5}$$
 K-LP:
$$\frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}$$
 K-HP: 0 K-BP:
$$-\frac{C_5R_3R_4R_5}{C_3R_3R_4R_5g_m+C_3R_3R_4+2C_5R_3R_4R_5}$$
 Qz: 0 Wz: None

8.17 INVALID-NUMER-17 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

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

Parameters:

Q:
$$\frac{C_3C_5R_3R_4\sqrt{\frac{g_m(2R_3+R_4)}{C_3C_5R_3R_4(R_5g_m+1)}}(R_5g_m+1)}{C_3R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3R_5g_m+2C_5R_3+C_5R_4R_5g_m+C_5R_4}$$
 wo:
$$\sqrt{\frac{g_m(2R_3+R_4)}{C_3C_5R_3R_4(R_5g_m+1)}}$$
 bandwidth:
$$\frac{C_3R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3R_5g_m+2C_5R_3+C_5R_4R_5g_m+C_5R_4}{C_3C_5R_3R_4(R_5g_m+1)}$$
 K-LP:
$$\frac{R_3R_4}{2R_3+R_4}$$
 K-HP:
$$0$$
 K-BP:
$$\frac{C_5R_3R_4(R_5g_m-1)}{C_3R_3R_4g_m+2C_5R_3R_4g_m+2C_5R_3R_5g_m+2C_5R_3+C_5R_4R_5g_m+C_5R_4}$$
 Qz:
$$0$$
 Wz: None

8.18 INVALID-NUMER-18 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

Q:
$$\frac{C_5R_3\sqrt{\frac{g_m}{C_5R_3(C_3+2C_4)}}(C_3+2C_4)}{C_3R_3g_m+2C_4R_3g_m+2C_5R_3g_m+C_5}$$

```
wo: \sqrt{\frac{g_m}{C_5R_3(C_3+2C_4)}} bandwidth: \frac{C_3R_3g_m+2C_4R_3g_m+2C_5R_3g_m+C_5}{C_5R_3(C_3+2C_4)} K-LP: R_3 K-HP: 0 K-BP: -\frac{C_5R_3}{C_3R_3g_m+2C_4R_3g_m+2C_5R_3g_m+C_5} Qz: 0 Wz: None
```

8.19 INVALID-NUMER-19 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{R_3 \left(-C_5 R_5 s + R_5 g_m - 1 \right)}{C_3 C_5 R_3 R_5 s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + 2 C_4 C_5 R_3 R_5 s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 s + 2 C_5 R_3 R_5 g_m s + C_5 R_5 s + 2 R_3 g_m + R_5 g_m + 1}$$

Parameters:

8.20 INVALID-NUMER-20 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 R_3 g_m s + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 s^2 + 2 C_4 R_3 g_m s + 2 C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + g_m r^2 + 2 C_4 R_3 r^2 + 2 C_4 R_3$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_5R_3\sqrt{\frac{g_m}{C_5R_3(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}}(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}{C_3R_3g_m+2C_4R_3g_m+2C_5R_3g_m+C_5R_5g_m+C_5} \\ \text{Wo:} \ \sqrt{\frac{g_m}{C_5R_3(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)}} \\ \text{bandwidth:} \ \frac{G_3R_3g_m+2C_4R_3g_m+2C_5R_3g_m+C_5R_5g_m+C_5}{C_5R_3(C_3R_5g_m+C_3+2C_4R_5g_m+2C_4)} \\ \text{K-LP:} \ R_3 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_5R_3(R_5g_m-1)}{C_3R_3g_m+2C_4R_3g_m+2C_5R_3g_m+C_5R_5g_m+C_5} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.21 INVALID-NUMER-21 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 R_4 \left(-C_5 s + g_m\right)}{C_3 C_5 R_3 R_4 s^2 + C_3 R_3 R_4 g_m s + 2 C_4 C_5 R_3 R_4 s^2 + 2 C_4 R_3 R_4 g_m s + 2 C_5 R_5 R_5 g_m s + 2 C_5 R$$

8.22 INVALID-NUMER-22
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{R_3 R_4 \left(-C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 R_3 R_4 R_5 s^2 + C_3 R_3 R_4 R_5 g_m s + C_3 R_3 R_4 R_5 s^2 + 2 C_4 R_3 R_4 R_5 g_m s + 2 C_4 R_3 R_4 R_5 g_m s + 2 C_5 R_3 R_4 R_5 g_m s + 2 C_5 R_3 R_5 s + C_5 R_4 R_5 s + 2 R_3 R_4 g_m + 2 R_3 R_5 g_m + 2 R_5 R_5 g_m + 2 R_5$$

Q: $\frac{C_5R_3R_4R_5\sqrt{\frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{C_5R_3R_4R_5(C_3+2C_4)}}}{C_3R_3R_4R_5g_m+C_3R_3R_4+2C_4R_3R_4R_5g_m+2C_4}(C_3+2C_4)}$ wo: $\sqrt{\frac{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}{C_5R_3R_4R_5(C_3+2C_4)}}$ bandwidth: $\frac{C_3R_3R_4R_5g_m+C_3R_3R_4+2C_4R_3R_4R_5g_m+2C_4R_3R_4+2C_5R_3R_4R_5g_m+2C_5R_3R_5+C_5R_4R_5}{C_5R_3R_4R_5(C_3+2C_4)}$ K-LP: $\frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4}$ K-HP: 0 K-BP: $-\frac{C_5R_3R_4R_5}{C_3R_3R_4R_5g_m+2C_4R_3R_4+2C_5R_3R_4R_5g_m+2C_5R_3R_5+C_5R_4R_5}{C_5R_3R_4R_5g_m+2C_5R_3R_4R_5g_m+2C_5R_3R_5+C_5R_4R_5}}$ Qz: 0 Wz: None

8.23 INVALID-NUMER-23 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

Parameters:

8.24 INVALID-NUMER-24 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

Parameters:

8.25 INVALID-NUMER-25 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \infty\right)$

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

Parameters:

Q: $\frac{2C_3C_4R_3\sqrt{\frac{g_m}{C_3C_4R_3(R_5g_m+1)}}(R_5g_m+1)}{2C_3R_3g_m+C_3R_5g_m+C_3+2C_4R_5g_m+2C_4}$

wo:
$$\sqrt{\frac{g_m}{C_3C_4R_3(R_5g_m+1)}}$$
 bandwidth: $\frac{2C_3R_3g_m+C_3R_5g_m+C_3+2C_4R_5g_m+2C_4}{2C_3C_4R_3(R_5g_m+1)}$ K-LP: $\frac{R_5g_m-1}{2g_m}$ K-HP: 0 K-BP: $\frac{C_3R_3(R_5g_m-1)}{2C_3R_3g_m+C_3R_5g_m+C_3+2C_4R_5g_m+2C_4}$ Qz: 0 Wz: None

8.26 INVALID-NUMER-26 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

Parameters:

Q:
$$\frac{2C_3C_4R_3R_4\sqrt{\frac{R_4g_m+R_5g_m+1}{C_3C_4R_3R_4(R_5g_m+1)}}(R_5g_m+1)}{2C_3R_3R_4g_m+2C_3R_3R_5g_m+2C_3R_3+C_3R_4R_5g_m+C_3R_4+2C_4R_4R_5g_m+2C_4R_4}$$
 wo:
$$\sqrt{\frac{R_4g_m+R_5g_m+1}{C_3C_4R_3R_4(R_5g_m+1)}}$$
 bandwidth:
$$\frac{2C_3R_3R_4g_m+2C_3R_3R_5g_m+2C_3R_3+C_3R_4R_5g_m+C_3R_4+2C_4R_4R_5g_m+2C_4R_4}{2C_3C_4R_3R_4(R_5g_m+1)}$$
 K-LP:
$$\frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)}$$
 K-HP:
$$0$$
 K-BP:
$$\frac{C_3R_3R_4(R_5g_m-1)}{2C_3R_3R_4g_m+2C_3R_3R_5g_m+2C_3R_3+C_3R_4R_5g_m+C_3R_4+2C_4R_4R_5g_m+2C_4R_4}{2C_3R_3R_4g_m+2C_3R_3R_5g_m+2C_3R_3+C_3R_4R_5g_m+C_3R_4+2C_4R_4R_5g_m+2C_4R_4}$$
 Qz:
$$0$$
 Wz: None

9 INVALID-WZ

9.1 INVALID-WZ-1 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_4C_5\sqrt{\frac{g_m}{C_4C_5(2R_3R_4g_m+2R_3+R_4)}}(2R_3R_4g_m+2R_3+R_4)}{2C_4R_3g_m+C_4R_4g_m+2C_5R_3g_m+C_5} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_4C_5(2R_3R_4g_m+2R_3+R_4)}} \\ & \text{bandwidth:} \ \frac{2C_4R_3g_m+C_4R_4g_m+2C_5R_3g_m+C_5}{C_4C_5(2R_3R_4g_m+2R_3+R_4)} \\ & \text{K-LP:} \ R_3 \\ & \text{K-HP:} \ -\frac{R_3R_4}{2R_3R_4g_m+2R_3+R_4} \\ & \text{K-BP:} \ \frac{R_3(C_4R_4g_m-C_5)}{2C_4R_3g_m+C_4R_4g_m+2C_5R_3g_m+C_5} \\ & \text{Qz:} \ -\frac{C_4C_5R_4\sqrt{\frac{g_m}{C_4C_5(2R_3R_4g_m+2R_3+R_4)}}}{C_4R_4g_m-C_5} \\ & \text{Wz:} \ \sqrt{-\frac{g_m}{C_4C_5R_4}} \end{aligned}$$

9.2 INVALID-WZ-2 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

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

Q:
$$\frac{C_4C_5R_5\sqrt{\frac{2R_3g_m+R_5g_m+1}{C_4C_5R_5(2R_3R_4g_m+2R_3+R_4)}}(2R_3R_4g_m+2R_3+R_4)}{2C_4R_3R_4g_m+2C_4R_3R_5g_m+2C_4R_3+C_4R_4R_5g_m+C_4R_4+2C_5R_3R_5g_m+C_5R_5}$$
 wo:
$$\sqrt{\frac{2R_3g_m+R_5g_m+1}{C_4C_5R_5(2R_3R_4g_m+2R_3+R_4)}}$$
 bandwidth:
$$\frac{2C_4R_3R_4g_m+2C_4R_3R_5g_m+2C_4R_3+C_4R_4R_5g_m+C_4R_4+2C_5R_3R_5g_m+C_5R_5}{C_4C_5R_5(2R_3R_4g_m+2R_3+R_4)}$$

$$\begin{aligned} & \text{K-LP: } \frac{R_3(R_5g_m-1)}{2R_3g_m+R_5g_m+1} \\ & \text{K-HP: } -\frac{R_3R_4}{2R_3R_4g_m+2R_3+R_4} \\ & \text{K-BP: } \frac{R_3(C_4R_4R_5g_m-C_4R_4-C_5R_5)}{2C_4R_3R_4g_m+2C_4R_3R_5g_m+2C_4R_3+C_4R_4R_5g_m+C_4R_4+2C_5R_3R_5g_m+C_5R_5} \\ & \text{Qz: } \frac{C_4C_5R_4R_5\sqrt{\frac{2R_3g_m+R_5g_m+1}{C_4C_5R_5(2R_3R_4g_m+2R_3+R_4)}}}{-C_4R_4R_5g_m+C_4R_4+C_5R_5} \\ & \text{Wz: } \sqrt{\frac{-R_5g_m+1}{C_4C_5R_4R_5}} \end{aligned}$$

9.3 INVALID-WZ-3 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

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

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_4C_5\sqrt{\frac{g_m}{C_4C_5(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}}(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}{2C_4R_3g_m+C_4R_4g_m+2C_5R_3g_m+C_5R_5g_m+C_5} \\ & \text{Wo:} \ \sqrt{\frac{g_m}{C_4C_5(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}} \\ & \text{bandwidth:} \ \frac{2C_4R_3g_m+C_4R_4g_m+2C_5R_3g_m+C_5R_5g_m+C_5}{C_4C_5(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)} \\ & \text{K-LP:} \ R_3 \\ & \text{K-HP:} \ \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4} \\ & \text{K-BP:} \ \frac{R_3(C_4R_4g_m+C_5R_5g_m-C_5)}{2C_4R_3g_m+C_4R_4g_m+2C_5R_3g_m+C_5R_5g_m+C_5} \\ & \text{Qz:} \ \frac{C_4C_5R_4\sqrt{\frac{g_m}{C_4C_5(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}(R_5g_m-1)}{C_4R_4g_m+C_5R_5g_m-C_5} \\ & \text{Wz:} \ \sqrt{\frac{g_m}{C_4C_5R_4(R_5g_m-1)}} \end{aligned}$$

9.4 INVALID-WZ-4 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = -\frac{R_4 (C_5 s - g_m) (C_3 R_3 s + 1)}{2C_3 C_5 R_3 R_4 g_m s^2 + 2C_3 C_5 R_3 s^2 + C_3 C_5 R_4 s^2 + 2C_3 R_3 g_m s + C_3 R_4 g_m s + 2C_5 R_4 g_m s + 2C_5 s + 2g_m}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_3C_5\sqrt{\frac{g_m}{C_3C_5(2R_3R_4g_m+2R_3+R_4)}}(2R_3R_4g_m+2R_3+R_4)}{2C_3R_3g_m+C_3R_4g_m+2C_5R_4g_m+2C_5}\\ \text{wo:} \ \sqrt{2}\sqrt{\frac{g_m}{C_3C_5(2R_3R_4g_m+2R_3+R_4)}}\\ \text{bandwidth:} \ \frac{2C_3R_3g_m+C_3R_4g_m+2C_5R_4g_m+2C_5}{C_3C_5(2R_3R_4g_m+2R_3+R_4)}\\ \text{K--LP:} \ \frac{R_4}{2}\\ \text{K--HP:} \ -\frac{R_3R_4}{2R_3R_4g_m+2R_3+R_4}\\ \text{K--BP:} \ \frac{R_4(C_3R_3g_m-C_5)}{2C_3R_3g_m+C_3R_4g_m+2C_5R_4g_m+2C_5}\\ \text{Qz:} \ -\frac{\sqrt{2}C_3C_5(2R_3R_4g_m+2R_3+R_4)}{C_3R_3g_m-C_5}\\ \text{Wz:} \ \sqrt{-\frac{g_m}{C_3C_5R_3}} \end{array}$$

9.5 INVALID-WZ-5 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{R_4 \left(C_3 R_3 s+1\right) \left(C_5 R_5 s-R_5 g_m+1\right)}{2 C_3 C_5 R_3 R_4 R_5 g_m s^2+2 C_3 C_5 R_3 R_5 s^2+C_3 C_5 R_4 R_5 s^2+2 C_3 R_3 R_4 g_m s+2 C_3 R_3 R_5 g_m s+2 C_3 R_3 R_5 g_m s+2 C_5 R_4 R_5 g_m s+2 C_5 R_5 g_m$$

$$\begin{array}{l} \text{Q:} \ \, \frac{\sqrt{2}C_3C_5R_5\sqrt{\frac{R_4g_m+R_5g_m+1}{C_3C_5R_5(2R_3R_4g_m+2R_3+R_4)}}(2R_3R_4g_m+2R_3+R_4)}{2C_3R_3R_4g_m+2C_3R_3R_5g_m+2C_3R_3+C_3R_4R_5g_m+2C_5R_4R_5g_m+2C_5R_5}\\ \text{wo:} \ \, \sqrt{2}\sqrt{\frac{R_4g_m+R_5g_m+1}{C_3C_5R_5(2R_3R_4g_m+2R_3+R_4)}}\\ \text{bandwidth:} \ \, \frac{2C_3R_3R_4g_m+2C_3R_3R_5g_m+2C_3R_3+C_3R_4R_5g_m+C_3R_4+2C_5R_4R_5g_m+2C_5R_5}{C_3C_5R_5(2R_3R_4g_m+2R_3+R_4)}\\ \text{K-LP:} \ \, \frac{R_4(R_5g_m-1)}{2(R_4g_m+R_5g_m+1)}\\ \text{K-HP:} \ \, -\frac{R_3R_4}{2R_3R_4g_m+2R_3+R_4}\\ \text{K-BP:} \ \, \frac{R_4(C_3R_3R_5g_m-C_3R_3-C_5R_5)}{2C_3R_3R_4g_m+2C_3R_3R_5g_m+2C_3R_3+C_3R_4R_5g_m+C_3R_4+2C_5R_4R_5g_m+2C_5R_5}\\ \end{array}$$

Qz:
$$\frac{\sqrt{2}C_{3}C_{5}R_{3}R_{5}\sqrt{\frac{R_{4}g_{m}+R_{5}g_{m}+1}{C_{3}C_{5}R_{5}(2R_{3}R_{4}g_{m}+2R_{3}+R_{4})}}}{-C_{3}R_{3}R_{5}g_{m}+C_{3}R_{3}+C_{5}R_{5}}$$
Wz:
$$\sqrt{\frac{-R_{5}g_{m}+1}{C_{3}C_{5}R_{3}R_{5}}}$$

9.6 INVALID-WZ-6 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_3 R_3 s + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 s^2 + C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 s^2 + 2 C_3 R_3 g_m s + C_3 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 R_5 g_m s + 2 C_5 s + 2 g_m r^2}$$

Parameters:

$$\begin{array}{l} \text{Q:} & \frac{\sqrt{2}C_{3}C_{5}\sqrt{\frac{g_{m}}{C_{3}C_{5}(2R_{3}R_{4}g_{m}+2R_{3}R_{5}g_{m}+2R_{3}+R_{4}R_{5}g_{m}+R_{4})}}{2C_{3}R_{3}g_{m}+2R_{3}R_{4}g_{m}+2C_{5}R_{4}g_{m}+2C_{5}R_{5}g_{m}+2C_{5}}}\\ \text{Wo:} & \sqrt{2}\sqrt{\frac{g_{m}}{C_{3}C_{5}(2R_{3}R_{4}g_{m}+2R_{3}R_{5}g_{m}+2R_{3}+R_{4}R_{5}g_{m}+R_{4})}}\\ \text{bandwidth:} & \frac{2C_{3}R_{3}g_{m}+C_{3}R_{4}g_{m}+2C_{5}R_{4}g_{m}+2C_{5}R_{5}g_{m}+2C_{5}}{C_{3}C_{5}(2R_{3}R_{4}g_{m}+2R_{3}R_{5}g_{m}+2R_{3}+R_{4}R_{5}g_{m}+R_{4})}\\ \text{K-LP:} & \frac{R_{4}}{2}\\ \text{K-HP:} & \frac{R_{3}R_{4}(R_{5}g_{m}-1)}{2R_{3}R_{4}g_{m}+2R_{3}R_{5}g_{m}+2R_{3}+R_{4}R_{5}g_{m}+R_{4}}\\ \text{K-BP:} & \frac{R_{4}(C_{3}R_{3}g_{m}+C_{5}R_{5}g_{m}-C_{5})}{2C_{3}R_{3}g_{m}+C_{3}R_{4}g_{m}+2C_{5}R_{4}g_{m}+2C_{5}R_{5}g_{m}+2C_{5}}\\ \text{Qz:} & \frac{\sqrt{2}C_{3}C_{5}R_{3}\sqrt{\frac{g_{m}}{C_{3}C_{5}(2R_{3}R_{4}g_{m}+2R_{3}R_{5}g_{m}+2R_{3}+R_{4}R_{5}g_{m}+R_{4})}}{C_{3}R_{3}g_{m}+C_{5}R_{5}g_{m}-C_{5}}\\ \text{Wz:} & \sqrt{\frac{g_{m}}{C_{3}C_{5}R_{3}(R_{5}g_{m}-1)}} \end{array}$$

9.7 INVALID-WZ-7 $Z(s) = \left(\infty, \ \infty, \ R_3 + \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ R_5, \ \infty\right)$

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

Parameters:

$$\begin{array}{l} \text{Q:} & \frac{\sqrt{2}C_3C_4\sqrt{\frac{g_m}{C_3C_4(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}}(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}{2C_3R_3g_m+C_3R_5g_m+C_3+2C_4R_4g_m+2C_4R_5g_m+2C_4}\\ \text{wo:} & \sqrt{2}\sqrt{\frac{g_m}{C_3C_4(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}}\\ \text{bandwidth:} & \frac{2C_3R_3g_m+C_3R_5g_m+C_3+2C_4R_4g_m+2C_4R_5g_m+2C_4}{C_3C_4(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}\\ \text{K-LP:} & \frac{R_5g_m-1}{2g_m}\\ \text{K-HP:} & \frac{R_3R_4(R_5g_m-1)}{2R_3R_4g_m+2R_3R_5g_m+C_3+2C_4R_4g_m+2C_4R_5g_m+2C_4}\\ \text{K-BP:} & \frac{C_3R_3R_5g_m-C_3R_3+C_4R_4R_5g_m-C_4R_4}{2C_3R_3g_m+C_3R_5g_m+C_3+2C_4R_4g_m+2C_4R_5g_m+2C_4}\\ \text{Qz:} & \frac{\sqrt{2}C_3C_4R_3R_4}{C_3C_4(2R_3R_4g_m+2R_3R_5g_m+2R_3+R_4R_5g_m+R_4)}\\ \text{Wz:} & \sqrt{\frac{1}{C_3C_4R_3R_4}} \end{array}$$

10 INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (\infty, \infty, R_3, R_4, R_5, \infty)$

$$H(s) = \frac{R_3 R_4 (R_5 g_m - 1)}{2R_3 R_4 g_m + 2R_3 R_5 g_m + 2R_3 + R_4 R_5 g_m + R_4}$$

10.2 INVALID-ORDER-2
$$Z(s) = \left(\infty, \infty, R_3, R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 R_4 \left(-C_5 s + g_m\right)}{2 C_5 R_3 R_4 g_m s + 2 C_5 R_3 s + C_5 R_4 s + 2 R_3 g_m + R_4 g_m}$$

10.3 INVALID-ORDER-3
$$Z(s) = \left(\infty, \infty, R_3, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_3 R_4 \left(-C_5 R_5 s + R_5 g_m - 1 \right)}{2 C_5 R_3 R_4 R_5 g_m s + 2 C_5 R_3 R_5 s + C_5 R_4 R_5 s + 2 R_3 R_4 g_m + 2 R_3 R_5 g_m + 2 R_3 + R_4 R_5 g_m + R_4}$$

10.4 INVALID-ORDER-4
$$Z(s) = \left(\infty, \infty, R_3, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 R_4 \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_5 R_3 R_4 g_m s + 2 C_5 R_3 R_5 g_m s + 2 C_5 R_3 s + C_5 R_4 R_5 g_m s + C_5 R_4 s + 2 R_3 g_m + R_4 g_m}$$

10.5 INVALID-ORDER-5
$$Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1)}{2C_4 R_3 R_5 g_m s + 2C_4 R_3 s + 2R_3 g_m + R_5 g_m + 1}$$

10.6 INVALID-ORDER-6
$$Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 C_4 C_5 L_5 R_3 g_m s^3 + 2 C_4 C_5 R_3 s^2 + 2 C_4 R_3 g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_3 g_m s + C_5 s + g_m}$$

10.7 INVALID-ORDER-7
$$Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_3 \left(-C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{2C_4 C_5 L_5 R_3 s^3 + 2C_4 L_5 R_3 g_m s^2 + 2C_4 R_3 s + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + 2R_3 g_m + 1}$$

10.8 INVALID-ORDER-8 $Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_4 C_5 L_5 R_3 q_m s^3 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 s^2 + 2 C_4 R_3 q_m s + C_5 L_5 q_m s^2 + 2 C_5 R_3 q_m s + C_5 R_5 q_m s + C_5 s + g_m r^2}$$

10.9 INVALID-ORDER-9 $Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{R_3 \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5 \right)}{2 C_4 C_5 L_5 R_3 R_5 s^3 + 2 C_4 L_5 R_3 R_5 g_m s^2 + 2 C_4 L_5 R_3 s^2 + 2 C_4 R_3 R_5 s + 2 C_5 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_3 g_m s + L_5 R_5 g_m$$

10.10 INVALID-ORDER-10 $Z(s) = \left(\infty, \infty, R_3, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{R_3 \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 g_m s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 s + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + 2 R_3 g_m + R_5 g_m + 1}$$

10.11 INVALID-ORDER-11
$$Z(s) = \left(\infty, \ \infty, \ R_3, \ \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = \frac{R_3 \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1 \right)}{2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 s + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + 2 C_5 R_3 R_5 g_m s + C_5 R_5 s + 2 R_3 g_m + R_5 g_m + 1}$$

10.12 INVALID-ORDER-12
$$Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$$

$$H(s) = \frac{R_3 R_4 (R_5 g_m - 1)}{2C_4 R_3 R_4 R_5 g_m s + 2C_4 R_3 R_4 s + 2R_3 R_4 g_m + 2R_3 R_5 g_m + 2R_3 + R_4 R_5 g_m + R_4}$$

10.13 INVALID-ORDER-13
$$Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

10.14 INVALID-ORDER-14
$$Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_3R_4\left(-C_5L_5s^2 + L_5g_ms - 1\right)}{2C_4C_5L_5R_3R_4s^3 + 2C_4L_5R_3R_4g_ms^2 + 2C_4R_3R_4s + 2C_5L_5R_3R_4g_ms^2 + 2C_5L_5R_3s^2 + C_5L_5R_4s^2 + 2L_5R_3g_ms + L_5R_4g_ms + 2R_3R_4g_m + 2R_3 + R_4g_ms^2\right)}$$

10.15 INVALID-ORDER-15
$$Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 R_4 \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_4 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_4 C_5 R_3 R_4 R_5 g_m s^2 + 2 C_4 R_3 R_4 g_m s + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_4 g_m s^2 + 2 C_5 R_3 R_4 g_m s + 2 C_5 R_3 R_5 g_m s + 2 C_5 R_3 R_5 g_m s + C_5 R_4 R_5 g_m s + C_5 R_5 R_5 g_m s$$

10.16 INVALID-ORDER-16
$$Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

$$H(s) = \frac{R_3R_4\left(-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5\right)}{2C_4C_5L_5R_3R_4R_5s^3 + 2C_4L_5R_3R_4R_5g_ms^2 + 2C_4L_5R_3R_4s^2 + 2C_4R_3R_4R_5s + 2C_5L_5R_3R_4s^2 + 2C_5L_5R_3R_5s^2 + C_5L_5R_3R_4g_ms + 2L_5R_3R_5g_ms + 2L_5R_3s + L_5R_4s + 2R_3R_4s +$$

10.17 INVALID-ORDER-17
$$Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{R_3R_4\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{2C_4C_5L_5R_3R_4R_5g_ms^3 + 2C_4C_5L_5R_3R_4g_ms^2 + 2C_4L_5R_3R_4g_ms^2 + 2C_4L_5R_3R_4g_ms^2 + 2C_5L_5R_3R_5g_ms^2 + 2C_5L_5R_3s^2 + C_5L_5R_4s^2 + 2L_5R_3g_ms + L_5R_4g_ms + 2R_3R_4g_m + 2R_3R_5g_m + 2R_3R_4g_ms^2 + 2C_5L_5R_3R_4g_ms^2 + 2C_5L_5R_4g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms$$

10.18 INVALID-ORDER-18
$$Z(s) = \left(\infty, \infty, R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{R_3R_4\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{2C_4C_5L_5R_3R_4R_5g_ms^3 + 2C_4C_5L_5R_3R_4s^3 + 2C_4C_5R_3R_4R_5s^2 + 2C_4R_3R_4R_5g_ms + 2C_5L_5R_3R_5g_ms^2 + 2C_5L_5R_3s^2 + C_5L_5R_3s^2 + C_5L_5R_4s^2 + 2C_5R_3R_4R_5g_ms + 2C_5R_3R_4s^2 + 2$$

10.19 INVALID-ORDER-19 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_4 R_4 s + 1)}{2C_4 R_3 R_4 g_m s + 2C_4 R_3 R_5 g_m s + 2C_4 R_3 s + C_4 R_4 R_5 g_m s + C_4 R_4 s + 2R_3 g_m + R_5 g_m + 1}$$

10.20 INVALID-ORDER-20
$$Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 \left(C_4 R_4 s + 1 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 C_4 C_5 L_5 R_3 g_m s^3 + C_4 C_5 L_5 R_4 g_m s^3 + 2 C_4 C_5 R_3 R_4 g_m s^2 + 2 C_4 C_5 R_3 s^2 + C_4 C_5 R_4 s^2 + 2 C_4 R_3 g_m s + C_4 R_4 g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_3 g_m s + C_5 s + g_m r^2}$$

10.21 INVALID-ORDER-21 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 R_4 s + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_4 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_5 R_3 s^3 + C_4 C_5 L_5 R_4 s^3 + 2 C_4 L_5 R_3 g_m s^2 + C_4 L_5 R_4 g_m s^2 + 2 C_4 R_3 R_4 g_m s + 2 C_4 R_3 s + C_4 R_4 s + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + 2 R_3 g_m + 1}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 R_4 s + 1 \right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_4 C_5 L_5 R_3 g_m s^3 + C_4 C_5 L_5 R_4 g_m s^3 + 2 C_4 C_5 R_3 R_4 g_m s^2 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 s^2 + C_4 C_5 R_4 R_5 g_m s^2 + 2 C_4 R_3 g_m s + C_4 R_4 g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_3 g_m s + C_5 R_5 g_m s + C_5$$

10.23 INVALID-ORDER-23 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 R_4 s + 1\right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{2 C_4 C_5 L_5 R_3 R_4 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 s^3 + C_4 C_5 L_5 R_4 R_5 s^3 + 2 C_4 L_5 R_3 R_5 g_m s^2 + 2 C_4 L_5 R_3 R_5 g_m s^2 + C_4 L_5 R_4 R_5 g_m s^2 + C_4 L_5 R_4 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + 2 C_5 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_5 g_m s + L_5 R_5 g$$

10.24 INVALID-ORDER-24 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 R_4 s + 1 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 C_4 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_4 R_5 g_m s^3 + C_4 C_5 L_5 R_4 R_5 g_m s^3 + C_4 C_5 L_5 R_4 R_5 g_m s^3 + C_4 C_5 L_5 R_4 g_m s^2 + C_4 L_5 R_4 g_m s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + C_4 R_4 R_5 g_m s + C_4 R_4 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5$$

10.25 INVALID-ORDER-25 $Z(s) = \left(\infty, \infty, R_3, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 R_4 s + 1\right) \left(-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m + 1\right)}{2 C_4 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 s^3 + C_4 C_5 L_5 R_4 R_5 g_m s^3 + 2 C_4 C_5 R_3 R_4 R_5 g_m s^3 + 2 C_4 C_5 R_3 R_4 R_5 g_m s^3 + 2 C_4 C_5 R_3 R_4 R_5 g_m s^3 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_5 R_5 g_m s^2 + C_5 L_5 R_5 g_$$

10.26 INVALID-ORDER-26 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_4 L_4 s^2 + 1)}{2C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_4 s^3 + 2C_4 C_5 R_3 s^2 + C_4 L_4 g_m s^2 + 2C_4 R_3 g_m s + 2C_5 R_3 g_m s + C_5 s + g_m}$$

10.27 INVALID-ORDER-27 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{2 C_4 C_5 L_4 R_3 R_5 g_m s^3 + C_4 C_5 L_4 R_5 s^3 + 2 C_4 C_5 R_3 R_5 s^2 + 2 C_4 L_4 R_3 g_m s^2 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_5 R_3 R_5 g_m s + C_5 R_5 s + 2 R_3 g_m + R_5 g_m + 1}$$

10.28 INVALID-ORDER-28 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_4 s^3 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 s^2 + C_4 L_4 g_m s^2 + 2 C_4 R_3 g_m s + 2 C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + g_m r^2}$$

10.29 INVALID-ORDER-29 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{C_4 C_5 L_4 L_5 g_m s^4 + 2 C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_4 s^3 + 2 C_4 C_5 L_5 R_3 g_m s^3 + 2 C_4 C_5 R_3 s^2 + C_4 L_4 g_m s^2 + 2 C_4 R_3 g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_3 g_m s + C_5 s + g_m r^2}$$

10.30 INVALID-ORDER-30 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + C_4 C_5 L_4 L_5 s^4 + 2 C_4 C_5 L_5 R_3 s^3 + C_4 L_4 L_5 g_m s^3 + 2 C_4 L_4 R_3 g_m s^2 + C_4 L_4 s^2 + 2 C_4 L_5 R_3 g_m s^2 + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + 2 R_3 g_m + 1}$$

10.31 INVALID-ORDER-31 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_4 C_5 L_4 L_5 g_m s^4 + 2 C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 g_m s^3 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 s^2 + 2 C_4 R_3 g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 R_$$

10.32 INVALID-ORDER-32 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{2 C_4 C_5 L_4 L_5 R_3 R_5 g_m s^4 + C_4 C_5 L_4 L_5 R_3 R_5 g_m s^3 + C_4 L_4 L_5 R_3 g_m s^2 + C_4 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_5 R_3 R_5 g_m s^2 + 2 C_4 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_5$$

10.33 INVALID-ORDER-33 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + C_4 C_5 L_4 L_5 s^4 + 2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_4 L_5 g_m s^3 + 2 C_4 L_4 R_3 g_m s^2 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 R_3 g_m s^2 + C_4 L_4 R_3 g_m s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_$$

10.34 INVALID-ORDER-34 $Z(s) = \left(\infty, \infty, R_3, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + 1\right) \left(-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m + 1\right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + C_4 C_5 L_4 L_5 s^4 + 2 C_4 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 s^2 + 2 C_4 L_4 R_5 g_m s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_$$

10.35 INVALID-ORDER-35 $Z(s) = \left(\infty, \infty, R_3, \frac{L_{4s}}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(-C_5 s + g_m\right)}{2 C_4 C_5 L_4 R_3 s^3 + 2 C_4 L_4 R_3 g_m s^2 + 2 C_5 L_4 R_3 g_m s^2 + C_5 L_4 s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m}$$

10.36 INVALID-ORDER-36 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(-C_5 R_5 s + R_5 g_m - 1\right)}{2 C_4 C_5 L_4 R_3 R_5 s^3 + 2 C_4 L_4 R_3 R_5 g_m s^2 + 2 C_5 L_4 R_3 R_5 g_m s^2 + C_5 L_4 R_5 s^2 + 2 C_5 R_3 R_5 s + 2 L_4 R_3 g_m s + L_4 R_5 g_m s + L_4 s + 2 R_3 R_5 g_m + 2 R_3 R_5 g_m s^2 + 2 C_5 R_3 R_5 s + 2 R_5 R_5 g_m s$$

10.37 INVALID-ORDER-37 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_4 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_4 R_3 g_m s^2 + 2 C_5 L_4 R_3 g_m s^2 + C_5 L_4 R_5 g_m s^2 + C_5 L_4 s^2 + 2 C_5 R_3 R_5 g_m s + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + C_5 R_3$$

10.38 INVALID-ORDER-38 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + 2 C_4 C_5 L_4 R_3 s^3 + 2 C_4 L_4 R_3 g_m s^2 + C_5 L_4 L_5 g_m s^3 + 2 C_5 L_4 R_3 g_m s^2 + C_5 L_4 s^2 + 2 C_5 L_5 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + C_5 R_3 g_m s^2 + C_$$

10.39 INVALID-ORDER-39 $Z(s) = \left(\infty, \infty, R_3, \frac{L_{4s}}{C_4L_4s^2+1}, \frac{L_{5s}}{C_5L_5s^2+1}, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{2 C_4 C_5 L_4 L_5 R_3 s^4 + 2 C_4 L_4 L_5 R_3 g_m s^3 + 2 C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_4 L_5 s^3 + 2 C_5 L_5 R_3 s^2 + L_4 L_5 g_m s^2 + 2 L_4 R_3 g_m s + L_4 s + 2 L_5 R_3 g_m s + 2 R_3 g_m s^3 + 2 C_5 L_5 R_3 s^2 + L_4 L_5 g_m s^2 + 2 L_4 R_3 g_m s + L_4 s + 2 L_5 R_3 g_m s + 2 R_3 g_m s + 2$$

10.40 INVALID-ORDER-40 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + 2 C_4 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_4 L_4 R_3 g_m s^2 + C_5 L_4 L_5 g_m s^3 + 2 C_5 L_4 R_3 g_m s^2 + C_5 L_4 R_5 g_m s^2 + C_5 L_4 R_5 g_m s^2 + C_5 L_4 R_5 g_m s^2 + 2 C_5 R_3 R_5 g_m s + 2 C_5 R_5 R_5$$

10.41 INVALID-ORDER-41 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{2 C_4 C_5 L_4 L_5 R_3 R_5 s^4 + 2 C_4 L_4 L_5 R_3 s^3 + 2 C_4 L_4 L_5 R_3 s^3 + 2 C_5 L_4 L_5 R_3 R_5 g_m s^3 + C_5 L_4 L_5 R_3 R_5 s^2 + 2 L_4 L_5 R_3 g_m s^2 + L_5 R_3 g_m s^2$$

10.42 INVALID-ORDER-42 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{2 C_4 C_5 L_4 L_5 R_3 R_5 g_m s^4 + 2 C_4 L_4 L_5 R_3 g_m s^3 + 2 C_4 L_4 R_3 R_5 g_m s^2 + 2 C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_5 R_5 g_m s^3 + C_5 L_5 R_$$

10.43 INVALID-ORDER-43 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{L_4 R_3 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1\right)}{2 C_4 C_5 L_4 L_5 R_3 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_3 s^4 + 2 C_4 C_5 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_4 R_3 R_5 g_m s^3 + C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_4 R_3 R_5 g_m s^3 + 2 C_5 L_5 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5$$

10.44 INVALID-ORDER-44 $Z(s) = \left(\infty, \infty, R_3, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

10.45 INVALID-ORDER-45 $Z(s) = \left(\infty, \infty, R_3, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{2 C_4 C_5 L_4 R_3 R_5 g_m s^3 + C_4 C_5 L_4 R_5 s^3 + 2 C_4 C_5 R_3 R_4 R_5 g_m s^2 + 2 C_4 C_5 R_3 R_5 s^2 + 2 C_4 L_4 R_5 g_m s^2 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + C_5 R_3 R_5 g_m s + C_5 R_5 s + 2 R_3 g_m + R_5 g_m + 1}{2 C_4 C_5 R_3 R_5 g_m s^3 + C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 R_3 R_5 g_m s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + C_5 R_5 R_5 g_m s + C_5$$

10.46 INVALID-ORDER-46 $Z(s) = \left(\infty, \infty, R_3, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1 \right) \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_4 s^3 + 2 C_4 C_5 R_3 R_4 g_m s^2 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_4 s^2 + C_4 C_5 R_4 s^2 + C_4 L_4 g_m s^2 + 2 C_4 R_3 g_m s + C_5 R_3 g_m s + C_5 R_5 g_$$

10.47 INVALID-ORDER-47 $Z(s) = \left(\infty, \ \infty, \ R_3, \ L_4s + R_4 + \frac{1}{C_4s}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{C_4 C_5 L_4 L_5 g_m s^4 + 2 C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_4 s^3 + 2 C_4 C_5 L_5 R_3 g_m s^3 + C_4 C_5 L_5 R_4 g_m s^3 + 2 C_4 C_5 R_3 R_4 g_m s^2 + 2 C_4 C_5 R_3 s^2 + C_4 C_5 R_4 s^2 + C_4 L_4 g_m s^2 + 2 C_4 R_3 g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_5 g_m s^2$$

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10.48 INVALID-ORDER-48 Z(s) = \left(\infty, \infty, R_3, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
```

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + C_4 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_5 R_3 s^3 + C_4 C_5 L_5 R_3 s^3 + C_4 L_4 L_5 g_m s^3 + 2 C_4 L_4 R_3 g_m s^2 + C_4 L_4 R_3 g_m s^2 + C_4 L_5 R_4 g_m s^2 + 2 C_4 R_3 R_4 g_m s + 2 C_4 R_3 s + C_4 R_4 s + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + 2 C_4 R_3 g_m s^2 + C_4 L_5 R_4 g_m s^2 + C_4 L_5 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^2 +$$

10.49 INVALID-ORDER-49 $Z(s) = \left(\infty, \infty, R_3, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1 \right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{C_4 C_5 L_4 L_5 g_m s^4 + 2 C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_5 R_3 g_m s^3 + C_4 C_5 L_5 R_3 g_m s^3 + 2 C_4 C_5 R_3 R_4 g_m s^2 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_5 g_m s^2 + 2 C_5 R_5 g_$$

10.50 INVALID-ORDER-50 $Z(s) = \left(\infty, \infty, R_3, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{2 C_4 C_5 L_4 L_5 R_3 R_5 g_m s^4 + C_4 C_5 L_4 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_4 L_5 R_3 g_m s^3 + 2 C_4 L_4 R_5 s^3 + 2 C_4 L_4 R_5 s^3 + 2 C_4 L_5 R_3 R_4 g_m s^2 + 2 C_4 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_5 R_5 g_m s^3 + 2$$

10.51 INVALID-ORDER-51 $Z(s) = \left(\infty, \infty, R_3, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + C_4 C_5 L_4 L_5 R_5 g_m s^4 + C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_4 R_5 g_m s^3 + 2 C_4 L_4 R_5 g_m s^3 + 2 C_4 L_5 R_3 g_m s^2 + C_4 L_4 R_5 g_m s^3 + 2 C_4 L_5 R_3 g_m s^3 + 2 C_4 L_5 R_5 g_$$

10.52 INVALID-ORDER-52 $Z(s) = \left(\infty, \ \infty, \ R_3, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right) \left(-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m s^2 + C_4 L_5 R_3 g_m s^4 + C_4 L_5 R_4 R_5 g_m s^4 + C_4 L_5 R_4 R_5 g_m s^3 + C_4 L_5 R_5 g_m s^3 +$$

10.53 INVALID-ORDER-53 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_4 R_3 R_4 s \left(-C_5 s + g_m\right)}{2 C_4 C_5 L_4 R_3 R_4 s^3 + 2 C_4 L_4 R_3 R_4 g_m s^2 + 2 C_5 L_4 R_3 R_4 g_m s^2 + 2 C_5 L_4 R_3 s^2 + C_5 L_4 R_4 s^2 + 2 C_5 R_3 R_4 s + 2 L_4 R_3 g_m s + L_4 R_4 g_m s + 2 R_3 R_4 g_m s^2 + 2 C_5 L_4 R_3 s^2 + C_5 L_4 R_3 s^2 + C_5 L_4 R_3 s^2 + 2 C_5 L_4 R_3 g_m s + L_4 R_4 g_m s + 2 R_3 R_4 g_m s^2 + 2 C_5 L_4 R_3 r_4 s^2 + 2 C_5 R_3 r_5 + 2 C_5 R_5 r$$

10.54 INVALID-ORDER-54 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

$$H(s) = \frac{L_4 R_3 R_4 s \left(-C_5 R_5 s + R_5 g_m - 1\right)}{2 C_4 C_5 L_4 R_3 R_4 R_5 s^3 + 2 C_4 L_4 R_3 R_4 R_5 g_m s^2 + 2 C_5 L_4 R_3 R_4 R_5 g_m s^2 + 2 C_5 L_4 R_3 R_4 R_5 s^2 + 2 C_5 L_4 R_3 R_4 R_5 s^2 + 2 C_5 R_3 R_4 R_5 s + 2 L_4 R_3 R_4 g_m s + 2 L_4 R_3 R_5 g_m s + L_4 R_4 R_5 g_m s + L_4 R$$

10.55 INVALID-ORDER-55 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_4 R_3 R_4 s \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_4 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_4 R_3 R_4 g_m s^2 + 2 C_5 L_4 R_3 R_4 g_m s^2 + 2 C_5 L_4 R_3 R_5 g_m s^2 + C_5 L_4 R_4 R_5 g_m s^2 + C_5 L_4 R_4 s^2 + 2 C_5 R_3 R_4 R_5 g_m s + 2 C_5 R_3 R_4 s + 2 L_4 R_3 g_m s + L_4 R_4 g_m s + 2 R_3 R_4 g_m s^2 + 2 C_5 L_4 R_5 g_m s^2 + 2 C_5 L_4 R_5 g_m s^2 + 2 C_5 L_4 R_5 g_m s^2 + 2$$

10.56 INVALID-ORDER-56 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_4 R_3 R_4 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{2 C_4 C_5 L_4 L_5 R_3 R_4 g_m s^4 + 2 C_4 C_5 L_4 R_3 R_4 s^3 + 2 C_4 L_4 R_3 R_4 g_m s^3 + C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_4 L_5 R_4 g_m s^3 + 2 C_5 L_4 R_3 s^2 + 2$$

10.57 INVALID-ORDER-57 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{L_4 R_3 R_4 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{2 C_4 C_5 L_4 L_5 R_3 R_4 s^4 + 2 C_4 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 s^3 + C_5 L_4 L_5 R_3 s^3 + C_5 L_4 L_5 R_3 g_m s^2 + L_4 L_5 R_3 g_m s^2 + L_4 L_5 R_4 g_m s^2 + 2 L_4 R_3 R_4 g_m s + 2 L_4 R_3 s + L_4 R_4 s + 2 L_5 R_3 R_4 g_m s + 2 R_3 R_4 g_m s^2 + 2 L_4 R_3 R_4 g_m s^2 + 2 L_4$

10.58 INVALID-ORDER-58 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{L_4 R_3 R_4 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_4 C_5 L_4 L_5 R_3 R_4 g_m s^4 + 2 C_4 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 L_5 L_4 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_4 L_5 R_3 g_m s^3 + 2 C_5 L_4 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_3 R_4 g_m s^2 + 2 C_5 L_5 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_5 R_$

10.59 INVALID-ORDER-59 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

 $L_4R_3R_4s\left(-C_5L_5R_5s^2+L_5R_5g_ms-L_5s-R_5\right)$

 $H(s) = \frac{L_4 K_3 K_4 s \left(-C_5 L_5 K_5 s^2 + L_5 K_5 g_m s - L_5 s - K_5\right)}{2 C_4 C_5 L_4 L_5 R_3 R_4 R_5 s^4 + 2 C_4 L_4 L_5 R_3 R_4 R_5 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 R_5 s^3 + 2 C_5 L_4 L_5 R_3 R_5 s^3 + 2 C_5 L_4 L_5 R_5 R_5 s^3 + 2 C_5 L_5 R_5 r_5$

10.60 INVALID-ORDER-60 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{L_5s}{C_5L_5s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{L_4 R_3 R_4 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{2 C_4 C_5 L_4 L_5 R_3 R_4 R_5 g_m s^4 + 2 C_4 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_4 L_4 R_3 R_4 s^2 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_5 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 R_$

10.61 INVALID-ORDER-61 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{L_4 R_3 R_4 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1\right)}{2 C_4 C_5 L_4 L_5 R_3 R_4 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_5 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_5 g_m s^3 + C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 R_3 R_4 R_5 g_m s^3 + 2 C_5 L_4 R_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 R_5 g_m$

10.62 INVALID-ORDER-62 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{1}{C_5s}, \infty\right)$

 $H(s) = -\frac{R_3 \left(C_5 s - g_m\right) \left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right)}{2 C_4 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_4 R_3 s^3 + C_4 C_5 L_4 R_4 s^3 + 2 C_4 L_4 R_3 g_m s^2 + C_4 L_4 R_3 g_m s^2 + C_5 L_4 R_3 g_m s^2 + C_5 L_4 s^2 + 2 C_5 R_3 R_4 g_m s + 2 C_5 R_3 s + C_5 R_4 s + L_4 g_m s + 2 R_3 g_m + R_4 g_m s^2 + C_5 R_4 s + R_4 g_m s^2 + C_5 R_5 g_m s^2 + C_5 R_5$

10.63 INVALID-ORDER-63 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $R_3 (C_5 R_5 s - R_5 g_m + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_4)$

10.64 INVALID-ORDER-64 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, R_5 + \frac{1}{C_5s}, \infty\right)$

10.65 INVALID-ORDER-65 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + \frac{1}{C_5s}, \infty\right)$

 $R_3 \left(C_4 L_4 R_4 s^2 + L_4 s + R_4 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)$

 $H(s) = \frac{R_3 \left(C_4 L_4 R_4 s^2 + L_4 s + R_4 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + C_4 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_4 R_3 s^3 + C_4 C_5 L_4 R_3 g_m s^2 + C_5 L_4 L_5 g_m s^3 + 2 C_5 L_4 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^$

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10.66 INVALID-ORDER-66 Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
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 $R_3 \left(C_5 L_5 s^2 - L_5 g_m s + 1 \right) \left(C_4 L_4 R_4 s^2 + L_4 s + R_4 \right)$ $H(s) = -\frac{R_3 \left(C_5 L_5 s^2 - L_5 g_m s + 1\right) \left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right)}{2 C_4 C_5 L_4 L_5 R_3 q_m s^4 + 2 C_4 C_5 L_4 L_5 R_3 g_m s^3 + C_4 L_4 L_5 R_3 g_m s^3 + C_4 L_4 R_3 s^2 + 2 C_4 L_4 R_3 s^2 + 2 C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_5 R_3 s^2 + 2 C_5 L_5 R_3 s^2 + C_5 L_5 R_5 r_5 + C_5 L$

10.67 INVALID-ORDER-67 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

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

10.68 INVALID-ORDER-68 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $R_3 \left(C_4 L_4 R_4 s^2 + L_4 s + R_4 \right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 \right)$ $\frac{163 \left(\sqrt{4} L_4 L_5 R_3 R_4 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_3 R_5 s^4 + C_4 C_5 L_4 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_4 R_5 R_5 g_m s^3 + 2 C_4 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3$

10.69 INVALID-ORDER-69 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

 $H(s) = \frac{1.63 \left(\sqrt{24} L_4 L_4 R_3}{2 C_4 C_5 L_4 L_5 R_3 R_4 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_3 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + 2 C_4 L_4 R_3 R_5 g_m s^3 + C_4 L_4 R_5 R_5 g_m s^3 + C_4 L_5 R_5 g_m s^3 + C_4 L_5 R_5 g_m s^3 + C_4 L_5 R_5 g_m s^3 + C_5 L_5 R_5$

10.70 INVALID-ORDER-70 $Z(s) = \left(\infty, \infty, R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $\frac{R_3 \left(C_4 L_4 R_4 S_5 + L_4 L_5 R_3 R_4 g_m S_5^4 + 2 C_4 C_5 L_4 L_5 R_3 R_5 g_m S_5^4 + 2 C_4 C_5 L_4 L_5 R_3 S_4 + C_4 C_5 L_4 L_5 R_4 S_5 g_m S_5^4 + 2 C_4 C_5 L_4 L_5 R_3 S_4 + 2 C_4 C_5 L_4 L_5 R_4 S_5 g_m S_5^4 + 2 C_4 C_5 L_4 L_5 R_3 S_5 S_5 + 2 C_4 L_4 R_3 R_5 S_3 + 2 C_4 L_4 R_5 S_3 + 2 C_4 L_5 R_5 S_3 + 2 C_5 L_4 R_5 S_5 + 2 C_5 L_5 R_5 + 2 C_5 L_5$

10.71 INVALID-ORDER-71 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$

 $H(s) = -\frac{R_3R_4\left(C_5s - g_m\right)\left(C_4L_4s^2 + 1\right)}{2C_4C_5L_4R_3R_4g_ms^3 + 2C_4C_5L_4R_3s^3 + C_4C_5L_4R_4s^3 + 2C_4C_5R_3R_4s^2 + 2C_4L_4R_3g_ms^2 + C_4L_4R_4g_ms^2 + 2C_4R_3R_4g_ms + 2C_5R_3R_4g_ms + 2C_5R_3s + C_5R_4s + 2R_3g_m + R_4g_ms^2 + 2C_4R_3R_4g_ms^2 + 2C_4R_3R_4g_ms^2 + 2C_4R_3R_4g_ms + 2C_5R_3R_4g_ms + 2C_5R_3s + C_5R_4s + 2R_3g_m + R_4g_ms^2 + 2C_4R_3R_4g_ms^2 + 2C_4R_3R_4g_m$

10.72 INVALID-ORDER-72 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $R_3R_4(C_4L_4s^2+1)(C_5R_5s-R_5g_m+1)$

 $\frac{173744 \left(\sqrt{4}L48 - 11 \right) \left(\sqrt{5}L48 - 11 \right) \left($

10.73 INVALID-ORDER-73 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $R_3R_4(C_4L_4s^2+1)(C_5R_5g_ms-C_5s+g_m)$

 $H(s) = \frac{R_3R_4\left(C_4L_4s^3 + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{2C_4C_5L_4R_3R_4g_ms^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5R_3R_4s^2 + 2C_4L_4R_3g_ms^2 + 2C_4L_4R_3g_ms^2 + 2C_4R_3R_4g_ms + 2C_5R_3R_4g_ms + 2C_5R_$

10.74 INVALID-ORDER-74 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $R_3R_4\left(C_4L_4s^2+1\right)\left(C_5L_5g_ms^2-C_5s+g_m\right)$ $H(s) = \frac{1}{2C_4C_5L_4L_5R_3q_ms^4 + C_4C_5L_4L_5R_4q_ms^4 + 2C_4C_5L_4R_3R_4q_ms^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_5R_3R_4q_ms^3 + 2C_4C_5L_4R_3q_ms^4 + 2C_$

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10.75 INVALID-ORDER-75 Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
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 $\frac{R_{3}R_{4}\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{2C_{4}C_{5}L_{4}L_{5}R_{3}s^{4}+2C_{4}C_{5}L_{4}L_{5}R_{3}s^{4}+2C_{4}C_{5}L_{5}R_{3}R_{4}s^{3}+2C_{4}L_{4}L_{5}R_{3}g_{m}s^{3}+2C_{4}L_{4}R_{3}s^{2}+2C_{4}L_{5}R_{3}R_{4}g_{m}s^{2}+2C_{4}L_{5}R_{3}R_{4}g_{m}s^{2}+2C_{4}L_{5}R_{3}R_{4}g_{m}s^{2}+2C_{5}L_{5}R_{3}R_{4}g_{m}s^{2}+2C_{5}L_{5}R_{3}s^{2}+C_{5}L_{5}R_{3}s^{2}+2C_{5$

10.76 INVALID-ORDER-76 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_3 R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + C_4 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 C_5 R_3 R_4 g_m s^3 + 2 C_4 C_5 R_3 R_4 R_5 g_m s^2 + 2 C_4 L_4 R_3 g_m s^2 + 2 C_4 L_4 R_3 g_m s^2 + 2 C_4 R_3 R_4 g_m s^3 + 2 C_4 C_5 R_5 g_m s^3 + 2 C_4 C_5 R_5$

10.77 INVALID-ORDER-77 $Z(s) = \left(\infty, \ \infty, \ R_3, \ \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$

 $R_3R_4(C_4L_4s^2+1)(C_5L_5R_5s^2-L_5R_5g_ms+L_5s+R_5)$ $\frac{1}{2C_{4}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}g_{m}s^{4}+2C_{4}C_{5}L_{4}L_{5}R_{3}R_{5}s^{4}+C_{4}C_{5}L_{4}L_{5}R_{3}R_{4}g_{m}s^{3}+2C_{4}L_{4}L_{5}R_{3}R_{5}g_{m}s^{3}+2C_{4}L_{4}L_{5}R_{3}R_{5}g_{m}s^{3}+2C_{4}L_{4}L_{5}R_{3}R_{5}g_{m}s^{3}+2C_{4}L_{4}R_{5}g_{m}s^{3}+2C_{4}L_{4}R_{5}g_{m}s^{3}+2C_{4}L_{4}R_{5}g_{m}s^{3}+2C_{4}L_{5}g_{m}s^{3}+2C_{4}L_{5}g_{m}s^{3}+2C_{4}L_{5}g_{m}s^$

10.78 INVALID-ORDER-78 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

 $\frac{2C_4C_5L_4L_5R_3R_4g_ms^4 + 2C_4C_5L_4L_5R_3R_4g_ms^4 + 2C_4C_5L_4L_5R_3R_4g_ms^4 + 2C_4C_5L_4L_5R_3R_4g_ms^4 + 2C_4C_5L_4L_5R_3R_4g_ms^4 + 2C_4C_5L_4L_5R_3R_4g_ms^4 + 2C_4C_5L_4L_5R_3R_4g_ms^3 + 2C_4L_4R_3R_4g_ms^3 + 2C_4L_4R_4R_4g_ms^3 + 2C_4L_4R_4g_ms^3 + 2C_4L_4R$

10.79 INVALID-ORDER-79 $Z(s) = \left(\infty, \infty, R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

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

10.80 INVALID-ORDER-80 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, R_5, \infty\right)$

$$H(s) = \frac{R_4 (R_5 g_m - 1)}{C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 R_4 g_m + 2 R_5 g_m + 2}$$

10.81 INVALID-ORDER-81 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{C_3 C_5 L_5 R_4 g_m s^3 + C_3 C_5 R_4 s^2 + C_3 R_4 g_m s + 2 C_5 L_5 g_m s^2 + 2 C_5 R_4 g_m s + 2 C_5 s + 2 g_m}$$

10.82 INVALID-ORDER-82 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{C_3 C_5 L_5 R_4 s^3 + C_3 L_5 R_4 g_m s^2 + C_3 R_4 s + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 s^2 + 2 L_5 g_m s + 2 R_4 g_m + 2}$$

10.83 INVALID-ORDER-83 $Z(s) = \left(\infty, \infty, \frac{1}{C_{3s}}, R_4, L_5 s + R_5 + \frac{1}{C_{5s}}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_5 L_5 R_4 g_m s^3 + C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 g_m s + 2 C_5 L_5 g_m s^2 + 2 C_5 R_4 g_m s + 2 C_5 R_5 g_m s + 2 C_5 s + 2 g_m r^2}$$

10.84 INVALID-ORDER-84
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{R_4 \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5 \right)}{C_3 C_5 L_5 R_4 R_5 s^3 + C_3 L_5 R_4 R_5 g_m s^2 + C_3 L_5 R_4 R_5 s + 2 C_5 L_5 R_4 R_5 g_m s^2 + 2 C_5 L_5 R_5 s^2 + 2 L_5 R_4 g_m s + 2 L_5 R_5 g_m s + 2 L_5 s + 2 R_4 R_5 g_m + 2 R_5 g_m s^2 + 2 C_5 L_5 R_5 s^2 + 2 L_5 R_5 g_m s + 2 L_5 R_5 g_m$$

10.85 INVALID-ORDER-85
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 g_m s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 L_5 s^2 + 2 L_5 g_m s + 2 R_4 g_m + 2 R_5 g_m + 2 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 +$$

10.86 INVALID-ORDER-86
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1 \right)}{C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 s^3 + C_3 C_5 R_4 R_5 s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 L_5 s^2 + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_5 s + 2 R_4 g_m + 2 R_5 g_m + 2 C_5 R_5 g_m s^2 + 2 C_5 R_5 g_m$$

10.87 INVALID-ORDER-87
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_5 g_m - 1}{C_3 R_5 g_m s + C_3 s + 2C_4 R_5 g_m s + 2C_4 s + 2g_m}$$

10.88 INVALID-ORDER-88
$$Z(s) = \left(\infty, \infty, \frac{1}{C_{3s}}, \frac{1}{C_{4s}}, \frac{1}{C_{5s}}, \infty\right)$$

$$H(s) = \frac{-C_5 s + g_m}{s \left(C_3 C_5 s + C_3 g_m + 2C_4 C_5 s + 2C_4 g_m + 2C_5 g_m \right)}$$

10.89 INVALID-ORDER-89
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 R_5 g_m s - C_5 s + g_m}{s \left(C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 g_m + 2C_4 C_5 R_5 g_m s + 2C_4 C_5 s + 2C_4 g_m + 2C_5 g_m \right)}$$

10.90 INVALID-ORDER-90 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5 L_5 g_m s^2 - C_5 s + g_m}{s \left(C_3 C_5 L_5 g_m s^2 + C_3 C_5 s + C_3 g_m + 2 C_4 C_5 L_5 g_m s^2 + 2 C_4 C_5 s + 2 C_4 g_m + 2 C_5 g_m \right)}$$

10.91 INVALID-ORDER-91 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_5s^2 + L_5g_ms - 1}{C_3C_5L_5s^3 + C_3L_5g_ms^2 + C_3s + 2C_4C_5L_5s^3 + 2C_4L_5g_ms^2 + 2C_4s + 2C_5L_5g_ms^2 + 2g_m}$$

10.92 INVALID-ORDER-92 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m}{s \cdot (C_3 C_5 L_5 g_m s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 g_m + 2 C_4 C_5 L_5 g_m s^2 + 2 C_4 C_5 R_5 g_m s + 2 C_4 C_5 s + 2 C_4 g_m + 2 C_5 g_m)}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5}{C_3C_5L_5R_5s^3 + C_3L_5R_5g_ms^2 + C_3L_5s^2 + C_3R_5s + 2C_4C_5L_5R_5s^3 + 2C_4L_5s^2 + 2C_4L_5s^2 + 2C_4R_5s + 2C_5L_5R_5g_ms^2 + 2L_5g_ms + 2R_5g_ms^2 + 2C_4L_5s^2 + 2C_4R_5s + 2C_5L_5R_5g_ms^2 +$$

10.94 INVALID-ORDER-94
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1}{C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3 + C_3L_5g_ms^2 + C_3R_5g_ms + C_3s + 2C_4C_5L_5R_5g_ms^3 + 2C_4C_5L_5s^3 + 2C_4L_5g_ms^2 + 2C_4R_5g_ms + 2C_4s + 2C_5L_5g_ms^2 + 2g_ms^2 + 2C_4S_5g_ms^2 + 2C$$

10.95 INVALID-ORDER-95
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1}{C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3 + C_3C_5R_5s^2 + C_3R_5g_ms + C_3s + 2C_4C_5L_5R_5g_ms^3 + 2C_4C_5L_5s^3 + 2C_4C_5R_5s^2 + 2C_4R_5g_ms + 2C_4s + 2C_5L_5g_ms^2 + 2C_5R_5g_ms + 2g_ms^2 + 2C_5R_5g_ms^2 + 2C_5$$

10.96 INVALID-ORDER-96 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

$$H(s) = \frac{R_4 (R_5 g_m - 1)}{C_3 R_4 R_5 g_m s + C_3 R_4 s + 2C_4 R_4 R_5 g_m s + 2C_4 R_4 s + 2R_4 g_m + 2R_5 g_m + 2}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{C_3 C_5 L_5 R_4 g_m s^3 + C_3 C_5 R_4 s^2 + C_3 R_4 g_m s + 2 C_4 C_5 L_5 R_4 g_m s^3 + 2 C_4 C_5 R_4 s^2 + 2 C_4 R_4 g_m s + 2 C_5 L_5 g_m s^2 + 2 C_5 R_4 g_m s + 2 C_5 s + 2 g_m r^2}$$

10.98 INVALID-ORDER-98 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{C_3 C_5 L_5 R_4 s^3 + C_3 L_5 R_4 q_m s^2 + C_3 R_4 s + 2 C_4 C_5 L_5 R_4 s^3 + 2 C_4 L_5 R_4 q_m s^2 + 2 C_4 R_4 s + 2 C_5 L_5 R_4 q_m s^2 + 2 C_5 L_5 s^2 + 2 L_5 q_m s + 2 R_4 q_m + 2 C_5 L_5 R_4 q_m s^2 + 2 C_5 L_5 R_5 q_m s^2 + 2 C_5 L_5 R$$

10.99 INVALID-ORDER-99 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_5 L_5 R_4 g_m s^3 + C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 s^2 + C_3 R_4 g_m s + 2 C_4 C_5 L_5 R_4 g_m s^3 + 2 C_4 C_5 R_4 R_5 g_m s^2 + 2 C_4 C_5 R_4 s^2 + 2 C_4 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 R_5 g_m s$$

10.100 INVALID-ORDER-100 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{R_4 \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5 \right)}{C_3 C_5 L_5 R_4 R_5 s^3 + C_3 L_5 R_4 R_5 g_m s^2 + C_3 L_5 R_4 R_5 s + 2 C_4 C_5 L_5 R_4 R_5 g_m s^2 + 2 C_4 L_5 R_4 R_5 g_m s^2 + 2 C_4 L_5 R_4 R_5 g_m s^2 + 2 C_5 L_5 R_4 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s + 2 L$$

10.101 INVALID-ORDER-101 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 g_m s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 C_4 C_5 L_5 R_4 g_m s^3 + 2 C_4 C_5 L_5 R_4 g_m s^2 + 2 C_4 R_4 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 L_5 g_m s^$$

10.102 INVALID-ORDER-102 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1 \right)}{C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_4 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_4 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 R_5 g_m$$

10.103 INVALID-ORDER-103 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

10.104 INVALID-ORDER-104 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{\left(C_4 R_4 s + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{C_3 C_4 C_5 R_4 R_5 s^3 + C_3 C_4 R_4 R_5 g_m s^2 + C_3 C_4 R_4 s^2 + C_3 C_5 R_5 s^2 + C_3 R_5 g_m s + C_3 s + 2 C_4 C_5 R_4 R_5 g_m s^2 + 2 C_4 C_5 R_5 s^2 + 2 C_4 R_4 g_m s + 2 C_4 R_5 g_m s + 2 C_4 s + 2 C_5 R_5 g_m s + 2 g_m r^2 + 2 C_4 r^2 +$$

10.105 INVALID-ORDER-105 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{s \left(C_3 C_4 C_5 R_4 R_5 g_m s^2 + C_3 C_4 C_5 R_4 g_m s + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 g_m + 2 C_4 C_5 R_4 g_m s + 2 C_4 C_5 R_5 g_m s + 2 C_5 C_5 R_5$$

10.106 INVALID-ORDER-106 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{s \left(C_3 C_4 C_5 L_5 R_4 g_m s^3 + C_3 C_4 C_5 R_4 s^2 + C_3 C_4 R_4 g_m s + C_3 C_5 L_5 g_m s^2 + C_3 C_5 s + C_3 g_m + 2 C_4 C_5 L_5 g_m s^2 + 2 C_4 C_5 R_4 g_m s + 2 C_4 C_5 s + 2 C_4 g_m + 2 C_5 g_m\right)}$$

10.107 INVALID-ORDER-107 $Z(s) = \left(\infty, \infty, \frac{1}{C_{3s}}, R_4 + \frac{1}{C_{4s}}, \frac{L_{5s}}{C_5 L_{5s}^2 + 1}, \infty\right)$

10.108 INVALID-ORDER-108 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{s\left(C_3C_4C_5L_5R_4g_ms^3 + C_3C_4C_5R_4g_ms^2 + C_3C_4C_5R_4g_ms + C_3C_5L_5g_ms^2 + C_3C_5R_5g_ms + C_3C_5s + C_3g_m + 2C_4C_5R_4g_ms + 2C_4C_5R_5g_ms + 2C_5C_5R_5g_ms + 2C_$$

10.109 INVALID-ORDER-109 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5\right)}{C_3C_4C_5L_5R_4R_5s^4 + C_3C_4L_5R_4g_ms^3 + C_3C_4L_5R_4s^3 + C_3C_4L_5R_4s^3 + C_3C_4L_5R_5g_ms^2 + C_3L_5s^2 + C_3L_5s^2 + C_3L_5s^2 + C_3L_5s^3 + 2C_4C_5L_5R_4g_ms^2 + 2C_4L_5R_5g_ms^2 + 2C_4L_5s^2 + 2C_4R_4R_5g_ms + 2C_4R_5s + 2C_5L_5R_5g_ms^2 + 2C_4L_5s^2 + 2C_4R_4R_5g_ms^2 + 2C_4R_5s^2 + 2C$$

10.110 INVALID-ORDER-110 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{\left(C_4 R_4 s + 1\right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{C_3 C_4 C_5 L_5 R_4 R_5 g_m s^4 + C_3 C_4 C_5 L_5 R_4 g_m s^3 + C_3 C_4 R_4 g_m s^3 + C_3 C_4 R_4 g_m s^2 + C_3 C_5 L_5 g_m s^3 + C_4 C_5 L_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 g_m s^3 + 2 C_5 L_5 g_m s^$$

10.111 INVALID-ORDER-111 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{\left(C_4R_4s + 1\right)\left(-C_5L_5R_5g_ms^2 + C_5L_5s^2 + C_5R_5s - R_5g_m + 1\right)}{C_3C_4C_5L_5R_4g_ms^4 + C_3C_4C_5L_5R_4s^4 + C_3C_4C_5R_4R_5s^3 + C_3C_4R_4s^2 + C_3C_5L_5g_ms^3 + C_3C_5L_5s^3 + C_3C_5R_5s^2 + C_3R_5g_ms + C_3s^2 + C_4C_5L_5R_4g_ms^3 + 2C_4C_5L_5s^3 + 2C_4C_5L_5s^3 + 2C_4C_5R_4g_ms^3 + 2C_4C_5L_5s^3 + 2C_4C_5R_5g_ms^3 + 2C_4C_5R_5g_m$$

10.112 INVALID-ORDER-112 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{\left(R_5 g_m - 1\right) \left(C_4 L_4 s^2 + 1\right)}{C_3 C_4 L_4 R_5 g_m s^3 + C_3 C_4 L_4 s^3 + C_3 R_5 g_m s + C_3 s + 2 C_4 L_4 g_m s^2 + 2 C_4 R_5 g_m s + 2 C_4 s + 2 g_m}$$

10.113 INVALID-ORDER-113 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

10.114 INVALID-ORDER-114 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{C_3C_4C_5L_4R_5s^4 + C_3C_4L_4S^3 + C_3C_5R_5s^2 + C_3R_5g_ms + C_3s + 2C_4C_5L_4R_5g_ms^3 + 2C_4C_5R_5s^2 + 2C_4L_4g_ms^2 + 2C_4R_5g_ms + 2C_4s + 2C_5R_5g_ms + 2g_ms^2 + 2C_4C_5R_5g_ms^2 + 2C_5R_5g_ms^2 + 2$$

10.115 INVALID-ORDER-115 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{s\left(C_3C_4C_5L_4R_5g_ms^3 + C_3C_4L_5L_4s^3 + C_3C_4L_4g_ms^2 + C_3C_5R_5g_ms + C_3C_5s + C_3g_m + 2C_4C_5L_4g_ms^2 + 2C_4C_5R_5g_ms + 2C_4C_5s + 2C_4g_m + 2C_5g_m\right)}$$

10.116 INVALID-ORDER-116 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{s \left(C_3 C_4 C_5 L_4 L_5 q_m s^4 + C_3 C_4 L_4 s^3 + C_3 C_4 L_4 q_m s^2 + C_3 C_5 L_5 q_m s^2 + C_3 C_5 s + C_3 q_m + 2 C_4 C_5 L_4 q_m s^2 + 2 C_4 C_5 L_5 q_m s^2 + 2 C_4 C_5 s + 2 C_4 q_m + 2 C_5 q_m\right)}$$

10.117 INVALID-ORDER-117 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{C_3C_4C_5L_4L_5s^5 + C_3C_4L_4L_5g_ms^4 + C_3C_4L_4s^3 + C_3C_5L_5s^3 + C_3L_5g_ms^2 + C_3s + 2C_4C_5L_4L_5g_ms^4 + 2C_4C_5L_5s^3 + 2C_4L_4g_ms^2 + 2C_4L_5g_ms^2 + 2C_4s + 2C_5L_5g_ms^2 + 2g_ms^2}$$

10.118 INVALID-ORDER-118 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{s\left(C_3C_4C_5L_4L_5g_ms^4 + C_3C_4C_5L_4R_5g_ms^3 + C_3C_4L_4g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5R_5g_ms + C_3C_5s + C_3g_m + 2C_4C_5L_4g_ms^2 + 2C_4C_5L_5g_ms^2 + 2C_4C_5R_5g_ms + 2C_4C_5s + 2C_4g_m + 2C_5g_m\right)}$$

10.119 INVALID-ORDER-119 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5\right)}{C_3C_4C_5L_4L_5R_5s^5 + C_3C_4L_4L_5s^4 + C_3C_4L_4R_5s^3 + C_3C_5L_5R_5s^3 + C_3L_5R_5g_ms^2 + 2C_4C_5L_4L_5R_5g_ms^4 + 2C_4C_5L_5R_5g_ms^4 + 2C_4L_4R_5g_ms^3 + 2C_4L_5R_5g_ms^3 + 2C_4L_$$

10.120 INVALID-ORDER-120 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{C_3C_4C_5L_4L_5R_5g_ms^5 + C_3C_4C_5L_4L_5s^5 + C_3C_4L_4L_5g_ms^4 + C_3C_4L_4s^3 + C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3 + C_3L_5g_ms^2 + C_3R_5g_ms^4 + 2C_4C_5L_5R_5g_ms^3 + 2C_4C_5L_5s^3 + 2C_4L_5g_ms^2 + 2C_4L_5g_ms^2 + 2C_4R_5g_ms + 2C_4S_5g_ms^3 + 2C_4C_5L_5S_5g_ms^3 + 2C_4C_5L_5S_5g_ms^$$

10.121 INVALID-ORDER-121
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(-C_5L_5R_5g_ms^2 + C_5L_5s^2 + C_5R_5s - R_5g_m + 1\right)}{C_3C_4C_5L_4L_5g_ms^5 + C_3C_4C_5L_4L_5s^5 + C_3C_4C_5L_4R_5s^4 + C_3C_4L_4s^3 + C_3C_5L_5s^3 + C_3C$$

10.122 INVALID-ORDER-122 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_4s\left(-C_5s + g_m\right)}{C_3C_5L_4s^3 + C_3L_4g_ms^2 + 2C_4C_5L_4s^3 + 2C_4L_4g_ms^2 + 2C_5L_4g_ms^2 + 2C_5s + 2g_m}$$

10.123 INVALID-ORDER-123
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{L_4 s \left(-C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 L_4 R_5 s^3 + C_3 L_4 R_5 g_m s^2 + C_3 L_4 s^2 + 2 C_4 C_5 L_4 R_5 s^3 + 2 C_4 L_4 R_5 g_m s^2 + 2 C_4 L_4 s^2 + 2 C_5 L_4 R_5 g_m s^2 + 2 C_5 R_5 s + 2 L_4 g_m s + 2 R_5 g_m + 2}$$

10.124 INVALID-ORDER-124
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4 s \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_4 R_5 g_m s^3 + C_3 C_5 L_4 s^3 + C_3 L_4 g_m s^2 + 2 C_4 C_5 L_4 R_5 g_m s^3 + 2 C_4 C_5 L_4 s^3 + 2 C_4 L_4 g_m s^2 + 2 C_5 L_4 g_m s^2 + 2 C_5 R_5 g_m s + 2 C_5 s + 2 g_m r^2}$$

10.125 INVALID-ORDER-125
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_5 L_4 L_5 g_m s^4 + C_3 C_5 L_4 s^3 + C_3 L_4 g_m s^2 + 2 C_4 C_5 L_4 L_5 g_m s^4 + 2 C_4 C_5 L_4 s^3 + 2 C_4 L_4 g_m s^2 + 2 C_5 L_4 g_m s^2 + 2 C_5 L_5 g_m s^2 + 2 C_5 s + 2 g_m}$$

10.126 INVALID-ORDER-126 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_4 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{C_3 C_5 L_4 L_5 s^4 + C_3 L_4 L_5 g_m s^3 + C_3 L_4 s^2 + 2 C_4 C_5 L_4 L_5 s^4 + 2 C_4 L_4 L_5 g_m s^3 + 2 C_4 L_4 s^2 + 2 C_5 L_4 L_5 g_m s^3 + 2 C_5 L_5 s^2 + 2 L_4 g_m s + 2 L_5 g_m s +$$

10.127 INVALID-ORDER-127 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_4s\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_4L_5g_ms^4 + C_3C_5L_4R_5g_ms^3 + C_3C_5L_4s^3 + C_3L_4g_ms^2 + 2C_4C_5L_4L_5g_ms^4 + 2C_4C_5L_4R_5g_ms^3 + 2C_4C_5L_4g_ms^2 + 2C_5L_5g_ms^2 + 2C_5R_5g_ms + 2C_5s + 2g_m}$$

10.128 INVALID-ORDER-128 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{L_4 s \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{C_3 C_5 L_4 L_5 R_5 s^4 + C_3 L_4 L_5 R_5 g_m s^3 + C_3 L_4 L_5 s^3 + C_3 L_4 L_5 R_5 g_m s^3 + 2 C_4 L_4 L_5 R_5 g_m s^3 + 2 C_4 L_4 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 s^2 + 2 L_4 L_5 g_m s^3 + 2 L_5 R_5 g_m s + 2 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 s^2 + 2 L_4 L_5 g_m s^3 + 2 L_5 R_5 g_m s^3 + 2 L_5 R$$

10.129 INVALID-ORDER-129 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

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

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10.130 INVALID-ORDER-130 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{L_4s\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_4L_5R_5g_ms^4 + C_3C_5L_4L_5s^4 + C_3C_5L_4R_5s^3 + C_3L_4R_5g_ms^2 + 2C_4C_5L_4L_5s^4 + 2C_4C_5L_4L_5s^4 + 2C_4C_5L_4R_5g_ms^2 + 2C_5L_4R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_m
10.131 INVALID-ORDER-131 Z(s) = \left(\infty, \infty, \frac{1}{C_{3s}}, L_4s + R_4 + \frac{1}{C_{4s}}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                          H(s) = \frac{\left(R_5 g_m - 1\right) \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right)}{C_3 C_4 L_4 R_5 g_m s^3 + C_3 C_4 L_4 s^3 + C_3 C_4 R_4 R_5 g_m s^2 + C_3 C_4 R_4 s^2 + C_3 R_5 g_m s + C_3 s + 2 C_4 L_4 g_m s^2 + 2 C_4 R_4 g_m s + 2 C_4 R_5 g_m s + 2 C_4 s + 2 g_m R_5 g_m s + 2 C_4 R_5 g_m s + 2 C_5 R_
10.132 INVALID-ORDER-132 Z(s) = \left(\infty, \infty, \frac{1}{C_{48}}, L_{4}s + R_{4} + \frac{1}{C_{48}}, \frac{1}{C_{58}}, \infty\right)
                                                                                                                                                                                                                                                                   H(s) = -\frac{\left(C_{5}s - g_{m}\right)\left(C_{4}L_{4}s^{2} + C_{4}R_{4}s + 1\right)}{s\left(C_{3}C_{4}C_{5}L_{4}s^{3} + C_{3}C_{4}C_{5}R_{4}s^{2} + C_{3}C_{4}L_{4}g_{m}s^{2} + C_{3}C_{4}R_{4}g_{m}s + C_{3}C_{5}s + C_{3}g_{m} + 2C_{4}C_{5}L_{4}g_{m}s^{2} + 2C_{4}C_{5}R_{4}g_{m}s + 2C_{4}C_{5}s + 2C_{4}g_{m} + 2C_{5}g_{m}\right)}
10.133 INVALID-ORDER-133 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{C_3C_4C_5L_4R_5s^4 + C_3C_4C_5R_4R_5s^3 + C_3C_4L_4s^3 + C_3C_4R_4s^2 + C_3C_5R_5s^2 + C_3R_5g_ms + C_3s + 2C_4C_5L_4R_5g_ms^3 + 2C_4C_5R_4R_5g_ms^3 + 2C_4C_5R_4g_ms^2 + 2C_4R_4g_ms + 2C_4R_5g_ms + 2C_4s + 2C_5R_5g_ms + 2G_4S_5g_ms^2 + 2C_4C_5R_4g_ms^2 + 2C_4C_5R_5g_ms^2 + 2C_4C_5R_5g_ms^2
10.134 INVALID-ORDER-134 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                  H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{s\left(C_3C_4C_5L_4R_5g_ms^3 + C_3C_4C_5L_4s^3 + C_3C_4C_5R_4s^2 + C_3C_4C_5R_4s^2 + C_3C_4L_4g_ms^2 + C_3C_4R_4g_ms + C_3C_5R_5g_ms + C_3C_5s + C_3g_m + 2C_4C_5R_4g_ms + 2C_4C_5R_5g_ms + 2C_4C_5R_5g_ms + 2C_4C_5R_5g_ms + 2C_4C_5R_5
10.135 INVALID-ORDER-135 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                               H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{s\left(C_3C_4C_5L_4L_5g_ms^4 + C_3C_4C_5L_4s^3 + C_3C_4C_5L_5g_ms^3 + C_3C_4C_5R_4g_ms^2 + C_3C_4R_4g_ms + C_3C_5L_5g_ms^2 + C_3C_5s + C_3g_m + 2C_4C_5L_4g_ms^2 + 2C_4C_5L_5g_ms^2 + 2C_4C_5R_4g_ms + 2C_4C_5s + 2C_4g_m + 2C_5g_m\right)}
10.136 INVALID-ORDER-136 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
```

$$H(s) = -\frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{C_3C_4C_5L_4L_5s^5 + C_3C_4C_5L_5R_4s^4 + C_3C_4L_4s^3 + C_3C_4L_5R_4g_ms^3 + C_3C_4L_5g_ms^2 + C_3S_4L_5g_ms^2 + C_4S_4L_5g_ms^4 + 2C_4C_5L_5g_ms^2 + 2C_4L_5g_ms^2 + 2C_$$

10.137 INVALID-ORDER-137
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{s\left(C_3C_4C_5L_4L_5g_ms^4 + C_3C_4C_5L_4g_ms^3 + C_3C_4C_5L_4g_ms^3 + C_3C_4C_5R_4g_ms^3 + C_3C_4C_5R_4g_ms^2 + C_3C_4L_4g_ms^2 + C_3C_4R_4g_ms + C_3C_5L_5g_ms^2 + C_3C_5R_5g_ms + C_3C_5R_5$$

10.138 INVALID-ORDER-138
$$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5\right)}{C_3C_4C_5L_4L_5R_5s^5 + C_3C_4C_5L_5R_4R_5s^4 + C_3C_4L_4L_5s^4 + C_3C_4L_4R_5s^3 + C_3C_4L_5R_4s^3 + C_3C_4L_5R_4s^3 + C_3C_4L_5R_5s^3 + C_3L_5R_5g_ms^2 + C_3L_5s^2 + C_3R_5s + 2C_4C_5L_4L_5R_5g_ms^4 + 2C_4C_5L_5R_4s^3 + 2C_4C_5L_5R_5s^3 + 2C_4C_5L_5R_$$

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10.139 INVALID-ORDER-139 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (C_4L_4s^2 + C_4R_4s + 1)(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1)
H(s) = \frac{\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{C_3C_4C_5L_4L_5R_5g_ms^5 + C_3C_4C_5L_5R_4R_5g_ms^4 + C_3C_4L_4L_5g_ms^4 + C_3C_4L_4R_5g_ms^3 + C_3C_4L_4s^3 + C_3C_4L_4s^
10.140 INVALID-ORDER-140 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \left( C_4 L_4 s^2 + C_4 R_4 s + 1 \right) \left( -C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m s^2 \right) 
H(s) = -\frac{(C_4 L_4 C_5 L_4 L_5 R_5 g_m s^5 + C_3 C_4 C_5 L_4 L_5 s^5 + C_3 C_4 C_5 L_4 R_5 g_m s^4 + C_3 C_4 C_5 L_5 R_4 R_5 g_m s^4 + C_3 C_4 C_5 L_5 R_4 R_5 g_m s^4 + C_3 C_4 C_5 L_5 R_4 R_5 g_m s^4 + C_3 C_4 C_5 L_5 R_5 g_m s^4 + C_3 C_4 C_5 L_5 R_5 g_m s^4 + C_3 C_5 L_5 R_5 g_m s^4 + C_5 L_5
10.141 INVALID-ORDER-141 Z(s) = \left(\infty, \infty, \frac{1}{C_{3}s}, \frac{L_{4}R_{4}s}{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}, \frac{1}{C_{5}s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                10.142 INVALID-ORDER-142 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                    H(s) = \frac{L_4 R_4 s \left(-C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 L_4 R_4 R_5 s^3 + C_3 L_4 R_4 R_5 g_m s^2 + C_3 L_4 R_4 R_5 s^3 + 2 C_4 L_4 R_4 R_5 g_m s^2 + 2 C_4 L_4 R_4 R_5 g_m s^2 + 2 C_5 L_4 R_5 g_m s^2 + 2 C_5 L_4 R_5 g_m s^2 + 2 C_5 R_4 R_5 s^2 + 2 C_5 R_4 R_5 s + 2 L_4 R_4 g_m s + 2 L_4 R_5 g_m s + 2 L_4 R_5 g_m s + 2 L_4 R_5 g_m s^2 + 2 C_5 R_4 R_5 g_m s^2 + 2 C_5 R_5 R_5 g_m s^2 + 2
10.143 INVALID-ORDER-143 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                             H(s) = \frac{L_4 R_4 s \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_4 R_4 R_5 g_m s^3 + C_3 C_5 L_4 R_4 s^3 + C_3 L_4 R_4 g_m s^2 + 2 C_4 C_5 L_4 R_4 s^3 + 2 C_4 L_4 R_4 g_m s^2 + 2 C_5 L_4 R_5 g_m s^2 + 2 C_5 L_4 R_5 g_m s^2 + 2 C_5 L_4 R_5 g_m s + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_5 R_5 g_m 
10.144 INVALID-ORDER-144 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                           H(s) = \frac{L_4 R_4 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_5 L_4 L_5 R_4 g_m s^4 + C_3 C_5 L_4 R_4 s^3 + C_3 L_4 R_4 g_m s^2 + 2 C_4 C_5 L_4 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_4 R_4 g_m s^4 + 2 C_4 C_5 L_4 R_4 g_m s^2 + 2 C_5 L_4 L_5 g_m s^3 + 2 C_5 L_4 R_4 g_m s^2 + 2 C_5 R_5 g_m s^2 + 2 C_5 R_
10.145 INVALID-ORDER-145 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                               H(s) = \frac{L_4 R_4 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{C_3 C_5 L_4 L_5 R_4 s^4 + C_3 L_4 L_5 R_4 g_m s^3 + C_3 L_4 R_4 s^2 + 2 C_4 L_5 L_4 L_5 R_4 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3 + 2
10.146 INVALID-ORDER-146 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
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 $H(s) = \frac{L_4R_4s\left(-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5\right)}{C_3C_5L_4L_5R_4R_5s^4 + C_3L_4L_5R_4s^3 + C_3L_4L_5R_4s^3 + C_3L_4L_5R_4s^3 + 2C_4L_4L_5R_4s^3 + 2C_4L_4L_5R_4s^3 + 2C_4L_4L_5R_4s^3 + 2C_5L_4L_5R_4s^3 + 2C_5L_5L_5R_4s^3 + 2C_5L_5L_5R_4s^3 + 2C_5L_5L_5R_5s^3 + 2C_5L_5R_5s^3 + 2C_5L$

 $L_4R_4s\left(-C_5L_5R_5s^2+L_5R_5g_ms-L_5s-R_5\right)$

 $H(s) = \frac{L_4 R_4 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_4 L_5 R_4 g_m s^4 + C_3 C_5 L_4 R_4 s^3 + C_3 L_5 L_4 R_4 s^3 + 2C_4 C_5 L_4 R_4 s^3 + 2C_4 C_5 L_4 R_4 s^3 + 2C_4 L_5 R_4 g_m s^3 + 2C_5 L_4 R_5 g_m s^3 + 2C_5 L_5 R_5 g$

10.147 INVALID-ORDER-147 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

10.150 INVALID-ORDER-150 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)$

$$H(s) = \frac{\left(R_5g_m - 1\right)\left(C_4L_4R_4s^2 + L_4s + R_4\right)}{C_3C_4L_4R_5g_ms^3 + C_3C_4L_4R_4s^3 + C_3L_4R_5g_ms^2 + C_3L_4s^2 + C_3R_4R_5g_ms + C_3R_4s + 2C_4L_4R_4g_ms^2 + 2C_4L_4S_2g_ms^2 + 2C_4L_4s^2 + 2L_4g_ms + 2R_5g_m + 2R_5g_ms^2 + 2C_4L_4S_2g_ms^2 + 2C_4L$$

10.151 INVALID-ORDER-151 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)$

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

10.152 INVALID-ORDER-152 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

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

10.153 INVALID-ORDER-153 $Z(s) = \left(\infty, \infty, \frac{1}{C_{3s}}, \frac{L_{4s}}{C_{4}L_{4s}^2+1} + R_4, R_5 + \frac{1}{C_{5s}}, \infty\right)$

$$H(s) = \frac{\left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_4 C_5 L_4 R_4 g_m s^4 + C_3 C_4 L_4 R_4 g_m s^3 + C_3 C_5 L_4 R_5 g_m s^3 + C_3 C_5 L_4 s^3 + C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 g_m s^2 + C_3 C_5 R_4 g_m s^3 + 2 C_4 C_5 L_4 R_5 g_m s^3 + 2 C_4 C_5 L_4 g_m s^2 + 2 C_5 L_4 g_m s^2 + 2 C_5 R_4 g_m s + 2 C_5 R_5 g_m s + 2 C_5 R_5 g_m s^2 + 2 C_5 R_5$$

10.154 INVALID-ORDER-154 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_4 C_5 L_4 L_5 R_4 g_m s^5 + C_3 C_4 C_5 L_4 R_4 s^4 + C_3 C_4 L_4 R_4 g_m s^3 + C_3 C_5 L_4 L_5 g_m s^4 + C_3 C_5 L_4 s^3 + C_3 C_5 L_4 g_m s^2 + C_5 L_4 g_m s^3 + C_5 L_5 g_m s^$$

10.155 INVALID-ORDER-155 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = -\frac{\left(C_5L_5s^2 - L_5g_ms + 1\right)\left(C_4L_4R_4s^2 + L_4s + R_4\right)}{C_3C_4C_5L_4L_5R_4s^5 + C_3C_4L_4L_5R_4g_ms^4 + C_3C_4L_4R_4s^3 + C_3C_5L_5R_4s^3 + C_3L_4L_5g_ms^3 + C_3L_4s^2 + C_3L_5R_4g_ms^2 + C_3R_4s + 2C_4C_5L_4L_5s^4 + 2C_4L_4L_5g_ms^3 + 2C_4L_4s^2 + 2C_5L_4L_5g_ms^3 + 2C_5L_5R_4g_ms^2 + C_5L_5R_4g_ms^2 + C_5L_5R_4g_ms^3 + 2C_4L_4R_4g_ms^2 +$$

10.156 INVALID-ORDER-156 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{\left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_4 C_5 L_4 L_5 R_4 g_m s^5 + C_3 C_4 C_5 L_4 R_4 g_m s^4 + C_3 C_4 L_4 R_4 g_m s^3 + C_3 C_5 L_4 R_5 g_m s^3 + C_3 C_5 R_4 g_m s^2 + C_3 C_5 R_4 g_m s^2 + C_3 C_4 R_5 g_m s^4 + 2 C_4 C_5 L_4 R_4 g_m s^3 + 2 C_4 C_5 L_4 R_5 g_m s^4 + C_4 C_5 L_4 R_5 g_m s^4 + C_4 C_5 L_4 R_5 g_m s^4 + C_5 C_5 R_4 g_m s^4 + C_5 C_5 R_5 g_m s^2 + C_5 R_5$$

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10.157 INVALID-ORDER-157 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (C_4L_4R_4s^2 + L_4s + R_4)(C_5L_5R_5s^2 - L_5R_5g_ms + L_5g_ms 
H(s) = -\frac{\left(C_4L_4R_4s^5 + L_4s + R_4\right)\left(C_5L_5R_5s^5 - L_5R_5g_ms + L_4s + R_4\right)\left(C_5L_5R_5s^5 - L_5R_4s^5 + C_3C_4L_4L_5R_4s^5 + C_
10.158 INVALID-ORDER-158 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (C_4L_4R_4s^2 + L_4s + R_4)(C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5L_5c^2 - C_5L_5c^2 - C_5L_5c^2 - C_5L_5c^2 - C_5L_5
H(s) = \frac{(C_4L_4R_4s^5 + L_4s + R_4)(C_5L_5R_5g_ms^3 - C_5L_5s^2 - C_5L_5s^2
10.159 INVALID-ORDER-159 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                   \frac{(\checkmark^{4}L^{4}L^{4}S^{3} + L^{2}C_{5}L^{4}L^{5}R_{4}R_{5}g_{m}s^{5} + C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}s^{5} + C_{3}C_{4}C_{5}L_{4}R_{5}g_{m}s^{3} + C_{3}C_{4}L_{5}R_{4}R_{5}g_{m}s^{4} + C_{3}C_{5}L_{4}L_{5}s^{4} + C_{3}C_{5}L_{
10.160 INVALID-ORDER-160 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                     H(s) = \frac{R_4 \left( R_5 g_m - 1 \right) \left( C_4 L_4 s^2 + 1 \right)}{C_3 C_4 L_4 R_4 g_m s^3 + C_3 C_4 L_4 R_4 s^3 + C_3 R_4 R_5 g_m s + C_4 L_4 R_4 g_m s^2 + 2 C_4 L_4 R_5 g_m s^2 + 2 C_4 L_4 R_5 g_m s + 2 C_4 R_4 R_5 g_m s + 2 C_4 R_4 g_m + 2 R_5 g_m + 2 C_4 R_4 g_m s^2 + 2 C_
10.161 INVALID-ORDER-161 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                              10.162 INVALID-ORDER-162 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{C_3 C_4 C_5 L_4 R_4 R_5 s^4 + C_3 C_4 L_4 R_4 g_m s^3 + C_3 C_4 L_4 R_4 s^3 + C_3 C_5 R_4 R_5 s^2 + C_3 R_4 R_5 g_m s + 2 C_4 C_5 L_4 R_5 g_m s^3 + 2 C_4 C_5 L_4 R_5 g_m s^3 + 2 C_4 C_5 L_4 R_5 g_m s^2 + 2 C_4 L_4 R_5 g_m s^2 + 2 C_4 L_4 R_5 g_m s^2 + 2 C_4 R_4 R_5 g_m s + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_5 g
10.163 INVALID-ORDER-163 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_4 \left( C_4 L_4 s^2 + 1 \right) \left( C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_4 C_5 L_4 R_4 g_m s^4 + C_3 C_4 L_4 R_4 g_m s^3 + C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 s^2 + C_3 R_4 g_m s + 2 C_4 C_5 L_4 R_5 g_m s^3 + 2 C_4 C_5 L_4 R_5 g_m s^3 + 2 C_4 C_5 R_4 g_m s^2 + 2 C_4 R_4 g_m s^2 + 2 C_4 R_4 g_m s + 2 C_5 R_5 g_
10.164 INVALID-ORDER-164 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
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10.165 INVALID-ORDER-165 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)$ $C_3 C_4 C_5 L_4 L_5 R_4 s^5 + C_3 C_4 L_4 L_5 R_4 g_m s^4 + C_3 C_4 L_4 R_4 s^3 + C_3 C_5 L_5 R_4 s^3 + C_3 L_5 R_4 g_m s^2 + 2 C_4 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_4 g_m s^3 + 2 C_4 L_4 R_4 g_m s^2 + 2 C_4 L_4 s^2 + 2 C_4 L_4 s^2 + 2 C_4 L_4 s^2 + 2 C_4 L_5 R_4 g_m s^2 + 2 C_4 L_5 R_4 g_m s^2 + 2 C_5 L_5 s^2 + 2 C_5 L_5 s^2 + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 L_5$

 $\frac{R_4 \left(C_4 L_4 s^2+1\right) \left(C_5 L_5 g_m s^2-C_5 s+g_m\right)}{C_3 C_4 C_5 L_4 L_5 R_4 g_m s^5+C_3 C_4 C_5 L_4 R_4 s^4+C_3 C_4 L_4 R_4 g_m s^3+C_3 C_5 L_5 R_4 g_m s^3+C_3 C_5 L_4 R_4 g_m s^4+2 C_4 C_5 L_4 R_4 g_m s^3+2 C_4 C_5 L_5 R_4 g_m s^3+2 C_5 R_5 g_m s^3$

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10.166 INVALID-ORDER-166 Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
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 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_4 C_5 L_4 L_5 R_4 g_m s^5 + C_3 C_4 C_5 L_4 R_4 g_m s^3 + C_3 C_5 L_4 R_4 g_m s^3 + C_3 C_5 L_4 R_5 g_m s^4 + C_3 C_4 C_5 L_4 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 g_m s^3 + 2 C_5 L_5$

10.167 INVALID-ORDER-167 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{C_3 C_4 C_5 L_4 L_5 R_4 R_5 s^5 + C_3 C_4 L_4 L_5 R_4 R_5 g_m s^4 + C_3 C_4 L_4 L_5 R_4 g_m s^3 + 2 C_4 L_5 R_4 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_4 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_4 g_m s^3 + 2 C_4 L_4 L_5 R_4 g_m s^3 + 2 C_4 L_4 L_5 R_5 g_m s^3 + 2 C_4 L_5 R_5 g_m s^3 + 2 C_5 R_5 g_m$

10.168 INVALID-ORDER-168 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(C_4 L_4 s^2 + 1 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m s^2 - C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_4 L_4 L_5 R_4 g_m s^4 + C_4 C_5 L_4 L_5 R_5 g_m s^4 + C_4 C_5 L_5 R_4 R_5 g_m s^4 + C_4 C_5 L_5 R_5 g_m s^4 + C_4 C_5 L_5 R_5 g_m s^4 + C_5 L_5 R_5 g_m s^$

10.169 INVALID-ORDER-169 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = -\frac{R_4 \left(C_4 L_4 s^2 + 1\right) \left(-C_5 L_5 R_5 g_m s^2 + C_5 L_4 L_5 R_4 g_m s^3 + C_3 C_4 L_4 L_5 R_4 g_m s^3 + C_3 C_5 L_4 R_4 g_m s^3 + C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_4 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_5 g_m s^4 + 2 C_4 C_5 L_4 L_5 R_5 g_m s^4 + 2 C_4 C_5 L_5 R_5 g_m s^4 + 2 C_5 L_5 R_5 g_m s^4 +$

10.170 INVALID-ORDER-170 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, R_5, \infty\right)$

$$H(s) = \frac{R_3 R_4 (R_5 g_m - 1)}{C_3 R_3 R_4 R_5 q_m s + C_3 R_3 R_4 s + 2R_3 R_4 q_m + 2R_3 R_5 q_m + 2R_3 + R_4 R_5 q_m + R_4}$$

10.171 INVALID-ORDER-171 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3R_4 \left(C_5L_5g_ms^2 - C_5s + g_m\right)}{C_3C_5L_5R_3R_4g_ms^3 + C_3C_5R_3R_4s^2 + C_3R_3R_4g_ms + 2C_5L_5R_3g_ms^2 + C_5L_5R_4g_ms^2 + 2C_5R_3R_4g_ms + 2C_5R_3s + C_5R_4s + 2R_3g_m + R_4g_m}$$

10.172 INVALID-ORDER-172 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

10.173 INVALID-ORDER-173 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_5R_3R_4g_ms^3 + C_3C_5R_3R_4R_5g_ms^2 + C_3C_5R_3R_4g_ms + 2C_5L_5R_3g_ms^2 + C_5L_5R_4g_ms^2 + 2C_5R_3R_4g_ms + 2C_5R_3R_5g_ms + 2C_5R_3s + C_5R_4s + 2R_3g_m + R_4g_ms^2\right)}$$

10.174 INVALID-ORDER-174 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5\right)}{C_3C_5L_5R_3R_4R_5s^3 + C_3L_5R_3R_4R_5g_ms^2 + C_3L_5R_3R_4R_5g_ms^2 + 2C_5L_5R_3R_4S^2 + 2C_5L_5R_3R_4S^2 + 2L_5R_3R_4g_ms + 2L_5R_3R_5g_ms + 2L_5R_3S + L_5R_4S + 2R_3R_4S + 2R_3$$

10.175 INVALID-ORDER-175 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{R_3R_4\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{C_3C_5L_5R_3R_4R_5g_ms^3 + C_3C_5L_5R_3R_4s^3 + C_3L_5R_3R_4g_ms^2 + C_5R_3R_4g_ms^2 + 2C_5L_5R_3R_5g_ms^2 + 2C_5L_5R_3R_5g_ms^2 + 2C_5L_5R_3g_ms^2 + 2C_5L_5R_3g_ms + L_5R_4g_ms + 2R_3R_4g_ms + 2R_3R_5g_m + 2R_3R_4g_ms^2 + 2C_5L_5R_3R_5g_ms^2 + 2C_5L_5R_3g_ms^2 +$

10.176 INVALID-ORDER-176 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_3R_4\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_5R_3R_4R_5g_ms^3 + C_3C_5L_5R_3R_4s^3 + C_3C_5R_3R_4R_5s^2 + C_3R_3R_4R_5g_ms + C_5L_5R_3R_4g_ms^2 + 2C_5L_5R_3R_5g_ms^2 + 2C_5L_5R_3R_4g_ms^2 + 2C_5L_5R_4g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g_m$

10.177 INVALID-ORDER-177 $Z(s) = \left(\infty, \ \infty, \ \frac{R_3}{C_3 R_3 s + 1}, \ \frac{1}{C_4 s}, \ R_5, \ \infty\right)$

$$H(s) = \frac{R_3 (R_5 g_m - 1)}{C_3 R_3 R_5 q_m s + C_3 R_3 s + 2 C_4 R_3 R_5 q_m s + 2 C_4 R_3 s + 2 R_3 q_m + R_5 q_m + 1}$$

10.178 INVALID-ORDER-178 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 s^2 + C_3 R_3 g_m s + 2 C_4 C_5 L_5 R_3 g_m s^3 + 2 C_4 C_5 R_3 s^2 + 2 C_4 R_3 g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_3 g_m s + C_5 s + g_m r^2}$$

10.179 INVALID-ORDER-179 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_3 \left(-C_5 L_5 s^2 + L_5 g_m s - 1 \right)}{C_3 C_5 L_5 R_3 s^3 + C_3 L_5 R_3 q_m s^2 + C_3 R_3 s + 2 C_4 C_5 L_5 R_3 s^3 + 2 C_4 L_5 R_3 q_m s^2 + 2 C_4 R_3 s + 2 C_5 L_5 R_3 q_m s^2 + C_5 L_5 s^2 + L_5 q_m s + 2 R_3 q_m + 1}$$

10.180 INVALID-ORDER-180 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 g_m s + 2 C_4 C_5 L_5 R_3 g_m s^3 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_3 g_m s + C_5 R_5 g_m s +$$

10.181 INVALID-ORDER-181 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{R_3 \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5 \right)}{C_3 C_5 L_5 R_3 R_5 s^3 + C_3 L_5 R_3 R_5 g_m s^2 + C_3 L_5 R_3 R_5 s + 2 C_4 C_5 L_5 R_3 R_5 g_m s^2 + 2 C_4 L_5 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5$$

10.182 INVALID-ORDER-182 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{R_3 \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 R_5 g_m s + 2 C_4 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_5 R_3 g_m s^2 + 2 C_4 R_3 R_5 g_m s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 g_m s^2 + C_5$$

10.183 INVALID-ORDER-183 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_3 \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1 \right)}{C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + 2 C_4 C_5 L_5 R_3 R_5 s^3 + 2 C_4 C_5 L_5 R_3 s^3 + 2 C_4 C_5 R_3 R_5 s^2 + 2 C_4 R_3 R_5 g_m s^2 + C_5 L_5 R_3 g_m$$

10.184 INVALID-ORDER-184 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

10.185 INVALID-ORDER-185 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{C_3C_5L_5R_3R_4g_ms^3 + C_3C_5R_3R_4s^2 + C_3R_3R_4g_ms + 2C_4C_5L_5R_3R_4g_ms^3 + 2C_4C_5R_3R_4g_ms + 2C_5L_5R_3g_ms^2 + C_5L_5R_3g_ms^2 + 2C_5R_3R_4g_ms + 2C_5R_3s + C_5R_4s + 2R_3g_m + R_4g_m}$$

10.186 INVALID-ORDER-186 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(-C_5L_5s^2 + L_5g_ms - 1\right)}{C_3C_5L_5R_3R_4s^3 + C_3L_5R_3R_4g_ms^2 + C_3R_3R_4s + 2C_4C_5L_5R_3R_4g_ms^2 + 2C_4R_3R_4s + 2C_5L_5R_3R_4g_ms^2 + 2C_5L_5R_3s^2 + C_5L_5R_3s^2 + 2C_5L_5R_3s^2 + 2C_5L_5R_3s^$$

10.187 INVALID-ORDER-187 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_5R_3R_4g_ms^3 + C_3C_5R_3R_4Sg_ms^2 + C_3C_5R_3R_4g_ms + 2C_4C_5L_5R_3R_4g_ms^3 + 2C_4C_5R_3R_4g_ms^2 + 2C_4C_5R_3R_4g_ms^2 + 2C_5L_5R_3g_ms^2 + 2C_5L_5R_3g_ms^2 + 2C_5R_3R_4g_ms + 2C_5R_3R_4g$$

10.188 INVALID-ORDER-188 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

$$H(s) = \frac{R_3R_4\left(-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5\right)}{C_3C_5L_5R_3R_4R_5s^3 + C_3L_5R_3R_4R_5g_ms^2 + C_3L_5R_3R_4s^2 + C_3R_3R_4R_5s + 2C_4L_5R_3R_4R_5g_ms^2 + 2C_4L_5R_3R_4R_5s + 2C_5L_5R_3R_4R_5s^2 + 2C_5L_5R_3R_4s^2 + 2C_5L_5R_3R_5s^2 + 2C_5L_5R_5s^2 + 2C_5L_5$$

10.189 INVALID-ORDER-189 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

$$H(s) = \frac{R_3R_4\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{C_3C_5L_5R_3R_4R_5g_ms^3 + C_3C_5L_5R_3R_4s^3 + C_3L_5R_3R_4g_ms^2 + C_3R_3R_4s + 2C_4C_5L_5R_3R_4s^3 + 2C_4L_5R_3R_4g_ms^2 + 2C_4R_3R_4s + 2C_5L_5R_3R_4g_ms^2 + 2C_5L_5$$

10.190 INVALID-ORDER-190 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.191 INVALID-ORDER-191 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_5 s - g_m\right) \left(C_4 R_4 s + 1\right)}{C_3 C_4 C_5 R_3 R_4 s^3 + C_3 C_4 R_3 R_4 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 R_3 g_m s + 2 C_4 C_5 R_3 R_4 g_m s^2 + 2 C_4 C_5 R_3 s^2 + C_4 C_5 R_4 s^2 + 2 C_4 R_3 g_m s + C_4 R_4 g_m s + 2 C_5 R_3 g_m s + C_5 s + g_m R_5 r_0 + 2 C_5 R_3 r_0 + 2 C_5 R_3$$

10.192 INVALID-ORDER-192 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{R_3 \left(C_4 R_4 s + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{C_3 C_4 C_5 R_3 R_4 R_5 s^3 + C_3 C_4 R_3 R_4 R_5 g_m s^2 + C_3 C_4 R_3 R_4 s^2 + C_3 C_5 R_3 R_5 s^2 + C_4 C_5 R_3 R_5 s^2 + 2 C_4 C_5 R_3 R_5 s^2 + 2 C_4 R_3 R_4 g_m s + 2 C_4 R_3 R_5 g_m s + C_4 R_4 R_5 g_m s + C_5 R_5 s + 2 R_3 g_m s + C_5 R_5 s + 2 R_3 g_m s + C_5 R_5 s + 2 R_3 g_m s + C_5 R_5 s + 2 R_3 g_m s + C_5 R_5 g_m s + C$$

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10.193 INVALID-ORDER-193 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_3 \left( C_4 R_4 s + 1 \right) \left( C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_4 C_5 R_3 R_4 R_5 g_m s^3 + C_3 C_4 C_5 R_3 R_4 g_m s^2 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 R_4 g_m s^2 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_5 g_m s^2 + 2 C_4 C_5 R_5 g_m s^2 + 2 C_5 R_
10.194 INVALID-ORDER-194 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_3 \left( C_4 R_4 s + 1 \right) \left( C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{C_3 C_4 C_5 L_5 R_3 R_4 g_m s^4 + C_3 C_4 C_5 R_3 R_4 g_m s^2 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 g_m s^3 + C_4 C_5 L_5 R_3 g_m s^3 + C_4 C_5 R_3 g_m s^3 + C_5 R_5 g_m s^3 + C_
10.195 INVALID-ORDER-195 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = -\frac{R_3 \left(C_4 R_4 s + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{C_3 C_4 C_5 L_5 R_3 R_4 s^4 + C_3 C_4 L_5 R_3 R_4 g_m s^3 + C_3 C_4 L_5 R_3 R_4 g_m s^2 + C_3 L_5 R_3 g_m s^2 + C_4 L_5 R_3 g_m s^2 + C_5 L_5 R_3 g_m s^2
10.196 INVALID-ORDER-196 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R_3 \left( C_4 R_4 s + 1 \right) \left( C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)
H(s) = \frac{R_3 \left( C_4 R_4 s + 1 \right) \left( C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_4 C_5 L_5 R_3 R_4 g_m s^4 + C_3 C_4 C_5 R_3 R_4 R_5 g_m s^3 + C_3 C_4 C_5 R_3 R_4 g_m s^3 + C_3 C_4 C_5 R_3 R_4 g_m s^3 + C_4 C_5 L_5 R_3 g_m s^3 + C_4 C_5 R_3 R_4 g_m s^3 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 C_5 R_3 R_5 g_m s^3 + C_4 C_5 R_5 R_5 g_m s^3 + 
10.197 INVALID-ORDER-197 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R_3 (C_4 R_4 s + 1) (C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)
                                                   10.198 INVALID-ORDER-198 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R_3 (C_4 R_4 s + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)
H(s) = \frac{R_3 \left( C_4 R_4 s + 1 \right) \left( C_5 L_5 R_3 g_m s^4 + C_3 C_4 L_5 R_3 g_m s^4 - C_5 L_5 s^3 + L_5 g_m s + R_5 g_m - 1 \right)}{C_3 C_4 C_5 L_5 R_3 R_4 R_5 g_m s^4 + C_3 C_4 L_5 R_3 R_4 g_m s^3 + C_3 C_4 R_3 R_4 g_m s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_5 L_5 R_5 
10.199 INVALID-ORDER-199 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{1}{C_3C_4C_5L_5R_3R_4R_5g_ms^4 + C_3C_4C_5L_5R_3R_4s^4 + C_3C_4C_5L_5R_3R_4s^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5g_ms^3 + C_3C_5L_5R_5
10.200 INVALID-ORDER-200 Z(s) = \left(\infty, \infty, \frac{R_3}{C_2 R_2 s + 1}, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                                                                  H(s) = \frac{R_3 \left( R_5 g_m - 1 \right) \left( C_4 L_4 s^2 + 1 \right)}{C_3 C_4 L_4 R_3 R_5 g_m s^3 + C_3 C_4 L_4 R_3 s^3 + C_3 R_3 R_5 g_m s + C_4 L_4 R_3 g_m s^2 + C_4 L_4 R_5 g_m s^2 + C_4 L_4 s^2 + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 s + 2 R_3 g_m + R_5 g_m + 1}
10.201 INVALID-ORDER-201 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                           H(s) = -\frac{R_3 \left(C_5 s - g_m\right) \left(C_4 L_4 s^2 + 1\right)}{C_3 C_4 C_5 L_4 R_3 s^4 + C_3 C_4 L_4 R_3 g_m s^3 + C_3 C_5 R_3 s^2 + C_3 R_3 g_m s + 2 C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_4 s^3 + 2 C_4 C_5 R_3 s^2 + C_4 L_4 g_m s^2 + 2 C_4 R_3 g_m s + 2 C_5 R_3 g_m s + C_5 s + g_m R_3 \left(C_5 s - g_m\right) \left(C_5 s - g
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10.202 INVALID-ORDER-202 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{C_3 C_4 C_5 L_4 R_3 R_5 s^4 + C_3 C_4 L_4 R_3 R_5 g_m s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 R_5 g_m s + C_4 C_5 L_4 R_3 R_5 g_m s^3 + C_4 L_4 R_5 g_m
10.203 INVALID-ORDER-203 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_3 \left( C_4 L_4 s^2 + 1 \right) \left( C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_4 C_5 L_4 R_3 R_5 g_m s^4 + C_3 C_4 C_5 L_4 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 R_3 R_5 g_m s^2 + 2 C_4 R_3 g_m s + 2 C_5 R_3 g_m s + C_5 R_5 g_m s + C_
10.204 INVALID-ORDER-204 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R_3 \left( C_4 L_4 s^2 + 1 \right) \left( C_5 L_5 g_m s^2 - C_5 s + g_m \right)
H(s) = \frac{R_3 \left( C_4 L_4 s^2 + 1 \right) \left( C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{C_3 C_4 C_5 L_4 L_5 R_3 g_m s^5 + C_3 C_4 C_5 L_4 R_3 s^4 + C_3 C_4 L_4 R_3 g_m s^3 + C_3 C_5 R_3 g_m s^3 + C_4 C_5 L_4 L_5 g_m s^4 + 2 C_4 C_5 L_4 R_3 g_m s^3 + 2 C_4 C_5 L_4 R_3 g_m s^3 + 2 C_4 C_5 R_3 g_m s^3 + 2 C_4 
10.205 INVALID-ORDER-205 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.206 INVALID-ORDER-206 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                     R_{3}\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}L_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)
C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}g_{m}s^{5}+C_{3}C_{4}C_{5}L_{4}R_{3}s_{g}s^{4}+C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{5}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{5}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{3}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m
10.207 INVALID-ORDER-207 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R_3 (C_4 L_4 s^2 + 1) (C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)
                                               \frac{C_3C_4C_5L_4L_5R_3R_5s^5 + C_3C_4L_4L_5R_3R_5g_ms^4 + C_3C_4L_4L_5R_3s^6 + C_3C_4L_4L_5R_
10.208 INVALID-ORDER-208 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R_3 \left( C_4 L_4 s^2 + 1 \right) \left( C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)
10.209 INVALID-ORDER-209 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                               \frac{R_3\left(C_4L_4s + 1\right)\left(-C_5L_5R_5g_ms + C_5L_5s_ms + C_5
10.210 INVALID-ORDER-210 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right)
                                                                                                                                                                                                                                                                                                                        H(s) = \frac{L_4 R_3 s \left(-C_5 s + g_m\right)}{C_3 C_5 L_4 R_3 s^3 + C_3 L_4 R_3 g_m s^2 + 2 C_4 C_5 L_4 R_3 s^3 + 2 C_4 L_4 R_3 g_m s^2 + 2 C_5 L_4 R_3 g_m s^2 + C_5 L_4 s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + 2
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10.211 INVALID-ORDER-211
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(-C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 L_4 R_3 R_5 s^3 + C_3 L_4 R_3 R_5 g_m s^2 + C_3 L_4 R_3 R_5 s^3 + 2 C_4 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_4 R_3 R_5 g_m s^2 + 2 C_5 L_4 R_3 R_5 g_m s^2 + C_5 L_4 R_5 s^2 + 2 C_5 R_3 R_5 s + 2 L_4 R_3 g_m s + L_4 R_5 g_m s + L_4 s + 2 R_3 R_5 g_m + 2 R_3 R_5 g_m s^2 + 2 R_5 R_5 g_m s^2 + 2 R$$

10.212 INVALID-ORDER-212
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_4 R_3 R_5 g_m s^3 + C_3 C_5 L_4 R_3 s^3 + C_3 L_4 R_3 g_m s^2 + 2 C_4 C_5 L_4 R_3 g_m s^3 + 2 C_4 C_5 L_4 R_3 g_m s^3 + 2 C_4 L_4 R_3 g_m s^2 + 2 C_5 L_4 R_5 g_m s^2 + C_5 L_4 s^2 + 2 C_5 R_3 R_5 g_m s + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 R_5 g_m s^2 + C_5 R_5 R_5 R_5 g_m s^2 + C_5 R_5 R_5 g_$$

10.213 INVALID-ORDER-213
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_5 L_4 L_5 R_3 g_m s^4 + C_3 C_5 L_4 R_3 s^3 + C_3 L_4 R_3 g_m s^2 + 2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + 2 C_4 C_5 L_4 R_3 s^3 + 2 C_4 L_4 R_3 g_m s^2 + C_5 L_4 L_5 g_m s^3 + 2 C_5 L_4 R_3 g_m s^2 + C_5 L_4 s^2 + 2 C_5 L_5 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s^2 + 2 C_5 R_3 s + L_4 g_m s + 2 R_3 g_m s + 2 R_$$

10.214 INVALID-ORDER-214
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{C_3 C_5 L_4 L_5 R_3 s^4 + C_3 L_4 L_5 R_3 g_m s^3 + C_3 L_4 L_5 R_3 g_m s^3 + 2 C_4 L_4 L_5 R_3 g_m s^3 + 2 C_4 L_4 L_5 R_3 g_m s^3 + 2 C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_4 L_5 s^3 + 2 C_5 L_5 R_3 s^2 + L_4 L_5 g_m s^2 + 2 L_4 R_3 g_m s + L_4 s + 2 L_5 R_3 g_m s + 2 R_3 g_m s^3 + 2 C_5 L_5 R_3 s^2 + 2 C_5 L_5 R_5 r_5$$

10.215 INVALID-ORDER-215
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_4 L_5 R_3 g_m s^4 + C_3 C_5 L_4 R_3 R_5 g_m s^3 + C_3 C_5 L_4 R_3 g_m s^2 + 2 C_4 C_5 L_4 L_5 R_3 g_m s^4 + 2 C_4 C_5 L_4 R_3 g_m s^3 + 2 C_4 L_4 R_3 g_m s^2 + C_5 L_4 R_3 g_m s^2 + 2 C_5 R_3 R_5 g_m s + 2 C_5 R_3 R_5 g_m s + 2 C_5 R_3 R_5 g_m s^2 + 2 C_5 R_5 R_5 g_m$$

10.216 INVALID-ORDER-216
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{C_3 C_5 L_4 L_5 R_3 R_5 s^4 + C_3 L_4 L_5 R_3 R_5 g_m s^3 + C_3 L_4 L_5 R_3 R_5 s^4 + 2 C_4 L_4 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_4 L_5 R_3 R_5 g_m s^3 + 2 C_4 L_4 L_5 R_3 R_5 g_m s^3 + C_5 L_5 R_5 g_m s^3 + C_5$$

10.217 INVALID-ORDER-217
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{C_3 C_5 L_4 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_4 L_5 R_3 g_m s^3 + C_3 L_4 R_3 R_5 g_m s^2 + 2 C_4 C_5 L_4 L_5 R_3 g_m s^3 + 2 C_4 L_4 R_3 R_5 g_m s^3 + 2 C_4 L_4 R_3 R_5 g_m s^3 + C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_5 R_3 R_5 g_m s^3 + C_5 L_5 R_5$$

10.218 INVALID-ORDER-218
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{L_4 R_3 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 L_4 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_4 L_5 R_3 s^4 + C_3 C_5 L_4 L_5 R_3 s^4 + C_3 C_5 L_4 L_5 R_3 s^4 + C_4 C_5 L_4 L_5 R_3 s^4 + 2 C_4 L_4 R_3 s^2 + 2 C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_4 L_5 R_5 g_m s^3 + C_5 L_5 L_5 R_5 g_m s^3 +$$

10.219 INVALID-ORDER-219
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

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10.220 INVALID-ORDER-220 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
```

$$H(s) = -\frac{R_3 \left(C_5 s - g_m\right) \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right)}{C_3 C_4 C_5 L_4 R_3 s^4 + C_3 C_4 C_5 R_3 R_4 s^3 + C_3 C_4 L_4 R_3 g_m s^3 + C_3 C_4 R_3 R_4 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_3 s^2 + C_4 C_5 R_3 R_4 g_m s^3 + C_4 C_5 R_3 R_4 g_m s^2 + 2 C_4 C_5 R_3 s^2 + C_4 C$$

10.221 INVALID-ORDER-221
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = -\frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{C_3 C_4 C_5 L_4 R_3 R_5 s^4 + C_3 C_4 C_5 R_3 R_4 R_5 s^3 + C_3 C_4 L_4 R_3 s^3 + C_3 C_4 L_4 R_3 s^3 + C_3 C_4 R_3 R_4 s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_3 R_5 s^2 + C_4 C_5 R_3 R_4 R_5 g_m s^3 + C_4 C_5 L_4 R_3 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 R_3 R_4 R_5 g_m s^3 + C_4 C_5 R_3 R_5 g_m s^3 + C_4 C_5 R_5 R_5 g_m s^3 + C_4 C_5 R_5 R_5 g_m s^3 + C_5 R_5$$

10.222 INVALID-ORDER-222
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1 \right) \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_4 C_5 L_4 R_3 R_5 g_m s^4 + C_3 C_4 C_5 R_3 R_4 R_5 g_m s^3 + C_3 C_4 C_5 R_3 R_4 g_m s^3 + C_3 C_4 R_3 R_4 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_$$

10.223 INVALID-ORDER-223
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{C_3 C_4 C_5 L_4 L_5 R_3 g_m s^5 + C_3 C_4 C_5 L_4 R_3 s^4 + C_3 C_4 C_5 L_5 R_3 R_4 g_m s^4 + C_3 C_4 C_5 L_4 R_3 g_m s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_5 R_3 g_m s^3 + C_4 C_5 L_5 R_3 g_m s^3 + C_4 C_5 L_4 R_3 g_m s^3 + C_4 C_5 L_5 R_3 g_m s^3 + C_5 C_5 R_5 R_5 g_m s^3 + C_5 C_5 R_5 R_5$$

10.224 INVALID-ORDER-224
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

10.225 INVALID-ORDER-225
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_3 \left(C_4 L_4 s^2 + C_4 R_4 s + 1 \right) \left(C_5 L_5 g_4 R_5 R_4 R_5 g_m s^3 + C_3 C_4 C_5 L_4 R_3 R_5 g_m s^4 + C_3 C_4 C_5 L_4 R_3 R_4 g_m s^4 + C_3 C_4 C_5 R_3 R_4 R_5 g_m s^3 + C_3 C_4 L_4 R_3 g_m s^3 + C_3 C_4 R_3 R_4 g_m s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^3 + C_3 C_5 R_5 R_5 g_m s^3 + C_3 C_5 R_5 R_5 g_m s^3 + C_3 C_5 R_5 R_5 g_m s^3 + C_5 C_5 R_5$$

10.226 INVALID-ORDER-226
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{1}{C_3C_4C_5L_4L_5R_3R_5s^5 + C_3C_4C_5L_5R_3R_4R_5s^4 + C_3C_4L_4L_5R_3R_5g_ms^4 + C_3C_4L_4R_3R_5s^3 + C_3C_4L_5R_3R_4s^3 + C_3C_4L_5R_3R_4s^3 + C_3C_4L_5R_3R_4s^3 + C_3C_4L_5R_3R_4s^3 + C_3C_4L_5R_3R_5s^3 + C_3C_4L_5R_5R_5s^3 + C_3C_4L_5R_5s^3 +$$

10.227 INVALID-ORDER-227
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{1}{C_3C_4C_5L_4L_5R_3R_5g_ms^5 + C_3C_4C_5L_4L_5R_3s^5 + C_3C_4C_5L_5R_3R_4R_5g_ms^4 + C_3C_4L_4L_5R_3g_ms^4 + C_3C_4L_4R_3s^3 + C_3C_4L_4R_3s^3 + C_3C_4L_5R_3R_4g_ms^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_4s^3 + C_3C_4L_4R_3s^3 + C_3C_4L$$

10.228 INVALID-ORDER-228
$$Z(s) = \left(\infty, \ \infty, \ \frac{R_3}{C_3 R_3 s + 1}, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)$$

$$H(s) = -\frac{1}{C_3C_4C_5L_4L_5R_3R_5g_ms^5 + C_3C_4C_5L_4L_5R_3s^5 + C_3C_4C_5L_4R_3R_5s^4 + C_3C_4C_5L_5R_3R_4R_5g_ms^4 + C_3C_4C_5R_3R_4s^4 + C_3C_4C_5R_3R_4s^3 + C_3C_4L_4R_3s^3 + C_3C_4L_4R_3s^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_3R_4s^4 + C_3C_4C_5L_5R_3R_4s^4 + C_3C_4C_5R_3R_4s^3 + C_3C_4L_4R_3s^3 + C_3C_4L_4R_3s^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_4L_4R_3s^3 + C_3C_4L_4R_3s^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_4L_4R_3s^3 + C_3C_4L_4R_3s^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_4R_3R_5g_ms^3 + C_3C_4R_3R_4s^2 + C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5R_5g_ms^3 + C_3C_5L_5R_5g_ms^3 +$$

10.230 INVALID-ORDER-230 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5}{C_5R_5s+1}, \infty\right)$ 10.231 INVALID-ORDER-231 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5 + \frac{1}{C_5s}, \infty\right)$ $H(s) = \frac{L_4 R_3 R_4 s \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_4 R_3 R_4 R_5 g_m s^3 + C_3 C_5 L_4 R_3 R_4 g_m s^2 + 2 C_4 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_4 R_3 R_4 g_m s^2 + 2 C_5 L_4 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_5 R_5 g_m s^2 + 2 C_5 R_$ 10.232 INVALID-ORDER-232 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ **10.233** INVALID-ORDER-233 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$ $H(s) = \frac{L_4 R_3 R_4 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{C_3 C_5 L_4 L_5 R_3 R_4 s^4 + C_3 L_4 L_5 R_3 R_4 g_m s^3 + C_3 L_4 R_3 R_4 s^2 + 2 C_4 L_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 s^2 + 2 L_4 L_5 R_3 g_m s^2 + L_4 L_5 R_3 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 g_m s^3 + 2 C_5 L_5 g_m s^3 + 2 C_5 L_5 g_m s^3$ **10.234** INVALID-ORDER-234 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$ $L_4R_3R_4s\left(C_5L_5g_ms^2+C_5R_5g_ms-C_5s+g_m\right)$ $H(s) = \frac{L_4 R_3 R_4 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_5 L_4 L_5 R_3 R_4 g_m s^4 + C_3 C_5 L_4 R_3 R_4 g_m s^3 + C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 L_5 R_3 R_4 g_m s^3 + 2 C_4 L_5 R_3 g_m s^3 + C_5 L_4 L_5 R_3 g_m s^3 + C_5 L_4 L_5 R_3 g_m s^3 + 2 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_5 L_4$ 10.235 INVALID-ORDER-235 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$ 10.236 INVALID-ORDER-236 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$ $H(s) = \frac{\frac{L_4 L_3 L_4 S_3 (C_5 L_4 L_5 R_3 R_4 R_5 g_m s^4 + C_3 C_5 L_4 L_5 R_3 R_4 g_m s^3 + C_3 L_4 L_5 R_3 R_4 g_m s^3 + C_4 L_4 R_3 R_4 g_m s^3 + C_4 L_4 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_3 R_4 g_m s^3 + 2 C_4 L_4 R_3 R_4 g_m s^3 + 2 C_4 L_4 R_3 R_4 g_m s^3 + 2 C_5 L_4 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_4 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 R_5 g_m$ 10.237 INVALID-ORDER-237 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$ $L_4R_3R_4s \left(C_5L_5R_5g_ms^2-C_5\right)$ $H(s) = \frac{L_4 R_5 R_4 R_5 g_m s^4 + C_3 C_5 L_4 L_5 R_3 R_4 R_5 g_m s^4 + C_3 C_5 L_4 L_5 R_3 R_4 R_5 g_m s^4 + C_3 C_5 L_4 L_5 R_3 R_4 R_5 g_m s^4 + 2 C_4 C_5 L_4 R_5 R_5 g_m s^4 + 2 C_4 C_5 L_4 R_5 R_5 g_m s^4 + 2 C_5 L_5 R$

10.229 INVALID-ORDER-229 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{1}{C_5s}, \infty\right)$

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10.238 INVALID-ORDER-238 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)
```

 $R_3 \left(R_5 g_m - 1 \right) \left(C_4 L_4 R_4 s^2 + L_4 s + R_4 \right)$ $H(s) = \frac{R_3 \left(R_5 g_m - 1 \right) \left(C_4 L_4 R_4 s^2 + L_4 s + R_4 \right)}{C_3 C_4 L_4 R_3 R_4 S_9 m^3 + C_3 C_4 L_4 R_3 R_4 s^3 + C_3 L_4 R_3 S_9 m^2 + C_3 L_4 R_3 S_9 m^2 + 2 C_4 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_4 R_3 S_9 m^2 +$

10.239 INVALID-ORDER-239 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)$

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

10.240 INVALID-ORDER-240 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $R_3 (C_5 R_5 s - R_5 g_m + 1) (C_4 L_4 R_4 s^2 + L_4 s + R_5 r_5)$

10.241 INVALID-ORDER-241 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_3 \left(C_4 L_4 R_4 s^2 + L_4 s + R_4 \right) \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{C_3 C_4 C_5 L_4 R_3 R_4 q_m s^4 + C_3 C_4 C_5 L_4 R_3 R_4 g_m s^3 + C_3 C_5 L_4 R_3 R_4 g_m s^3 + C_3 C_5 L_4 R_3 R_4 g_m s^3 + C_3 C_5 L_4 R_3 R_4 g_m s^3 + C_4 C_5 L_4 R_3 R_5 g_m s^3 + C_4 C_5 L_4 R_5 g_m s^3 + C_4 C_5 L_$

10.242 INVALID-ORDER-242 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

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

10.243 INVALID-ORDER-243 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $R_3 \left(C_5 L_5 s^2 - L_5 g_m s + 1 \right) \left(C_4 L_4 R_4 s^2 + L_4 s + L_5 g_m s^2 \right)$ $\frac{R_3 \left(C_5 L_5 s^2 - L_5 g_m s + 1\right) \left(C_4 L_4 R_4 s^2 + L_4 s + L_$

10.244 INVALID-ORDER-244 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{1}{C_3C_4C_5L_4L_5R_3R_4g_ms^5 + C_3C_4C_5L_4R_3R_4g_ms^4 + C_3C_4L_4R_3R_4g_ms^3 + C_3C_5L_4R_3g_ms^4 + C_3C_5L_4R_3g_ms^3 + C_3C_5L_4R_3g_ms^3$

10.245 INVALID-ORDER-245 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $-\frac{C_3C_4C_5L_4L_5R_3R_4R_5s^5 + C_3C_4L_4L_5R_3R_4R_5s^3 + C_3C_4L_4L_5R_3R_4s^4 + C_3C_4L_4L_5R_3R_4s^3 + C_3C_5L_4L_5R_3R_5s^3 + C_3L_4L_5R_3s^3 + C_3L_4L_5R_3s^3 + C_3L_4L_5R_3s^3 + C_3L_4R_3s^3 + C_3L_4R_3s^3$

10.246 INVALID-ORDER-246 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

 $H(s) = \frac{1}{C_3C_4C_5L_4L_5R_3R_4R_5g_ms^5 + C_3C_4C_5L_4L_5R_3R_4s^5 + C_3C_4L_4L_5R_3R_4g_ms^4 + C_3C_5L_4L_5R_3R_4s^3 + C_3C_5L_4L_5R_3s^4 + C_3C_5L_5R_3s^4 + C_3C_5L$

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10.247 INVALID-ORDER-247 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
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 $H(s) = -\frac{1}{C_3C_4C_5L_4L_5R_3R_4R_5g_ms^5 + C_3C_4C_5L_4L_5R_3R_4s^5 + C_3C_4C_5L_4R_3R_4s^5 + C_3C_4L_4R_3R_4R_5g_ms^3 + C_3C_5L_4L_5R_3R_5g_ms^4 + C_3C_5L_4L_5R_3R_4s^5 + C_3C_5L_4R_3R_4s^5 +$

10.248 INVALID-ORDER-248
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$$

 $H(s) = \frac{R_3R_4\left(R_5g_m - 1\right)\left(C_4L_4s^2 + 1\right)}{C_3C_4L_4R_3R_4s^3 + C_3C_4L_4R_3R_4s^3 + C_3R_3R_4s + 2C_4L_4R_3R_4g_ms^2 + 2C_4L_4R_3s^2 +$

10.249 INVALID-ORDER-249 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = -\frac{R_3R_4\left(C_5s - g_m\right)\left(C_4L_4s^2 + 1\right)}{C_3C_4C_5L_4R_3R_4s^4 + C_3C_4L_4R_3R_4g_ms^3 + C_3C_5R_3R_4s^2 + C_3R_3R_4g_ms + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_4R_3s^3 + 2C_4C_5L_4R_3g_ms^2 + 2C_4R_3R_4g_ms + 2C_5R_3R_4g_ms + 2C_5R_3s + C_5R_4s + 2R_3g_m + R_4g_ms^2\right)}$

10.250 INVALID-ORDER-250 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{R_3R_4\left(C_4L_4s^2 + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{C_3C_4C_5L_4R_3R_4R_5s^4 + C_3C_4L_4R_3R_4S_5g_ms^3 + C_3C_4L_4R_3R_4s^3 + C_3C_5R_3R_4R_5s^2 + C_3R_3R_4R_5g_ms^3 + 2C_4C_5L_4R_3R_5s^3 + 2C_4C_5L_4R_3R_4S_5s^3 + 2C_4C_5R_3R_4R_5s^2 + 2C_4L_4R_3R_4g_ms^2 + 2C_4L_4R_3R_5g_ms^2 + 2C_4L_4R_3R_5g_ms^2 + 2C_4L_4R_3R_4g_ms^2 + 2C_4L_4R_3R_4g_ms$

10.251 INVALID-ORDER-251 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_3 R_4 \left(C_4 L_4 s^2 + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_4 C_5 L_4 R_3 R_4 g_m s^4 + C_3 C_4 C_5 L_4 R_3 R_4 g_m s^3 + C_4 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_4 R_5 g_m s^3 +$

10.252 INVALID-ORDER-252 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

10.253 INVALID-ORDER-253 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $I(s) = -\frac{R_3R_4\left(C_4L_4s^2 + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{C_3C_4C_5L_4L_5R_3R_4s^5 + C_3C_4L_4L_5R_3R_4g_ms^4 + C_3C_4L_4R_3R_4s^3 + C_3C_5L_5R_3R_4s^3 + C_4C_5L_4L_5R_3R_4g_ms^4 + 2C_4C_5L_4L_5R_3s^4 + 2C_4C_5L_5L_5R_3s^4 + 2C_4C_5L_5L$

10.254 INVALID-ORDER-254 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_3R_4\left(C_4L_4s^3 + L_5R_3R_4g_ms^5 + C_3C_4C_5L_4R_3R_4g_ms^4 + C_3C_4C_5L_4R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^4 + C_4C_5L_4L_5R_3g_ms^4 + C_4C_5L_4L_5R_3g_ms^4 + C_4C_5L_4R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^4 + C_4C_5L_4L_5R_3g_ms^4 + C_4C_5L_4L_5R_3g_ms^4 + C_4C_5L_4R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^4 + C_4C_5L_4L_5R_3g_ms^4 + C_4C_5L_4R_3R_4g_ms^3 + C_4C_5L_4R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^4 + C_4C_5L_4L_5R_3g_ms^4 + C_4C_5L_4R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^4 + C_4C_5L_4R_3R_4g_ms^3 + C_4C_5L_4R_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^3 + C_3C_5R_3R_4g_$

10.255 INVALID-ORDER-255 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

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10.256 INVALID-ORDER-256 Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
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 $H(s) = \frac{1}{C_3 C_4 C_5 L_4 L_5 R_3 R_4 R_5 g_m s^5 + C_3 C_4 C_5 L_4 L_5 R_3 R_4 s^5 + C_3 C_4 L_4 R_3 R_4 g_m s^4 + C_3 C_4 L_4 R_3 R_4 s^3 + C_3 C_5 L_5 R_3 R_4 s^3 + C_3 C_5 L_5 R_3 R_4 s^3 + C_3 C_5 L_5 R_3 R_4 g_m s^4 + C_3 C_4 L_4 R_3 R_4 g_m s^4 + C_3 C_4 L_4 R_3 R_4 g_m s^3 + C_3 C_5 L_5 R_5 R_5 g_m s^3 + C_5 C_5 L_5 R_5 g_m s^3 + C_5 C_5 L_$

10.257 INVALID-ORDER-257
$$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

10.258 INVALID-ORDER-258 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(R_5 g_m - 1 \right) \left(C_3 R_3 s + 1 \right)}{2 C_3 R_3 R_4 g_m s + 2 C_3 R_3 R_5 g_m s + 2 C_3 R_3 s + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 R_4 g_m + 2 R_5 g_m + 2 R_5 g_m s + 2$$

10.259 INVALID-ORDER-259 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_3 R_3 s + 1\right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{2 C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_4 g_m s^3 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 s^2 + C_3 C_5 R_4 s^2 + 2 C_3 R_3 g_m s + C_3 R_4 g_m s + 2 C_5 L_5 g_m s^2 + 2 C_5 R_4 g_m s + 2 C_5 s + 2 g_m r^2}$$

10.260 INVALID-ORDER-260 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, R_4, \frac{L_{5s}}{C_5 L_{5s}^2 + 1}, \infty\right)$

$$H(s) = -\frac{R_4 \left(C_3 R_3 s + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_3 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_4 s^3 + 2 C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_4 g_m s^2 + 2 C_3 R_3 R_4 g_m s + 2 C_3 R_3 s + C_3 R_4 s + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 s^2 + 2 L_5 g_m s + 2 R_4 g_m + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 L_5 R_5$$

10.261 INVALID-ORDER-261 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_3 R_3 s + 1 \right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_4 g_m s^3 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 s^2 + C_3 C_5 R_4 R_5 g_m s^2 + 2 C_3 R_3 g_m s + C_3 R_4 g_m s + 2 C_5 L_5 g_m s^2 + 2 C_5 R_5 g_m s + 2$$

10.262 INVALID-ORDER-262 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = -\frac{1}{(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)}{R_4 (C_3 R_3 s + 1) (C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)}$$

 $H(s) = -\frac{R_4 \left(C_3 R_3 s + 1\right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{2 C_3 C_5 L_5 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_4 R_5 s^3 + 2 C_3 L_5 R_3 R_4 g_m s^2 + 2 C_3 L_5 R_3 R_5 g_m s^2 + 2 C_3 L_5 R_3 R_4 g_m s^2 + 2 C_3 L_5 R_3 R_4 g_m s^2 + 2 C_3 L_5 R_3 R_5 g_m s^2 + 2 C_3 L_5 R_4 R_5 g_m s^2 + 2 C_5 L_5 R_5 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s$

10.263 INVALID-ORDER-263 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$R_4 (C_3 R_3 s + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)$$

 $H(s) = \frac{R_4 \left(C_3 R_3 s + 1 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 C_3 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 g_m s^3 + 2 C_3 L_5 R_4 g_m s^2 + 2 C_3 R_3 R_4 g_m s + 2 C_3 R_3 R_4 g_m s + 2 C_3 R_3 R_4 g_m s + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_$

10.264 INVALID-ORDER-264 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$R_4 (C_3 R_3 s + 1) (-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m + 1)$$

 $\frac{1}{2C_3C_5L_5R_3R_4g_ms^3 + 2C_3C_5L_5R_3R_5g_ms^3 + 2C_3C_5L_5R_3s^3 + C_3C_5L_5R_4g_ms^3 + 2C_3C_5R_3R_4g_ms^3 + 2C_3C_5R_3R_4$

10.265 INVALID-ORDER-265 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

10.266 INVALID-ORDER-266 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

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

10.267 INVALID-ORDER-267 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

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

10.268 INVALID-ORDER-268 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

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

10.269 INVALID-ORDER-269 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

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

10.270 INVALID-ORDER-270 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

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

10.271 INVALID-ORDER-271 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

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

10.272 INVALID-ORDER-272
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$(C_3R_3s+1)\left(C_5L_5R_5q_ms^2-C_5L_5s^2+L_5q_ms+R_5q_m\right)$$

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

10.273 INVALID-ORDER-273
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

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

 $10.274 \quad \text{INVALID-ORDER-274} \quad Z(s) = \left(\infty, \ \infty, \ R_3 + \frac{1}{C_{23}}, \ \frac{R_L}{C_{24}R_1R_1}, \ \frac{1}{C_{25}}, \ \infty \right)$ $R_L(C_5s - g_m)(C_5R_5s + 1)$ $R_L(C_5s - g_m)(C_5R_5s + 2)$ $R_L(C_5s - g_m)(C_5R_5s - R_5g_m + 1)$ $R_L(C_5s - g_m)(C_5R_5s + 2)$ $R_L(C_5s - g_m)(C_5R_5s - R_5g_m + 1)$ $R_L(C_5s - g_m)(C_5s - R_5g_m + 1)$ $R_L(C_5s - R_5g_m + 2)$ $R_L(C_5s - R_5g_m + 2)$

 $2C_{3}C_{4}C_{5}L_{5}R_{3}R_{4}s^{4} + 2C_{3}C_{4}L_{5}R_{3}R_{4}g_{m}s^{3} + 2C_{3}C_{4}L_{5}R_{3}R_{4}g_{m}s^{3} + 2C_{3}C_{5}L_{5}R_{3}s^{3} + 2C_{3}C_{5}L_{5}R_{3}s^{3} + 2C_{3}C_{5}L_{5}R_{3}s^{3} + 2C_{3}C_{5}L_{5}R_{4}s^{3} + 2C_{3}C_{5}L_{5}R_{5}R_{5}s^{3} + 2C_{3}C_{5}L_{5}R_{5}R_{5}s^{3} + 2C_{3}C_{5}L_{5}R_{5}R_{5}s^{3}$

10.279 INVALID-ORDER-279 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_4 \left(C_3 R_3 s + 1\right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_3 C_4 C_5 L_5 R_3 R_4 g_m s^4 + 2 C_3 C_4 C_5 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_4 C_5 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_3 g_m s^3 + 2 C_3 C_5 R_3 R_4 g_m s^3 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_4 R_5 g_m s^2 + 2 C_3 C_5 R_5 R_5 g_m s^2 + 2 C_5 R_$

10.280 INVALID-ORDER-280 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = -\frac{R_4 \left(C_3 R_3 s+1\right) \left(C_5 L_5 R_5 s^2-L_5 R_5 g_m s+L_5 s+R_5\right)}{2 C_3 C_4 C_5 L_5 R_3 R_4 R_5 s^4+2 C_3 C_4 L_5 R_3 R_4 R_5 g_m s^3+2 C_3 C_5 L_5 R_3 R_5 g_m s^3+2 C_3 C_5 L_5 R_3 R_5 g_m s^3+2 C_3 C_5 L_5 R_5 R_5 g_m s^3+2 C_5 L_5 R_5 g_m s^3+2 C_5$

10.281 INVALID-ORDER-281 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(C_3 R_3 s + 1 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 R_5 R_5 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_5 g_m s^3 + 2 C_5 L_5$

10.282 INVALID-ORDER-282 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.283 INVALID-ORDER-283 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$ $H(s) = -\frac{\left(C_{5}s - g_{m}\right)\left(C_{3}R_{3}s + 1\right)\left(C_{4}R_{4}s + 1\right)}{s\left(2C_{3}C_{4}C_{5}R_{3}R_{4}g_{m}s^{2} + 2C_{3}C_{4}C_{5}R_{3}s^{2} + C_{3}C_{4}C_{5}R_{4}s^{2} + 2C_{3}C_{4}R_{3}g_{m}s + C_{3}C_{4}R_{4}g_{m}s + 2C_{3}C_{5}R_{3}g_{m}s + C_{3}C_{5}s + C_{3}g_{m} + 2C_{4}C_{5}R_{4}g_{m}s + 2C_{4}C_{5}s + 2C_{4}g_{m} + 2C_{5}g_{m}\right)}$ **10.284** INVALID-ORDER-284 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $\frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}R_{4}s+1\right)\left(C_{5}R_{5}s-R_{5}g_{m}+1\right)}{2C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}g_{m}s^{3}+2C_{3}C_{4}C_{5}R_{3}R_{5}s^{3}+C_{3}C_{4}C_{5}R_{4}R_{5}s^{3}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{4}C_{5}R_{4}R_{5}g_{m}s^{2}+2C_{4}C_{5}R_{4}R_{5}g_{m}s^{2}+2C_{4}C_{5}R_{4}R_{5}g_{m}s^{2}+2C_{4}C_{5}R_{4}R_{5}g_{m}s^{2}+2C_{4}C_{5}R_{5}R_{5}g_{m}s^{2}+2C_{4}C_{5}R_{5}R_{5}g_{m}s^{2}+2C_{4}C_{5}R_{5}R_{5}g_{m}s^{2}+2C_{4}C_{5}R_$ 10.285 INVALID-ORDER-285 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}R_{4}s+1\right)\left(C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{s\left(2C_{3}C_{4}C_{5}R_{3}R_{4}g_{m}s^{2}+2C_{3}C_{4}C_{5}R_{3}s^{2}+C_{3}C_{4}C_{5}R_{4}s^{2}+2C_{3}C_{4}C_{5}R_{4}s^{2}+2C_{3}C_{4}R_{5}g_{m}s+C_{3}C_{5}R_{3}g_{m}s+C_{3}C_{5}R_{3}g_{m}s+C_{3}C_{5}R_{3}g_{m}s+C_{3}C_{5}R_{3}g_{m}s+C_{3}C_{5}R_{4}g_{m}s+2C_{4}C_{5}R_{5}g_{m}s+2C_{4}C_{5}$ **10.286** INVALID-ORDER-286 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}R_{4}s+1\right)\left(C_{5}L_{5}g_{m}s^{2}-C_{5}s+g_{m}\right)}{s\left(2C_{3}C_{4}C_{5}L_{5}R_{3}g_{m}s^{3}+C_{3}C_{4}C_{5}L_{5}R_{4}g_{m}s^{3}+2C_{3}C_{4}C_{5}R_{3}s^{2}+2C_{3}C_{4}C_{5}R_{3}s^{2}+2C_{3}C_{4}R_{3}g_{m}s+C_{3}C_{5}L_{5}g_{m}s^{2}+2C_{3}C_{5}R_{3}g_{m}s+C_{3}C_{5}L_{5}g_{m}s^{2}+2C_{4}C_{5}R_{4}g_{m}s+2C_{4}C_{5}s+2C_{4}g_{m}+2C_{5}g_{m}\right)}$ 10.287 INVALID-ORDER-287 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{38}}, R_4 + \frac{1}{C_{48}}, \frac{L_{58}}{C_{5}L_{58}^2 + 1}, \infty\right)$ $(C_3R_3s+1)(C_4R_4s+1)(C_5L_5s^2-L_5g_ms+1)$ $\frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}R_{4}s+1\right)\left(C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{2C_{3}C_{4}C_{5}L_{5}R_{3}s^{4}+2C_{3}C_{4}C_{5}L_{5}R_{3}s^{4}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+C_{3}C_{4}L_{5}R_{4}g_{m}s^{3}+2C_{3}C_{4}R_{3}R_{4}g_{m}s^{2}+2C_{3}C_{4}R_{3}s^{2}+2C_{3}C_{5}L_{5}s^{3}+C_{3}L_{5}g_{m}s^{3}+C_{3}C_{4}L_{5}R_{4}g_{m}s^{3}+2C_{4}C_{5}L_{5}s^{3}+2C$ 10.288 INVALID-ORDER-288 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $(C_3R_3s+1)(C_4R_4s+1)(C_5L_5g_ms^2+C_5R_5g_ms-C_5s+g_m)$ $H(s) = \frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}R_{4}s+1\right)\left(C_{5}L_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{s\left(2C_{3}C_{4}C_{5}L_{5}R_{3}g_{m}s^{3}+C_{3}C_{4}C_{5}R_{3}R_{4}g_{m}s^{2}+2C_{3}C_{4}C_{5}R_{3}s^{2}+C_{3}C_{5}R_{3}s^{2}+C_{3}C_{5}R_{5}s^{2}+C_{3}C_{5}R_{5}s^{2}+C_{3}C_{5}R_{5}s^{2}+C_{3}C_{5}R_{5}s^{2}+C_{3}C_{5}R_{5}s^{2}+C_{5}C_{5}R_{5}s^{2}+C_{5}C_{5}R_{5}s^{2}+C_{5}C_{5}R_{5}s^{2}+C_{5}C_{5}R_{5}s^{2}+C_{5}C_{5}R_{5}s$

10.289 INVALID-ORDER-289 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $(C_3R_3s+1)(C_4R_4s+1)(C_5L_5R_5s^2-L_5R_5g_ms^2)$ $\frac{(C_3L_3C_4L_5R_3R_4R_5g_ms^4 + 2C_3C_4C_5L_5R_3R_5s^4 + C_3C_4C_5L_5R_3R_5g_ms^3 + 2C_3C_4L_5R_3R_5g_ms^3 + 2C_3C_4L_5R_5g_ms^3 + 2C_3C_4L_5R_5g_ms^3$

10.290 INVALID-ORDER-290 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_5R_3R_4g_ms^4 + 2C_3C_4C_5L_5R_3R_5g_ms^4 + 2C_3C_4C_5L_5R_3s^4 + C_3C_4C_5L_5R_4s^4 + 2C_3C_4L_5R_3g_ms^3 + C_3C_4L_5R_3g_ms^3 + 2C_3C_4R_3R_5g_ms^2 + 2C_3C_4R_5R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C_3C_4R_5$

10.291 INVALID-ORDER-291 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $(C_3R_3s+1)(C_4R_4s+1)(\overline{2C_3C_4C_5L_5R_3R_4g_ms^4 + 2C_3C_4C_5L_5R_3R_5g_ms^4 + 2C_3C_4C_5L_5R_3s^4 + C_3C_4C_5L_5R_4s^4 + 2C_3C_4C_5L_5R_4s^4 + 2C_3C_4C_5R_3R_4S_g_ms^3 + 2C_3C_4C_5R_3R_5s^3 + 2C_3C_4C_5R_3R_4g_ms^2 + 2C_3C_4R_3R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C_3$ 10.292 INVALID-ORDER-292 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$ $H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3R_3s + 1\right)\left(C_4L_4s^2 + 1\right)}{2C_3C_4L_4R_3g_ms^3 + C_3C_4L_4s^3 + 2C_3C_4R_3s + 2C_3C_4R_3s^2 + 2C_3R_3g_ms + C_3R_5g_ms + C_3s + 2C_4L_4g_ms^2 + 2C_4R_5g_ms + 2C_4s + 2g_ms^2 + 2C_4R_5g_ms + 2C_5R_5g_ms + 2C_5R_5g_ms$ **10.293** INVALID-ORDER-293 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$ $H(s) = -\frac{\left(C_5 s - g_m\right)\left(C_3 R_3 s + 1\right)\left(C_4 L_4 s^2 + 1\right)}{s\left(2C_3 C_4 C_5 L_4 R_3 g_m s^3 + C_3 C_4 C_5 L_4 s^3 + 2C_3 C_4 C_5 R_3 s^2 + C_3 C_4 L_4 g_m s^2 + 2C_3 C_4 R_3 g_m s + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 g_m + 2C_4 C_5 L_4 g_m s^2 + 2C_4 C_5 s + 2C_4 g_m + 2C_5 g_m\right)}$ 10.294 INVALID-ORDER-294 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $(C_3R_3s+1)(C_4L_4s^2+1)(C_5R_5s-R_5g_m+1)$ $\frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}R_{5}s-R_{5}g_{m}+1\right)}{2C_{3}C_{4}C_{5}L_{4}R_{3}g_{m}s^{4}+C_{3}C_{4}C_{5}L_{4}R_{5}s^{4}+2C_{3}C_{4}C_{5}R_{3}R_{5}s^{3}+2C_{3}C_{4}L_{4}R_{3}g_{m}s^{3}+C_{3}C_{4}L_{4}R_{5}g_{m}s^{3}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{5}R_{3}R_{5}g_{m}s+C_$ 10.295 INVALID-ORDER-295 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{s\left(2C_{3}C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{3}C_{4}C_{5}L_{4}S^{3}+2C_{3}C_{4}C_{5}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{4}C_{5}R_{3}g_{m}s+2C_{3}C_{5}R_{3}g_{m}s+C_{3}C_{5}R_{5}g_{m}s+C_{3$ 10.296 INVALID-ORDER-296 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}L_{5}g_{m}s^{2}-C_{5}s+g_{m}\right)}{s\left(C_{3}C_{4}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{4}C_{5}L_{4}S_{3}g_{m}s^{3}+C_{3}C_{4}C_{5}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}C_{5}R_{3}g_{m}s^{2}+2C_{3}C_{4}R_{3}g_{m}s+C_{3}C_{5}L_{5}g_{m}s^{2}+2C_{3}C_{5}R_{3}g_{m}s+C_{3}C_{5}L_{5}g_{m}s^{2}+2C_{4}C_{5}L_{5$ 10.297 INVALID-ORDER-297 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $(C_3R_3s+1)(C_4L_4s^2+1)(C_5L_5s^2-L_5g_ms+1)$ $\frac{(C_3R_3s+1)\left(C_4L_4s^2+1\right)\left(C_5L_5s^2-L_5g_ms+1\right)}{2C_3C_4C_5L_4L_5R_3g_ms^5+C_3C_4C_5L_4L_5s^5+2C_3C_4C_5L_4L_5g_ms^4+2C_3C_4L_4R_3g_ms^3+C_3C_4L_4s^3+2C_3C_4L_5R_3g_ms^3+2C_3C_4L_5R_3g_ms^3+2C_3C_4L_5g_ms^4+2C_4C_5L_5g_ms^4+2C_4C_5L_5g_ms^4+2C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_3C_4C_5L_5g_ms^3+2C_5$ 10.298 INVALID-ORDER-298 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$2 C_{3} C_{4} C_{5} L_{4} L_{5} R_{3} g_{m} s^{o} + C_{3} C_{4} C_{5} L_{4} L_{5} s^{o} + 2 C_{3} C_{4} L_{5} L_{5} g_{m} s^{a} + 2 C_{3} C_{4} L_{4} L_{5} g_{m} s^{a} + 2 C_{3} C_{4} L_{4} L_{5} g_{m} s^{a} + 2 C_{3} C_{4} L_{5} L_{5} g_{m} s^{a} + 2 C_{3} C_{5} L_{5} g_{m} s^{a} + 2 C_{3} C_{5} L_{5} g_{m} s^{a} + 2 C_{3} C_{5} L_{5} g_{m} s^{a} + 2 C_{5} L_{5} L_{5} g_{m} s^$$

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

10.299 INVALID-ORDER-299
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{(C_3R_3s + 1)\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_5s^2 - L_5R_5g_ms^3 + C_3C_4L_5R_3R_5g_ms^5 + C_3C_4L_5R_3R_5g_ms^5 + C_3C_4L_5R_3R_5g_ms^5 + C_3C_4L_5R_3R_5g_ms^5 + C_3C_4L_5R_3R_5g_ms^5 + C_3C_4L_5R_3R_5g_ms^3 + C_3C_4R_5R_5g_ms^3 + C_3C$$

10.300 INVALID-ORDER-300
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

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

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10.301 INVALID-ORDER-301 Z(s) = \left(\infty, \ \infty, \ R_3 + \frac{1}{C_3 s}, \ L_4 s + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)
                                                      -\frac{(23-3)^{4}+2)^{4}(24-4)^{4}}{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}g_{m}s^{5}+C_{3}C_{4}C_{5}L_{4}L_{5}s^{5}+2C_{3}C_{4}C_{5}L_{4}R_{3}R_{5}g_{m}s^{4}+2C_{3}C_{4}C_{5}L_{5}R_{3}R_{5}g_{m}s^{4}+2C_{3}C_{4}C_{5}L_{5}R_{3}s^{4}+2C_{3}C_{4}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{3}C_{4}L_{4}R_{5}g_{m}s^{3}+C_{3}C_{4}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}R_{3}S_{5}g_{m}s^{4}+2C_{3}C_{4}C_{5}L_{4}R_{5}S_{5}g_{m}s^{4}+2C_{3}C_{4}C_{5}L_{5}R_{3}S_{5}g_{m}s^{4}+2C_{3}C_{4}C_{5}L_{5}R_{3}S_{5}g_{m}s^{4}+2C_{3}C_{4}C_{5}L_{5}R_{3}S_{5}g_{m}s^{5}+2C_{3}C_{4}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{5}S_{5}g_{m}s^{5}+2C_{3}C_{5}C_{5}S_{5}g_{m}s^{5}+2C_{5}C_{5}C_{5}S_{5}g_{m}s^{5}+2C_{5}C_{5}C_{5}S_{5}g_{m}s^{5}+2C_{5}C_{5}C_{5}S
10.302 INVALID-ORDER-302 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                                               H(s) = \frac{L_4 s \left(R_5 g_m - 1\right) \left(C_3 R_3 s + 1\right)}{2 C_3 C_4 L_4 R_3 R_5 q_m s^3 + 2 C_3 C_4 L_4 R_3 s^3 + 2 C_3 L_4 R_3 q_m s^2 + C_3 L_4 R_5 q_m s^2 + C_3 L_4 s^2 + 2 C_3 R_3 R_5 q_m s + 2 C_3 R_3 s + 2 C_4 L_4 R_5 q_m s^2 + 2 C_4 L_4 s^2 + 2 L_4 q_m s + 2 R_5 q_m + 2 C_4 L_4 R_5 q_m s^2 + 
10.303 INVALID-ORDER-303 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                     H(s) = -\frac{L_4 s \left(C_5 s - g_m\right) \left(C_3 R_3 s + 1\right)}{2 C_3 C_4 C_5 L_4 R_3 s^4 + 2 C_3 C_4 L_4 R_3 g_m s^3 + 2 C_3 C_5 L_4 R_3 g_m s^3 + C_3 C_5 L_4 s^3 + 2 C_3 C_5 R_3 s^2 + C_3 L_4 g_m s^2 + 2 C_3 R_3 g_m s + 2 C_4 C_5 L_4 s^3 + 2 C_4 L_4 g_m s^2 + 2 C_5 L_4 g_m s^2 + 2 C_5 s + 2 g_m R_3 g_m s^2 + 2 C_5 R_3 g_m s^2 + 2 C_5
10.304 INVALID-ORDER-304 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{L_{4}s\left(C_{3}R_{3}s+1\right)\left(C_{5}R_{5}s-R_{5}g_{m}+1\right)}{2C_{3}C_{4}C_{5}L_{4}R_{3}R_{5}s^{4}+2C_{3}C_{4}L_{4}R_{3}s^{3}+2C_{3}C_{4}L_{4}R_{3}s^{3}+2C_{3}C_{5}L_{4}R_{3}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+2C_{3}C_{5}L_{4}R_{5}s^{3}+
10.305 INVALID-ORDER-305 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L_4s(C_3R_3s+1)(C_5R_5g_ms-C_5s+g_m)
H(s) = \frac{L_{4}s\left(C_{3}R_{3}s+1\right)\left(C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{2C_{3}C_{4}C_{5}L_{4}R_{3}r_{5}g_{m}s^{4}+2C_{3}C_{4}L_{4}R_{3}g_{m}s^{3}+2C_{3}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{4}R_{5}g_{m}s^{3}+2C_{3}C_{5}R_{3}R_{5}g_{m}s^{2}+2C_{3}C_{5}R_{3}r_{5}g_{m}s^{2}+2C_{3}C_{5}R_{3}g_{m}s+2C_{4}C_{5}L_{4}r_{5}g_{m}s^{3}+2C_{4}C_{5}L_{4}r_{5}g_{m}s^{2}+2C_{5}R_{5}g_{m}s+2C_{5}R_{5}g_{m
10.306 INVALID-ORDER-306 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_{4}s\left(C_{3}R_{3}s+1\right)\left(C_{5}L_{5}g_{m}s^{2}-C_{5}s+g_{m}\right)}{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}g_{m}s^{5}+2C_{3}C_{4}L_{4}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{4}R_{3}g_{m}s^{3}+2C_{3}C_{5}L_{4}S_{3}g_{m}s^{3}+2C_{3}C_{5}L_{4}S_{3}g_{m}s^{3}+2C_{3}C_{5}L_{4}S_{3}g_{m}s^{3}+2C_{4}C_{5}L_{4}S_{3}g_{m}s^{4}+2C_{4}C_{5}L_{4}S_{3}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s
10.307 INVALID-ORDER-307 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                      \frac{L_{4}s\left(C_{3}R_{3}s+1\right)\left(C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}g_{m}s^{4}+2C_{3}C_{4}L_{4}R_{3}s^{3}+2C_{3}C_{5}L_{4}L_{5}s^{4}+2C_{3}C_{5}L_{4}L_{5}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{3}+2C_{3}L_{4}R_{3}g_{m}s^{2}+2C_{3}L_{4}R_{3}g_{m}s^{2}+2C_{3}L_{4}R_{3}g_{m}s^{2}+2C_{3}L_{4}L_{5}g_{m}s^{3}+2C_{4}L_{4}L_{5}g_{m}s^{3}+2C_{5}L_{4}L_{5}g_{m}s^{3}+2C_{5}L_{4}L_{5}g_{m}s^{3}+2C_{5}L_{4}L_{5}g_{m}s^{3}+2C_{5}L_{4}L_{5}g_{m}s^{3}+2C_{5}L_{5}L_{5}s^{2}
10.308 INVALID-ORDER-308 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            L_4s(C_3R_3s+1)(C_5L_5g_ms^2+C_5R_5g_ms-C_5s+g_m)
H(s) = \frac{L_4s\left(\text{C}_3R_3s + 1\right)\left(\text{C}_5L_5g_ms + \text{C}_5R_5g_ms - \text{C}_5s + g_m\right)}{2C_3C_4C_5L_4L_5g_ms^5 + 2C_3C_4C_5L_4R_3g_ms^3 + 2C_3C_4C_5L_4R_3g_ms^3 + 2C_3C_5L_4g_ms^4 + 2C_3C_5L_4g_ms^3 + 2C_3C_5L_4g_ms^3 + 2C_3C_5R_3g_ms^3 + 2C_3C_
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 $-\frac{1}{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}R_{5}s^{5}+2C_{3}C_{4}L_{4}L_{5}R_{3}R_{5}g_{m}s^{4}+2C_{3}C_{4}L_{4}R_{3}R_{5}s^{3}+2C_{3}C_{4}L_{4}R_{3}R_{5}s^{3}+2C_{3}C_{4}L_{5}R_{3}R_{5}g_{m}s^{4}+C_{3}C_{5}L_{4}L_{5}R_{3}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5}g_{m}s^{3}+C_{3}L_{4}L_{5}R_{5$

 $L_4s(C_3R_3s+1)(C_5L_5R_5s^2-L_5R_5g_ms+L_5s+R_5)$

10.309 INVALID-ORDER-309 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

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10.310 INVALID-ORDER-310 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
H(s) = \frac{L_4s \left( C_3 R_3 s + 1 \right) \left( C_5 L_5 R_5 g_m s^5 + C_5 L_5 s^5 + L_5 g_m s^4 + C_5 L_5 R_5 g_m s^6 +
10.311 INVALID-ORDER-311 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{1}{2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4C_5L_4R_3R_5s^4 + 2C_3C_4L_4R_3R_5g_ms^3 + 2C_3C_5L_4L_5R_3g_ms^4 + C_3C_5L_4L_5R_3g_ms^4 + C_3C_5L_4R_3R_5g_ms^4 + C_3C_5L_4R_5g_ms^4 + C_3C_5L_5R_5g_ms^4 + C_3C_5L_5R_5g_ms^4 + C_3C_5L_5R_5g_ms^4 + C_3C_5L_5R_5g_ms^4 + C_3C_5L_5R_5g_ms^4 + C_3C_5L_5R
10.312 INVALID-ORDER-312 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{4s}}, L_4s + R_4 + \frac{1}{C_{4s}}, R_5, \infty\right)
                                                                             H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3R_3s + 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)}{2C_3C_4L_4R_3g_ms^3 + C_3C_4L_4s^3 + 2C_3C_4R_3R_4g_ms^2 + 2C_3C_4R_3R_5g_ms^2 + 2C_3C_4R_3s^2 + C_3C_4R_4s^2 + 2C_3R_3g_ms + C_3R_5g_ms + C_3s + 2C_4L_4g_ms^2 + 2C_4R_4g_ms + 2C_4R_5g_ms + 2C_4s + 2g_ms^2 + 2C_4R_4g_ms^2 + 2C_4R_4g_
10.313 INVALID-ORDER-313 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (C_5s - g_m)(C_3R_3s + 1)(C_4L_4s^2 + C_4R_4s + 1)
                                H(s) = -\frac{\left(C_{5}s - g_{m}\right)\left(C_{3}R_{3}s + 1\right)\left(C_{4}L_{4}s^{2} + C_{4}R_{4}s + 1\right)}{s\left(2C_{3}C_{4}C_{5}L_{4}R_{3}g_{m}s^{3} + C_{3}C_{4}C_{5}R_{3}R_{4}g_{m}s^{2} + 2C_{3}C_{4}C_{5}R_{3}s^{2} + C_{3}C_{4}C_{5}R_{3}s^{2} + C_{3}C_{4}C_{5}R_{3}s^{2} + 2C_{3}C_{4}R_{3}g_{m}s + C_{3}C_{5}R_{3}g_{m}s + C_{3}C_{5}R_{3}g_{m}s + C_{3}C_{5}R_{3}g_{m}s + 2C_{4}C_{5}R_{4}g_{m}s + 2C_{4}C_{5}R_{4}g_{m}
10.314 INVALID-ORDER-314 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (C_3R_3s+1)(C_4L_4s^2+C_4R_4s+1)(C_5R_5s-R_5g_m+1)
H(s) = -\frac{(C_3R_3s + 1)(C_4L_4s + C_4R_4s + 1)(C_5R_5s - R_5g_m + 1)}{2C_3C_4C_5L_4R_3R_5g_ms^4 + C_3C_4C_5L_4R_5s^4 + 2C_3C_4C_5R_3R_4s^3 + 2C_3C_4C_5R_3R_5s^3 + 2C_3C_4L_4R_3g_ms^3 + C_3C_4L_4R_3g_ms^3 + 2C_3C_4R_3R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C_3C_4R_5g_ms^2 + 2C
10.315 INVALID-ORDER-315 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{38}}, L_4 s + R_4 + \frac{1}{C_{48}}, R_5 + \frac{1}{C_{58}}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (C_3R_3s+1)(C_4L_4s^2+C_4R_4s+1)(C_5R_5g_ms-C_5s+g_m)
H(s) = \frac{(U_3 K_3 s + 1) \left(U_4 L_4 s^2 + U_4 K_4 s + 1\right) \left(U_5 K_5 g_m s - U_5 s + g_m\right)}{s \left(2 C_3 C_4 C_5 L_4 R_3 g_m s^3 + C_3 C_4 C_5 L_4 s^3 + 2 C_3 C_4 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_4 C_5 R_3 s^2 + C_3 C_4 C_5 R_4 s^2 + C_3 C_4 L_4 g_m s^2 + 2 C_3 C_4 R_3 g_m s + C_3 C_5 R_3 g_m s + C_3 C_5 R_3 g_m s + C_3 C_5 R_5 g_m s + C_5 C_5 R_5 g_
10.316 INVALID-ORDER-316 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (C_3R_3s+1)(C_4L_4s^2+C_4R_4s+1)(C_5L_5g_ms^2-C_5s+g_m)
H(s) = \frac{(C_3 L_4 G_5 + L_4 L_5 g_m s^4 + 2 C_3 C_4 C_5 L_4 R_3 g_m s^3 + C_3 C_4 C_5 L_5 g_m s^3 + C_3 C_4 C_5 L_5 g_m s^3 + C_3 C_4 C_5 L_5 g_m s^3 + C_3 C_4 C_5 L_4 g_m s^3 + 2 C_3 C_4 C_5 R_3 g_m s^3 + 2 C_3 C_5 R_3 g_m s^3 + 2 C_5 R_3 
10.317 INVALID-ORDER-317 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, L_4s + R_4 + \frac{1}{C_{4s}}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (C_3R_3s+1)(C_4L_4s^2+C_4R_4s+1)(C_5L_5s^2-L_5g_ms+1)
                                                      \frac{\left(C_{3}R_{3}s+1\right)\left(C_{4}L_{4}s^{2}+C_{4}R_{4}s+1\right)\left(C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}g_{m}s^{5}+C_{3}C_{4}C_{5}L_{4}L_{5}s^{5}+2C_{3}C_{4}C_{5}L_{5}R_{3}s^{4}+2C_{3}C_{4}C_{5}L_{5}R_{3}s^{4}+C_{3}C_{4}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{4}L_{4}R_{3}g_{m}s^{3}+C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}R_{3}s^{2}+2C_{3}C_{4}R_{3}s^{2}+2C_{3}C_{4}R_{3}s^{2}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{5}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{5}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{5}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{5}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{5}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{5}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{5}g_{m}s^{3}+2C_{3}C_{5}L_{5}R_{5}g_{m}s^{3}+2C_{3}C_{5}L_{5}R_{5}g_{m}s^{
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 $H(s) = \frac{1}{s \cdot (C_3 + C_4 + C_5 +$

 $(C_3R_3s+1)(C_4L_4s^2+C_4R_4s+1)(C_5L_5g_ms^2+C_5R_5g_ms-C_5s+g_m)$

10.318 INVALID-ORDER-318 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

```
10.319 INVALID-ORDER-319 Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
```

 $H(s) = -\frac{1}{2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + C_3C_4C_5L_4L_5R_5s^5 + 2C_3C_4C_5L_5R_3R_4R_5g_ms^4 + 2C_3C_4C_5L_5R_3R_5s^4 + 2C_3C_4L_4L_5R_3g_ms^4 + C_3C_4L_4L_5R_3g_ms^4 + C_3C_4L_4L_5s^4 + 2C_3C_4L_4R_3s^3 + 2C_3C_4L_4R_5s^3 + 2C_3C_4L_5R_3R_4g_ms^3 + 2C_3C_4L_5R_3R_5g_ms^4 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4R_3R_5g_ms^4 + 2C_3C_4L_4R_5s^4 + 2C_3C_4L_5R_5s^4 + 2C_3C_4C_5L_5R_5s^4 + 2C_3C_4C_5L_5R_5s^4 + 2C_3C_4C_5L_5R_5s^4 + 2C_3C_4C_5L_5R_5s^4 + 2$

10.320 INVALID-ORDER-320
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_4L_5R_3g_ms^5 + C_3C_4C_5L_4L_5g_ms^5 + C_3C_4C_5L_4L_5s^5 + 2C_3C_4C_5L_5R_3R_4g_ms^4 + 2C_3C_4C_5L_5R_3R_5g_ms^4 + 2C_3C_4C_5L_5R_4R_5g_ms^4 + 2C_3C_4C_5L_5R_4S_5g_ms^4 + 2C_3C_4C_5L_5R_4S_5g_ms^4 + 2C_3C_4C_5L_5R_4S_5g_ms^4 + 2C_3C_4C_5L_5R_3S_5g_ms^4 + 2C_3C_4C_5L_5R_4S_5g_ms^4 + 2C_3C_4C_5L_5R_3S_5g_ms^4 + 2C_3C_4C_5L_5R_5g_ms^5 + 2C_3C_4C_5L_5R_5g_ms^5 + 2C_3C_4C_5L_5R_5g_ms^5 + 2C_3C_4C_5L_5R_5g_ms^5 + 2C_3C_4C_5L$

10.321 INVALID-ORDER-321
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_4L_5R_3g_ms^5 + C_3C_4C_5L_4L_5g_ms^5 + C_3C_4C_5L_4L_5s^5 + 2C_3C_4C_5L_4R_3g_ms^4 + 2C_3C_4C_5L_5R_3R_4g_ms^4 + 2C_3C_4C_5L_5R_3s^4 + 2C_3C_4C_5L_5$

10.322 INVALID-ORDER-322
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$$

 $H(s) = \frac{L_4 R_4 s \left(R_5 g_m - 1\right) \left(C_3 R_3 s + 1\right)}{2 C_3 C_4 L_4 R_3 R_4 s^3 + 2 C_3 C_4 L_4 R_3 R_4 s^3 + 2 C_3 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_4 R_4 r_5 g_m s^2 + 2 C_4 L_4 r_5 g_m s^2 + 2 C_4 L_4 r_5 g_m s^2 + 2 C_4 r_5 g_m s^2 + 2 C_5 r_5 g_m s^2 + 2$

10.323 INVALID-ORDER-323
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = -\frac{L_4 R_4 s \left(C_5 s - g_m\right) \left(C_3 R_3 s + 1\right)}{2 C_3 C_4 C_5 L_4 R_3 R_4 s^4 + 2 C_3 C_4 L_4 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_4 R_3 s^3 + 2 C_5 L_4 R_5$$

10.324 INVALID-ORDER-324
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

10.325 INVALID-ORDER-325
$$Z(s) = \left(\infty, \ \infty, \ R_3 + \frac{1}{C_3 s}, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

10.326 INVALID-ORDER-326
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

10.327 INVALID-ORDER-327
$$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = -\frac{L_4 R_4 s \left(C_3 R_3 s + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_3 C_4 C_5 L_4 L_5 R_3 R_4 s^5 + 2 C_3 C_4 L_4 L_5 R_3 R_4 g_m s^4 + 2 C_3 C_5 L_4 L_5 R_3 R_4 g_m s^4 + 2 C_3 C_5 L_4 L_5 R_3 g_m s^3 + C_3 L_4 L_5 R_3 g_m s^3 + C_3 L_4 L_5 R_3 g_m s^3 + 2 C_3 L_4 R_3 R_4 g_m s^2 + 2 C_3 L_4 R_3 R_4 g_m s^2 + 2 C_3 L_4 R_3 R_4 g_m s^2 + 2 C_3 L_4 R_3 R_4 g_m s^3 + 2 C_3 L_4 R_3 R_4$$

10.328 INVALID-ORDER-328 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_4 R_4 s \left(c_3 + c_4 R_3 R_4 g_m s^5 + 2 C_3 C_4 C_5 L_4 R_3 R_4 g_m s^4 + 2 C_3 C_4 L_4 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_4 g_m s^4 + 2 C_3 C_5 L_4 R_3 R_4 g_m s^4 + 2 C_3 C_5 L_4 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_5 g_m s^3 + 2 C_5 C_5 L_5 R_5 g$

10.329 INVALID-ORDER-329 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $\overline{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}s^{5} + 2C_{3}C_{4}L_{4}L_{5}R_{3}R_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}L_{5}R_{3}R_{4}s^{4} + 2C_{3}C_{4}L_{4}R_{3}R_{4}R_{5}s^{3} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{4}g_{m}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{5}g_{m}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{4}g_{m}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{5}g_{m}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{4}g_{m}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{4}g_{m}s^{3} + 2C_{3}L_{4}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{4}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{5}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{5}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{5}R_{5}R_{5}s^{4} + 2C_{5}C_{5}L_{5}R_{5}R_{5}s^{4} + 2C_{5}C_{5}L_{5}R_{5}R_{5}s^{4} + 2C_{5}C_{5}L_{5}R_{5}R_{5}s^{4} + 2C_{5}C_{5}L$

10.330 INVALID-ORDER-330 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

10.331 INVALID-ORDER-331 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.332 INVALID-ORDER-332 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)$

 $H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3R_3s + 1\right)\left(C_4L_4R_4s^2 + L_4s + R_4\right)}{2C_3C_4L_4R_3R_5g_ms^3 + 2C_3C_4L_4R_3s^3 + C_3C_4L_4R_4s^3 + 2C_3L_4R_3g_ms^2 + C_3L_4R_5g_ms^2 + C_3L_4R_5g_ms + 2C_3R_3R_4g_ms + 2C_3R_3R_5g_ms + 2C_3R_3R_4g_ms + 2C_4L_4R_4g_ms^2 + 2C_4L_4R_5g_ms^2 + 2C_4$

10.333 INVALID-ORDER-333 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)$

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

10.334 INVALID-ORDER-334 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

10.335 INVALID-ORDER-335 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $(C_3R_3s+1)\left(C_4L_4R_4s^2+L_4s+R_4\right)\left(C_5R_5g_ms-C_5s+g_m\right)$ $\frac{(C_3L_4S_3 + 1)(C_4L_4R_4S_3 + L_4S_1 + L_4S$

10.336 INVALID-ORDER-336 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $(C_3R_3s+1)(C_4L_4R_4s^2+L_4s+R_4)(C_5L_5g_ms^2-C_5s+g_m)$ $H(s) = \frac{C_3C_4C_5L_4L_5R_3g_ms^5 + C_3C_4C_5L_4L_5R_4g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^4 + 2C_3C_4L_4R_3g_ms^3 + C_3C_5L_4R_3g_ms^3 + C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_3g_ms^3 +$ 10.337 INVALID-ORDER-337 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = -\frac{(C_3R_3s + 1)(C_5L_5s + 1)(C_5L_$

10.338 INVALID-ORDER-338 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{(C_3)^2}{2C_3C_4C_5L_4L_5R_3g_ms^5 + C_3C_4C_5L_4L_5R_4g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^4 + 2C_3C_4C_5L_4R_3s^4 + C_3C_4C_5L_4R_3g_ms^4 + 2C_3C_4L_4R_3g_ms^3 + C_3C_4L_4R_3g_ms^3 + C_3C_4$

10.339 INVALID-ORDER-339 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $\frac{1}{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}g_{m}s^{5} + 2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}R_{5}s^{5} + C_{3}C_{4}L_{4}L_{5}R_{3}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}L_{5}R_{3}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{5}g_{m}s^{4} + 2C_{3}$

10.340 INVALID-ORDER-340 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_4L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3s^5 + C_3C_4C_5L_4L_5R_4g_ms^5 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4R_3R_4g_ms^3 + 2C_3C_4L_4R_3R_5g_ms^3 + 2C_3C_4L_4R_3s^3 +$

10.341 INVALID-ORDER-341 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $\frac{1}{2C_3C_4C_5L_4L_5R_3R_4q_ms^5 + 2C_3C_4C_5L_4L_5R_3R_5q_ms^5 + 2C_3C_4C_5L_4L_5R_3s^5 + C_3C_4C_5L_4L_5R_4R_5q_ms^5 + 2C_3C_4C_5L_4R_3R_5q_ms^5 + 2C_3C_4C_5L_4R_5q_ms^5 + 2C_3C_4C$

10.342 INVALID-ORDER-342 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$

 $\frac{R_4 \left(R_5 g_m-1\right) \left(C_3 R_3 s+1\right) \left(C_4 L_4 s^2+1\right)}{2 C_3 C_4 L_4 R_3 R_5 g_m s^3+2 C_3 C_4 L_4 R_3 s^3+C_3 C_4 L_4 R_4 s^3+2 C_3 C_4 R_3 R_4 R_5 g_m s^2+2 C_3 R_3 R_4 g_m s+2 C_3 R_3 R_5 g_m s+2 C_3 R_3 R_5 g_m s+2 C_4 L_4 R_5 g_m s^2+2 C_4 L_4 R_5 g_m s^2+2$

10.343 INVALID-ORDER-343 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

 $R_4 (C_5 s - g_m) (C_3 R_3 s + 1) (C_4 L_4 s^2 + 1)$

 $\frac{R_4 \left(C_5 s - g_m\right) \left(C_3 R_3 s + 1\right) \left(C_4 L_4 s^2 + 1\right)}{2C_3 C_4 C_5 L_4 R_3 r_4 g_m s^4 + 2C_3 C_4 C_5 L_4 R_3 s^4 + 2C_3 C_4 C_5 L_4 R_4 s^4 + 2C_3 C_4 C_5 R_3 R_4 g_m s^3 + 2C_3 C_4 R_3 R_4 g_m s^2 + 2C_3 C_5 R_3 s^2 + C_3 C_5 R_3 s^2 + 2C_3 C_5 R_3 s^2 + 2C_3 C_5 R_4 s^2 + 2C_3 C_5 R_5 s^2 + 2C_3 C_5 R_5 s^2 + 2C_3 C_5 R_5 s^2 + 2C_5 C_5 R_5$

10.344 INVALID-ORDER-344 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $\frac{1}{2C_{3}C_{4}C_{5}L_{4}R_{3}R_{4}R_{5}q_{m}s^{4} + 2C_{3}C_{4}C_{5}L_{4}R_{3}R_{5}s^{4} + C_{3}C_{4}C_{5}L_{4}R_{3}R_{5}s^{4} + 2C_{3}C_{4}C_{5}R_{3}R_{4}R_{5}s^{3} + 2C_{3}C_{4}L_{4}R_{3}R_{5}q_{m}s^{3} + 2C$

10.345 INVALID-ORDER-345 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_4R_3R_4g_ms^4 + 2C_3C_4C_5L_4R_3R_5g_ms^4 + 2C_3C_4C_5L_4R_3s^4 + C_3C_4C_5L_4R_4s^4 + 2C_3C_4C_5R_3R_4s^3 + 2C_3C_4L_4R_3g_ms^3 + 2C_3C_4L_4R_3g_ms^3$

10.346 INVALID-ORDER-346 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_4 \left(\text{C}_3 R_3 s + 1 \right) \left(\text{C}_4 L_4 s^2 + 1 \right) \left(\text{C}_5 L_5 g_m s^2 - \text{C}_5 L_4 R_3 s^4 + 1 \right) \left(\text{C}_5 L_5 g_m s^2 - \text{C}_5 L_4 R_3 s^4 + 2 C_3 C_4 C_5 L_4 R_3 s^3 + 2 C_3 C_4 L_4 R_3 g_m s^3 + 2 C_3 C_4 L_$

10.347 INVALID-ORDER-347 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = -\frac{R_4 \left(C_3 R_3 s + 1 \right) \left(C_3 R_3 s + 2 C_3 C_4 C_5 L_4 L_5 R_3 R_4 g_m s^5 + 2 C_3 C_4 C_5 L_4 L_5 R_3 s^5 + C_3 C_4 C_5 L_4 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_4 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_4 R_3 R_4 g_m s^3 + 2 C_3 C_4 R_3 R_4 g_m s^3 + 2$

10.348 INVALID-ORDER-348 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_4L_5R_3g_ms^5 + C_3C_4C_5L_4L_5R_4g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^4 + 2C_3C_4C_5L_4R_3R_5g_ms^4 + 2C_3C_4C_5L_4R_3s^4 + 2C_3C_4$

10.349 INVALID-ORDER-349 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $\frac{1}{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}R_{4}R_{5}g_{m}s^{5} + 2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}R_{5}s^{5} + C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}s^{4} + 2C_{3}C_{4}L_{4}L_{5}R_{3}R_{4}g_{m}s^{4} + 2C_{3}C_{4}L_{4}L_{5}R_{3}R_{5}g_{m}s^{4} + 2C_{3}$

10.350 INVALID-ORDER-350 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $\overline{2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}R_{4}g_{m}s^{5} + 2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}R_{5}g_{m}s^{5} + 2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}s^{5} + C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}s^{5} + 2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}s^{5} + 2C_{3}C_{4}C_{5}L_{4}L_{5}R_{5}s^{5} + 2C_{3}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{3}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{3}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{3}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{3}C_{4}C_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{3}C_{4}C_{5}L_{5}L_{5}L_{5}R_{5}s^{5} + 2C_{3}C_{5}L_{5}L_{5}L_{5}L_{$

10.351 INVALID-ORDER-351 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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

10.352 INVALID-ORDER-352 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = -\frac{R_4 \left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 s^3 + C_3 C_5 R_4 s^2 + 2 C_3 L_3 g_m s^2 + C_3 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 s + 2 g_m}$$

10.353 INVALID-ORDER-353 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{2 C_3 C_5 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 s^3 + C_3 C_5 R_4 R_5 s^2 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_5 s + 2 R_4 g_m + 2 R_5 g_m + 2 C_5 R_5 g_m + 2 C$$

10.354 INVALID-ORDER-354 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 \left(C_3 L_3 s^2 + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 s^3 + C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 s^2 + 2 C_3 L_3 g_m s^2 + C_3 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 R_5 g_m s + 2 C_5 s + 2 g_m r_0}$$

10.355 INVALID-ORDER-355
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_3 L_3 s^2 + 1 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 s^3 + C_3 C_5 L_5 R_4 g_m s^3 + C_3 C_5 R_4 s^2 + 2 C_3 L_3 g_m s^2 + C_3 R_4 g_m s + 2 C_5 L_5 g_m s^2 + 2 C_5 R_4 g_m s + 2 C_5 s + 2 g_m r^2}$$

10.356 INVALID-ORDER-356
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_4 s^3 + 2 C_3 L_3 L_5 g_m s^3 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_5 R_4 g_m s^2 + C_3 R_4 s + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 s^2 + 2 L_5 g_m s + 2 R_4 g_m + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m$$

10.357 INVALID-ORDER-357
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_3 L_3 s^2 + 1 \right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_4 g_m s^3 + C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 g_m s^2 + C_3 R_4 g_m s + 2 C_5 R_5 g_m s$$

10.358 INVALID-ORDER-358
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + 1\right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{2 C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_5 L_5 R_4 R_5 s^3 + 2 C_3 L_3 L_5 R_5 g_m s^3 + 2 C_3 L_3 L_5 R_5 g_m s^3 + 2 C_3 L_3 R_4 R_5 g_m s^2 + C_3 L_5 R_4 R_5 g_m s^2 + C_3 L_5 R_4 R_5 g_m s^2 + 2 C_5 L_5 R_5$$

10.359 INVALID-ORDER-359
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_3 L_3 s^2 + 1 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 s^3 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_5 R_4 g_m s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 L_$$

10.360 INVALID-ORDER-360
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + 1\right) \left(-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m + 1\right)}{2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 S^4 + 2 C_3 C_5 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_4 S^3 + C_3 C_5 L_5 R_4 R_5 g_m s^3 + C_3 C_5 L_5 R_4 R_5 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_5 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 g_m s^$$

10.361 INVALID-ORDER-361 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3L_3s^2 + 1\right)}{2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3s^3 + 2C_3L_3g_ms^2 + C_3R_5g_ms + C_3s + 2C_4R_5g_ms + 2C_4s + 2g_ms^2}$$

10.362 INVALID-ORDER-362 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = -\frac{\left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + 1\right)}{s \left(2C_3 C_4 C_5 L_3 s^3 + 2C_3 C_4 L_3 q_m s^2 + 2C_3 C_5 L_3 q_m s^2 + C_3 C_5 s + C_3 q_m + 2C_4 C_5 s + 2C_4 q_m + 2C_5 q_m\right)}$$

10.363 INVALID-ORDER-363 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = -\frac{\left(C_3L_3s^2 + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{2C_3C_4C_5L_3R_5s^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3s^3 + 2C_3C_5L_3R_5g_ms^3 + C_3C_5R_5s^2 + 2C_3L_3g_ms^2 + C_3R_5g_ms + C_3s + 2C_4C_5R_5s^2 + 2C_4R_5g_ms + 2C_4s + 2C_5R_5g_ms + 2g_ms^2 + 2C_4R_5g_ms^2 + 2C_4$$

10.364 INVALID-ORDER-364
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4L_3g_ms^2 + 2C_3C_5L_3g_ms^2 + C_3C_5R_5g_ms + C_3C_5s + C_3g_m + 2C_4C_5R_5g_ms + 2C_4C_5s + 2C_4g_m + 2C_5g_m\right)}$$

10.365 INVALID-ORDER-365
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4L_3g_ms^2 + 2C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5s + C_3g_m + 2C_4C_5L_5g_ms^2 + 2C_4C_5s + 2C_4g_m + 2C_5g_m\right)}$$

10.366 INVALID-ORDER-366
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = -\frac{\left(C_3L_3s^2 + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{2C_3C_4C_5L_3L_5s^5 + 2C_3C_4L_3L_5g_ms^4 + 2C_3C_5L_3L_5g_ms^4 + C_3C_5L_5s^3 + 2C_3L_3g_ms^2 + C_3L_5g_ms^2 + C_3s + 2C_4L_5g_ms^2 + 2C_4s + 2C_5L_5g_ms^2 + 2g_ms^2 + 2C_4s + 2C_5L_5g_ms^2 + 2G_4s + 2C_5L_5g_ms^2 + 2G_4s + 2G_5L_5g_ms^2 + 2G_4s + 2G_5L_5g_ms^2 + 2G_4s + 2G_5L_5g_ms^2 + 2G_4s + 2G_5L_5g_ms^2 + 2G_5L_5g_ms$$

10.367 INVALID-ORDER-367
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4L_3g_ms^2 + 2C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5R_5g_ms + C_3C_5s + C_3g_m + 2C_4C_5L_5g_ms^2 + 2C_4C_5R_5g_ms + 2C_4C_5s + 2C_4g_m + 2C_5g_m\right)}$$

10.368 INVALID-ORDER-368
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{\left(C_3L_3s^2 + 1\right)\left(C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5\right)}{2C_3C_4C_5L_3L_5R_5g_ms^4 + 2C_3C_4L_3L_5s^4 + 2C_3C_4L_3R_5s^3 + 2C_3L_5L_5g_ms^4 + C_3C_5L_5R_5g_ms^2 + C_3L_5R_5g_ms^2 + C_3L_5R_5g_ms$$

10.369 INVALID-ORDER-369
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{2C_3C_4C_5L_3L_5R_5g_ms^5 + 2C_3C_4L_3L_5g_ms^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_5L_3L_5g_ms^4 + C_3C_5L_5s^3 + 2C_3L_5g_ms^2 + C_3L_5g_ms^2 + C_3L_5g_ms^2 + C_3L_5g_ms^3 + 2C_4C_5L_5s^3 + 2C_4C_5L_5s^3 + 2C_4C_5L_5s^3 + 2C_4C_5L_5s^3 + 2C_4C_5L_5s^3 + 2C_4C_5L_5g_ms^3 + 2C$$

10.370 INVALID-ORDER-370
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = -\frac{\left(C_3L_3s^2 + 1\right)\left(-C_5L_5R_5g_ms^2 + C_5L_5s^2 + C_5R_5s - R_5g_m + 1\right)}{2C_3C_4C_5L_3L_5R_5g_ms^5 + 2C_3C_4C_5L_3R_5s^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3R_5g_ms^3 + C_3C_5L_5s^3 +$$

10.371 INVALID-ORDER-371 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

$$H(s) = \frac{R_4 \left(R_5 g_m - 1\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 C_4 L_3 R_4 g_m s^3 + 2 C_3 C_4 L_3 R_4 s^3 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 s^2 + C_3 R_4 R_5 g_m s + C_3 R_4 s + 2 C_4 R_4 R_5 g_m s + 2 C_4 R_4 s + 2 R_4 g_m + 2 R_5 g_m + 2 C_4 R_4 g_m + 2 R_5 g_m s + 2 C_4 R_4 g_m + 2 R_5 g_m + 2 C_4 R_4 g_m + 2 R_5 g_m + 2 C_4 R_4 g_m + 2 R_5 g_m + 2 C_4 R_4 g_m + 2 R_5 g_m + 2 C_4 R_5 g_m + 2 C_5 R_5 g_m$$

10.372 INVALID-ORDER-372
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 C_4 C_5 L_3 R_4 s^4 + 2 C_3 C_4 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 s^3 + C_3 C_5 R_4 s^2 + 2 C_3 L_3 g_m s^2 + C_3 R_4 g_m s + 2 C_4 C_5 R_4 s^2 + 2 C_4 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 s + 2 g_m R_5 R_4 g_m s^2 + 2 C_5 R_5 R_5 g_m s^2 + 2 C_5 R_5 R_5 g_m s^2 + 2 C_5 R_5 R_5 g_m s^2 + 2 C_5 R_5 g_m$$

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10.373 INVALID-ORDER-373 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{2 C_3 C_4 C_5 L_3 R_4 R_5 s^4 + 2 C_3 C_4 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_4 R_5 s^2 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_4 R_4 R_5 g_m s + 2 C_4 R_4 R_5 g_m s + 2 C_5 R_5 g_m
10.374 INVALID-ORDER-374 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_4 \left( C_3 L_3 s^2 + 1 \right) \left( C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_3 C_4 C_5 L_3 R_4 R_5 g_m s^4 + 2 C_3 C_4 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 R_4 R_5 g_m s^2 + C_3 C_5 R_4 g_m s + 2 C_4 C_5 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 R_5 
10.375 INVALID-ORDER-375 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_4 \left( C_3 L_3 s^2 + 1 \right) \left( C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 C_3 C_4 C_5 L_3 L_5 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_3 R_4 s^4 + 2 C_3 C_4 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_4 C_5 R_4 g_m s^3 + 2 C_5 R_5 g_m s^3 + 
10.376 INVALID-ORDER-376 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_3 C_4 C_5 L_3 L_5 R_4 s^5 + 2 C_3 C_4 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 L_5 g_m s^3 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_4 L_5 R_4 g_m s^2 + 2 C_4 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_5 L_5
10.377 INVALID-ORDER-377 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                \frac{R_4 \left(C_3 L_3 s^2+1\right) \left(C_5 L_5 g_m s^2+C_5 R_5 g_m s-C_5 s+g_m\right)}{2 C_3 C_4 C_5 L_3 L_5 R_4 g_m s^5+2 C_3 C_4 L_5 L_3 R_4 s^4+2 C_3 C_4 L_3 R_4 g_m s^3+2 C_3 C_5 L_3 R_5 g_m s^3+2 C_3 C_5 L_3 R_4 g_m s^3+2 C_3 C_5 L_3 R_5 g_m s^3+2 C_5 C_5 R_5 g
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10.378 INVALID-ORDER-378 $Z(s) = \left(\infty, \ \infty, \ L_3s + \frac{1}{C_3s}, \ \frac{R_4}{C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \ \infty\right)$ $R_4\left(C_3L_3s^2 + 1\right)\left(C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5\right)$

 $H(s) = -\frac{R_4\left(C_3L_3s + 1\right)\left(C_5L_5R_4s - L_5R_4s - L$

10.379 INVALID-ORDER-379 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(C_3 L_3 s^2 + 1 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s^2 + 2 C_3 C_4 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_4 g_m s^3 + 2 C_3 L_5 L_5 R_4 g_m s^3 + 2 C_3 L_5 L_5 R_4 g_m s^3 + 2 C_3 L_5 R_5 g_m s^3 + 2 C_3 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 g_m s^$

10.380 INVALID-ORDER-380 $Z(s) = \left(\infty, \ \infty, \ L_3s + \frac{1}{C_3s}, \ \frac{R_4}{C_4R_4s+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$

 $H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + 1 \right) \left(-C_5 L_5 R_5 g_m s^2 + 2 C_3 C_4 C_5 L_3 L_5 R_4 R_5 g_m s^3 + 2 C_3 C_4 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3 + 2$

10.381 INVALID-ORDER-381 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3L_3s^2 + 1\right)\left(C_4R_4s + 1\right)}{2C_3C_4L_3R_4g_ms^3 + 2C_3C_4L_3s^3 + 2C_3C_4L_3s^3 + C_3C_4R_4s^2 + 2C_3L_3g_ms^2 + C_3R_5g_ms + C_3s + 2C_4R_4g_ms + 2C_4R_5g_ms + 2C_4s + 2g_ms^2 + 2C_3C_4R_4g_ms^2 + 2C_3C_4R_4g_$

10.382 INVALID-ORDER-382 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$ $H(s) = -\frac{\left(C_{5}s - g_{m}\right)\left(C_{3}L_{3}s^{2} + 1\right)\left(C_{4}R_{4}s + 1\right)}{s\left(2C_{3}C_{4}C_{5}L_{3}R_{4}g_{m}s^{3} + 2C_{3}C_{4}C_{5}R_{4}s^{2} + 2C_{3}C_{4}L_{3}g_{m}s^{2} + C_{3}C_{4}R_{4}g_{m}s + 2C_{3}C_{5}L_{3}g_{m}s^{2} + C_{3}C_{5}s + C_{3}g_{m} + 2C_{4}C_{5}R_{4}g_{m}s + 2C_{4}C_{5}s + 2C_{4}g_{m} + 2C_{5}g_{m}\right)}$ **10.383** INVALID-ORDER-383 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $\frac{\left(C_{3}L_{3}s^{2}+1\right)\left(C_{4}R_{4}s+1\right)\left(C_{5}R_{5}s-R_{5}g_{m}+1\right)}{2C_{3}C_{4}C_{5}L_{3}R_{4}g_{m}s^{4}+2C_{3}C_{4}C_{5}L_{3}R_{5}s^{4}+C_{3}C_{4}C_{5}R_{4}R_{5}s^{3}+2C_{3}C_{4}L_{3}R_{5}g_{m}s^{3}+2C_{3}C_{4}L_{3}R_{5}g_{m}s^{2}+C_{3}C_{4}R_{4}s^{2}+2C_{3}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{3}C_{4}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}g_{m}s^{2}+C_{4}R_{5}g_{m}s^{2}+C_{4}R_{5}g_{m}s^{2}+C_{4}R_{5}g_{m}s^{2}+C_{4}R_{5}g_{m}s^{2}+C_{5}R_{5$ 10.384 INVALID-ORDER-384 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4R_4s + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4C_5L_3s^3 + C_3C_4C_5R_4g_ms^2 + C_3C_4C_5R_4g_ms + 2C_3C_5L_3g_ms^2 + C_3C_5R_5g_ms + 2C_4C_5R_4g_ms + 2C_4C_5R_5g_ms + 2C_4C_5R_5g_ms + 2C_4C_5R_5g_ms + 2C_4C_5R_5g_ms + 2C_4C_5R_5g_ms + 2C_4C_5R_5g_ms +$ 10.385 INVALID-ORDER-385 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4R_4s + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4C_5L_3g^3 + C_3C_4C_5L_3g_ms^2 + C_3C_4L_3g_ms^2 + C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5L_5g_ms^2 + 2C_4C_5R_4g_ms + 2C_4C$ 10.386 INVALID-ORDER-386 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_{3s}}, R_4 + \frac{1}{C_{4s}}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ 10.387 INVALID-ORDER-387 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4R_4s + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4C_5L_3s^3 + C_3C_4C_5L_3g_ms^3 + C_3C_4C_5R_4g_ms^3 + C_3C_4C_5R_4g_ms^2 + C_3C_4L_3g_ms^2 + C_3C_4L_3g_ms^2 + C_3C_5L_3g_ms^2 + C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5$ 10.388 INVALID-ORDER-388 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$ $(C_3L_3s^2+1)(C_4R_4s+1)(C_5L_5R_5s^2-L_5R_5g_ms_m)$ $\frac{(C_3L_3S_3 + 1)(C_4L_4S_4 + 1)(C_5L_5L_5S_3 - L_5R_5g_mS_3)}{2C_3C_4C_5L_3L_5R_4S_9m^5 + 2C_3C_4C_5L_3L_5R_5S_5 + C_3C_4C_5L_3L_5R_4S_9m^5 + 2C_3C_4L_3L_5S_4 + 2C_3C_4L_3L_5S_4 + 2C_3C_4L_3L_5S_4 + 2C_3C_4L_3R_4S_9m^5 + 2C_3C_4L_3R_4S_9m^$

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 $\frac{C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_5g_ms^5 + 2C_3C_4C_5L_3L_5s^5 + C_3C_4C_5L_3L_5s^5 + C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4L_3R_4g_ms^3 + 2C_3C_4L_3R_4g_ms^3 + 2C_3C_4L_3R_5g_ms^4 + 2C_3C_4L_3R_5g_ms^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_$

 $\overline{2C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_5g_ms^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_3R_4R_5g_ms^4 + 2C_3C_4C_5L_3R_4s^4 + C_3C_4C_5L_5R_4s^4 + C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3s^3 + C_3C_4L_3s^3 + C$

 $(C_3L_3s^2+1)(C_4R_4s+1)(C_5L_5R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+L_5g_ms^2-C_5L_5s^2+C_5c^2+C_5c^$

10.389 INVALID-ORDER-389 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

10.390 INVALID-ORDER-390 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.391 INVALID-ORDER-391 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$ $H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + 1\right)}{2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3s^3 + C_3C_4L_4R_5g_ms^3 + C_3C_4L_4s^3 + 2C_3L_3g_ms^2 + C_3R_5g_ms + C_3s + 2C_4L_4g_ms^2 + 2C_4R_5g_ms + 2C_4s + 2g_ms^2 + 2C_4R_5g_ms^3 + 2C_5R_5g_ms^3 + 2C_5R_5g_ms^3$ **10.392** INVALID-ORDER-392 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$ $H(s) = -\frac{\left(C_{5}s - g_{m}\right)\left(C_{3}L_{3}s^{2} + 1\right)\left(C_{4}L_{4}s^{2} + 1\right)}{s\left(2C_{3}C_{4}C_{5}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{4}L_{5}L_{3}s^{3} + C_{3}C_{4}L_{5}g_{m}s^{2} + C_{3}C_{4}L_{4}g_{m}s^{2} + 2C_{3}C_{5}L_{3}g_{m}s^{2} + C_{3}C_{5}s + C_{3}g_{m} + 2C_{4}C_{5}L_{4}g_{m}s^{2} + 2C_{4}G_{5}s + 2C_{4}g_{m} + 2C_{5}g_{m}\right)}$ 10.393 INVALID-ORDER-393 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $(C_3L_3s^2+1)(C_4L_4s^2+1)(C_5R_5s-R_5g_m+1)$ $\frac{\left(C_{3}L_{3}s^{2}+1\right)\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}R_{5}s-R_{5}g_{m}+1\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}L_{3}R_{5}s^{4}+C_{3}C_{4}L_{3}L_{4}g_{m}s^{4}+2C_{3}C_{4}L_{3}R_{5}g_{m}s^{3}+2C_{3}C_{4}L_{3}s^{3}+C_{3}C_{4}L_{4}s^{3}+2C_{3}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{5}g_{m}s^{2}+C_{3}R_{5}$ 10.394 INVALID-ORDER-394 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_4g_ms^4 + 2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4C_5L_4g_ms^3 + C_3C_4C_5L_4g_ms^3 + 2C_3C_4L_3g_ms^2 + C_3C_5L_3g_ms^2 + C_3C_5L_3g_ms^2 + C_3C_5L_3g_ms^2 + 2C_4C_5L_4g_ms^2 + 2C_4C_5R_5g_ms +$ 10.395 INVALID-ORDER-395 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_4g_ms^4 + 2C_3C_4C_5L_3s^3 + C_3C_4C_5L_4L_5g_ms^4 + C_3C_4C_5L_4s^3 + 2C_3C_4L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5L_5g_ms^2 + 2C_4C_5L_4g_ms^2 + 2C_4C_5L_5g_ms^2 + 2C_5C_5L_5g_ms^2 + 2C_$ 10.396 INVALID-ORDER-396 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $\frac{\left(C_{3}L_{3}s^{2}+1\right)\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}g_{m}s^{6}+2C_{3}C_{4}L_{5}L_{5}s^{5}+C_{3}C_{4}L_{5}L_{5}s^{5}+2C_{3}C_{4}L_{3}L_{5}g_{m}s^{4}+2C_{3}C_{4}L_{3}L_{5}g_{m}s^{4}+C_{3}C_{4}L_{5}L_{5}s^{3}+2C_{3}L_{5}g_{m}s^{2}+C_{3}L_{5}g_{m}$ 10.397 INVALID-ORDER-397 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}g_{m}s^{6} + 2C_{3}C_{4}C_{5}L_{3}L_{5}s^{3} + C_{3}C_{4}L_{5}L_{5}s^{3} + 2C_{3}C_{4}L_{3}L_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{3}L_{5}g_{m}s^{4} + C_{3}C_{4}L_{4}L_{5}g_{m}s^{4} + C_{3}C_{4}L_{5}g_{m}s^{4} + C_{3}C_{5}L_{5}g_{m}s^{4} + C_{3}C_{5}L_{5}g_$$

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

10.398 INVALID-ORDER-398 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = -\frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_5s^2 - L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_3L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_$$

10.399 INVALID-ORDER-399 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

$$H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + 1\right)\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_ms^2 - C_5L_5s^2 + L_5g_ms^2 + 2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4L_3L_5g_ms^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3R_5g_m$$

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10.400 INVALID-ORDER-400 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_4L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_5L_5c
10.401 INVALID-ORDER-401 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                H(s) = \frac{L_4 s \left(R_5 g_m - 1\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 C_4 L_3 L_4 R_5 g_m s^4 + 2 C_3 C_4 L_3 L_4 g_m s^3 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 s^2 + C_3 L_4 R_5 g_m s^2 + 2 C_4 L_4 R_5 g_m s^2 
10.402 INVALID-ORDER-402 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                   H(s) = -\frac{L_{4}s\left(C_{5}s - g_{m}\right)\left(C_{3}L_{3}s^{2} + 1\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}s^{3} + C_{3}C_{5}L_{4}s^{3} + 2C_{3}L_{3}g_{m}s^{2} + C_{3}L_{4}g_{m}s^{2} + 2C_{4}L_{4}g_{m}s^{2} + 2C_{5}L_{4}g_{m}s^{2} + 2C_{5}L_{5}g_{m}s^{2} + 2C_{5}g_{m}s^{2} + 2C_{5}g_
10.403 INVALID-ORDER-403 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{L_{4}s\left(C_{3}L_{3}s^{2}+1\right)\left(C_{5}R_{5}s-R_{5}g_{m}+1\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}R_{5}g_{m}s^{4}+2C_{3}C_{4}L_{3}L_{4}s^{4}+2C_{3}C_{5}L_{3}L_{4}R_{5}g_{m}s^{4}+2C_{3}C_{5}L_{3}R_{5}s^{3}+2C_{3}L_{4}R_{5}g_{m}s^{2}+2C_{3}L_{4}R_{5}g_{m}s^{2}+2C_{4}L_{4}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{4}L_{4}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{4}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2C_{5}L_{5}R_{5}g_{m}s^{2}+2
10.404 INVALID-ORDER-404 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_{4}s\left(C_{3}L_{3}s^{2}+1\right)\left(C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}L_{3}L_{4}g_{m}s^{4}+2C_{3}C_{5}L_{3}L_{4}g_{m}s^{4}+2C_{3}C_{5}L_{3}R_{5}g_{m}s^{3}+2C_{3}C_{5}L_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{4}R_{5}g_{m}s^{3}+2C_{4}C_{5}L_{4}R_{5}g_{m}s^{3}+2C_{4}C_{5}L_{4}s^{3}+2C_{4}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{4}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C
10.405 INVALID-ORDER-405 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_{4}s\left(C_{3}L_{3}s^{2} + 1\right)\left(C_{5}L_{5}g_{m}s^{2} - C_{5}s + g_{m}\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}g_{m}s^{6} + 2C_{3}C_{4}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{5}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{5}g_{m}s^{4} + 2C_{3}C_{5}L_{4}L_{5}g_{m}s^{2} + 2C_{4}L_{5}L_{4}s^{3} + 2C_{4}L_{5}g_{m}s^{4} + 2C_{4}C_{5}L_{4}s^{3} + 2C_{4}L_{5}g_{m}s^{4} + 2C_{5}L_{5}g_{m}s^{2} + 2C_{5}L_{5}g_{m}s^{2}
10.406 INVALID-ORDER-406 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = -\frac{L_4 s \left(C_3 L_3 s^2 + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_3 C_4 C_5 L_3 L_4 L_5 g_m s^5 + 2 C_3 C_4 L_3 L_4 L_5 g_m s^5 + 2 C_3 C_5 L_3 L_4 L_5 g_m s^5 + 2 C_3 C_5 L_3 L_4 L_5 g_m s^5 + 2 C_3 L_4 L_5 g_m s^3 + 2 C_3 L_3 L_4 g_m s^3 + 2 C_3 L_4 L_5 g_m s^3 + 2 C_4 L_4 L_5 g_m s^3 + 2 C_4 L_4 L_5 g_m s^3 + 2 C_4 L_4 L_5 g_m s^3 + 2 C_5 L_5 L_5 g_m s^3 + 2 C_5 L_5 L_5 g_m s^3 + 2 C_5 L_5 g_m s^3 +
10.407 INVALID-ORDER-407 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_2 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                 \frac{L_{4}s\left(C_{3}L_{3}s^{2}+1\right)\left(C_{5}L_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}g_{m}s^{6}+2C_{3}C_{4}L_{5}L_{4}L_{5}g_{m}s^{5}+2C_{3}C_{4}L_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{3}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{3}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{3}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{4}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5}g_{m}s^{4}+2C_{3}C_{5}L_{5
10.408 INVALID-ORDER-408 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L_4s\left(C_3L_3s^2+1\right)\left(C_5L_5R_5s^2-L_5R_5g_ms+L_5s+R_5\right)
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 $-\frac{1}{2C_3C_4C_5L_3L_4L_5R_5s^6+2C_3C_4L_3L_4L_5R_5q_ms^5+2C_3C_4L_3L_4L_5s^5+2C_3C_4L_3L_4L_5s^5+2C_3C_5L_3L_4L_5R_5q_ms^5+2C_3C_5L_3L_4L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L_3L_5R_5q_ms^5+2C_3L$

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10.409 INVALID-ORDER-409 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           L_4s (C_3L_3s^2+1) (C_5L_5R_5q_ms^2-C_5L_5s^2+L_5q_ms+1)
H(s) = \frac{L_4s \left( C_3L_3s + 1 \right) \left( C_5L_5R_5g_ms^6 + C_5L_5s + L_5g_ms^7 - C_5L_5s + L_5g_ms^7 - C_5L_5s + L_5g_ms^7 + C_5L_5s + L
10.410 INVALID-ORDER-410 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_4R_5g_ms^4 + 2C_3C_5L_3L_4S_5g_ms^4 + 2C_3C_5L_3L_5S_5g_ms^4 + 2C_3C_5L_3L_5S_5g_ms^5 + 2C_3C_5L_5L_5S_5g_ms^5 + 2C_5C_5L_5L_5S_5g_ms^5 + 2C_5C_5L_5L_5S_5g_ms^5 + 2C_5C_5L_5S_5g_ms^5 + 2C_5C_5L_5S_5g_ms
10.411 INVALID-ORDER-411 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                              H(s) = \frac{\left(R_{5}g_{m} - 1\right)\left(C_{3}L_{3}s^{2} + 1\right)\left(C_{4}L_{4}s^{2} + C_{4}R_{4}s + 1\right)}{2C_{3}C_{4}L_{3}R_{4}g_{m}s^{4} + 2C_{3}C_{4}L_{3}R_{5}g_{m}s^{3} + 2C_{3}C_{4}L_{3}s^{3} + C_{3}C_{4}L_{4}s^{3} + C_{3}C_{4}L_{4}s^{3} + C_{3}C_{4}R_{4}s^{2} + 2C_{3}L_{3}g_{m}s^{2} + C_{3}R_{5}g_{m}s + C_{3}s + 2C_{4}L_{4}g_{m}s^{2} + 2C_{4}R_{4}g_{m}s + 2C_{4}R_{5}g_{m}s + 2C_{4}s + 2g_{m}s + 2C_{4}s^{2} + 2C_{4}
10.412 INVALID-ORDER-412 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                              H(s) = -\frac{\left(C_{5}s - g_{m}\right)\left(C_{3}L_{3}s^{2} + 1\right)\left(C_{4}L_{4}s^{2} + C_{4}R_{4}s + 1\right)}{s\left(2C_{3}C_{4}C_{5}L_{3}R_{4}g_{m}s^{3} + 2C_{3}C_{4}C_{5}L_{3}s^{3} + C_{3}C_{4}C_{5}L_{4}s^{3} + C_{3}C_{4}C_{5}R_{4}s^{2} + 2C_{3}C_{4}L_{3}g_{m}s^{2} + C_{3}C_{4}L_{3}g_{m}s^{2} + C_{3}C_{5}L_{3}g_{m}s^{2} + C_{3}C_{5}L_{3}g_{m}s^{2} + 2C_{4}C_{5}L_{4}g_{m}s^{2} + 2C_{4}C_{5}R_{4}g_{m}s + 2C_{4}C_{5
10.413 INVALID-ORDER-413 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3R_4s^5 + 2C_3C_4C_5L_3R_5s^4 + C_3C_4C_5L_4R_5s^4 + 2C_3C_4L_3R_4g_ms^3 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3s^3 + C_3C_4L_4s^3 + C_3C_4L_4s^
10.414 INVALID-ORDER-414 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
```

$$H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_4g_ms^4 + 2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4C_5L_3s^3 + C_3C_4C_5L_4s^3 + C_3C_4C_5L_4s^3 + C_3C_4C_5R_4s^2 + 2C_3C_4L_3g_ms^2 + C_3C_4L_4g_ms^2 +$$

10.415 INVALID-ORDER-415
$$Z(s) = \left(\infty, \ \infty, \ L_3 s + \frac{1}{C_3 s}, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_4g_ms^4 + 2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4C_5L_3s^3 + C_3C_4C_5L_4s^3 + C_3C_4C_5L_4s^3 + C_3C_4C_5L_4s^3 + C_3C_4C_5L_4g_ms^3 + C_3C_4C_5L_4g_ms^2 + C_3C_4L_4g_ms^2 + C_3C_4L_4g_ms^2 + C_3C_4L_4g_ms^2 + C_3C_4L_4g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5L_5g$$

10.416 INVALID-ORDER-416
$$Z(s) = \left(\infty, \ \infty, \ L_3s + \frac{1}{C_3s}, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$$

$$H(s) = -\frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_5g_ms^5 + 2C_3C_4C_5L_3L_5s^5 + C_3C_4C_5L_3L_5s^5 + C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4L_3L_3g_ms^3 + 2C_3C_4L_3s^3 + C_3C_4L_4s^3 + C_3C_4L_4s^3 + C_3C_4L_4s^3 + C_3C_4L_4s^3 + C_3C_4L_4s^3 + C_3C_4L_3s^3 + C_3$$

10.417 INVALID-ORDER-417
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_4g_ms^4 + 2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4C_5L_4S_3 + C_3C_4C_5L_4S_3 + C_3C_4C_5L_4S_$$

```
10.418 INVALID-ORDER-418 Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
```

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_3L_5R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_5s^5 + C_3C_4C_5L_4L_5R_5s^5 + C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4L_3L_4R_5g_ms^5 + 2C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_3L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_$

10.419 INVALID-ORDER-419
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_5g_ms^5 + C_3C_4C_5L_4L_5s^5 + C_3C_4C_5L_5L_5s^5 + C_3C_4C_5L_5c^5 + C_3C_4C_5L_5c^5 + C_3C_4C_5L_5c^5 + C_3C_4C_5L_5c^5 + C_3C_4C_5L_5c^5 + C_3C_4C_5L_5c^5 + C_3C_4$

10.420 INVALID-ORDER-420
$$Z(s) = \left(\infty, \ \infty, \ L_3s + \frac{1}{C_3s}, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)$$

10.421 INVALID-ORDER-421
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$$

 $H(s) = \frac{L_4 R_4 s \left(R_5 g_m - 1\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 C_4 L_3 L_4 R_4 s^4 + 2 C_3 C_4 L_3 L_4 R_4 s^3 + 2 C_3 L_3 L_4 R_5 g_m s^3 + 2 C_3 L_3 L_4 s^3 + 2 C_3 L_3 L_4 s^3 + 2 C_3 L_3 R_4 s^2 + C_3 L_4 R_4 s^2 + 2 C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_4 s^2 + 2 L_4 R_4 g_m s + 2 L_4 R_5 g_m s + 2 L_4 s + 2 R_4 R_5 g_m s + 2 L_4 s + 2 R_4 R_5 g_m s^2 + 2 C_4 L_4 R_4 s^2 + 2 C_4 L_4 R_$

10.422 INVALID-ORDER-422
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = -\frac{L_4 R_4 s \left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 C_4 C_5 L_3 L_4 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_4 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_4 s^4 + 2 C_3 C_5 L_3 R_4 s^3 + C_3 C_5 L_4 R_4 s^3 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_4 L_4 R_4 g_m s^2 + 2 C_5 L_4 R_4 g_m s^2 + 2$

10.423 INVALID-ORDER-423
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

10.424 INVALID-ORDER-424
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{L_4 R_4 s \left(C_3 L_3 s^2 + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_3 C_4 C_5 L_3 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_3 L_4 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_4 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_4 s^4 + 2 C_3 C_5 L_3 R_4 s^3 + C_3 C_5 L_4 R_4 s^3 + 2 C_3 L_4 L_4 R_4 g_m s^3 + 2 C_3 L_4 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_4 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_4 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3$

10.425 INVALID-ORDER-425
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{L_4 R_4 s \left(C_3 L_3 s^2 + 1\right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{2 C_3 C_4 C_5 L_3 L_4 L_5 R_4 g_m s^6 + 2 C_3 C_4 L_3 L_4 R_4 g_m s^4 + 2 C_3 C_5$

10.426 INVALID-ORDER-426
$$Z(s) = \left(\infty, \ \infty, \ L_3 s + \frac{1}{C_3 s}, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)$$

 10.427 INVALID-ORDER-427 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

10.428 INVALID-ORDER-428 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

10.429 INVALID-ORDER-429 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

10.430 INVALID-ORDER-430 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.431 INVALID-ORDER-431 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)$

 $H(s) = \frac{\left(R_5 g_m - 1\right) \left(C_3 L_3 s^2 + 1\right) \left(C_4 L_4 R_4 s^2 + L_4 s + R_4\right)}{2 C_3 C_4 L_3 L_4 R_5 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_5 g_m s^3 + C_3 C_4 L_4 R_4 R_5 g_m s^3 + 2 C_3 L_3 L_4 g_m s^3 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_4 R_5 g_m s^2 + 2 C_4 L_4 R_5 g_m s^2$

10.432 INVALID-ORDER-432 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_{3s}}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_{5s}}, \infty\right)$

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

10.433 INVALID-ORDER-433 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

10.434 INVALID-ORDER-434 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

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

10.435 INVALID-ORDER-435 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $(C_3L_3s^2+1)(C_4L_4R_4s^2+L_4s+R_4)(C_5L_5g_ms^2-C_5s+g_m)$ $H(s) = \frac{1}{2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}q_{m}s^{6} + 2C_{3}C_{4}C_{5}L_{3}L_{4}R_{4}q_{m}s^{5} + 2C_{3}C_{4}L_{5}L_{4}L_{5}q_{m}s^{5} + 2C_{3}C_{5}L_{3}L_{4}g_{m}s^{5} + 2C_{3}C_{5}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}g_{m}s^{4} + 2C_{3}C_{5}L_{3}$ **10.436** INVALID-ORDER-436 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = -\frac{\left(C_3L_3s^2 + 1\right)\left(C_5L_3c_4C_5L_3L_4L_5s^6 + C_3C_4C_5L_3L_4L_5s^6 + C_3C_4C_5L_4L_5s^6 + C_3C_4L_3L_4L_5g_ms^5 + 2C_3C_4L_3L_4S^4 + C_3C_4L_4L_5R_4g_ms^4 + 2C_3C_5L_3L_4L_5g_ms^5 + 2C_3C_5L_3L_5R_4g_ms^4 + 2C_3C_5L_3L_4L_5g_ms^5 + 2C_3C_5L_3L_5R_4g_ms^4 + 2C_3C_5L_5L_5R_5g_ms^4 + 2C_3C_5L_5L_5R_5g_ms^2 + 2C_3C_5L_5L_5R_5g_ms^2 + 2C_3C_5L_5R_5g_ms^2 + 2C_3C_5L_5R_5g_ms^2 + 2C_3C_5L_5R_5g_ms^2 + 2C_5C_5L_5R_5g_ms^2 + 2C_5C_5L_5R$

10.437 INVALID-ORDER-437 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

10.438 INVALID-ORDER-438 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $\frac{1}{2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}R_{4}R_{5}g_{m}s^{6} + 2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}R_{5}s^{6} + C_{3}C_{4}L_{5}L_{4}L_{5}R_{4}g_{m}s^{5} + 2C_{3}C_{4}L_{3}L_{4}L_{5}R_{5}g_{m}s^{5} + 2C_{3}C_{4}L_{3}L_{4}L_{5}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{3}L_{4}L_{5}R_{5}g_{m}s^{5} + 2C_{3}C_{4}L_{5}L_{5}R_{5}g_{m}s^{5} + 2C_{3}C$

10.439 INVALID-ORDER-439 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5s^6 + C_3C_4C_5L_4L_5R_4s^5 + 2C_3C_4L_3L_4L_5g_ms^5 + 2C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_3L_4S^4 + C_3C_4L_3L_4S^4 + C_3C_4L_4L_5R_4g_ms^4 + C_3C_4L_4L_5R_4g_ms^4 + 2C_3C_4L_3L_4S^4 + C_3C_4L_3L_4S^4 + C_3C_4L_4S^4 + C_3C_4L_5L_4S^4 + C_3C_4L_5L_4S^4 + C_3C_4L_5L_4S^4 + C_3C_4L_5L_5C^4$

10.440 INVALID-ORDER-440 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.441 INVALID-ORDER-441 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$

 $\frac{R_4 \left(R_5 g_m-1\right) \left(C_3 L_3 s^2+1\right) \left(C_4 L_4 s^2+1\right)}{2 C_3 C_4 L_3 L_4 R_5 g_m s^4+2 C_3 C_4 L_3 L_4 R_5 g_m s^3+2 C_3 C_4 L_3 R_4 g_m s^3+C_3 C_4 L_4 R_4 g_m s^3+C_3 C_4 L_4 R_4 g_m s^2+2 C_3 L_3 R_5 g_m s^2+2 C_3 L_3 R_5 g_m s^2+2 C_4 L_4 R_5 g_m s^2+2 C_4$

10.442 INVALID-ORDER-442 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

 $R_4 (C_5 s - g_m) (C_3 L_3 s^2 + 1) (C_4 L_4 s^2 + 1)$

 $\frac{R_4 \left(C_5 s - g_m\right) \left(C_3 L_3 s + 1\right) \left(C_4 L_4 s + 1\right)}{2C_3 C_4 C_5 L_3 L_4 R_4 g_m s^5 + 2C_3 C_4 C_5 L_3 L_4 s^5 + 2C_3 C_4 C_5 L_4 R_4 s^4 + 2C_3 C_4 L_3 L_4 g_m s^3 + 2C_3 C_5 L_3 R_4 g_m s^3 + 2C_3 C_5 L_3 s^3 + C_3 C_5 L_3 s^3 + 2C_3 C_5 L_4 s^3 + 2C_4 C_5 L_4 s^3 +$

10.443 INVALID-ORDER-443 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

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

10.444 INVALID-ORDER-444 $Z(s) = \left(\infty, \ \infty, \ L_3 s + \frac{1}{C_3 s}, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4s^5 + 2C_3C_4C_5L_3R_4g_ms^4 + 2C_3C_4C_5L_3R_4g_ms^4 + 2C_3C_4L_3R_4g_ms^4 + 2C_3C_4L_3R_$

10.445 INVALID-ORDER-445
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_4 \left(\text{C}_3 L_3 s + 1 \right) \left(\text{C}_4 L_4 s^2 + 1 \right) \left(\text{C}_5 L_5 g_m s^3 - \text{C}_3 L_4 L_5 g_m s^4 + 2 C_3 C_4 C_5 L_3 L_4 R_4 g_m s^5 + 2 C_3 C_4 C_5 L_3 L_4 S^4 + C_3 C_4 L_5 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_4 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_5 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_5 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_5 R_4 g_m s^5 + 2 C_3 C_4 L_5 L_5 R_4 g_m s^5 + 2 C_3 C_5 L_5 L_5 R_4 g_m s^5 + 2 C_3 C_5 L_5 L_5 R_4 g_m s^5 + 2 C_3 C_5 L_5 L_5 R_4 g_m s^5 + 2 C_3 C_5 L_5 R_4 g_m s^5 + 2 C_3 C_5 L_5 R_5 g_m s^5 + 2 C_5 C_5 L_$

10.446 INVALID-ORDER-446
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = -\frac{R_4 \left(C_3 L_3 s^5 + 1 \right)}{2 C_3 C_4 C_5 L_3 L_4 L_5 R_4 g_m s^6 + 2 C_3 C_4 C_5 L_3 L_4 L_5 s^6 + 2 C_3 C_4 C_5 L_3 L_4 L_5 R_4 s^5 + 2 C_3 C_4 L_3 L_4 L_5 g_m s^5 + 2 C_3 C_4 L_3 L_4 R_4 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_4 s^3 + 2 C_3 C_4 L_4 R_4 s^3 +$

10.447 INVALID-ORDER-447
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4S^5 + 2C_3C_4C_5L_$

10.448 INVALID-ORDER-448
$$Z(s) = \left(\infty, \ \infty, \ L_3 s + \frac{1}{C_3 s}, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right)$$

10.449 INVALID-ORDER-449
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

10.450 INVALID-ORDER-450
$$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $-\frac{1}{2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}R_{4}g_{m}s^{6}+2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}R_{5}g_{m}s^{6}+2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}s^{6}+2C_{3}C_{4}C_{5}L_{3}L_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}$

10.451 INVALID-ORDER-451
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, R_4, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{L_3 R_4 s \left(-C_5 s + g_m\right)}{C_3 C_5 L_3 R_4 s^3 + C_3 L_3 R_4 q_m s^2 + 2C_5 L_3 R_4 q_m s^2 + 2C_5 L_3 s^2 + C_5 R_4 s + 2L_3 q_m s + R_4 q_m}$$

10.452 INVALID-ORDER-452
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{L_3 R_4 s \left(-C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 L_3 R_4 R_5 s^3 + C_3 L_3 R_4 R_5 g_m s^2 + C_5 L_3 R_4 R_5 g_m s^2 + 2 C_5 L_3 R_5 s^2 + C_5 R_4 R_5 s + 2 L_3 R_4 g_m s + 2 L_3 R_5 g_m s + 2 L_3 s + R_4 R_5 g_m + R_4 R_5 g_m s^2 + 2 R_5 R_5 g_m s^2 + 2 R_5 R_5 g_m s + 2$$

10.453 INVALID-ORDER-453
$$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_3 R_4 s \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_3 R_4 R_5 g_m s^3 + C_3 C_5 L_3 R_4 s^3 + C_3 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_5 g_m s^2 + 2 C_5 L_3 s^2 + C_5 R_4 R_5 g_m s + C_5 R_4 s + 2 L_3 g_m s + R_4 g_m r^2 + 2 C_5 R_5 r^2 + 2$$

10.454 INVALID-ORDER-454
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{L_3 R_4 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_5 L_3 L_5 R_4 g_m s^4 + C_3 C_5 L_3 R_4 s^3 + C_3 L_3 R_4 g_m s^2 + 2 C_5 L_3 L_5 g_m s^3 + 2 C_5 L_3 R_4 g_m s^2 + 2 C_5 L_3 s^2 + C_5 L_5 R_4 g_m s^2 + C_5 R_4 s + 2 L_3 g_m s + R_4 g_m r^2}$$

10.455 INVALID-ORDER-455
$$Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, R_{4}, \frac{L_{5}s}{C_{5}L_{5}s^{2}+1}, \infty\right)$$

10.456 INVALID-ORDER-456 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, R_4, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_3 R_4 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_3 L_5 R_4 g_m s^4 + C_3 C_5 L_3 R_4 g_m s^3 + C_3 C_5 L_3 R_4 g_m s^2 + 2 C_5 L_3 L_5 g_m s^3 + 2 C_5 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_5 g_m s^2 + 2 C_5 L_3 R_5 g_m s^2 + C_5 R_4 g_m s^2 + C_5 R_5 g_m s^$$

10.457 INVALID-ORDER-457 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

$$H(s) = \frac{L_3 R_4 s \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{C_3 C_5 L_3 L_5 R_4 R_5 g_m s^3 + C_3 L_3 L_5 R_4 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_4 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_4 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_4 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_4 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_4 R_5 g_m s^2 + 2 L_3 L_5 R_5 g_m s^2 + 2 L_3 L_5 R_5 g_m s^2 + 2 L_3 R_4 R_5 g_m s + L_5 R_4 R_5 g_m s + L_5 R_4 R_5 g_m s^2 + 2 L_5 R_5 g_m s^2$$

10.458 INVALID-ORDER-458 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4, \frac{L_{5s}}{C_5L_5s^2+1} + R_5, \infty\right)$

$$H(s) = \frac{L_3 R_4 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_4 g_m s^3 + C_3 L_3 R_4 R_5 g_m s^2 + C_5 L_3 L_5 R_4 g_m s^3 + 2 C_5 L_3 L_5 R_5 g_m s^3 + 2 C_5 L_3 L_5 g_m s^2 + C_5 L_5 R_4 R_5 g_m s^2 + 2 L_3 R_4 g_m s + 2 L_3 R_5 g_m s + 2$$

10.459 INVALID-ORDER-459 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{L_3R_4s\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_3L_5R_4R_5g_ms^4 + C_3C_5L_3L_5R_4s^4 + C_3C_5L_3R_4R_5s^3 + C_3L_3R_4s^2 + 2C_5L_3L_5R_4g_ms^3 + 2C_5L_3L_5R_5g_ms^3 + 2C_5L_3R_5s^2 + C_5L_5R_4s^2 + C_5L_5R_4s^2 + C_5R_4s^2 + C_5R_5s^2 + C_5R_5s^2$$

10.460 INVALID-ORDER-460 $Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, \frac{1}{C_{4}s}, \frac{1}{C_{5}s}, \infty\right)$

$$H(s) = \frac{L_3s\left(-C_5s + g_m\right)}{C_3C_5L_3s^3 + C_3L_3g_ms^2 + 2C_4C_5L_3s^3 + 2C_4L_3g_ms^2 + 2C_5L_3g_ms^2 + C_5s + g_m}$$

10.461 INVALID-ORDER-461 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{L_3s\left(-C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_3R_5s^3 + C_3L_3R_5g_ms^2 + C_3L_3s^2 + 2C_4C_5L_3R_5s^3 + 2C_4L_3R_5g_ms^2 + 2C_4L_3s^2 + 2C_5L_3R_5g_ms^2 + C_5R_5s + 2L_3g_ms + R_5g_m + 1}$$

10.462 INVALID-ORDER-462 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_3s\left(C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_3R_5g_ms^3 + C_3C_5L_3s^3 + C_3L_3g_ms^2 + 2C_4C_5L_3R_5g_ms^3 + 2C_4C_5L_3s^3 + 2C_4L_3g_ms^2 + 2C_5L_3g_ms^2 + C_5R_5g_ms + C_5s + g_m}$$

10.463 INVALID-ORDER-463
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_{3s^2+1}}, \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{L_3s\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{C_3C_5L_3L_5g_ms^4 + C_3C_5L_3s^3 + C_3L_3g_ms^2 + 2C_4C_5L_3L_5g_ms^4 + 2C_4C_5L_3s^3 + 2C_4L_3g_ms^2 + 2C_5L_3g_ms^2 + C_5L_5g_ms^2 + C_5s + g_m}$$

10.464 INVALID-ORDER-464
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{1}{C_4s}, \frac{L_{5s}}{C_5L_5s^2+1}, \infty\right)$$

$$H(s) = \frac{L_3s\left(-C_5L_5s^2 + L_5g_ms - 1\right)}{C_3C_5L_3L_5s^4 + C_3L_3L_5g_ms^3 + C_3L_3s^2 + 2C_4C_5L_3L_5s^4 + 2C_4L_3L_5g_ms^3 + 2C_4L_3s^2 + 2C_5L_3L_5g_ms^3 + C_5L_5s^2 + 2L_3g_ms + L_5g_ms + 1}$$

10.465 INVALID-ORDER-465
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

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

10.466 INVALID-ORDER-466
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

$$H(s) = \frac{L_3s\left(-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5\right)}{C_3C_5L_3L_5R_5s^4 + C_3L_3L_5R_5g_ms^3 + C_3L_3L_5s^3 + C_3L_3L_5s^3 + 2C_4L_3L_5R_5g_ms^3 + 2C_4L_3L_5s^3 + 2C_4L_3L_5s^3 + 2C_4L_3R_5s^2 + 2C_5L_3L_5R_5g_ms^3 + C_5L_5R_5s^2 + 2L_3L_5g_ms^2 + 2L_3R_5g_ms + L_5s + R_5}$$

10.467 INVALID-ORDER-467 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{1}{C_4s}, \frac{L_{5s}}{C_5L_5s^2+1} + R_5, \infty\right)$

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

10.468 INVALID-ORDER-468 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

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

10.469 INVALID-ORDER-469 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_3 R_4 s \left(-C_5 s + g_m\right)}{C_3 C_5 L_3 R_4 s^3 + C_3 L_3 R_4 g_m s^2 + 2 C_4 C_5 L_3 R_4 s^3 + 2 C_4 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_4 g_m s^2 + 2 C_5 L_3 s^2 + C_5 R_4 s + 2 L_3 g_m s + R_4 g_m}$$

10.470 INVALID-ORDER-470 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

10.471 INVALID-ORDER-471 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

10.472 INVALID-ORDER-472 $Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, \frac{R_{4}}{C_{4}R_{4}s+1}, L_{5}s + \frac{1}{C_{5}s}, \infty\right)$ $H(s) = \frac{L_3 R_4 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_5 L_3 L_5 R_4 g_m s^4 + C_3 C_5 L_3 R_4 s^3 + C_3 L_3 R_4 g_m s^2 + 2 C_4 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_3 R_4 s^3 + 2 C_4 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_4 g_m s^2 + C_5 R_5 R_4 g_m s^2 + C_5 R_5 R_5 g_m s^2 + C_5 R_5 g_m s^2 +$

10.473 INVALID-ORDER-473 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{L_3 R_4 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{C_3 C_5 L_3 L_5 R_4 s^4 + C_3 L_3 L_5 R_4 g_m s^3 + C_3 L_3 R_4 s^2 + 2 C_4 C_5 L_3 L_5 R_4 g_m s^3 + 2 C_4 L_3 R_4 s^2 + 2 C_5 L_3 L_5 R_4 g_m s^3 + 2 C_5 L_3 L_5 s^3 + C_5 L_5 R_4 s^2 + 2 L_3 L_5 g_m s^2 + 2 L_3 R_4 g_m s + 2 L_3 s + L_5 R_4 g_m s + R_4 R_4 g_m s^2 + 2 L_5 R_5 R_5 g_m s^2 + 2 L_5 R_5 g_m s^2 + 2$

10.474 INVALID-ORDER-474 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{R_4}{C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{L_3 R_4 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_3 L_5 R_4 g_m s^4 + C_3 C_5 L_3 R_4 R_5 g_m s^3 + C_3 C_5 L_3 R_4 g_m s^2 + 2 C_4 C_5 L_3 L_5 R_4 g_m s^3 + 2 C_4 C_5 L_3 R_4 g_m s^3 + 2 C_4 L_5 R_4 g_m s^3 + 2 C_5 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_5 g_m s^3 + 2 C_5 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2 C_$

10.475 INVALID-ORDER-475 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1}, \ \frac{R_4}{C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$

 $H(s) = \frac{L_3R_4s\left(-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5\right)}{C_3C_5L_3L_5R_4R_5s^4 + C_3L_3L_5R_4s^3 + C_3L_3L_5R_4s^3 + C_3L_3L_5R_4s^3 + 2C_4L_3L_5R_4s^3 + 2C_4L_3L_5R_4s^3 + 2C_4L_3L_5R_4s^3 + 2C_4L_3L_5R_4s^3 + 2C_5L_3L_5R_4s^3 + 2C_5L_5R_5s^3 + 2C_5L_5R_5s^3$

10.476 INVALID-ORDER-476 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

 $H(s) = \frac{L_3R_4s\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{C_3C_5L_3L_5R_4s^4 + C_3C_5L_3L_5R_4g_ms^3 + C_3L_3R_4s^2 + 2C_4C_5L_3L_5R_4g_ms^4 + 2C_4C_5L_3L_5R_4g_ms^3 + 2C_4L_3R_4s^2 + 2C_4L_3R_4s^2 + 2C_5L_3L_5R_4g_ms^3 + 2C_5L_5L_5R_4g_ms^3 + 2C_5L_5L_5R_5g_ms^3 + 2C_5L_5L_5R_5g_ms^3 + 2C_5L_5L_5R_5g_ms^3 + 2C_5L_5L_5R_5g_ms^3 + 2C_5L_5R_5g_ms^3 + 2C_5L_5L_5R_5g_ms^3 + 2C_5L_5R_5g_ms^3 + 2C_5L_5R_5$

10.477 INVALID-ORDER-477 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $L_3R_4s\left(C_5L_5R_5g_ms^2-C_5L_5s^2-C_5R_5s+R_5g_m-1\right)$

 $H(s) = \frac{L_3 R_4 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_4 s^4 + C_3 C_5 L_3 L_5 R_4 s^2 + 2 C_4 L_3 R_4 s^2 + 2 C_4 L_3 R_4 s^2 + 2 C_5 L_3 L_5 R_4 g_m s^3 + 2 C_5 L_3 L_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3 + 2 C_5$

10.478 INVALID-ORDER-478 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3 L_3 s^2 + 1}, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{L_3s\left(R_5g_m - 1\right)\left(C_4R_4s + 1\right)}{C_3C_4L_3R_4S_9m^3 + C_3C_4L_3R_4s^3 + C_3L_3R_5g_ms^2 + C_3L_3s^2 + 2C_4L_3R_4g_ms^2 + 2C_4L_3S_9ms^2 + 2C_4L_3s^2 + C_4R_4S_9ms + C_4R_4s + 2L_3g_ms + R_5g_m + 1}$

10.479 INVALID-ORDER-479 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$

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

10.480 INVALID-ORDER-480 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $L_3s(C_4R_4s+1)(C_5R_5s-R_5g_m+1)$ $\frac{L_{3}s\left(\cup_{4}L_{4}s+1\right)\left(\cup_{5}L_{5}s-L_{5}g_{m}+1\right)}{C_{3}C_{4}C_{5}L_{3}R_{4}R_{5}s^{4}+C_{3}C_{4}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{4}L_{3}R_{4}s^{3}+C_{3}C_{5}L_{3}R_{5}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{2}+2C_{4}L_{3}R_{5}g_{m}s^{2$

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10.481 INVALID-ORDER-481 Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{L_{3}s\left(C_{4}R_{4}s+1\right)\left(C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{C_{3}C_{4}C_{5}L_{3}R_{4}R_{5}g_{m}s^{4}+C_{3}C_{4}L_{3}R_{4}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+2C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+2C_{4}C_{5}L_{3}g_{m}s^{2}+C_{4}C_{5}R_{4}g_{m}s^{2}+C_{4}C_{5}R_{4}g_{m}s^{2}+C_{4}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s^{2}+C_{5}R_{5}
10.482 INVALID-ORDER-482 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{L_{3}s\left(C_{4}R_{4}s+1\right)\left(C_{5}L_{5}g_{m}s^{2}-C_{5}s+g_{m}\right)}{C_{3}C_{4}C_{5}L_{3}L_{5}R_{4}g_{m}s^{5}+C_{3}C_{4}C_{5}L_{3}R_{4}s^{4}+C_{3}C_{4}L_{3}R_{4}g_{m}s^{3}+C_{3}C_{5}L_{3}S^{3}+C_{3}L_{5}g_{m}s^{4}+C_{3}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{3}S^{3}+C_{4}C_{5}L_{5}S^{3}+C_{4}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C_{5}C_{5}L_{5}S^{3}+C
10.483 INVALID-ORDER-483 Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, R_{4} + \frac{1}{C_{4}s}, \frac{L_{5}s}{C_{5}L_{5}s^{2}+1}, \infty\right)
H(s) = -\frac{L_{3}s\left(C_{4}R_{4}s+1\right)\left(C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{C_{3}C_{4}C_{5}L_{3}L_{5}R_{4}s^{5}+C_{3}C_{4}L_{3}L_{5}R_{4}g_{m}s^{4}+C_{3}C_{4}L_{3}L_{5}g_{m}s^{3}+C_{3}L_{5}s^{4}+C_{3}L_{5}L_{5}g_{m}s^{3}+C_{4}L_{5}L_{5}L_{5}s^{4}+C_{4}L_{5}L_{5}L_{5}g_{m}s^{3}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{3}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L_{5}R_{4}g_{m}s^{2}+C_{4}L
10.484 INVALID-ORDER-484 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L_3s(C_4R_4s+1)(C_5L_5g_ms^2+C_5R_5g_ms-C_5s+g_m)
H(s) = \frac{L_{3}s\left(C_{4}R_{4}s+1\right)\left(C_{5}L_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{C_{3}C_{4}C_{5}L_{3}L_{5}g_{m}s^{5}+C_{3}C_{4}C_{5}L_{3}R_{4}g_{m}s^{5}+C_{3}C_{4}C_{5}L_{3}R_{4}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{5}g_{m}s^{4}+C_{3}C_{5}L_{3}R_{5}g_{m}s^{4}+C_{3}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5}g_{m}s^{3}+C_{4}C_{5}L_{5}R_{5
10.485 INVALID-ORDER-485 Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{2}L_{2}s^{2}+1}, R_{4} + \frac{1}{C_{4}s}, \frac{L_{5}R_{5}s}{C_{5}L_{5}R_{5}s^{2}+L_{5}s+R_{5}}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L_{3}s(C_{4}R_{4}s+1)(C_{5}L_{5}R_{5}s^{2}-L_{5}R_{5}g_{m}s+L_{5}s+R_{5})
                                            10.486 INVALID-ORDER-486 Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, R_4 + \frac{1}{C_4s}, \frac{L_{5s}}{C_5L_5s^2+1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L_3s\left(C_4R_4s+1\right)\left(C_5L_5R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_m-1\right)
H(s) = \frac{L_{3}s\left(C_{4}R_{4}s+1\right)\left(C_{5}L_{5}R_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s-C_{5}L_{5}s+L_{5}g_{m}s+C_{5}L_{5}g_{m}s+C_{5
10.487 INVALID-ORDER-487 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, R_4 + \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L_{3}s\left(C_{4}R_{4}s+1\right)\left(-C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}s^{2}\right)
H(s) = -\frac{1}{C_3C_4C_5L_3L_5R_4R_5g_ms^5 + C_3C_4C_5L_3L_5R_4s^5 + C_3C_4C_5L_3L_5R_4s^5 + C_3C_4L_3R_4s^5 + C_3C_4L_3R_4s^5 + C_3C_5L_3L_5s^4 + C_3C_5L_5L_5s^4 + C_3C_5L_5L_5s^4 + C_3C_5L_5L_5s^4 + C_3C_5L_5L_5s^4 + C_3C_5L_5L_5s^4 + C_3C_5L_5
10.488 INVALID-ORDER-488 Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_{3s}^2+1}, L_4s + \frac{1}{C_{4s}}, R_5, \infty\right)
                                                                                                                                                                                                                          H(s) = \frac{L_{3}s\left(R_{5}g_{m}-1\right)\left(C_{4}L_{4}s^{2}+1\right)}{C_{3}C_{4}L_{3}L_{4}R_{5}g_{m}s^{4}+C_{3}C_{4}L_{3}L_{4}s^{4}+C_{3}L_{3}R_{5}g_{m}s^{2}+C_{4}L_{3}L_{4}g_{m}s^{3}+2C_{4}L_{3}R_{5}g_{m}s^{2}+2C_{4}L_{3}s^{2}+C_{4}L_{4}R_{5}g_{m}s^{2}+C_{4}L_{4}s^{2}+2L_{3}g_{m}s+R_{5}g_{m}+1}
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10.489 INVALID-ORDER-489 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1}, \ L_4s + \frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right)$ $H(s) = -\frac{L_3s\left(C_5s - g_m\right)\left(C_4L_4s^2 + 1\right)}{C_3C_4C_5L_3L_4s^5 + C_3C_4L_3L_4g_ms^4 + C_3C_5L_3s^3 + C_4C_5L_3L_4g_ms^4 + 2C_4C_5L_3s^3 + C_4C_5L_4s^3 + 2C_4L_3g_ms^2 + 2C_5L_3g_ms^2 + C_5s + g_m}$

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10.490 INVALID-ORDER-490 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
H(s) = -\frac{L_{3}s\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}R_{5}s-R_{5}g_{m}+1\right)}{C_{3}C_{4}C_{5}L_{3}L_{4}R_{5}s^{5}+C_{3}C_{4}L_{3}L_{4}R_{5}g_{m}s^{4}+C_{3}C_{5}L_{3}R_{5}s^{3}+C_{3}L_{3}R_{5}g_{m}s^{2}+C_{4}L_{3}L_{4}R_{5}g_{m}s^{4}+2C_{4}C_{5}L_{3}R_{5}g_{m}s^{2}+2C_{4}L_{3}L_{4}g_{m}s^{3}+2C_{4}L_{3}R_{5}g_{m}s^{2}+2C_{4}L_{3}S_{2}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{3}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m}s^{2}+C_{5}L_{5}R_{5}g_{m
10.491 INVALID-ORDER-491 Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, L_4s + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{L_{3}s\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{C_{3}C_{4}C_{5}L_{3}L_{4}R_{5}g_{m}s^{5}+C_{3}C_{4}L_{5}L_{4}g_{m}s^{4}+C_{3}C_{5}L_{3}R_{5}g_{m}s^{3}+C_{3}L_{3}g_{m}s^{2}+2C_{4}C_{5}L_{3}L_{4}g_{m}s^{4}+2C_{4}C_{5}L_{3}s^{3}+C_{4}C_{5}L_{3}s^{3}+C_{4}C_{5}L_{4}s^{3}+2C_{4}L_{3}g_{m}s^{2}+C_{4}L_{4}g_{m}s^{2}+2C_{5}L_{3}g_{m}s^{2}+C_{5}R_{5}g_{m}s+C_{5}s+g_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}s^{2}+C_{5}R_{5}s_{m}
10.492 INVALID-ORDER-492 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{L_{3}s\left(C_{4}L_{4}s^{2} + 1\right)\left(C_{5}L_{5}g_{m}s^{2} - C_{5}s + g_{m}\right)}{C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}g_{m}s^{6} + C_{3}C_{4}L_{5}L_{4}g_{m}s^{4} + C_{3}C_{5}L_{3}L_{5}g_{m}s^{4} + C_{3}C_{5}L_{3}L_{5}g_{m}s^{4} + C_{3}C_{5}L_{3}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{3}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{3}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{3}S_{3}s^{2} + C_{4}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{3}S_{3}s^{2} + C_{4}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{3}S_{3}s^{2} + C_{4}L_{5}g_{m}s^{4} + C_{4}C_{5}L_{3}S_{3}s^{2} + C_{5}L_{5}g_{m}s^{2} + 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   L_3s\left(C_4L_4s^2+1\right)\left(C_5L_5g_ms^2-C_5s+g_m\right)
10.493 INVALID-ORDER-493 Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, L_4s + \frac{1}{C_4s}, \frac{L_{5s}}{C_5L_5s^2+1}, \infty\right)
H(s) = -\frac{L_{3}s\left(C_{4}L_{4}s^{2}+1\right)\left(C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}s^{6}+C_{3}C_{4}L_{3}L_{4}L_{5}g_{m}s^{5}+C_{3}C_{4}L_{3}L_{4}s^{4}+C_{3}C_{5}L_{3}L_{5}s^{4}+C_{3}L_{3}L_{5}g_{m}s^{3}+2C_{4}L_{5}L_{4}L_{5}g_{m}s^{3}+2C_{4}L_{3}L_{5}g_{m}s^{3}+2C_{4}L_{3}L_{5}g_{m}s^{3}+C_{4}L_{4}L_{5}g_{m}s^{3}+C_{4}L_{4}L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{3}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+C_{5}L_{5}s^{2}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s^{3}+2L_{5}g_{m}s
10.494 INVALID-ORDER-494 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
                                     10.495 INVALID-ORDER-495 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L_3s(C_4L_4s^2+1)(C_5L_5R_5s^2-L_5R_5g_ms+L_5s+R_5)
                                               \frac{C_3C_4C_5L_3L_4L_5R_5s^6 + C_3C_4L_3L_4L_5R_5g_ms^5 + C_3C_4L_3L_4L_5s^5 + C_3C_4L_3L_4L_5s^4 + C_3C_5L_3L_5R_5s^4 + C_3L_3L_5s^3 + C_3L_
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10.496 INVALID-ORDER-496
$$Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1}, \ L_4s + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$$

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

10.497 INVALID-ORDER-497
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

10.498 INVALID-ORDER-498
$$Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1}, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{1}{C_5s}, \ \infty\right)$$

$$H(s) = \frac{L_3L_4s\left(-C_5s + g_m\right)}{C_3C_5L_3L_4s^3 + C_3L_3L_4g_ms^2 + 2C_4C_5L_3L_4s^3 + 2C_4L_3L_4g_ms^2 + 2C_5L_3s + C_5L_4s + 2L_3g_m + L_4g_m}$$

10.499 INVALID-ORDER-499 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$ $H(s) = \frac{L_3L_4s\left(-C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_3L_4R_5s^3 + C_3L_3L_4R_5g_ms^2 + C_3L_3L_4S^2 + 2C_4L_5L_3L_4R_5g_ms^2 + 2C_4L_3L_4S^2 + 2C_5L_3L_4S^2 + 2C_5L_3R_5s + C_5L_4R_5s + 2L_3L_4g_ms + 2L_3R_5g_m + 2L_3 + L_4R_5g_m + L_$ **10.500** INVALID-ORDER-500 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1}, R_5 + \frac{1}{C_5s}, \infty\right)$ $H(s) = \frac{L_3L_4s\left(C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_3L_4R_5g_ms^3 + C_3C_5L_3L_4s^3 + C_3L_3L_4g_ms^2 + 2C_4C_5L_3L_4R_5g_ms^3 + 2C_4C_5L_3L_4g_ms^2 + 2C_5L_3L_4g_ms^2 + 2C_5L_3R_5g_ms + 2C_5L_3s + C_5L_4R_5g_ms + C_5L_4s + 2L_3g_m + L_4g_m}$ 10.501 INVALID-ORDER-501 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1}, L_5s + \frac{1}{C_5s}, \infty\right)$ $H(s) = \frac{L_3L_4s\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{C_3C_5L_3L_4L_5g_ms^4 + C_3C_5L_3L_4s^3 + C_3L_3L_4g_ms^2 + 2C_4C_5L_3L_4L_5g_ms^4 + 2C_4C_5L_3L_4s^3 + 2C_4L_3L_4g_ms^2 + 2C_5L_3L_4g_ms^2 + 2C_5L_3L_5g_ms^2 + 2C_5L_3s + C_5L_4L_5g_ms^2 + C_5L_4s + 2L_3g_m + L_4g_m}$ 10.502 INVALID-ORDER-502 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$ $H(s) = \frac{L_3L_4s\left(-C_5L_5s^2 + L_5g_ms - 1\right)}{C_3C_5L_3L_4L_5s^4 + C_3L_3L_4L_5g_ms^3 + C_3L_3L_4S^2 + 2C_4L_3L_4L_5g_ms^3 + 2C_4L_3L_4S^2 + 2C_5L_3L_4S^3 + 2C_5L_3L_5g_ms^3 + 2C_5L_5L_5L_5g_ms^3 + 2C_5L_5L_5g_ms^3 + 2C_5L_5L_5L_5g_ms^3 + 2C_5L_5L_5g_ms^3 + 2C_5L_5L_5L_5g_ms^3 + 2C_5L_5L_5g_ms^3 + 2C_5L_5L_5g_ms^3$ **10.503** INVALID-ORDER-503 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$ $H(s) = \frac{L_3L_4s\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_3L_4L_5g_ms^4 + C_3C_5L_3L_4R_5g_ms^3 + C_3C_5L_3L_4g_ms^2 + 2C_4C_5L_3L_4g_ms^3 + 2C_4C_5L_3L_4g_ms^2 + 2C_5L_3L_4g_ms^2 + 2C_5L_3L_5g_ms^2 + 2C_5L_3L_5g_ms^2 + 2C_5L_3R_5g_ms + 2C_5L_3R_5g_$ 10.504 INVALID-ORDER-504 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{L_{4s}}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$ 10.505 INVALID-ORDER-505 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$ $H(s) = \frac{L_3L_4s\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{C_3C_5L_3L_4L_5R_5g_ms^4 + C_3C_5L_3L_4L_5s^4 + C_3L_3L_4L_5g_ms^3 + C_3L_3L_4L_5g_ms^4 + 2C_4C_5L_3L_4L_5s^4 + 2C_4L_3L_4L_5g_ms^3 + 2C_4L_3L_4s^2 + 2C_5L_3L_4L_5g_ms^3 + 2C_5L_3L_5R_5g_ms^2 + 2C_5L_5R_5g_ms^2 + 2C_5L_5R_5g$

10.506 INVALID-ORDER-506
$$Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1}, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

$$H(s) = \frac{L_3L_4s\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_3L_4L_5S^4 + C_3C_5L_3L_4L_5s^4 + C_3C_5L_3L_4R_5g_ms^2 + C_3L_3L_4S^3 + 2C_4L_3L_4S^4 + 2C_4C_5L_3L_4L_5s^4 + 2C_4C_5L_3L_5c^4 + 2C_4C_5L_5L_5c^4 + 2C_5L_5L_5c^4 + 2C_5L_5L_5c^4 + 2C_5L_5L_5c^4 + 2C_5L_5L_5c^4 + 2C_5L_5L_5c^4 + 2C_5L_5L_5c^4 + 2C_$$

10.507 INVALID-ORDER-507
$$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

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

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10.508 INVALID-ORDER-508 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)
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 $H(s) = -\frac{L_{3}s\left(C_{5}s - g_{m}\right)\left(C_{4}L_{4}s^{2} + C_{4}R_{4}s + 1\right)}{C_{3}C_{4}C_{5}L_{3}L_{4}s^{5} + C_{3}C_{4}C_{5}L_{3}R_{4}s^{4} + C_{3}C_{4}L_{3}L_{4}g_{m}s^{3} + C_{3}C_{5}L_{3}s^{3} + C_{4}C_{5}L_{3}L_{4}g_{m}s^{4} + 2C_{4}C_{5}L_{3}s^{3} + C_{4}C_{5}L_{3}s^{3} + C_{4}C_{5}L_{4}s^{3} + C_{4}C_{5}L_{4}s^{3} + C_{4}C_{5}L_{4}s^{3} + C_{4}C_{5}L_{3}s^{3} + C_{4}C_{5}L_{3}s^{3}$

10.509 INVALID-ORDER-509 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

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

10.510 INVALID-ORDER-510 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$

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

10.511 INVALID-ORDER-511 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, L_4s + R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$

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

10.512 INVALID-ORDER-512 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

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

10.513 INVALID-ORDER-513 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_{3s}^2+1}, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

10.514 INVALID-ORDER-514 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = -\frac{1}{C_3C_4C_5L_3L_4L_5R_5s^6 + C_3C_4C_5L_3L_5R_4s^5 + C_3C_4L_3L_4L_5s^5 + C_3C_4L_3L_4L_5s^5 + C_3C_4L_3L_4L_5s^5 + C_3C_4L_3L_4L_5s^4 + C_3C_4L_3L_5R_4s^4 + C_3C_4L_3L_5R_4s^4 + C_3C_4L_3L_5R_5s^4 + C_3L_3L_5R_5s^4 + C_3L_5L_5R_5s^4 + C_3L_5L_5R_5s^4 + C_3L_5L_5R_5s^4 + C_3L_5L_5R_5s^4 + C_3L_5L_5R_5s^4 + C_3L_5L_5R_5s^4 + C_3L_5L_5R_5s^4$

10.515 INVALID-ORDER-515 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

 $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_5g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + C_3C_4C_5L_3L_5R_4s^5 + C_3C_4L_3L_4S^6 + C_3C_4L_3L$

10.516 INVALID-ORDER-516 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{1}{C_3C_4C_5L_3L_4L_5R_5g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + C_3C_4C_5L_3L_4R_5s^5 + C_3C_4C_5L_3L_5R_4s^5 + C_3C_4C_5L_3L_5R_4s^5 + C_3C_4C_5L_3L_4R_5s^4 + C_3C_4L_3L_4R_5g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + C_3C_4L_3R_4R_5g_ms^4 + C_3C_4L_3$

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10.518 INVALID-ORDER-518 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5}{C_5R_5s+1}, \infty\right)
H(s) = \frac{L_3L_4R_4s\left(-C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_3L_4R_4S_5s^3 + C_3L_3L_4R_4S_5g_ms^2 + C_3L_3L_4R_4S_5s^3 + 2C_4L_3L_4R_4S_5g_ms^2 + 2C_5L_3L_4R_4S_5s^2 + 2C_5L_3L_4R_5s^2 + 2C_5L_3L_4R
10.519 INVALID-ORDER-519 Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5 + \frac{1}{C_5s}, \infty\right)
10.520 INVALID-ORDER-520 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{L_3 L_4 R_4 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_5 L_3 L_4 L_5 R_4 g_m s^4 + C_3 C_5 L_3 L_4 R_4 s^3 + 2 C_4 L_5 L_3 L_4 R_4 g_m s^4 + 2 C_4 C_5 L_3 L_4 R_4 g_m s^4 + 2 C_4 L_5 L_3 L_4 R_4 g_m s^2 + 2 C_5 L_3 
10.521 INVALID-ORDER-521 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = \frac{L_3L_4R_4s\left(-C_5L_5s^2 + L_5g_ms - 1\right)}{C_3C_5L_3L_4L_5R_4s^4 + C_3L_3L_4E_5R_4g_ms^3 + C_3L_3L_4E_5R_4g_ms^3 + 2C_4L_3L_4E_5R_4g_ms^3 + 2C_5L_3L_4E_5R_4s^2 + 2C_5L_3L_4E_5R_4s^2 + 2L_3L_4E_5R_4s^2 + 2L_3L_4E_5R_4g_ms^3 + 2L_3L_4E_5R_4g_ms^3 + 2C_5L_3L_4E_5R_4g_ms^3 + 2C_5L_5L_5R_4g_ms^3 + 2C_5L_5L_5R_5g_ms^3 + 2C_5L_5L_5R_5g_ms^3 + 2C_5L_5L_5R_5g_ms^3 + 2C_
10.522 INVALID-ORDER-522 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      L_3L_4R_4s\left(C_5L_5g_ms^2+C_5R_5g_ms-C_5s+g_m\right)
H(s) = \frac{L_3L_4R_4s\left(C_5L_5g_ms + C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_3L_4L_5R_4g_ms^4 + C_3C_5L_3L_4R_4sg_ms^3 + C_3C_5L_3L_4R_4g_ms^3 + 2C_4C_5L_3L_4R_4g_ms^3 + 2C_4C_5L_3L_4R_4g_ms^3 + 2C_4L_3L_4R_4g_ms^3 + 2C_5L_3L_4R_4g_ms^3 + 2C_5L_3L_4R_5g_ms^3 + 2C_5L_5L_5L_5g_ms^3 + 2C_5L_5L_5L_5g_ms^3 + 2C_5L_5L_
10.523 INVALID-ORDER-523 Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, \frac{L_{4}R_{4}s}{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}, \frac{L_{5}R_{5}s}{C_{5}L_{5}R_{5}s^{2}+L_{5}s+R_{5}}, \infty\right)
10.524 INVALID-ORDER-524 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           L_3L_4R_4s\left(C_5L_5R_5g_ms^2-C_5L_5s^2+L_5g_ms^2\right)
H(s) = \frac{L_3L_4R_4S(c_5L_5R_5g_ms^4 + C_5L_5R_5g_ms^4 + C_5L_5R_
10.525 INVALID-ORDER-525 Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
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10.517 INVALID-ORDER-517 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{1}{C_5s}, \infty\right)$

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10.526 INVALID-ORDER-526 Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{L_{4s}}{C_4L_4s^2+1} + R_4, R_5, \infty\right)
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 $H(s) = \frac{L_{3}s\left(R_{5}g_{m}-1\right)\left(C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}\right)}{C_{3}C_{4}L_{3}L_{4}R_{5}g_{m}s^{4} + C_{3}C_{4}L_{3}L_{4}R_{5}g_{m}s^{3} + C_{3}L_{3}L_{4}s^{3} + C_{3}L_{3}R_{4}s^{2} + C_{4}L_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{4}L_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{4}L_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{4}L_{3}L_{4}R_{5}g_{m}s^{2} + C_{4}L_{4}R_{4}s^{2} + 2L_{3}L_{4}g_{m}s^{2} + 2L_{3}R_{4}g_{m}s + 2L_{3}R_{5}g_{m}s + 2L_{3}s + L_{4}R_{5}g_{m}s + L_{4}s + R_{5}g_{m}s^{2} + C_{4}L_{4}R_{4}s^{2} + 2L_{3}L_{4}g_{m}s^{2} + 2L_{3}R_{4}g_{m}s + 2L_{3}R_{5}g_{m}s + 2L_{3}s + L_{4}R_{5}g_{m}s + L_{4}s + R_{5}g_{m}s + L_{5}g_{m}s +$

10.527 INVALID-ORDER-527 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{1}{C_5s}, \infty\right)$

10.528 INVALID-ORDER-528 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_{3s}^2+1}, \frac{L_{4s}}{C_4L_4s^2+1} + R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $L_3s\left(C_5R_5s-R_5g_m+1\right)\left(C_4L_4R_4s^2+L_4s+C_5R_5s^2+$

10.529 INVALID-ORDER-529 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{L_{4s}}{C_4L_4s^2+1} + R_4, R_5 + \frac{1}{C_5s}, \infty\right)$

10.530 INVALID-ORDER-530 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + \frac{1}{C_5s}, \infty\right)$

10.531 INVALID-ORDER-531 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_{3s}^2+1}, \frac{L_{4s}}{C_4L_4s^2+1} + R_4, \frac{L_{5s}}{C_5L_5s^2+1}, \infty\right)$

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

10.532 INVALID-ORDER-532 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_4g_ms^6 + C_3C_4C_5L_3L_4R_4g_ms^5 + C_3C_4C_5L_3L_4R_4g_ms^4 + C_3C_5L_3L_4R_5g_ms^5 + C_3C_5L_3L_5R_5g_ms^5 + C_3C_5L_5R_5g_ms^5 + C_3C_5L_5R_5g_ms^5 + C_3C_5L_5R_5g_ms^5 + C_3C_5L_5R_5g_ms^5 + C_3C_5L_5R_5g_ms$

10.533 INVALID-ORDER-533 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $\overline{C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}R_{4}R_{5}s^{6} + C_{3}C_{4}L_{3}L_{4}L_{5}R_{4}R_{5}g_{m}s^{5} + C_{3}C_{4}L_{3}L_{4}L_{5}R_{4}s^{5} + C_{3}C_{5}L_{3}L_{4}L_{5}R_{5}s^{5} + C_{3}C_{5}L_{3}L_{4}L_{5}R_{5}s^{4} + C_{3}L_{3}L_{4}L_{5}s^{4} + C_{3}L_{3}L_{4}R_{5}s^{3} + C_{3}L_{3}L_{5}R_{4}R_{5}g_{m}s^{3} + C_{3}L_{3}L_{5}R_{4}s^{3} + C_{3}L_{3}L_{5}R_{4}s^{3} + C_{3}L_{3}L_{5}R_{4}s^{5} + C_{3}C_{5}L_{3}L_{4}L_{5}R_{5}s^{5} + C_{3}C_{5}L_{3}L_{4}L_{5}s^{4} + C_{3}L_{3}L_{4}L_{5}s^{4} + C_{3}L_{4}L_{5}s^{4} + C_{3}L_{4}L_{5}s^{$

10.534 INVALID-ORDER-534 $Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, \frac{L_{4}s}{C_{4}L_{4}s^{2}+1} + R_{4}, \frac{L_{5}s}{C_{5}L_{5}s^{2}+1} + R_{5}, \infty\right)$

 $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_4R_5g_ms^6 + C_3C_4L_3L_4L_5R_4s^6 + C_3C_4L_3L_4L_5R_4g_ms^5 + C_3C_4L_3L_4R_4s^4 + C_3C_5L_3L_4L_5s^5 + C_3C_5L_3L_5s^5 + C_3C_5L_5s^5 + C_3C_5L$

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 10.535 \quad \text{INVALID-ORDER-535} \quad Z(s) = \left( \infty, \ \infty, \ \frac{L_{38}}{C_3 L_3 s^3 + 1}, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ \frac{R_5 \left( C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^3 + C_5 R_6 s + 1}, \ \infty \right) 
 H(s) = -\frac{1}{C_3 C_4 C_5 L_3 L_4 L_5 R_4 R_5 g_m s^6 + C_3 C_4 C_5 L_3 L_4 L_5 R_4 s^6 + C_3 C_4 C_5 L_3 L_4 R_4 R_5 s^5 + C_3 C_4 L_3 L_4 R_4 R_5 g_m s^4 + C_3 C_4 L_3 L_4 R_4 R_5 g_m s^4 + C_3 C_5 L_3 L_4 L_5 R_5 s^5 + C_3 C_5 L_3 L_4 R_5 s^5 + C_3 C_5 L_3 L_4 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + C_3 C_5 L_3 L_4 R_5 g_m s^3 + C_3 L_4 L_5 R_5 g_m s^5 + C_3 C_5 L_3 L_4 L_5 R_5 s^5 + C_3 C_5 L_3 L_4 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + C_3 C_5 L_3 L_4 R_5 g_m s^3 + C_3 L_4 L_5 R_5 g_m s^5 + C_3 C_5 L_3 L_4 L_5 R_5 s^5 + C_3 C_5 L_3 L_4 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + C_3 C_5 L_3 L_4 R_5 g_m s^4 + C_3 C_5 L_3
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10.537 INVALID-ORDER-537
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = -\frac{L_3R_4s\left(C_5s - g_m\right)\left(C_4L_4s^2 + 1\right)}{C_3C_4C_5L_3L_4R_4s^5 + C_3C_4L_3L_4R_4g_ms^4 + C_3C_5L_3R_4s^3 + C_4L_5L_3L_4R_4g_ms^4 + 2C_4C_5L_3L_4s^4 + 2C_4C_5L_3R_4s^3 + 2C_4L_3L_4g_ms^3 + 2C_4L_3R_4g_ms^2 + 2C_5L_3R_4g_ms^2 + 2C_5L_3s^2 + C_5R_4s + 2L_3g_ms + R_4g_ms^2 + 2C_4L_3R_4g_ms^3 + 2C_4L_3R_4g_ms^$$

10.538 INVALID-ORDER-538
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = -\frac{L_3R_4s\left(C_4L_4s^2 + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{C_3C_4C_5L_3L_4R_4S^5 + C_3C_4L_3L_4R_4S^6 + C_3C_4L_3L_4R_4S^3 + C_3L_3R_4S^2 + 2C_4C_5L_3L_4R_5S^4 + 2C_4C_5L_3L_4R_5S^3 + 2C_4L_3L_4R_4S^3 + 2C_4L_3L_4R_5S^3 + 2C_4L_3L_4R_5S^3$$

10.539 INVALID-ORDER-539
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

10.540 INVALID-ORDER-540
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{L_3 R_4 s \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_4 C_5 L_3 L_4 L_5 R_4 g_m s^6 + C_3 C_4 C_5 L_3 L_4 R_4 g_m s^4 + C_3 C_5 L_3 L_4 R_4 g_m s^4 + C_3 C_5 L_3 L_4 R_4 g_m s^4 + 2 C_4 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_5 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_5 L_5 R_4 g_m s^4 + 2 C_4 C_5 L_5 R_5 g_m s^4 + 2 C_4 C_5 L_5 R_5 g_m s^5 + 2 C_5 L_5 R_5$$

10.541 INVALID-ORDER-541
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

10.542 INVALID-ORDER-542
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_{3s^2+1}}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{L_3R_4s\left(C_4L_4s^2 + \frac{L_3R_4s\left(C_4L_4s^3 + C_3C_4L_3L_4R_4g_ms^4 + C_3C_5L_3L_4R_4g_ms^4 + C_3C_5L_3L_4R_5g_ms^4 +$$

10.543 INVALID-ORDER-543
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

$$H(s) = -\frac{1}{C_3C_4C_5L_3L_4L_5R_4R_5s^6 + C_3C_4L_3L_4L_5R_4R_5q_ms^5 + C_3C_4L_3L_4L_5R_4s^5 + C_3C_4L_3L_4R_4R_5s^4 + C_3C_5L_3L_5R_4R_5s^4 + C_3L_3L_5R_4R_5q_ms^3 + C_3L_3L_5R_4R_5s^4 + C_3L_3L_5R_5R_5s^4 + C_3L_3L_5R_5R_5s^4 + C_3L_3L_5R_5R_5s^4 + C_3L_3L_5R_5R_5s^4 + C_3L_5L_5R_5s^4 + C_3L_5L_5$$

```
10.544 INVALID-ORDER-544 Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, \frac{R_{4}\left(C_{4}L_{4}s^{2}+1\right)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1}, \frac{L_{5}s}{C_{5}L_{5}s^{2}+1} + R_{5}, \infty\right)
```

 $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_4R_5g_ms^6 + C_3C_4C_5L_3L_4L_5R_4g^6 + C_3C_4L_3L_4L_5R_4g_ms^5 + C_3C_4L_3L_4R_4g_ms^6 + C$

10.545 INVALID-ORDER-545
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

10.546 INVALID-ORDER-546
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right)}{2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 s^3 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 s^2 + C_3 C_5 R_4 s^2 + 2 C_3 L_3 g_m s^2 + 2 C_3 R_3 g_m s + C_3 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 s + 2 g_m R_3 r_3 R_4 r_4 r_4 r_4 r_4 r_4 r_4 r_5 r_4 r_5 R_4 r_5 R_5$$

10.547 INVALID-ORDER-547
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{2 C_3 C_5 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 s^3 + 2 C_3 C_5 R_3 R_4 S_5 s^2 + 2 C_3 C_5 R_3 R_5 s^2 + 2 C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_5 g_m s + 2 C_3 R_3 R_5 g_m s + 2 C_3 R_3 R_5 g_m s + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_4 R_5 g_m s + 2 C_5 R_5 g_m + 2 C_5 R_5 g_m s + 2 C_5 R_5 g_m s$$

10.548 INVALID-ORDER-548
$$Z(s) = \left(\infty, \ \infty, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ R_4, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$$

$$H(s) = \frac{R_4 \left(C_3 L_3 s^2 + C_3 R_3 s + 1 \right) \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 s^3 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 s^2 + C_3 C_5 R_4 R_5 g_m s^2 + 2 C_3 L_3 g_m s^2 + 2 C_3 R_3 g_m s + C_3 R_4 g_m s + 2 C_5 R_4 g_m s + 2 C_5 R_5 g_$$

10.549 INVALID-ORDER-549
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_3 L_3 s^2 + C_3 R_3 s + 1 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 s^3 + 2 C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_4 g_m s^3 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 s^2 + 2 C_3 R_3 g_m s + C_3 R_4 g_m s + 2 C_5 L_5 g_m s^2 + 2 C_5 R_4 g_m s + 2 C_5 L_5 g_m s^2 + 2 C_5 R_4 g_m s + 2 C_5 R_5 g_m s$$

10.550 INVALID-ORDER-550
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_5 R_3 R_4 g_m s^3 + 2 C_3 L_5 R_4 g_m s^3 + 2 C_3 L_5 R_3 g_m s^2 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_5 R_3 g_m s^2 + 2 C_3 L_5 R_3 g_m s^2 + 2 C_3 L_5 R_4 g_m s^2 + 2 C_5 L_5 R_5 R_5 g_m s^2 + 2 C_5 L_5 R_5 g_m s^2 + 2$$

10.551 INVALID-ORDER-551
$$Z(s) = \left(\infty, \ \infty, \ L_3s + R_3 + \frac{1}{C_3s}, \ R_4, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$$

$$H(s) = \frac{R_4 \left(C_3 L_3 s^2 + C_3 R_3 s + 1 \right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_4 R_5 g_m s^2 + 2 C_3 R_3 g_m s + C_3 R_4 g_m s^2 + 2 C_5 R_5 g_m s^2 + 2 C_$$

10.552 INVALID-ORDER-552
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5\right)}{2 C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_4 R_5 g_m s^3 + 2 C_3 L_5 R_3 R_4 g_m s^3 + 2 C_3 L_3 L_5 R_5 g_m s^3 + 2 C_3 L_3 R_5 g_m s^3 + 2 C_3 L_5 R_3 R_4 g_m s^3 + 2 C_3 L_5 R_3 R_5 g_m s^3 + 2 C_3 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 g$$

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10.553 INVALID-ORDER-553 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R_4 (C_3L_3s^2 + C_3R_3s + 1) (C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1)
H(s) = \frac{R_4 \left( C_3 L_3 s^2 + C_3 R_3 s + 1 \right) \left( C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1 \right)}{2 C_3 C_5 L_3 L_5 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_4 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 L_5 R_4 g_m s^3 + 2 C_3 L_5 R_5 g_m 
10.554 INVALID-ORDER-554 Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R_4 \left( C_3 L_3 s^2 + C_3 R_3 s + 1 \right) \left( -C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - C_5 R_5 s^2 + C_5 R_5 r_5 + C_5 R_5 r_5 + C_5 R_5 
H(s) = -\frac{1}{2C_3C_5L_3L_5R_4g_ms^4 + 2C_3C_5L_3L_5R_5g_ms^4 + 2C_3C_5L_3R_4g_ms^3 + 2C_3C_5L_3R_4g_ms^3 + 2C_3C_5L_5R_3R_4g_ms^3 + 2C_3C_5L_5R_3R_4g_ms^3 + 2C_3C_5L_5R_3R_4g_ms^3 + 2C_3C_5L_5R_3R_4g_ms^3 + 2C_3C_5L_5R_4R_5g_ms^3 + 2C_3C_5L_3R_4g_ms^3 + 2C_3C_5L_3R_4g_ms^3 + 2C_3C_5L_5R_3R_4g_ms^3 + 2C_3C_5L_5R_4g_ms^3 + 2C_3C_5L_5R_5g_ms^3 + 2C_5C_5L_5R_5g_ms^3 + 2C_5C_5L_5R_5g_ms^3 + 2C_5C_5L_5R_5g_ms^3 + 2C_5C
10.555 INVALID-ORDER-555 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_4 s}, \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)}{2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3s^3 + 2C_3C_4R_3R_5g_ms^2 + 2C_3C_4R_3s^2 + 2C_3L_3g_ms^2 + 2C_3R_3g_ms + C_3R_5g_ms + C_3s + 2C_4R_5g_ms + 2C_4s + 2g_ms^2}
10.556 INVALID-ORDER-556 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                          H(s) = -\frac{\left(C_5 s - g_m\right)\left(C_3 L_3 s^2 + C_3 R_3 s + 1\right)}{s\left(2 C_3 C_4 C_5 L_3 s^3 + 2 C_3 C_4 C_5 R_3 s^2 + 2 C_3 C_4 L_3 g_m s^2 + 2 C_3 C_4 R_3 g_m s + 2 C_3 C_5 L_3 g_m s^2 + 2 C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 g_m + 2 C_4 C_5 s + 2 C_4 g_m + 2 C_5 g_m\right)}
10.557 INVALID-ORDER-557 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = -\frac{\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{2C_3C_4C_5L_3R_5s^4 + 2C_3C_4C_5R_3R_5s^3 + 2C_3C_4L_3s^3 + 2C_3C_4R_3s^2 + 2C_3C_4R_3s^2 + 2C_3C_5R_3R_5g_ms^2 + 2C_3C_5R_3g_ms^2 + 2C_3C
10.558 INVALID-ORDER-558 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                    H(s) = \frac{\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4C_5L_3s^3 + 2C_3C_4C_5R_3g_ms^2 + 2C_3C_4L_3g_ms^2 + 2C_3C_4R_3g_ms + 2C_3C_5L_3g_ms + C_3C_5R_5g_ms + C_3C_5R_5g_ms + 2C_4C_5R_5g_ms + 2C_4C_
10.559 INVALID-ORDER-559 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                H(s) = \frac{\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4C_5L_3s^3 + 2C_3C_4C_5L_5g_ms^3 + 2C_3C_4C_5R_3s^2 + 2C_3C_4L_3g_ms^2 + 2C_3C_5L_3g_ms^2 + 2C_3C_5L_3g_ms^2 + 2C_3C_5R_3g_ms + C_3C_5s + C_3g_m + 2C_4C_5L_5g_ms^2 + 2C_4C_5s + 2C_4g_m + 2C_5g_m\right)}
10.560 INVALID-ORDER-560 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                \frac{\left(C_{3}L_{3}s^{2}+C_{3}R_{3}s+1\right)\left(C_{5}L_{5}s^{2}-L_{5}g_{m}s+1\right)}{2C_{3}C_{4}C_{5}L_{3}L_{5}s^{5}+2C_{3}C_{4}C_{5}L_{5}R_{3}s^{4}+2C_{3}C_{4}L_{3}L_{5}g_{m}s^{4}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}R_{3}g_{m}s^{3}+2C_{3}C_{4}L_{5}g_{m}s^{2}+2C_{3}C_{5}L_{5}g_{m}s^{2}+2C_{3}L_{5}g_{m}s^{2}+2C_{3}L_{5}g_{m}s^{2}+2C_{4}L_{5}g_{m}s^{2}+2C_{4}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+2C_{5}L_{5}g_{m}s^{2}+
10.561 INVALID-ORDER-561 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
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 $H(s) = \frac{\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4C_5L_3g_ms^3 + 2C_3C_4C_5L_3g_ms^3 + 2C_3C_4C_5R_3g_ms^3 + 2C_3C_4C_5R_3g_ms^2 + 2C_3C_4L_3g_ms^2 + 2C_3C_4L_3g_ms^2 + 2C_3C_5L_3g_ms^2 + 2C_3C$

 $(C_3L_3s^2 + C_3R_3s + 1)(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m)$

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 10.562 \quad \text{INVALID-ORDER-562} \  \  Z(s) = \left( \infty, \ \infty, \ I_{3}s + R_{3} + \frac{1}{C_{3}s}, \ \frac{1}{C_{4}s}, \ \frac{LR_{8}s}{C_{4}s_{1}R_{5}s_{2}+L_{5}s_{2}+R_{5}}, \ \infty \right) 
 (C_{3}I_{3}s^{2} + C_{3}R_{3}s + 1) \left( C_{2}I_{3}R_{5}s^{2} + L_{5}R_{5}g_{m}s^{2} + L_{5}R_{5}g_{m}s^{2} + L_{5}L_{5}R_{5}g_{m}s^{2} + L_{5}L_{5}R_{5}g_{m}s^{2} + L_{5}R_{5}g_{m}s^{2} + L_{5}R_{5}
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10.566 INVALID-ORDER-566
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right)}{2 C_3 C_4 C_5 L_3 R_4 s^4 + 2 C_3 C_4 C_5 R_3 R_4 s^3 + 2 C_3 C_4 L_3 R_4 g_m s^3 + 2 C_3 C_4 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 C_5 R_3 R_4 g_m s^2 + 2 C_3 R_3 g_m s + C_3 R_4 g_m s + 2 C_4 R_4 g_m s + 2 C_5 R_4 g_m s^2 + 2 C_5 R_5 g_m s^2 + 2 C_5$$

10.567 INVALID-ORDER-567
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = -\frac{R_4 \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{2 C_3 C_4 C_5 L_3 R_4 R_5 s^4 + 2 C_3 C_4 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_4 L_3 R_4 R_5 g_m s^2 + 2 C_3 C_4 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 R_3 R_4 R_5 g_m s^2 + 2 C_3 C_5 R_3 R_4 R_5 g_m s^2 + 2 C_3 C_5 R_3 R_4 R_5 g_m s^2 + 2 C_3 L_3 R_4 g_m s^2 + 2 C_3 L_3$$

10.568 INVALID-ORDER-568
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 \left(C_3 L_3 s^2 + C_3 R_3 s + 1 \right) \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_3 C_4 C_5 L_3 R_4 R_5 g_m s^4 + 2 C_3 C_4 C_5 R_3 R_4 F_3 g_m s^3 + 2 C_3 C_4 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 R_5 R_5 g_m s^3 + 2 C_3 C_5 R_5 R_5 g_m s^3 + 2 C_5 R_5 R_5 g_m s^3 + 2$$

10.569 INVALID-ORDER-569
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

10.570 INVALID-ORDER-570
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

10.571 INVALID-ORDER-571 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

10.572 INVALID-ORDER-572 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

10.573 INVALID-ORDER-573 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

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

10.574 INVALID-ORDER-574 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $\overline{2C_{3}C_{4}C_{5}L_{3}L_{5}R_{4}R_{5}g_{m}s^{5} + 2C_{3}C_{4}C_{5}L_{3}L_{5}R_{4}s^{5} + 2C_{3}C_{4}C_{5}L_{3}R_{4}R_{5}s^{4} + 2C_{3}C_{4}C_{5}L_{5}R_{3}R_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}C_{5}L_{3}R_{4}R_{5}s^{3} + 2C_{3}C_{4}L_{3}R_{4}s^{3} + 2C_{3}C_{4}L_{3}R_{4}s^{5} +$

10.575 INVALID-ORDER-575 $Z(s) = \left(\infty, \ \infty, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ R_5, \ \infty\right)$

 $H(s) = \frac{\left(R_5 g_m - 1\right) \left(C_4 R_4 s + 1\right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right)}{2 C_3 C_4 L_3 R_5 q_m s^3 + 2 C_3 C_4 L_3 s^3 + 2 C_3 C_4 R_3 R_4 q_m s^2 + 2 C_3 C_4 R_3 s^2 + 2 C_3 C_4 R_3 s^2 + C_3 C_4 R_4 s^2 + 2 C_3 L_3 q_m s^2 + 2 C_3 R_3 q_m s + C_3 R_5 q_m s + C_3 s + 2 C_4 R_4 q_m s + 2 C_4 R_5 q_m s + 2 C_4 s + 2 q_m r^2 + 2 C_4 R_5 q_m s^2 + 2 C_3 R_5 q_m s^2 + 2 C_3 R_5 q_m s^2 + 2 C_3 R_5 q_m s + 2 C_4 R_5 q_m s + 2 C_$

10.576 INVALID-ORDER-576 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

10.577 INVALID-ORDER-577 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $(C_4R_4s+1)(C_3L_3s^2+C_3R_3s+1)(C_5R_5s-R_5g_m+1)$ $\frac{-\frac{1}{2C_3C_4C_5L_3R_4R_5g_ms^4+2C_3C_4C_5L_3R_5s^4+2C_3C_4C_5R_3R_4R_5g_ms^3+2C_3C_4C_5R_3R_4S_5g_ms^3+2C_3C_4L_3R_4g_ms^3+2C_3C_4L_3R_5g_ms^3+2C_3C_4R_3R_5g_ms^3+2C_3C_4R_5g_ms^3+2C_3C_4$

10.578 INVALID-ORDER-578 $Z(s) = \left(\infty, \ \infty, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

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

10.579 INVALID-ORDER-579 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $(C_4R_4s+1)(C_3L_3s^2+C_3R_3s+1)(C_5L_5g_ms^2-C_5s+g_m)$ $H(s) = \frac{(24.45 + 2)(3.335 + 3.335 + 2)(3.335 + 2)(3.335 + 2)(3.335 + 2)(3.335 + 2)(3.335 + 2)(3.335 + 2)($

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10.580 INVALID-ORDER-580 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
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 $H(s) = -\frac{\left(C_4R_4s + 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{2C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_5R_3s^4 + 2C_3C_4L_3L_5g_ms^4 + 2C_3C_4L_3R_4g_ms^3 + 2C_3C_4L_5R_3g_ms^3 + 2C_3C_4L_5R_3g_ms^3 + 2C_3C_4L_5R_3g_ms^3 + 2C_3C_4L_3R_4g_ms^3 + 2C_3C_4R_3R_4g_ms^3 +$

10.581 INVALID-ORDER-581 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_5g_ms^4 + 2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4C_5R_3R_4g_ms^3 + 2C_3C_4C_5R_3R_5g_ms^2 + 2C_3C_4C_5R_5g_ms^2 + 2C_$

10.582 INVALID-ORDER-582 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_5s^5 + 2C_3C_4C_5L_5R_3R_4R_5g_ms^4 + 2C_3C_4L_5L_5R_4R_5s^4 + 2C_3C_4L_3L_5R_5g_ms^4 + 2C_3C_4L_3L_5S^4 + 2C_3C_4L_3L_5S^4 + 2C_3C_4L_3R_5s^3 + 2C_3C_4L_3R_5s^3 + 2C_3C_4L_3R_5s^3 + 2C_3C_4L_5R_3R_4g_ms^3 + 2C_3C_4L_5R_3R_4g_ms^3 + 2C_3C_4L_3L_5R_5g_ms^4 + 2C_3C_4L_3L_5R_5g_ms^4 + 2C_3C_4L_3R_5s^3 + 2C_3C_4L$

10.583 INVALID-ORDER-583 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_5g_ms^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_5R_3R_4g_ms^4 + 2C_3C_4C_5L_5R_3R_5g_ms^4 + 2C_3C_4C_5L_5R_4S_4s^4 + 2C_3C_4L_3L_5g_ms^4 + 2C_3C_4L_3R_4g_ms^3 + 2C_3C_4L_3R_5g_ms^4 + 2C_$

10.584 INVALID-ORDER-584 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, R_4 + \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_4q_ms^5 + 2C_3C_4C_5L_3L_5R_5q_ms^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_3R_4R_5q_ms^4 + 2C_3C_4C_5L_3R_5s^4 + 2C_3C_4C_5L_5R_3R_4q_ms^4 + 2C_3C_4C_5L_5R_3s^4 + 2C_3C_4C_5L_5R_3s^4 + 2C_3C_4C_5L_5R_4s^4 + 2C_3C_4C_5L_5R_4s^4 + 2C_3C_4C_5L_5R_3s^4 + 2C_3C$

10.585 INVALID-ORDER-585 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{\left(R_5g_m - 1\right)\left(C_4L_4s^2 + 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)}{2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3s^3 + 2C_3C_4L_4R_3g_ms^3 + C_3C_4L_4g_s^3 + 2C_3C_4R_3R_5g_ms^2 + 2C_3C_4R_3s^2 + 2C_3L_3g_ms^2 + 2C_3R_3g_ms + C_3s + 2C_4L_4g_ms^2 + 2C_4R_5g_ms + 2C_4s + 2g_ms^2 + 2C_3C_4R_3s^2 + 2C_3C_4R_$

10.586 INVALID-ORDER-586 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

10.587 INVALID-ORDER-587 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3R_5s^4 + 2C_3C_4C_5L_4R_3g_ms^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_4R_3g_ms^3 + 2C_3C_4L_4R_3g_ms^3$

10.588 INVALID-ORDER-588 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_4g_ms^4 + 2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4C_5L_4R_3g_ms^3 + C_3C_4C_5L_4R_5g_ms^3 + 2C_3C_4C_5L_4s^3 + 2C_3C_4C_5R_3s^2 + 2C_3C_4L_3g_ms^2 + 2C_3C_4L_3g_ms^2$

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10.589 INVALID-ORDER-589 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
```

$$H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{s\left(2C_3C_4C_5L_3L_4g_ms^4 + 2C_3C_4C_5L_3s^3 + C_3C_4C_5L_4R_3g_ms^3 + C_3C_4C_5L_4s^3 + 2C_3C_4C_5L_3s^3 + 2C_3C_4C_5L_3g_ms^2 + 2C_3C_4L_3g_ms^2 + 2C_3C_$$

10.590 INVALID-ORDER-590
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_4L_5s^5 + 2C_3C_4C_5L_4L_5s^5 + 2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_3L_5g_ms^4 + 2C_3C_4L_4s^3 + 2C_3C_4L_4s^3 + 2C_3C_4L_4s^3 + 2C_3C_4L_5R_3g_ms^3 + 2C_3C_4L_5R_3g_$$

10.591 INVALID-ORDER-591
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{\left(C_4 L_4 s^2 + 1\right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{s \left(2 C_3 C_4 C_5 L_3 L_4 g_m s^4 + 2 C_3 C_4 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_4 C_5 L_4 R_5 g_m s^3 + 2 C_3 C_4 C_5 L_5 R_5 g_m s^3 + 2 C_3 C_4 C_5 L_5 R_5 g_m s^3 + 2 C_3 C_4 C_5 L_5 R_5 g_m s^3 + 2 C_3 C_4 C_5 L_5 R_5 g_m s^3 + 2 C_5 C_5 R_5 g_$$

10.592 INVALID-ORDER-592
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_3L_5R_5s^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4L_3L_4R_5g_ms^5 + 2C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_3L_5R_5g_ms^4 + 2C_3C_4L_3L_5R_5s^5 + 2C_3C_4L_5L_5R_5s^5 +$$

10.593 INVALID-ORDER-593
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

$$H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_5g_ms^5 + 2C_3C_4C_5L_4L_5g_ms^5 + 2C_3C_4C_5L_5g_ms^5 + 2C_3C_4C_5L_5g_ms^5 + 2C_3C_4C_5L_5g_ms^5 + 2C_3C_4C_5L_5g_ms^5 + 2C_3C_4C_5L_5g_ms^5 + 2C_3C_4C_5L_5g_ms^5$$

10.594 INVALID-ORDER-594
$$Z(s) = \left(\infty, \ \infty, \ L_3s + R_3 + \frac{1}{C_3s}, \ L_4s + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

$$H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + C_3C_4C_5L_4L_5s^5 + 2C_3C_4C_5L_4L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_5L_5s^5 + 2C_3C_4C_5L_$$

10.595 INVALID-ORDER-595
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

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

10.596 INVALID-ORDER-596
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$$

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

10.597 INVALID-ORDER-597
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = -\frac{L_4s\left(C_3L_3s + C_3L_3s + C_3L_3s$$

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10.598 INVALID-ORDER-598 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
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 $H(s) = \frac{L_{4}s\left(C_{3}L_{3}s^{2} + C_{3}R_{3}s + 1\right)\left(C_{5}R_{5}g_{m}s - C_{5}s + g_{m}\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}R_{5}g_{m}s^{5} + 2C_{3}C_{4}L_{5}L_{4}R_{3}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}R_{5}g_{m}s^{3} + 2C_{3}C_{5}L_{4}R_{3}g_{m}s^{3} + 2C_{3}C_{5}L_{4}R_{3}g_{m}s^{3} + 2C_{3}C_{5}L_{4}R_{3}g_{m}s^{3} + 2C_{3}C_{5}L_{4}R_{5}g_{m}s^{3} + 2C_{3}C_{5}L_{4}R_{5}g_{m}s^{$

10.599 INVALID-ORDER-599 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

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

10.600 INVALID-ORDER-600 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

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

10.601 INVALID-ORDER-601 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_{4}s\left(C_{3}L_{3}s^{2} + C_{3}R_{3}s + L_{5}R_{3}s^{6} + 2C_{3}C_{4}C_{5}L_{3}L_{4}R_{5}g_{m}s^{5} + 2C_{3}C_{4}C_{5}L_{4}L_{5}R_{3}g_{m}s^{5} + 2C_{3}C_{4}C_{5}L_{4}R_{3}g_{m}s^{4} + 2C_{3}C_{4}L_{5}L_{4}R_{3}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{3}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{5}g_{m}s^{4} + 2C_{3}C_{5}L_{5}L_{5}g_{m}s^{5} + 2C_{3}C_{5}L_{5}g_{m}s^{5} + 2C_{3}C_{5}L_{5}g_{m}s^{5}$

10.602 INVALID-ORDER-602 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_5s^6 + 2C_3C_4C_5L_4L_5R_3R_5s^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_3L_4L_5s^5 + 2C_3C_4L_3L_4L_5s^5 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4L_5R_3s^4 + 2C_3C_4L_5L_5R_3s^4 + 2C_3C_4L$

10.603 INVALID-ORDER-603 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + 2C_3C_4L_3L_4L_5g_ms^5 + 2C_3C_4L_4L_5R_3g_ms^4 + 2C_3C_4L_4L_5R_3g_ms^3 + 2C_3C_4L_4R_3s^3 + 2C_3C_4L_4L_5g_ms^5 + 2C_3C_4L_3L_4L_5g_ms^5 + 2C_3C_4L_4L_5g_ms^5 + 2C_3C_4L_5L_5g_ms^5 + 2C_3C_4L_$

10.604 INVALID-ORDER-604 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_4R_5s^5 + 2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_3L_4R_5g_ms^3 + 2C_3C_4L_4R_3s^3 + 2C_3C_4L$

10.605 INVALID-ORDER-605 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)}{2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4L_3s^3 + 2C_3C_4L_4R_3g_ms^3 + C_3C_4L_4s^3 + 2C_3C_4R_3R_4g_ms^2 + 2C_3C_4R_3s^2 + 2C_3C_4R_3s^2 + 2C_3C_4R_4s^2 + 2C_3L_3g_ms^2 + 2C_3R_3g_ms + C_3R_5g_ms + C_3R_5g_ms + C_3R_5g_ms^2 + 2C_3C_4R_3s^2 +$

10.606 INVALID-ORDER-606 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

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10.607 INVALID-ORDER-607 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
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 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3R_4R_5g_ms^4 + 2C_3C_4C_5L_3R_5s^4 + 2C_3C_4C_5L_4R_3s^4 + 2C_3C_4C_5R_3R_4R_5g_ms^3 + 2C_3C_4C_5R_3R_4s^3 + 2C_3C_4C_5R_3R_5s^3 + 2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_3R_4g_ms^3 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4C$

10.608 INVALID-ORDER-608
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{\left(C_3L_3s^2 + C_3R_3s + 1\right)\left(C_4L_4s^2 + C_4R_4s + 1\right)\left(C_5R_5g_ms - C_5s + g_ms + 2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4C_5L_3R_5g_ms^3 + 2C_3C_4C_5L_4R_5g_ms^3 + 2C_3C_4C_5L_4R_5g_ms^3 + 2C_3C_4C_5R_3R_4g_ms^2 + 2C_3C_4C_5R_3R_5g_ms^2 + 2C_3C_4C_5R_5R_5g_ms^2 + 2C_3C_4C_5R_5g_ms^2 +$

10.609 INVALID-ORDER-609
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

10.610 INVALID-ORDER-610
$$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3L_5s^5 + 2C_3C_4C_5L_4L_5s^5 + 2C_3C_4C_5L_5R_3R_4g_ms^4 + 2C_3C_4C_5L_5R_3s^4 + 2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_3L_5g_ms^4 + 2C_3C_4L_5L_5g_ms^4 + 2C_3C_4L_5L$

10.611 INVALID-ORDER-611
$$Z(s) = \left(\infty, \ \infty, \ L_3s + R_3 + \frac{1}{C_3s}, \ L_4s + R_4 + \frac{1}{C_4s}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right)$$

 $H(s) = \frac{(C_3L_3s^5 + C_3I_4)}{s(2C_3C_4C_5L_3L_4g_ms^4 + 2C_3C_4C_5L_3I_5g_ms^4 + 2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_4C_5L_3s^3 + 2C_3C_4C_5L_4R_3g_ms^3 + 2C_3C_4C_5L_3R_3g_ms^3 + 2C_3C_4C_5L_3R_3g$

10.612 INVALID-ORDER-612
$$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_3L_5R_4R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_5R_3R_4R_5g_ms^4 + 2C_3C_4C_5L_5R_3R_5s^4 + 2C_3C_4C_5L_5R_5s^5 + 2C_3C_4C_5L_5R_3R_5s^4 + 2C_3C_4C_5L_5R_3R_5s^4 + 2C_3C_4C_5L_5R_5s^5 + 2C_3C_4C_5L_$

10.613 INVALID-ORDER-613
$$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2 + 1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + C_3C_4C_5L_4L_5R_3g_ms^5 + C_3C_4C_5L_5R_3R_3g_ms^5 + C_3C_4C_5L_5R_3g_ms^5 + C_3C_4C_5L_5R_3g_ms^5 + C_3C_4C_5$

10.614 INVALID-ORDER-614
$$Z(s) = \left(\infty, \ \infty, \ L_3s + R_3 + \frac{1}{C_3s}, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

10.615 INVALID-ORDER-615
$$Z(s) = \left(\infty, \ \infty, \ L_3s + R_3 + \frac{1}{C_3s}, \ \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \ R_5, \ \infty\right)$$

 $H(s) = \frac{L_4 R_4 s \left(R_5 g_m - 1\right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right)}{2 C_3 C_4 L_3 L_4 R_4 s^4 + 2 C_3 C_4 L_4 R_3 R_4 s^3 + 2 C_3 L_4 L_4 R_3 s^3 + 2 C_3 L_4 L_4 R_5 g_m s^3 + 2 C_3 L_4 R_3 s^2 + 2 C_3 L_4 R_3 R_4 g_m s^2 + 2 C_3 L_4 R_3 R_5 g_m s^2 + 2 C_3 L_4 R_$

- 10.616 INVALID-ORDER-616 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$
- $H(s) = -\frac{L_4 R_4 s \left(C_5 s g_m\right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right)}{2 C_3 C_4 C_5 L_4 R_4 s^5 + 2 C_3 C_4 L_5 L_4 R_3 R_4 s^4 + 2 C_3 C_4 L_4 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 L_4 s^4 + 2 C_3 C_5 L_4 R_3 s^3 + 2 C_5 L_4 R_5 r_5 + 2 C_5 L_5 L_5 R_5 r_5 + 2 C_5 L$
- 10.617 INVALID-ORDER-617 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_4R_5s^5 + 2C_3C_4C_5L_4R_3R_4R_5s^4 + 2C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3L_4R_3s^4 + 2C_3C_4L_4R_3R_4s^3 + 2C_3C_5L_3L_4R_5s^4 + 2C_3C_5L_3L_4R_5s^4 + 2C_3C_5L_3R_4R_5s^3 + 2C_3C_5L_4R_3R_4R_5s^3 + 2C_3C_5L_4R_3R_4s^3 + 2C_3C_5L_4R_3R$
- **10.618** INVALID-ORDER-618 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$
- 10.619 INVALID-ORDER-619 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_4s^5 + 2C_3C_4C_5L_4L_5R_3R_4g_ms^5 + 2C_3C_4L_4R_3R_4g_ms^4 + 2C_3C_4L_4R_3R_4g_ms^3 + 2C_3C_5L_3L_4R_4g_ms^4 + 2C_3C_5L_4R_4g_ms^4 + 2C_3C_5L_4R_4g_ms^4 + 2C_3C_5L_4R_4g_ms^4 + 2C_3$
- 10.620 INVALID-ORDER-620 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$
- 10.621 INVALID-ORDER-621 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_4L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^4 + 2C_3C_4L_5L_4R_3R_4g_ms^4 + 2C_3C_4L_4R_3R_4g_ms^4 + 2C_3C_4L_4R_4g_ms^4 + 2C_3C_4L_4R_4g_ms^$
- 10.622 INVALID-ORDER-622 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_4R_5s^6 + 2C_3C_4C_5L_4L_5R_3R_4R_5s^5 + 2C_3C_4L_3L_4L_5R_4s^5 + 2C_3C_4L_3L_4L_5R_4s^5 + 2C_3C_4L_4L_5R_3R_4R_5s^4 + 2C_3C_4L_4L_5R_3R_4s^4 + 2C_3C_4L_4L_5R_3R_4s^4 + 2C_3C_4L_4L_5R_3R_4s^5 + 2C_3C_5L_3L_4L_5R_4s^5 + 2C_3C_5L_3L_4L_5R_4s^5 + 2C_3C_4L_4L_5R_3R_4s^5 + 2C_3C_4L_4L_5R_4s^5 + 2C_3C_4L_5L_5R_5s^5 + 2C_3C_4L_5L_5R_5s^5 + 2C_3C_4L_5L_5R_5s^5 + 2C_3C_4L_5L_5R_5s^5 + 2C_3C_4L_5L_5R_5s^5 + 2C_3C_$
- 10.623 INVALID-ORDER-623 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_4R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_4s^6 + 2C_3C_4C_5L_4L_5R_3R_4R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_4g_ms^5 + 2C_3C_4L_3L_4R_4g_ms^5 + 2C_3C_4L_3L_4R_4g_ms^5 + 2C_3C_4L_3L_4R_4g_ms^5 + 2C_3C_4L_4R_3R_4g_ms^5 + 2C_3C_4L_4R_4g_ms^5 + 2C_3C_4L_4R_4g_ms$
- 10.624 INVALID-ORDER-624 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_4R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_4s^6 + 2C_3C_4C_5L_4L_5R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3R_4s^5 + 2C_3C_4C_5L_4L_5R_3R_4s^5 + 2C_3C_4C_5L_4L_5R_3R_4s^5 + 2C_3C_4C_5L_4L_5R_3R_4s^5 + 2C_3C_4L_3L_4R_4R_5g_ms^4 + 2C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_4R_3R_4s^5 + 2C_3C_4L_4R_3R_4s^5 + 2C_3C_4L_3L_4R_4s^5 + 2C_3C_4L_4R_3R_4s^5 + 2C_3C_4L_4R_3$

- 10.625 INVALID-ORDER-625 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)$
- $H(s) = \frac{\left(R_{5}g_{m} 1\right)\left(C_{3}L_{3}s^{2} + C_{3}R_{3}s + 1\right)\left(C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}\right)}{2C_{3}C_{4}L_{3}L_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{4}L_{3}L_{4}S_{5}g_{m}s^{3} + 2C_{3}C_{4}L_{4}R_{3}S_{9}ms^{3} + 2C_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{3}L_{4}R_{5}g_{m}s^{2} + 2C_{3}L_{3}S_{2}g_{m}s^{2} + 2C_{3}L_{3}S_{2}g_{m}s^{2} + 2C_{3}L_{4}S_{2}g_{m}s^{2} + 2C_{3}L_{4}S_{2}g_{m}s^{2}$
- 10.626 INVALID-ORDER-626 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)$
- $H(s) = -\frac{\left(C_{5}s g_{m}\right)\left(C_{3}L_{3}s^{2} + C_{3}R_{3}s + 1\right)\left(C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}R_{4}g_{m}s^{5} + 2C_{3}C_{4}L_{5}L_{4}R_{3}g_{m}s^{4} + 2C_{3}C_{4}L_{4}R_{3}g_{m}s^{3} + 2C_{3}C_{5}L_{3}R_{4}g_{m}s^{3} + 2C_{3}C_{5}L_{3}s^{3} + 2C_{3}C_{5}L_{4}R_{3}g_{m}s^{3} + 2C_{3}C_{5}L_{4}R_{5}g_{m}s^{3} + 2C_{3}C_{5}L_{5}R_{5}g_{m}s^{3} + 2C_{3}C_{5}L_{5}R_{5}g_{m}s^{3} + 2C_{3}C_{5}L_{5}R_{5}g_{m}s^{3} + 2C_{3}C_{5}L_{5}R_{5}g_{m}s^{3} + 2C_{3}C_{5}L_{5}R_{5}g_{m}s$
- 10.627 INVALID-ORDER-627 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_4S_5g_ms^5 + 2C_3C_4C_5L_3L_4R_5s^5 + 2C_3C_4C_5L_4R_3R_4S_5g_ms^4 + 2C_3C_4L_5L_4R_3S_4s^4 + 2C_3C_4L_3L_4S_5g_ms^4 + 2C_3C_4L_4S_5g_ms^4 + 2C_3C_4C_5L_4S_5g_ms^4 + 2C_3C_4C_5L_4S_5g_ms^4 + 2C_3C_4C_5L_4S_5g_ms^4 + 2C_3C_4C_5L_4S_5g_ms^4 + 2C_3C_4C_5L_4S_5g_ms^4 + 2C_3C_4C_5L_4S_5g_ms^4 + 2C_3C_4C_5L_4S_$
- 10.628 INVALID-ORDER-628 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^4 + 2C_3C_4C_5L_4R_3R_5g_ms^4 + 2C_3C_4C_5L_4R_3s^4 + 2C_3C_4C_5L_4R_4s^4 + 2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_4R_3g_ms^3 + 2C_3C_4L_4R_3g_ms^3 + 2C_3C_4L_4R_3g_ms^4 + 2C_3C_$
- **10.629** INVALID-ORDER-629 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{L_4s}{C_4L_4s^2 + 1} + R_4, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^4 + 2C_3C_4C_5L_4R_3s^4 + 2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_4R_3g_ms^3 +$
- **10.630** INVALID-ORDER-630 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_4L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4L_3L_4L_5g_ms^5 + 2C_3C_4L_3L_4g_ms^5 + 2C_3C_4L_4g_ms^5 + 2C_3C_4$
- **10.631** INVALID-ORDER-631 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_4R_5g_ms^5 + 2C_3C_4C_5L_4R_5g_m$
- **10.632** INVALID-ORDER-632 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{L_4s}{C_4L_4s^2 + 1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_4R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_5s^6 + 2C_3C_4C_5L_4L_5R_3R_4R_5g_ms^5 + 2C_3C_4L_5L_4L_5R_3R_5s^5 + 2C_3C_4L_3L_4L_5R_4g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4C_5L_5L_5R_5g_ms^5 + 2C_3C_4C_5L_5L_5R_5g_ms$
- **10.633** INVALID-ORDER-633 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_4L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + 2C_3C_4C_5L_5L_5R_3g_ms^5 + 2C_3C_4C_5L_5L_5R_3g_ms^5 + 2C_3C_4C_5L_5L_5R_3g_ms^5 + 2C_3C_4C_5L_5L_5R_3g_ms^5 + 2$

- 10.634 INVALID-ORDER-634 $Z(s) = \left(\infty, \ \infty, \ L_3s + R_3 + \frac{1}{C_3s}, \ \frac{L_4s}{C_4L_4s^2+1} + R_4, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$
- 10.635 INVALID-ORDER-635 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$
- 10.636 INVALID-ORDER-636 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$
- $H(s) = -\frac{R_4 \left(C_5 s g_m\right) \left(C_4 L_4 s^2 + 1\right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right) \left(C_3 L_3 s^2 + C_3 R_3 s + 1\right) \left(C_3 L_3 s^2 + C_3 R_4 s^3 + 2C_3 C_4 C_5 L_3 L_4 R_4 g_m s^5 + 2C_3 C_4 C_5 L_3 R_4 s^4 + 2C_3 C_4 C_5 L_4 R_3 s^4 + 2C_3 C_4 C_5 L_4 R_3 s^4 + 2C_3 C_4 C_5 L_4 R_3 s^4 + 2C_3 C_4 C_5 L_4 R_4 s^4 + 2C_3 C_4 C_5 L_4 R_5 s^4 + 2C_3 C_4 C_5 L_5 R_5 s^4 + 2C_3 C_5 L_5 R_5 s^4 + 2C_3 C_5 L_5 R_5 s^4 + 2C_5 C_5 L_5 R_5 s^4 +$
- 10.637 INVALID-ORDER-637 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_5s^5 + 2C_3C_4C_5L_3R_4R_5s^4 + 2C_3C_4C_5L_4R_3R_4s^5 + 2C_3C_4C_5L_4R_3R_4s^5 + 2C_3C_4C_5L_4R_3R_4s^5 + 2C_3C_4C_5L_4R_3R_4s^5 + 2C_3C_4C_5L_4R_4R_5s^4 + 2C_3C_4C_5L_4R_4R_5s^4 + 2C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_5L_3L_4R_5g_ms^4 + 2C_3C_4L_5L_3L_4R_5g_ms^4 + 2C_3C_4L_5L_5L_5L_5L_5L_5L_5L_5L_5L_5L_5L_5L$
- 10.638 INVALID-ORDER-638 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4s^5 + 2C_3C_4C_5L_3R_4s^6 + 2C_3C_4C_5L_3R_4s^4 + 2C_3C_4C_5L_4R_3R_4g_ms^4 + 2C_3C_4C_5L_4R_3s^4 + 2C_3C_4C_5L_$
- **10.639** INVALID-ORDER-639 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_5L_3L_4s^5 + 2C_3C_4C_5L_3L_4s^5 + 2C_3C_4C_5L_4L_5R_3g_ms^5 + 2C_3C_4C_5L_4L_5R_4g_ms^5 + 2C_3C_4C_5L_4R_3s^4 + 2C_3C_$
- 10.640 INVALID-ORDER-640 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_5R_4s^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4C_5L_4L_5R_3s^5 + 2C_3C_4L_3L_4L_5g_ms^5 + 2C_3C_4L_3L_5g_ms^5 + 2C_3C_4L_5L_5g_ms^5 +$
- 10.641 INVALID-ORDER-641 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- 10.642 INVALID-ORDER-642 $Z(s) = \left(\infty, \ \infty, \ L_3s + R_3 + \frac{1}{C_3s}, \ \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \ \infty\right)$

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10.643 INVALID-ORDER-643 Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
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10.644 INVALID-ORDER-644
$$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_5s^5 + 2C_3C_4C_5L_3L_5R_4s^5 + 2C_3C_4C_5L_3L_5R_4s^5 + 2C_3C_4C_5L_3L_4R_5s^5 + 2C_3C_4C_5L_3L_5R_5s^5 + 2C_3C_4C_5L_5L_5R_5s^5 + 2C_3C_4C_5L_5L_5R_5s^5 + 2C_3C_4C_5L_5L_5R_5s^5 + 2C_3C_4C_5L_5L_5R_5s^5 + 2C_3C_4C_5L_5L_5R_5s^5 + 2C_3C_4C_5L_5L_5R_5s^5 + 2C_3C_4C_5L_5R_5s^5 + 2C_3C_4C_5L_5R_5s^5 + 2C_3C_5C_5L_5R_5s^5 + 2C_3C_5C_5L_5R_5s^5 + 2C_3C_5C_5L_5R_5s^5 + 2C_3C_$

10.645 INVALID-ORDER-645 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_3 R_3 R_4 s \left(-C_5 s + g_m\right)}{C_3 C_5 L_3 R_3 R_4 s^3 + C_3 L_3 R_3 R_4 g_m s^2 + 2 C_5 L_3 R_3 R_4 g_m s^2 + 2 C_5 L_3 R_3 s^2 + C_5 L_3 R_4 s^2 + C_5 R_3 R_4 s + 2 L_3 R_3 g_m s + L_3 R_4 g_m s + R_3 R_4 g_m s^2 + 2 C_5 L_3 R_3 r_4 s^2 + C_5 R_3 r_5 r_5 + C_5 R_5 R_5 r_5$$

10.646 INVALID-ORDER-646 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{L_3 R_3 R_4 s \left(-C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 L_3 R_3 R_4 R_5 s^3 + C_3 L_3 R_3 R_4 R_5 g_m s^2 + C_5 L_3 R_3 R_4 R_5 g_m s^2 + 2 C_5 L_3 R_3 R_4 R_5 s^2 + C_5 L_3 R_4 R_5 s^2 + C_5 L_3 R_4 R_5 s^2 + 2 L_3 R_3 R_4 g_m s + 2 L_3 R_3 R_5 g_m s + L_3 R_4 R_5 g_m s + L_3 R$$

10.647 INVALID-ORDER-647 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ R_4, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

$$H(s) = \frac{L_3 R_3 R_4 s \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_3 R_3 R_4 R_5 g_m s^3 + C_3 C_5 L_3 R_3 R_4 s^3 + C_3 L_3 R_3 R_4 g_m s^2 + 2 C_5 L_3 R_3 R_4 g_m s^2 + 2 C_5 L_3 R_3 R_5 g_m s^2 + 2 C_5 L_3 R_4 R_5 g_m s^2 + C_5 L_3 R_4 R_5 g_m s + C_5 R_3 R_4 R_5 g_m s + C_5 R_3 R_4 s + 2 L_3 R_3 g_m s + L_3 R_4 g_m s + R_3 R_4 g_m s^2 + 2 C_5 L_3 R_5 g_m s^2 + 2 C_5 L_5 g_m s^2$$

10.648 INVALID-ORDER-648 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_{3s}^2 + L_3 s + R_3}, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

10.649 INVALID-ORDER-649 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

10.650 INVALID-ORDER-650 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_3 R_3 R_4 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_3 L_5 R_3 R_4 g_m s^4 + C_3 C_5 L_3 R_3 R_4 R_5 g_m s^3 + C_3 C_5 L_3 R_3 R_4 g_m s^2 + 2 C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_3 L_5 R_3 g_m s^3 + 2 C_5 L_3 R_3 R_4 g_m s^2 + 2 C_5 L_3 R_3 R_4 g_m s^2 + 2 C_5 L_3 R_3 R_4 g_m s^2 + C_5 L_3 R_4 R_5 g_m s^2 + C_5 L_3 R_5 R_5 g_m s^2 + C_5 L_5 R_5 R_5 g_m s^2 + C_5 L_5 R_5 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5$$

10.651 INVALID-ORDER-651 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3} s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{L_3 R_3 R_4 s \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5\right)}{C_3 C_5 L_3 L_5 R_3 R_4 R_5 s^4 + C_3 L_3 L_5 R_3 R_4 R_5 g_m s^3 + C_3 L_3 L_5 R_3 R_4 R_5 s^2 + 2 L_3 L_5 R_3 R_4 R_5 s^3 + C_5 L_3 L_5 R_3 R_4 R_5 s^3 + C_5 L_3 L_5 R_3 R_4 R_5 s^2 + 2 L_3 L_5 R_3 R_4 g_m s^2 + 2 L_3 L_5 R_5 g_m s^2 + 2 L_5 L$$

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10.652 INVALID-ORDER-652 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        L_3R_3R_4s\left(C_5L_5R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_m-1\right)
H(s) = \frac{L_3 R_3 R_4 s \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1\right)}{C_3 C_5 L_3 L_5 R_3 R_4 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_4 g_m s^3 + C_5 L_3 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_3 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_3 L_5 R_3 R_4 g_m s^3 + C_5 L_5 R_5 R_5 g_m s^3 + C_5 L_5 R_5 g_m s^3 + C_5 L_
10.653 INVALID-ORDER-653 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                L_3R_3R_4s\left(C_5L_5R_5g_ms^2-C_5L_5s^2-C_5R_5s+R_5g_m-1\right)
H(s) = \frac{L_{3}R_{3}R_{4}R_{5}G_{m}s^{4} + C_{3}C_{5}L_{3}R_{5}g_{m}s^{3} + C_{5}L_{3}L_{5}R_{3}R_{4}s^{4} + C_{3}C_{5}L_{3}R_{5}g_{m}s^{3} + C_{5}L_{3}L_{5}R_{3}R_{4}g_{m}s^{3} + 2C_{5}L_{3}L_{5}R_{3}R_{4}g_{m}s^{3} + 2C_{5}L_{3}L_{5}R_{3}R_{4}R_{5}g_{m}s^{3} + C_{5}L_{3}L_{5}R_{3}R_{4}R_{5}g_{m}s^{3} + C_{5}L_{3}L_{5}R_{3}R_{4}R_{5}g_{m}s^{3} + C_{5}L_{3}L_{5}R_{3}R_{4}R_{5}g_{m}s^{3} + 2C_{5}L_{3}L_{5}R_{3}R_{4}R_{5}g_{m}s^{3} + 2C_{5}L_{3}R_{3}R_{4}R_{5}g_{m}s^{3} + 2C_{5}L_
10.654 INVALID-ORDER-654 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_2 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                H(s) = \frac{L_3 R_3 s \left(-C_5 s + g_m\right)}{C_3 C_5 L_3 R_3 s^3 + C_3 L_3 R_3 g_m s^2 + 2 C_4 C_5 L_3 R_3 s^3 + 2 C_4 L_3 R_3 g_m s^2 + 2 C_5 L_3 R_3 g_m s^2 + C_5 L_3 s^2 + C_5 R_3 s + L_3 g_m s + R_3 g_m}
10.655 INVALID-ORDER-655 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                      H(s) = \frac{L_3 R_3 s \left(-C_5 R_5 s + R_5 g_m - 1\right)}{C_3 C_5 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + 2 C_4 C_5 L_3 R_3 R_5 g_m s^2 + 2 C_4 L_3 R_3 R_5 g_m s^2 + 2 C_4 L_3 R_3 R_5 g_m s^2 + C_5 L_3 R_5 g_m s^2 + C_5 L_3 R_5 g_m s + L_3
10.656 INVALID-ORDER-656 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                           10.657 INVALID-ORDER-657 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                           H(s) = \frac{L_3 R_3 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 L_3 R_3 g_m s^2 + 2 C_4 C_5 L_3 L_5 R_3 g_m s^4 + 2 C_4 C_5 L_3 R_3 g_m s^3 + 2 C_4 L_3 R_3 g_m s^2 + C_5 R_3 
10.658 INVALID-ORDER-658 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                 H(s) = \frac{L_3 R_3 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{C_3 C_5 L_3 L_5 R_3 s^4 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 R_3 s^2 + 2 C_4 C_5 L_3 L_5 R_3 g_m s^3 + 2 C_4 L_3 L_5 R_3 g_m s^3 + 2 C_4 L_3 R_3 g_m s^3 + C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_5 R_3 s^2 + L_3 L_5 g_m s^2 + 2 L_3 R_3 g_m s + L_3 s + L_5 R_3 g_m s + R_3 R_3 g_m s^3 + 2 C_4 L_3 R_3 g_m s^3 + 2 C_4 L_3 R_3 g_m s^3 + C_5 L_5 R_3 g_m s^3 + C_5 L_5 R_3 s^2 + L_5 L_5 R_3 g_m s^3 + L_5 L_5 R_3 g_m s^3 + C_5 L_5 R_5 g_m s^3 +
10.659 INVALID-ORDER-659 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
```

 $H(s) = \frac{L_3 R_3 s \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_5 L_3 R_3 g_m s^4 + C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_3 g_m s^2 + 2 C_4 C_5 L_3 L_5 R_3 g_m s^3 + 2 C_4 C_5 L_3 R_3 g_m s^3 + 2 C_4 L_3 R_3 g_m s^2 + C_5 R_3 g_$

10.660 INVALID-ORDER-660 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

```
L_3R_3s\left(C_5L_5R_5g_ms^2-C_5L_5s^2+L_5g_ms+R_5g_m-1\right)
H(s) = \frac{L_3R_3s\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms + R_5g_m - 1\right)}{C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_3g_ms^3 + C_3L_3R_3g_ms^3 + C_3L_3R_3g_ms^3 + C_5L_3L_5R_3g_ms^3 + 2C_4L_3R_3g_ms^3 + C_5L_3L_5R_3g_ms^3 + C_5L_3L_5R_
10.662 INVALID-ORDER-662 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     L_3R_3s\left(C_5L_5R_5g_ms^2-C_5L_5s^2-C_5R_5s+R_5g_m-1\right)
H(s) = \frac{L_3R_3s\left( C_5L_5R_5g_ms^2 - C_5L_5s^2 - C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_3s^4 + C_3C_5L_3R_3s^2 + 2C_4C_5L_3L_5R_3s^4 + 2C_4C_5L_3L_5R_3s^4 + 2C_4C_5L_3R_3s^2 + 2C_4L_3R_3s^2 + 2C_5L_3L_5R_3g_ms^3 + C_5L_3L_5s^3 + 2C_5L_3R_3s^3 + 2C_5L_3R_3s^3
10.663 INVALID-ORDER-663 Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_{3s}^2 + L_3 s + R_3}, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                           10.664 INVALID-ORDER-664 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.665 INVALID-ORDER-665 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                           \frac{L_{3}R_{3}R_{4}s\left(C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{C_{3}C_{5}L_{3}R_{3}R_{4}S_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}R_{4}S_{9}s^{2}+2C_{4}C_{5}L_{3}R_{3}R_{4}S_{9}s^{3}+2C_{4}C_{5}L_{3}R_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{3}S_{9}s^{2}+2C_{5}L_{3}R_{3}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}S_{9}s^{2}+2C_{5}L_{3}R_{4}
10.666 INVALID-ORDER-666 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_3 R_3 R_4 s \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_5 L_3 L_5 R_3 R_4 g_m s^4 + C_3 C_5 L_3 R_3 R_4 s^3 + C_5 L_3 R_3 R_4 g_m s^2 + 2 C_4 C_5 L_3 L_5 R_3 R_4 g_m s^4 + 2 C_4 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_3 R_3 R_4 g_m s^2 + C_5 L_3 R_5 R_4 g_m s^2 + C_5 L_3 R_5 R_5 g_m s^2 + C_5 L_3 R_5 R_5 g_m s^2 + C_5 L_5 R_5 g_m s^2 + 
10.667 INVALID-ORDER-667 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{L_3 R_3 R_4 s \left(-C_5 L_5 s^2 + L_5 g_m s - 1\right)}{C_3 C_5 L_3 L_5 R_3 R_4 s^4 + C_3 L_3 L_5 R_3 R_4 g_m s^3 + C_3 L_3 R_3 R_4 s^2 + 2 C_4 L_5 L_3 L_5 R_3 R_4 g_m s^3 + 2 C_4 L_3 R_3 R_4 s^2 + 2 C_5 L_3 L_5 R_3 R_4 g_m s^3 + 2 C_5 L_3 L_5 R_3 R_4 s^3 + C_5 L_3 L_5 R_3 R_4 s^2 + 2 L_3 L_5 R_3 g_m s^2 + L_3 L_5 R_3 g_m s^2
10.668 INVALID-ORDER-668 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L_3R_3R_4s\left(C_5L_5g_ms^2+C_5R_5g_ms-C_5s+g_m\right)
10.669 INVALID-ORDER-669 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L_3R_3R_4s\left(-C_5L_5R_5s^2+L_5R_5g_ms-L_5s-R_5\right)
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10.661 INVALID-ORDER-661 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

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10.670 INVALID-ORDER-670 Z(s) = \left( \infty, \ \infty, \ \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \ \frac{R_4}{C_4R_4s + 1}, \ \frac{L_5s}{C_5L_5s^2 + 1} + R_5, \ \infty \right)
H(s) = \frac{L_3R_3R_4s \left( C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms^2 - C_5L_5s^2 + L_5g_ms^3 + C_3L_3R_3R_4s^3 + C_3L_3R_3R_4s^3 + C_3L_3R_3R_4s^3 + C_3L_3R_3R_4s^3 + C_3L_3R_3R_4s^3 + C_4L_3R_3R_4s^3 + C_4L_3R_3R_4s^3 + C_4L_3R_3R_4s^3 + C_5L_3L_5R_3R_4g_ms^3 + C_5L_5R_5g_ms^4 + C_5L_5R
```

 $\begin{aligned} \textbf{10.672} \quad \textbf{INVALID-ORDER-672} \ \ Z(s) &= \left(\infty, \ \ \infty, \ \ \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \ \ R_4 + \frac{1}{C_4s}, \ \ R_5, \ \ \infty \right) \\ & \quad H(s) &= \frac{L_3R_3s \left(R_5g_m - 1 \right) \left(C_4R_4s + 1 \right)}{C_3C_4L_3R_3R_4R_5g_ms^3 + C_3C_4L_3R_3R_4s^3 + C_3L_3R_3s^2 + 2C_4L_3R_3R_4g_ms^2 + 2C_4L_3R_3R_5g_ms^2 + C_4L_3R_4s^2 + C_4R_3R_4R_5g_ms + C_4R_3R_4s + 2L_3R_3g_ms + L_3R_5g_ms + L_3s + R_3R_5g_m + R_3} \end{aligned}$

10.673 INVALID-ORDER-673 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = -\frac{L_3 R_3 s \left(C_5 s - g_m\right) \left(C_4 R_4 s + 1\right)}{C_3 C_4 C_5 L_3 R_3 R_4 s^4 + C_3 C_4 L_3 R_3 R_4 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_4 C_5 L_3 R_3 g_m s^2 + 2 C_4 C_5 L_3 R_3 s^3 + C_4 C_5 L_3 R_3 s^3 + C_4 C_5 L_3 R_4 s^3 + C_4 C_5 R_3 R_4 s^2 + 2 C_4 L_3 R_3 g_m s^2 + C_4 L_3 R_4 g_m s^2 + C_5 L_3 R_3 g_m s^2 + C_5 L_3 s^2 + C_5 R_3 s + L_3 g_m s + R_3 g_m s^2 + C_4 R_3 R_4 g_m s^2 + C_4 R_3 R_4 g_m s^2 + C_5 R_3 s^2 + C_5$

10.674 INVALID-ORDER-674 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = -\frac{L_3R_3s\left(C_4R_4s + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{C_3C_4C_5L_3R_3R_4R_5s^4 + C_3C_4L_3R_3R_4S^3 + C_3C_4L_3R_3R_5s^3 + C_4C_5L_3R_3R_4S^3 + C_4C_5L_3R_3R_5S^3 + C_4C_5L_3R_5S^3 + C_4C_5L_3R_5$

10.675 INVALID-ORDER-675 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right)$

 $H(s) = \frac{L_3 R_3 s \left(C_4 R_4 s + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_4 C_5 L_3 R_3 R_4 R_5 g_m s^4 + C_3 C_4 L_5 L_3 R_3 R_4 g_m s^3 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_3 R_4 R_5 g_m s^3 + C_4 C_5 L_3 R_5 g_m s^3 + C_4 C_5 L_5 R_5 g_m s^3 + C_4 C_5 L_5 R_5 g_m s^3 + C_5 L_5 R_5 g_m s^3$

10.676 INVALID-ORDER-676 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_3 R_3 s \left(C_4 R_4 s + 1\right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_4 C_5 L_3 L_5 R_3 q_m s^5 + C_3 C_4 C_5 L_3 R_3 R_4 g_m s^3 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_4 C_5 L_3 R_3 g_m s^4 + C_4 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_3 R_3 s^3 + C_4 C_5 L_3 R_4 g_m s^3 + C_4 C_5 L_5 R_5 g_m s^3 + C_5 L_5 R_5$

10.677 INVALID-ORDER-677 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = -\frac{L_3 R_3 s \left(C_4 R_4 s + 1\right) \left(C_5 L_5 s^2 - L_5 g_m s + 1\right)}{C_3 C_4 C_5 L_3 L_5 R_3 R_4 s^5 + C_3 C_4 L_3 L_5 R_3 R_4 s^5 + C_3 C_4 L_3 L_5 R_3 R_4 s^3 + C_4 L_3 L_5 R_3 g_m s^3 + C_4 L_5 L_5 R_5 g_m s^3 + C_4 L_5 L_5 R_5 g_m s^3 + C_5 L_5 R_5 g$

10.678 INVALID-ORDER-678 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_3 R_3 s \left(C_4 R_4 s + 1\right) \left(C_3 C_4 C_5 L_3 L_5 R_3 R_4 g_m s^5 + C_3 C_4 C_5 L_3 R_3 R_4 R_5 g_m s^4 + C_3 C_4 L_3 R_3 R_4 g_m s^3 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_3 g_m s^2 + 2 C_4 C_5 L_3 L_5 R_3 g_m s^4 + C_4 C_5 L_3 L_5 R_3 g_m s^4 + C_4 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 R_5 g_m s$

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10.679 INVALID-ORDER-679 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
```

 $H(s) = -\frac{1}{C_3C_4C_5L_3L_5R_3R_4R_5s^5 + C_3C_4L_3L_5R_3R_4R_5g_ms^4 + C_3C_4L_3L_5R_3R_4s^4 + C_3C_4L_3R_3R_4s^3 + C_3L_3L_5R_3R_5s^4 + C_3L_3L_5R_3R_5s^3 + C_3L_3L_5R_3R_5s^3 + C_3L_3L_5R_3R_4s^3 + C_3L_3L_5R_3R_5s^3 + C_3L_3L_5R_3R_5s^3 + C_3L_3L_5R_3R_5s^3 + C_3L_5L_5R_5s^3 + C_3L_5L_5R_5s^3 + C_3L_5L_5R_5s^3 + C_3L_5L_5R_5s^3 + C_3L_5$

10.680 INVALID-ORDER-680
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{C_3C_4C_5L_3L_5R_3R_4R_5g_ms^5 + C_3C_4C_5L_3L_5R_3R_4s^5 + C_3C_4L_3L_5R_3R_4g_ms^4 + C_3C_4L_3R_3R_4s^3 + C_3C_5L_3L_5R_3g_ms^4 + C_3C$

10.681 INVALID-ORDER-681
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = -\frac{1}{C_3C_4C_5L_3L_5R_3R_4R_5g_ms^5 + C_3C_4C_5L_3L_5R_3R_4s^5 + C_3C_4C_5L_3R_3R_4s^5 + C_3C_4L_3R_3R_4s^5 + C_3C_4L_3R_3R_4s^3 + C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_5g_ms^4 + C_3C_5L_3L_5R_5g_ms^4 + C_3C_5L_5L_5R_5g_ms^4 + C_3C_5L_5L_5R_5g_ms^4$

10.682 INVALID-ORDER-682
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$$

 $H(s) = \frac{L_3 R_3 s \left(R_5 g_m - 1\right) \left(C_4 L_4 s^2 + 1\right)}{C_3 C_4 L_3 L_4 R_3 R_5 g_m s^4 + C_3 C_4 L_3 L_4 R_3 s^4 + C_3 L_3 R_3 s^2 + 2 C_4 L_3 L_4 R_3 g_m s^3 + C_4 L_3 L_4 R_3 g_m s^3 + C_4 L_3 L_4 R_3 g_m s^3 + C_4 L_4 R_3 R_5 g_m s^2 + 2 C_4 L_4 R_5 R_5 g_m s^2 + 2 C_4 L_4 R_5 R_5 g_m s^2 + 2 C_4 L_4 R_5 R_5 g_m s^2 + 2 C_4 L_5 R_5 g_m s^2 + 2 C_5 R_5 g_m s^2 + 2 C_$

10.683 INVALID-ORDER-683
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = -\frac{L_3 R_3 s \left(C_5 s - g_m\right) \left(C_4 L_4 s^2 + 1\right)}{C_3 C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 L_3 R_3 g_m s^2 + 2 C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_4 C_5 L_3 L_4 s^4 + 2 C_4 C_5 L_3 R_3 s^3 + C_4 L_3 L_4 g_m s^3 + 2 C_4 L_3 R_3 g_m s^2 + C_5 L_3 R_3 g_m s^2 + C_5 L_3 s^2 + C_5 R_3 s + L_3 g_m s + R_3 g_m s^2 + C_5 R_3 s^2 + C_5$

10.684 INVALID-ORDER-684
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = -\frac{L_3 R_3 s \left(C_4 L_4 s^2 + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{C_3 C_4 C_5 L_3 L_4 R_3 R_5 s^5 + C_3 C_4 L_3 L_4 R_3 R_5 g_m s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_4 L_3 L_4 R_3 g_m s^4 + C_4 C_5 L_3 L_4 R_3 R_5 g_m s^4 + C_4 C_5 L_3 L_4 R_3 R_5 s^3 + 2 C_4 L_3 L_4 R_3 g_m s^3 + C_4 L_3 L_4 R_5 g_m s^3 + C_4 L_5 L_4 R_5 g_m s^3 + C_4 L_5 L_5 R_5 g_m s^3 + C_5 L_5 R_5 g$

10.685 INVALID-ORDER-685
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{L_3 R_3 s \left(C_4 L_4 s^2 + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{C_3 C_4 C_5 L_3 L_4 R_3 r_5 g_m s^5 + C_3 C_4 L_5 L_4 R_3 g_m s^4 + C_3 C_5 L_3 R_3 r_5 g_m s^3 + C_3 C_5 L_3 R_3 r_5 g_m s^3 + C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_4 C_5 L_4 R_3 g_m s^4 + C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_4 C_5 L_4 R_5 g_m s^$

10.686 INVALID-ORDER-686
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{L_3 R_3 s \left(C_4 L_4 s^2 + 1\right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m\right)}{C_3 C_4 C_5 L_3 L_4 L_5 R_3 g_m s^6 + C_3 C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_4 C_5 L_4 L_5 R_3 g_m s^4 + C_4 C_5 L_5 L_5 R_5 g_m s^4 + C_4 C_5 L_5 L_5 R_5 g_m s^4 + C_5 L_5 L_5 R_5 g_m s^4 + C_5 L_5 L_5 R_5 g_m s^4 + C_5 L_5 L_5 R_5$

10.687 INVALID-ORDER-687
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 10.688 INVALID-ORDER-688 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_3 R_3 s \left(C_4 L_4 s^5 + 1 \right) \left(C_4 L_4 s^5 + C_3 C_4 C_5 L_3 L_4 R_3 g_m s^6 + C_3 C_4 C_5 L_3 L_4 R_3 g_m s^5 + C_3 C_4 L_3 L_4 R_3 g_m s^4 + C_3 C_5 L_3 L_3 R_3 g_m s^4 + C_3 C_5 L_3 R_3 g_m s^3 + C_3 L_3 R_3 g_m s^3 + C_3 L_3 R_3 g_m s^4 + C_4 C_5 L_3 L_4 R_$

10.689 INVALID-ORDER-689 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $\overline{C_3C_4C_5L_3L_4L_5R_3R_5s^6 + C_3C_4L_3L_4L_5R_3R_5g_ms^5 + C_3C_4L_3L_4L_5R_3s^5 + C_3C_4L_5L_5R_$

10.690 INVALID-ORDER-690 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

 $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + C_3C_4C_5L_3L_4L_5R_3g_ms^5 + C_3C_4L_3L_4L_5R_3g_ms^5 + C_3C_4L_3L_4R_3s^4 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5R_3g_ms^3 + C_3L_3R_3g_ms^3 + C$

10.691 INVALID-ORDER-691 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = -\frac{1}{C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + C_3C_4C_5L_3L_4L_5R_3s^6 + C_3C_4C_5L_3L_4R_3R_5s^5 + C_3C_4L_3L_4R_3R_5g_ms^4 + C_3C_5L_3L_5R_3s^4 + C_3C_5L_5L_5R_3s^4 + C_3C_5L_5L_5R_3s^4 + C_3C_5L_5L_5R_3s^4 + C_3C_5L_5L_5R_3s^4 + C_3C_5L_5L_5R_3s^4 + C_3C_5L_5L_5R_3s^4 + C_3C_5$

10.692 INVALID-ORDER-692 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_3L_4R_3s\left(-C_5s + g_m\right)}{C_3C_5L_3L_4R_3s^3 + C_3L_3L_4R_3g_ms^2 + 2C_4C_5L_3L_4R_3s^3 + 2C_4L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + C_5L_3L_4s^2 + 2C_5L_3R_3s + C_5L_4R_3s + L_3L_4g_ms + 2L_3R_3g_m + L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3R_3s + C_5L_4R_3s + L_3L_4g_ms + 2L_3R_3g_m + L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R$

10.693 INVALID-ORDER-693 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

10.694 INVALID-ORDER-694 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_3L_4R_3s\left(C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_3L_4R_3R_5g_ms^3 + C_3C_5L_3L_4R_3s^3 + C_3L_3L_4R_3g_ms^2 + 2C_4C_5L_3L_4R_3s^3 + 2C_4L_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3R_3R_5g_ms + 2C_5L_3R_3R_5g_ms + 2C_5L_3R_3s + C_5L_4R_3s + L_3L_4g_ms + 2L_3R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3L_4R_3g_ms^2 + 2C_5L_3R_3R_5g_ms + 2C_5L_3R_5g_ms + 2C_5L$

10.695 INVALID-ORDER-695 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_3L_4R_3s\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{C_3C_5L_3L_4L_5R_3g_ms^4 + C_3C_5L_3L_4R_3s^3 + C_3L_3L_4R_3g_ms^2 + 2C_4C_5L_3L_4R_3s^3 + 2C_4L_3L_4R_3g_ms^2 + C_5L_3L_4R_3g_ms^2 + C_5L_3L_4S_3g_ms^2 + 2C_5L_3L_4S_3g_ms^2 + 2C_5L_3L_4S_3$

10.696 INVALID-ORDER-696 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $L_3L_4R_3s\left(-C_5L_5s^2+L_5g_ms-1\right)$

 $H(s) = \frac{L_3L_4R_3s \left(-C_5L_5s + L_5g_ms - 1\right)}{C_3C_5L_3L_4L_5R_3s^4 + C_3L_3L_4L_5R_3g_ms^3 + C_3L_3L_4L_5R_3g_ms^3 + C_5L_3L_4L_5R_3g_ms^3 + C_5L_5L_5R_3g_ms^3 + C_5L$

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10.697 INVALID-ORDER-697 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
```

$$L_3L_4R_3s\left(C_5L_5g_ms^2+C_5R_5g_ms-C_5s+g_m\right)$$

 $H(s) = \frac{L_3L_4R_3s\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_3L_4L_5R_3g_ms^4 + C_3C_5L_3L_4R_3s^3 + C_3L_3L_4R_3g_ms^2 + 2C_4C_5L_3L_4R_3g_ms^4 + 2C_4C_5L_3L_4R_3g_ms^3 + 2C_4L_3L_4R_3g_ms^2 + C_5L_3L_4R_3g_ms^2 + C_5L_3L_4R_3g$

10.698 INVALID-ORDER-698 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $L_3L_4R_3s\left(-C_5L_5R_5s^2+L_5R_5g_ms-L_5s-R_5\right)$

 $H(s) = \frac{L_3L_4L_{13}s \left(- C_5L_5L_{15}s + L_5L_{15}g_m s - L_5s - L_{15}\right)}{C_3C_5L_3L_4L_5R_3R_5g_m s^3 + C_3L_3L_4L_5R_3s^3 + C_3L_3L_4L_5R_3s^3 + C_4L_3L_4L_5R_3s^3 + 2C_4L_3L_4L_5R_3s^3 + 2C_4L_5L_5R_3s^3 + 2C_4L_5L_5R_3s^3 + 2C_4L_5L_5R_3s^3 + 2C_4L_5L_5R_3s^3 + 2C_4L_5L_5R_3s^3 + 2C_4L_5L_5R_3s^3 +$

10.699 INVALID-ORDER-699 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

10.700 INVALID-ORDER-700 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_{3s}^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-c_{1} - c_{2} - c_{3} - c_{4} - c_{5} - c_$

10.701 INVALID-ORDER-701 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{L_3 R_3 s \left(R_5 g_m - 1\right) \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right)}{C_3 C_4 L_3 L_4 R_3 r_5 g_m s^4 + C_3 C_4 L_3 R_4 R_5 g_m s^3 + C_3 L_4 R_3 R_4 r_5 g_m s^2 + C_4 L_3 R_4 R_5 g_m s^3 + C_4 L_3 L_4 R_3 g_m s^3 + C_4 L_3 L_4 R_3 g_m s^3 + C_4 L_3 R_4 R_5 g_m s^2 + 2 C_4 L_3 R_3 R_5 g_m s^2 + 2 C_4 L_3 R_3 R_5 g_m s^2 + 2 C_4 L_3 R_3 R_5 g_m s^2 + 2 C_4 L_3 R_4 R_5 g_m s^3 + C_$

10.702 INVALID-ORDER-702 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

10.703 INVALID-ORDER-703 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $\overline{C_3C_4C_5L_3L_4R_3R_5s^5 + C_3C_4C_5L_3R_3R_4R_5s^4 + C_3C_4L_3L_4R_3R_5g_ms^4 + C_3C_4L_3L_4R_3s^4 + C_3C_4L_3R_3R_4s^3 + C_3C_5L_3R_3R_5s^3 + C_3L_3R_3s^2 + 2C_4C_5L_3L_4R_3R_5g_ms^4 + C_4C_5L_3L_4R_3s^4 + 2C_4C_5L_3R_3R_4s^3 + 2C_4C_5L_3R_3R_5s^3 + C_3L_3R_3s^2 + 2C_4C_5L_3L_4R_3R_5g_ms^4 + C_4C_5L_3L_4R_3s^4 + 2C_4C_5L_3R_3R_4s^3 + 2C_4C_5L_3R_3R_5s^3 + 2C_4C_5L_3R_5s^3 + 2C_5C_5L_3R_5s^3 + 2C_5C_5L_5R_5s^3 + 2C_5C_5L_5R_5s^3 + 2C_5C_5L_5R_5s^3 + 2C_5C_5L_5R_5s$

10.704 INVALID-ORDER-704 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $\overline{C_{3}C_{4}C_{5}L_{3}L_{4}R_{3}R_{5}g_{m}s^{5} + C_{3}C_{4}C_{5}L_{3}L_{4}R_{3}s^{5} + C_{3}C_{4}C_{5}L_{3}R_{3}R_{4}s^{4} + C_{3}C_{4}L_{3}L_{4}R_{3}g_{m}s^{4} + C_{3}C_{4}L_{3}L_{4}R_{3}g_{m}s^{4} + C_{3}C_{4}L_{3}L_{4}R_{3}g_{m}s^{4} + C_{3}C_{4}L_{3}L_{4}R_{3}g_{m}s^{4} + C_{3}C_{4}L_{3}L_{4}R_{3}g_{m}s^{4} + C_{3}C_{4}L_{3}L_{4}R_{3}g_{m}s^{4} + C_{4}C_{5}L_{3}L_{4}R_{3}g_{m}s^{4} + C_{4}C_{5}L_{3}L_{$

10.705 INVALID-ORDER-705 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{1}{C_3 C_4 C_5 L_3 L_4 L_5 R_3 q_m s^6 + C_3 C_4 C_5 L_3 L_4 R_3 s^5 + C_3 C_4 C_5 L_3 L_5 R_3 q_m s^4 + C_3 C_4 L_5 L_3 L_4 R_3 q_m s^4 + C_3 C_4 L_3 L_4 R_3 q_m s^4 + C_3 C_5 L_3 L_5 R_3 q_m s^4 + C_3 C_5 L_3 L_4 R_3 q_m s^4 + C_4 C_$

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10.706 INVALID-ORDER-706 Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
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10.707 INVALID-ORDER-707
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4R_3R_5g_ms^5 + C_3C_4C_5L_3L_4R_3s^5 + C_3C_4C_5L_3L_5R_3R_4g_ms^5 + C_3C_4C_5L_3R_3R_4g_ms^5 + C_3C_4C_5L_3R_3R_4g_ms^5 + C_3C_4L_5L_3R_3R_4g_ms^4 + C_3C_4L_3R_3R_4g_ms^4 + C_3C_4L_3R_3R_4g_ms^3 + C_3C_5L_3R_3R_4g_ms^4 + C_3C_4L_3R_3R_4g_ms^4 + C_3C_4L_3R_3R$

10.708 INVALID-ORDER-708
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = -\frac{1}{C_3C_4C_5L_3L_4L_5R_3R_5s^6 + C_3C_4C_5L_3L_5R_3R_4R_5s^5 + C_3C_4L_3L_4L_5R_3s^5 + C_3C_4L_3L_4R_3R_5s^4 + C_3C_4L_3L_5R_3R_4s^4 + C_3C_4L_3L_5R_3R_5s^4 + C_3C_4L_3L_5R_5s^4 + C_3C_4L_5L_5R_5s^4 + C_3C_4$

10.709 INVALID-ORDER-709
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$$

10.710 INVALID-ORDER-710
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.711 INVALID-ORDER-711
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{L_3L_4R_3R_4s\left(-C_5s + g_m\right)}{C_3C_5L_3L_4R_3R_4s^3 + C_3L_3L_4R_3R_4g_ms^2 + 2C_4C_5L_3L_4R_3R_4g_ms^2 + 2C_5L_3L_4R_3s^2 + 2C_5L_3L_4$

10.712 INVALID-ORDER-712
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{L_3L_4R_3R_4s\left(-C_5R_5s + R_5g_m - 1\right)}{C_3C_5L_3L_4R_3R_4S^3 + C_3L_3L_4R_3R_4S^2 + 2C_4L_3L_4R_3R_4S^3 + 2C_4L_3L_4R_3R_4S^2 + 2C_5L_3L_4R_3R_4S^2 + 2C_5L_3L_4R_3R$$

10.713 INVALID-ORDER-713
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_3L_4R_3R_4s\left(C_5R_5g_ms - C_5s + g_m\right)}{C_3C_5L_3L_4R_3R_4s^3 + C_3C_5L_3L_4R_3R_4g_ms^2 + 2C_4C_5L_3L_4R_3R_4g_ms^3 + 2C_4L_3L_4R_3R_4g_ms^2 + 2C_5L_3L_4R_3R_4g_ms^2 + 2C_5L_3L_4R_3R$$

10.714 INVALID-ORDER-714
$$Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_3L_4R_3R_4s\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{C_3C_5L_3L_4L_5R_3R_4g_ms^4 + C_3C_5L_3L_4R_3R_4g_ms^2 + 2C_4C_5L_3L_4R_3R_4g_ms^4 + 2C_4C_5L_3L_4R_3R_4g_ms^2 + 2C_5L_3L_4L_5R_3g_ms^3 + C_5L_3L_4L_5R_3g_ms^3 + 2C_5L_3L_4R_3R_4g_ms^2 + 2C_5L_3L_4R_3s^2 +$$

10.715 INVALID-ORDER-715 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

- 10.716 INVALID-ORDER-716 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

- $L_3L_4R_3R_4s\left(C_5L_5g_ms^2+C_5g_m$
- $H(s) = \frac{L_3L_4L_5R_3R_4g_ms^4 + C_3C_5L_3L_4R_3R_4g_ms^3 + C_3L_5L_3L_4R_3R_4g_ms^4 + C_4C_5L_3L_4R_3R_4g_ms^4 + C_4C_5L_3L_4R$
- 10.717 INVALID-ORDER-717 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
- 10.718 INVALID-ORDER-718 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$
- $H(s) = \frac{1}{C_3C_5L_3L_4L_5R_3R_4R_5g_ms^4 + C_3C_5L_3L_4L_5R_3R_4g^4 + C_3L_3L_4L_5R_3R_4g_ms^3 + C_3L_3L_4R_3R_4g^2 + 2C_4C_5L_3L_4L_5R_3R_4g^4 + 2C_4C_5L_3L_4L_5R_3R_4g^4 + 2C_4L_3L_4L_5R_3R_4g^3 + 2C_4L_3L_4R_3R_4g^3 + 2C_4L_3L_4$
- 10.719 INVALID-ORDER-719 $Z(s) = \left(\infty, \infty, \frac{L_3R_{3s}}{C_3L_3R_{3s}^2 + L_3s + R_3}, \frac{L_4R_{4s}}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$
- $H(s) = \frac{1}{C_3C_5L_3L_4L_5R_3R_4R_5g_ms^4 + C_3C_5L_3L_4L_5R_3R_4s^4 + C_3C_5L_3L_4R_3R_4s^3 + C_3L_3L_4R_3R_4s^2 + 2C_4C_5L_3L_4L_5R_3R_4s^4 + 2C_4C_5L_3L_4R_3R_4s^2 + 2C_4L_3L_4R_3R_4s^2 + 2C_4L_3L_4R_3R_4s^2 + 2C_4C_5L_3L_4L_5R_3R_4s^4 + 2C_4C_5L_3L_4R_3R_4s^2 + 2C_4C_5L_3L_4L_5R_3R_4s^4 + 2C_4C_5L_3L_4R_3R_4s^2 + 2C_4C_5L_3L_4R_3R_4$
- 10.720 INVALID-ORDER-720 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5, \infty\right)$
- $L_3R_3s\left(R_5g_m-1\right)\left(C_4L_4R_4s^2+L_4s+R_4\right)$
- 10.721 INVALID-ORDER-721 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{1}{C_5 s}, \infty\right)$
- $-\frac{C_3C_4C_5L_3L_4R_3R_4s^5 + C_3C_4L_3L_4R_3R_4g_ms^4 + C_3C_5L_3L_4R_3s^4 + C_3C_5L_3R_3R_4s^3 + C_3L_4R_3g_ms^3 + C_3L_3R_3R_4g_ms^4 + 2C_4C_5L_3L_4R_3s^4 + C_4C_5L_3L_4R_3s^4 + C_4C_5L_3L_4R_3$
- 10.722 INVALID-ORDER-722 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
- 10.723 INVALID-ORDER-723 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{1}{C_3C_4C_5L_3L_4R_3R_4R_5g_ms^5 + C_3C_4C_5L_3L_4R_3R_4g_ms^4 + C_3C_5L_3L_4R_3R_5g_ms^4 + C_3C_5L_3L_4R_3g_ms^3 + C_3L_3L_4R_3g_ms^3 + C_3L_3R_3R_4g_ms^4 + 2C_4C_5L_3L_4R_3R_4g_ms^4 +$

- 10.724 INVALID-ORDER-724 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$
- $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + C_3C_4C_5L_3L_4R_3R_4g^5 + C_3C_4L_3L_4R_3R_4g_ms^4 + C_3C_5L_3L_4R_3s^4 + C_3C_5L_3L_4R_3s^4 + C_3C_5L_3L_4R_3g_ms^4 + C_3C_5L$
- 10.725 INVALID-ORDER-725 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$
- 10.726 INVALID-ORDER-726 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + C_3C_4C_5L_3L_4R_3R_4g_ms^5 + C_3C_4C_5L_3L_4R_3R_4g_ms^4 + C_3C_5L_3L_4R_3R_4g_ms^4 + C_3C_5L_3L_4R_3R_4g_ms$
- 10.727 INVALID-ORDER-727 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
- $H(s) = -\frac{1}{C_3C_4C_5L_3L_4L_5R_3R_4R_5s^6 + C_3C_4L_3L_4L_5R_3R_4R_5g_ms^5 + C_3C_4L_3L_4L_5R_3R_4s^5 + C_3C_5L_3L_4L_5R_3R_4s^5 + C_3C_5L_3L_4L_5R_3R_4s^5 + C_3C_5L_3L_4L_5R_3R_4s^5 + C_3C_5L_3L_4L_5R_3R_4s^5 + C_3L_3L_4L_5R_3R_4s^5 + C_3L_4L_5R_3R_4s^5 + C_3L_4L_5R_3R_4s^5 + C_3L_4L_5R_3R_4s^5 + C_3L_4L_5R_3R_4$
- 10.728 INVALID-ORDER-728 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$
- $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_3R_4R_5g_ms^6 + C_3C_4C_5L_3L_4L_5R_3R_4s^6 + C_3C_4L_3L_4L_5R_3R_4g_ms^5 + C_3C_4L_3L_4R_3R_4s^4 + C_3C_5L_3L_4L_5R_3R_5g_ms^5 + C_3C_5L_3L_4L_5R_3s^5 + C_3C_5L_3L_4L_5R_3s^5 + C_3C_5L_3L_4L_5R_3s^6 + C_3C_5L_3L_4L_5R_3g_ms^4 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_5L_5R_3g_ms^4 + C_3C_5L_5L_5R_3g_ms^4 + C_3C_5L_5L_5R_3g_ms^4 + C_3C_5L_5L_5R_3g_ms^4 + C_3C_5L$
- 10.729 INVALID-ORDER-729 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$
- $H(s) = -\frac{1}{C_3C_4C_5L_3L_4L_5R_3R_4R_5g_ms^6 + C_3C_4C_5L_3L_4L_5R_3R_4s^6 + C_3C_4C_5L_3L_4R_3R_4s^5 + C_3C_4L_3L_4R_3R_4s^4 + C_3C_5L_3L_4L_5R_3s^5 + C_3C_5L_3L_4L_5R_3s^5 + C_3C_5L_3L_4R_3R_5s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4L_5R_3s^5 + C_3C_5L_3L_4L_5R_3s^5 + C_3C_5L_3L_4R_3R_5s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4L_5R_3s^5 + C_3C_5L_3L_4R_3R_5s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4R_3R_5s^4 + C_3C_5L_3L_4R_3R_5s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4R_3R_5s^4 + C_3C_5L_3L_4R_3R_4s^4 + C_3C_5L_3L_4R_3R_4$
- 10.730 INVALID-ORDER-730 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$
- $H(s) = \frac{L_3 R_3 R_4 s \left(R_5 g_m 1\right) \left(C_4 L_4 s^2 + 1\right)}{C_3 C_4 L_3 L_4 R_3 R_4 s^4 + C_3 C_4 L_3 L_4 R_3 R_4 s^2 + 2 C_4 L_3 L_4 R_3 R_4 s^3 + 2 C_4 L_3 L_4 R_3 s^3 + 2 C_4 L_3 R_4 s^3 +$
- 10.731 INVALID-ORDER-731 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$
- 10.732 INVALID-ORDER-732 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
- $H(s) = -\frac{1}{C_3C_4C_5L_3L_4R_3R_4R_5s^5 + C_3C_4L_3L_4R_3R_4R_5g_ms^4 + C_3C_4L_3L_4R_3R_4s^4 + C_3C_5L_3R_3R_4R_5s^3 + C_3L_3R_3R_4R_5g_ms^2 + C_3L_3R_3R_4R_5g_ms^4 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3R_3R_4R_5s^3 + 2C_4L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3R_3R_4R_5s^3 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3L_4R_3R_4S_5s^4 + 2C_4C_5L_3R_3R_4R_5s^3 + 2C_4C_5L_3R_3R_5R_5s^3 + 2C_4C_5L_3R_5R_5s^3 + 2C_5L_3R_5R_5s^3 + 2C_5L_3R_5R_5s^3 + 2C_5L_3R_5R_5s^3 + 2C_5L_3R_5R_5s^3 + 2$

10.733 INVALID-ORDER-733 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{1}{C_3C_4C_5L_3L_4R_3R_4R_5g_ms^5 + C_3C_4C_5L_3L_4R_3R_4s^5 + C_3C_4L_3L_4R_3R_4g_ms^4 + C_3C_5L_3R_3R_4s^3 + C_3L_3R_3R_4g_ms^4 + 2C_4C_5L_3L_4R_3R_4g_ms^4 +$

10.734 INVALID-ORDER-734 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_{3s}^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L}{C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + C_3C_4C_5L_3L_4R_3R_4s^5 + C_3C_4L_3L_4R_3R_4g_ms^4 + C_3C_5L_3L_3R_3R_4g_ms^4 + C_3C_5L_3R_3R_4g_ms^5 + C_4C_5L_3L_4L_5R_3g_ms^5 + C_4C_5L_3L_4L_5R_3g_ms^5 + C_4C_5L_3L_4R_3R_4g_ms^4 + C_4C$

10.735 INVALID-ORDER-735 $Z(s) = \left(\infty, \infty, \frac{L_3 R_{3s}}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

10.736 INVALID-ORDER-736 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + C_3C_4C_5L_3L_4R_3R_4g_ms^5 + C_3C_4C_5L_3L_4R_3R_4g_ms^4 + C_3C_5L_3L_5R_3R_4g_ms^4 + C_3C_5L_3R_3R_4g_ms^4 + C_3C_5L_3R_3R_4g$

10.737 INVALID-ORDER-737 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

10.738 INVALID-ORDER-738 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \infty\right)$

10.739 INVALID-ORDER-739 $Z(s) = \left(\infty, \infty, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.740 INVALID-ORDER-740 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4, \frac{1}{C_5s}, \infty\right)$

 $H(s) = -\frac{R_4 \left(C_5 s - g_m\right) \left(C_3 L_3 R_3 s^2 + L_3 s + R_3\right)}{2 C_3 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_4 s^3 + 2 C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_4 g_m s^2 + 2 C_5 R_3 R_4 g_m s + 2 C_5 R_3 s + C_5 R_4 s + 2 L_3 g_m s + 2 R_3 g_m s + 2 R_3$

10.741 INVALID-ORDER-741 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $\frac{R_4 \left(C_5 R_5 s-R_5 g_m+1\right) \left(C_3 L_3 R_3 s^2+L_3 s+R_3\right)}{2 C_3 C_5 L_3 R_3 R_4 R_5 g_m s^3+2 C_3 C_5 L_3 R_4 R_5 s^3+2 C_3 L_3 R_4 R_5 g_m s^2+2 C_3 L_3 R_3 R_4 R_5 g_m s^2+2 C_5 L_3 R_4 R_5 g_m s^2+2 C_5 L_3 R_4 R_5 g_m s^2+2 C_5 R_3 R_5 g_m s^2+2 C_5 R_5 R_5 g_m s^2+2 C$

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 10.742 \quad \text{INVALID-ORDER-742} \ Z(s) = \left( \infty, \ \infty, \ \frac{L_{3}s}{C_{3}L_{3}s^{2}+1} + R_{3}, \ R_{4}, \ R_{5} + \frac{1}{C_{5}s}, \ \infty \right) 
 R_{4} \left( C_{3}L_{3}R_{3}s^{2} + L_{3}s + R_{3} \right) \left( C_{5}R_{5}g_{m}s - C_{5}s + g_{m} \right) 
 R_{4} \left( C_{3}L_{3}R_{3}s^{2} + L_{3}s + R_{3} \right) \left( C_{5}R_{5}g_{m}s - C_{5}s + g_{m} \right) 
 R_{4} \left( C_{3}L_{3}R_{3}s^{2} + L_{3}s + R_{3} \right) \left( C_{5}R_{5}g_{m}s - C_{5}s + g_{m} \right) 
 R_{4} \left( C_{3}L_{3}R_{3}g_{m}s^{2} + 2C_{5}L_{3}R_{4}g_{m}s^{2} + 2C_{5}L_{3}R_{5}g_{m}s^{2} + 2C_{5}L_{3}R_{5}g_{m}s^{2} + 2C_{5}R_{3}R_{4}g_{m}s + 2C_{5}R_{3}R_{4}g_{m}s + 2C_{5}R_{3}R_{5}g_{m}s + 2C_{5}R_{5}R_{5}g_{m}s + 2C_{5}R_{5}g_{m}s + 2C_{5}R_{5}g_{m}s
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 $H(s) = -\frac{R_4 \left(C_5 L_5 s^2 - L_5 g_m s + 1\right) \left(C_3 L_3 R_3 s^2 + L_3 s + R_3\right)}{2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^3 + 2 C_3 L_3 R_3 g_m s^3 + 2 C_3 L_3 R_3 g_m s^2 + 2 C_5 L_3 L_5 g_m s^3 + 2 C_5 L_5 R_3 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3 + 2$

10.745 INVALID-ORDER-745 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, R_4, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_4 \left(C_3 L_3 R_3 s^2 + L_3 s + R_3 \right) \left(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_5 L_3 R_5 g_m s^3 + 2 C_5 L_5 R_5 g_m s^3 +$

10.746 INVALID-ORDER-746 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = -\frac{R_4 \left(C_3 L_3 R_3 s^2 + L_3 s + R_3\right) \left(C_5 L_5 R_5 s^2 - L_5 R_5 R_4 R_5 g_m s^3 + 2 C_3 L_5 R_3 R_4 R_5 g_m s^3 + 2 C_3 L_3 L_5 R_3 R_5 g_m s^3 + 2 C_3 L_3 L_5 R_3 R_5 g_m s^3 + 2 C_3 L_3 L_5 R_4 R_5 g_m s^3 + 2 C_3 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 R_5 g_m s^3 + 2$

10.747 INVALID-ORDER-747 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_{3s}^2+1} + R_3, R_4, \frac{L_{5s}}{C_5L_5s^2+1} + R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(C_3 L_3 R_3 s^2 + L_3 s + R_3 \right) \left(C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s^2 + C_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m s^3 + C_3 L_3 R_4 R_5 g_m s^3 + C_3 L_3 R_4 R_5 g_m s^3 + C_3 L_3 R_4 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_4 g_m s^3 + 2 C_5 L_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 L_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 g_m s^$

10.748 INVALID-ORDER-748 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{114 \left(\text{C}_3 L_3 L_5 R_3 R_4 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_4 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 R_5 R_5 g_m s^4 + 2 C_3 C_5 L_5 R_5 R_5 g_m s^4 + 2 C_5 L_5 R_5$

10.749 INVALID-ORDER-749 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{1}{C_4s}, R_5, \infty\right)$

 $H(s) = \frac{\left(R_5g_m - 1\right)\left(C_3L_3R_3s^2 + L_3s + R_3\right)}{2C_3C_4L_3R_3s_5g_ms^3 + 2C_3C_4L_3R_3s^3 + 2C_3L_3R_3g_ms^2 + C_3L_3R_5g_ms^2 + 2C_4L_3R_5g_ms^2 + 2C_4L_3s^2 + 2C_4L_3s^2 + 2C_4R_3R_5g_ms + 2C_4R_3s + 2L_3g_ms + 2R_3g_m + R_5g_m + 1C_4R_3s^2 + 2C_4R_3s^2 +$

10.750 INVALID-ORDER-750 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$

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

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10.751 INVALID-ORDER-751 Z(s) = \left( \infty, \ \infty, \ \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \ \frac{1}{C_4s}, \ \frac{R_6}{C_5R_5s+1}, \ \infty \right)
 \frac{(C_5R_5s - R_5g_m + 1) \left( C_3L_3R_3s^2 + L_3s + R_3 \right)}{2C_3C_4C_5L_3R_3R_5g_ms^3 + 2C_3C_4L_3R_3g_ms^3 + 2C_3C_5L_3R_3g_ms^3 + 2C_3L_3R_3g_ms^2 + C_3L_3R_3g_ms^2 + C_3L_3R_3g_ms^2 + 2C_4C_5L_3R_5s^3 + 2C_4C_5R_3R_5s^2 + 2C_4L_3R_5g_ms^2 + 2C_4L_3R_5
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 $H(s) = \frac{\left(C_3L_3R_3s^2 + L_3s + R_3\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3R_3g_ms^3 + C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3R_3g_ms^3 + C_3C_5L_3S^3 + 2C_4C_5L_3S^3 + 2C_5L_3S^3 + 2C_5L_3S^3 + 2C_5L_3S^3 + 2C_5L_3S^3 + 2C_5$

10.754 INVALID-ORDER-754 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{1}{C_4s}, \frac{L_{5s}}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = -\frac{\left(C_5L_5s^2 - L_5g_ms + 1\right)\left(C_3L_3R_3s^2 + L_3s + R_3\right)}{2C_3C_4C_5L_3L_5R_3s^5 + 2C_3C_4L_3L_5R_3g_ms^4 + 2C_3C_4L_3R_3s^3 + 2C_3C_5L_3L_5s^4 + C_3L_3L_5g_ms^3 + 2C_3L_3L_5g_ms^3 + 2C_4L_3L_5g_ms^3 + 2C_4L_3L_5g_ms^3 + 2C_4L_3S^2 + 2C_4L_5R_3g_ms^2 + 2C_4L_5R_3g_ms^3 + 2C_5L_3L_5g_ms^3 + 2C_5L_5R_3s^3 + 2C_4L_5R_3g_ms^3 + 2C_4L_5R_3g_ms^3 + 2C_5L_5R_3s^3 + 2C_4L_5R_3g_ms^3 + 2$

10.755 INVALID-ORDER-755 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{\left(C_3L_3R_3s^2 + L_3s + R_3\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3R_3g_ms^4 + 2C_3C_4L_3R_3g_ms^3 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3R_5g_ms^3 + 2C_4C_5L_3R_5g_ms^3 + 2C_4C_5L_3R_5g_ms^3$

10.756 INVALID-ORDER-756 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = -\frac{\left(C_3L_3R_3s^2 + L_3s + R_3\right)\left(C_5L_5R_5s^2 - L_5R_5g_ms^3 + C_3L_5L_5R_3R_5s^3 + 2C_3C_4L_3L_5R_3R_5g_ms^4 + 2C_3C_4L_3L_5R_3R_5g_ms^4 + 2C_3C_4L_3L_5R_3g_ms^3 + C_3L_3L_5R_3g_ms^3 + C_3L_3L_5R_3g_ms^3 + C_3L_3L_5R_3g_ms^3 + 2C_3L_3R_5g_ms^3 + 2C_$

10.757 INVALID-ORDER-757 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

 $H(s) = \frac{\left(C_3L_3R_3s^2 + L_3s + R_3\right)\left(C_5L_5R_5g_ms^2 - C_5L_5g_ms^2 - C_5L_5g_ms^2 - C_5L_5g_ms^2 - C_5L_5g_ms^2 - C_5L_5g_ms^2 - C_5L_5g_ms^3 - 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4L_3L_5R_3g_ms^4 + 2C_3C_4L_3R_3s^3 + 2C_3C_4L_3R_3s^3 + 2C_3C_4L_3R_3s^3 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5R_3g_ms^3 + 2C_3L_3R_3g_ms^2 + C_3L_3R_3g_ms^2 + C_3L_3R_3g_ms^2 + C_3L_3R_3g_ms^3 + 2C_3C_4L_3R_3g_ms^3 + 2C_3C_4L_3R_$

10.758 INVALID-ORDER-758 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{(C_3L_3R_3s^5 + L_3s^6)}{2C_3C_4C_5L_3L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + 2C_3C_4C_5L_3R_3R_5g_ms^3 + 2C_3C_4L_3R_3s^3 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5s^4 + 2C_3C_5L_3R_5g_ms^3 + 2C_3C_5L_3R_5g_ms^3 + 2C_3C_4L_3R_3g_ms^3 + 2C_3C_4L_3R_3g_ms^3 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5s^4 + 2C_3C_5L_3R_3g_ms^3 + 2C_3C_5L_3R_3g_m$

10.759 INVALID-ORDER-759 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

 $H(s) = \frac{R_4 \left(R_5 g_m - 1 \right) \left(C_3 L_3 R_3 s^2 + L_3 s + R_3 \right)}{2 C_3 C_4 L_3 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_4 L_3 R_3 R_4 g^3 + 2 C_3 L_3 R_3 R_4 g_m s^2 + 2 C_3 L_3 R_3 R_5 g_m s^2 + 2 C_4 L_3 R_4 R_5 g_m s + 2 L_3 R_$

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10.760 INVALID-ORDER-760 Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)
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 $H(s) = -\frac{R_4 \left(C_5 s - g_m\right) \left(C_3 L_3 R_3 s^2 + L_3 s + R_3\right)}{2 C_3 C_4 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_4 s^3 + 2 C_4 L_3 R_4 g_m s^2 + 2 C_4 L_3 R_4 g_m s^2 + 2 C_4 L_3 R_4 g_m s^2 + 2 C_5 L_3 R_4 g_m$

10.761 INVALID-ORDER-761 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{R_4 \left(C_5 R_5 s - R_5 g_m + 1\right) \left(C_3 L_3 R_3 s^2 + L_5 L_3 R_4 R_5 g_m s^3 + 2 C_3 C_4 L_3 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_5 C_5 L_5 R_$

10.762 INVALID-ORDER-762 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_4 \left(C_3 L_3 R_3 s^2 + L_3 s + R_3 \right) \left(C_5 R_5 g_m s - C_5 s + g_m \right)}{2 C_3 C_4 C_5 L_3 R_3 R_4 R_5 g_m s^4 + 2 C_3 C_4 L_3 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_4 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_4 C_5 L_3 R_5 R_5 g_m s^3 + 2 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_$

10.763 INVALID-ORDER-763 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_4 \left(C_3 L_3 R_3 s^2 + L_3 s + R_3 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m \right)}{2 C_3 C_4 C_5 L_3 L_5 R_3 q_m s^5 + 2 C_3 C_4 L_5 L_3 R_4 q_m s^3 + 2 C_3 C_5 L_3 L_5 R_3 q_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_3 s^3 + 2 C_3 C_5 L_3 R_3 q_m s^2 + 2 C_4 C_5 L_3 L_5 R_4 q_m s^4 + 2 C_4 C_5 L_3 R_4 q_m s^3 + 2 C_4 C_5 L_3 R_4 q_m s^4 + 2$

10.764 INVALID-ORDER-764 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = -\frac{R_4 \left(C_5 L_5 s^2 - L_5 g_m s + 1 \right) \left(C_3 L_3 R_3 s^2 -$

10.765 INVALID-ORDER-765 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4R_5g_ms^4 + 2C_3C_4L_3R_3R_4g_ms^3 + 2C_3C_5L_3L_5R_3g_ms^4 + 2C_3C_5L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3R_4g_ms$

10.766 INVALID-ORDER-766 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_3R_4R_5s^5 + 2C_3C_4L_3L_5R_3R_4R_5g_ms^4 + 2C_3C_4L_3L_5R_3R_4s^4 + 2C_3C_4L_3R_3R_4R_5s^3 + 2C_3C_5L_3L_5R_3R_4R_5g_ms^4 + 2C_3C_5L_3L_5R_3R_4g_ms^3 + 2C_3L_3L_5R_3R_4g_ms^3 + 2C_3L_3L_5R_3R_5g_ms^3 + 2C_3L_3L_5R_3R_5g_ms^3 + 2C_3L_3L_5R_3R_5g_ms^3 + 2C_3L_3L_5R_3R_5g_ms^3 + 2C_3L_3L_5R_3R_5g_ms^3 + 2C_3L_3L_5$

10.767 INVALID-ORDER-767 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

10.768 INVALID-ORDER-768 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4}{C_4R_4s+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3R_4s^5 + 2C_3C_4C_5L_3R_3R_4R_5s^4 + 2C_3C_4L_3R_3R_4R_5g_ms^3 + 2C_3C_4L_3R_3R_4s^3 + 2C_3C_5L_3L_5R_3R_4g_ms^4 + 2C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_$

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10.769 INVALID-ORDER-769 Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, R_4 + \frac{1}{C_4s}, R_5, \infty\right)
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 $H(s) = \frac{\left(R_{5}g_{m} - 1\right)\left(C_{4}R_{4}s + 1\right)\left(C_{3}L_{3}R_{3}s^{2} + L_{3}s + R_{3}\right)}{2C_{3}C_{4}L_{3}R_{3}g_{m}s^{3} + 2C_{3}C_{4}L_{3}R_{3}s^{3} + C_{3}C_{4}L_{3}R_{4}s^{3} + 2C_{3}L_{3}R_{3}g_{m}s^{2} + C_{3}L_{3}R_{5}g_{m}s^{2} + 2C_{4}L_{3}R_{5}g_{m}s^{2} + 2C_{4}L_{3}R_{5}g_{m}s + 2C_{4}R_{3}R_{5}g_{m}s + 2C_$

10.770 INVALID-ORDER-770 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$

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

10.771 INVALID-ORDER-771 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{(C_4R_4s + 1)\left(C_5R_5s + C_3C_4C_5L_3R_3R_4R_5g_ms^4 + 2C_3C_4C_5L_3R_3R_5s^4 + C_3C_4C_5L_3R_4R_5s^4 + 2C_3C_4L_3R_3R_5g_ms^3 + 2C_3C_4L_3R_3s^3 + 2C_3C_4L_3R_4s^3 + 2C_3C_4L_3R_4s^3 + 2C_3C_5L_3R_3R_5g_ms^3 + 2C_3C_4L_3R_3g_ms^3 + 2C_3C_4L_3R_3s^3 + 2C_3C_4L_3R_3s^$

10.772 INVALID-ORDER-772 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_3L_3R_3s^2 + L_3s + R_3\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{2C_3C_4C_5L_3R_3R_4g_ms^4 + 2C_3C_4C_5L_3R_3F_6g_ms^4 + 2C_3C_4C_5L_3R_4g_ms^3 + 2C_3C_5L_3R_3g_ms^3 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3R_5g_ms^3 + 2C_4C_5L_3R_4g_ms^3 + 2C_4C_5L_3R_4g_$

10.773 INVALID-ORDER-773 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{\left(C_4R_4s + 1\right)\left(C_3L_3R_3s^2 + L_3s + R_3\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{2C_3C_4C_5L_3L_5R_3g_ms^5 + C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3R_3g_ms^4 + 2C_3C_4L_3R_3g_ms^3 + C_3C_5L_3R_3g_ms^3 + C_3C_5L_3R$

10.774 INVALID-ORDER-774 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = -\frac{(C_4R_4s + 1)\left(C_5L_5s^2 + C_3C_4C_5L_3L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_3g_ms^4 + C_3C_4L_3R_3R_4g_ms^3 + 2C_3C_4L_3R_3s^3 + C_3C_4L_3R_3s^3 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5S^4 + C_3L_3L_5g_ms^3 + 2C_3L_3R_3g_ms^4 + C_3C_4L_3R_3g_ms^4 + 2C_3C_4L_3R_3g_ms^4 + 2C_$

10.775 INVALID-ORDER-775 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{(C_4R_5)^2}{2C_3C_4C_5L_3L_5R_3g_ms^5 + C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^4 + 2C_3C_4C_5L_3R_3s^4 + C_3C_4C_5L_3R_4s^4 + 2C_3C_4L_3R_3g_ms^3 + C_3C_4L_3R_4g_ms^3 + C_3C_5L_3R_3g_ms^3 + C_3C_5$

10.776 INVALID-ORDER-776 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ R_4 + \frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \ \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3R_5s^5 + C_3C_4C_5L_3L_5R_4R_5s^5 + 2C_3C_4L_3L_5R_3R_4g_ms^4 + 2C_3C_4L_3L_5R_3R_5g_ms^4 + 2C_3C_4L_3L_5R_3R_4g_ms^4 + 2C_3C_4L_3L_5R_4g_ms^4 + 2C_3C_4L_3L_5R$

10.777 INVALID-ORDER-777 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4L_3L_5R_4g_ms^4 + 2C_3C_4L_3R_3R_4g_ms^3 + 2C_3C_4L_3R_3R_5g_ms^3 + 2C_3C_4L_3R_5g_ms^3 + 2C_3C_4C_5L_3L_5R_5g_ms^3 + 2C_3C_4C_5L_5L_5R_5g_ms^3 + 2C_3C_4C_5L_5L_5R_5g_ms^3 + 2C_3C_4C_5L_5L_5R_5g_ms^3 + 2C_3C_5L_5R_5g_ms^3 + 2C_3C_5L_5R_5g_ms^3 + 2C_3C_5L_5R_5g_ms^3 + 2C_$

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10.778 INVALID-ORDER-778 Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)
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 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_4s^5 + 2C_3C_4C_5L_3R_3R_4s^5 + 2C_3C_4C_5L_3R_3R_5s^4 + 2C_3C_4C_5L_3R_5s^4 + 2C_3$

10.779 INVALID-ORDER-779 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, R_5, \infty\right)$

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

10.780 INVALID-ORDER-780 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$

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

10.781 INVALID-ORDER-781 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{\left(C_4L_4s^2 + 1\right)\left(C_5R_5 + C_3C_4C_5L_3L_4R_3R_5g_ms^5 + C_3C_4C_5L_3L_4R_5s^5 + 2C_3C_4L_3L_4R_3g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_3R_3R_5g_ms^3 + 2C_3C_4L_3R_3R_5g_ms^3 + 2C_3C_5L_3R_3R_5g_ms^3 + 2C_3C_5L_3R_3g_ms^3 + 2C_3C_4L_3R_3g_ms^3 + 2C$

10.782 INVALID-ORDER-782 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_3L_3R_3s^2 + L_3s + R_3\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{2C_3C_4C_5L_3L_4R_3g_ms^5 + C_3C_4C_5L_3L_4R_5g_ms^5 + C_3C_4C_5L_3R_3s^4 + 2C_3C_4C_5L_3R_3s^4 + 2C_3C_4L_3R_3g_ms^3 + 2C_3C_5L_3R_3g_ms^3 + C_3C_5L_3R_3g_ms^3 + C_3C_5L_3R_3g_ms^3 + 2C_3C_5L_3R_3g_ms^3 + 2C_3C_5L_3R_3g_m$

10.783 INVALID-ORDER-783 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{\left(C_4L_4s^2 + 1\right)\left(C_3L_3R_3s^2 + L_3s + R_3\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4g_ms^5 + C_3C_4C_5L_3L_4g_ms^5 + 2C_3C_4C_5L_3L_4g_ms^5 + 2C_3C_4L_3L_3g_ms^5 + 2C_3C_4L_$

10.784 INVALID-ORDER-784 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = -\frac{(C_4L_4s^2 + 1)(C_5L_5s^4 + 1)(C_5L_5s^$

10.785 INVALID-ORDER-785 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{(C_4L_4)}{C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_3g_ms^5 + C_3C_4C_5L_3L_4R_5g_ms^5 + C_3C_4C_5L_3L_4S^5 + 2C_3C_4C_5L_3R_3g_ms^5 + 2C_3C_4C_5L_3R_3g_ms^4 + 2C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_3R_3g_ms^3 + C_3C_5L_3R_3g_ms^3 + C$

10.786 INVALID-ORDER-786 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + C_3C_4C_5L_3L_4L_5R_5s^6 + 2C_3C_4C_5L_3L_5R_3R_5s^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + C_3C_4L_3L_4L_5s^5 + 2C_3C_4L_3L_4L_5s^5 + 2C_3C_4L_3L_5s^5 + 2C_3C_4L_5L_5s^5 + 2$

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10.787 INVALID-ORDER-787 Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ L_4s + \frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)
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 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_5g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4L_3L_4R_3g_ms^5 + 2C_3C_4L_3L_4R_3g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_3L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms^4 + 2C_3C_4L_5L_5R_5g_ms$

10.788 INVALID-ORDER-788
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_4R_3g_ms^5 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3L_4R_3g_ms^4 + C_3C_4L_3L_4R_3g_ms^4 + C_3C_4L_3$

10.789 INVALID-ORDER-789
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1}, R_5, \infty\right)$$

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

10.790 INVALID-ORDER-790
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right)$$

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

10.791 INVALID-ORDER-791
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

10.792 INVALID-ORDER-792
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

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

10.793 INVALID-ORDER-793
$$Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{L_{4s}}{C_4L_4s^2+1}, L_5s + \frac{1}{C_5s}, \infty\right)$$

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

10.794 INVALID-ORDER-794
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

 $H(s) = -\frac{L_4 s \left(C_5 L_5 s^2 - L_5 g_m s + 1\right) \left(C_3 L_3 R_3 s^2 + 2 C_3 C_4 L_3 L_4 L_5 R_3 g_m s^5 + 2 C_3 C_4 L_3 L_4 L_5 R_3 g_m s^5 + 2 C_3 C_5 L_3 L_4 L_5 R_3 g_m s^5 + 2 C_3 C_5 L_3 L_4 L_5 g_m s^4 + 2 C_3 L_3 L_4 R_3 g_m s^3 + 2 C_3 L_$

10.795 INVALID-ORDER-795
$$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3g_ms^4 + C_3C_5L_3L_4R_3g_ms^4 + C_3C_5L_3L_4R_3g_ms^4$

- 10.796 INVALID-ORDER-796 $Z(s) = \left(\infty, \infty, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1} + R_{3}, \frac{L_{4}s}{C_{4}L_{4}s^{2}+1}, \frac{L_{5}R_{5}s}{C_{5}L_{5}R_{5}s^{2}+L_{5}s+R_{5}}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5s^6 + 2C_3C_4L_3L_4L_5R_3R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_3s^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_5R_3g_ms^5 + 2C_3C_5L_3L_$
- 10.797 INVALID-ORDER-797 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5s}{C_5L_5s^2+1} + R_5, \ \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_4L_3L_4R_3R_5g_ms^4 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_5R_3g_ms^5 + 2C_3C_5L_3L$
- 10.798 INVALID-ORDER-798 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{L_{4s}}{C_4L_4s^2+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + 2C_3C_4C_5L_3L_4R_3R_5s^5 + 2C_3C_4L_3L_4R_3R_5g_ms^4 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4R_3R_5g_ms^5 + C_3C_5L_3L_4R_3R_5g_ms$
- 10.799 INVALID-ORDER-799 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, R_5, \infty\right)$
- $H(s) = \frac{\left(R_{5}g_{m} 1\right)\left(C_{4}L_{4}s^{2} + C_{4}R_{4}s + 1\right)\left(C_{3}L_{3}R_{3}s^{2} + L_{3}s + R_{3}\right)}{2C_{3}C_{4}L_{3}L_{4}R_{5}g_{m}s^{4} + C_{3}C_{4}L_{3}L_{4}S_{5}g_{m}s^{3} + 2C_{3}C_{4}L_{3}R_{3}g_{m}s^{3} + 2C_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{3}L_{4}R_{5}g_{m}s^{3} + 2C_{4}L_{3}R_{4}g_{m}s^{3} + 2C_{4}L_{3}R_{4}g_{m}s^{3} + 2C_{4}L_{3}R_{4}g_{m}s^{3} + 2C_{4}L_{3}R_{5}g_{m}s^{2} + C_{3}L_{3}S_{5}g_{m}s^{2} + C_{3}L_{3}S_{5}g_{m}s^{2} + 2C_{4}L_{3}R_{4}g_{m}s^{3} + 2C_{4}L_{3}R_{5}g_{m}s^{2} + 2$
- 10.800 INVALID-ORDER-800 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$
- $H(s) = -\frac{\left(C_{5}s g_{m}\right)\left(C_{4}L_{4}s^{2} + C_{4}R_{4}s + 1\right)\left(C_{3}L_{3}R_{3}s^{2} + L_{3}s + R_{3}\right)}{2C_{3}C_{4}C_{5}L_{3}L_{4}R_{3}g_{m}s^{5} + C_{3}C_{4}C_{5}L_{3}R_{3}g_{m}s^{4} + 2C_{3}C_{4}C_{5}L_{3}R_{3}g_{m}s^{4} + 2C_{3}C_{4}L_{3}R_{3}g_{m}s^{3} + C_{3}C_{4}L_{3}R_{3}g_{m}s^{3} + C_{3}C_{5}L_{3}R_{3}g_{m}s^{3} +$
- 10.801 INVALID-ORDER-801 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + C_3C_4C_5L_3L_4R_5s^5 + 2C_3C_4C_5L_3R_3R_4R_5g_ms^4 + 2C_3C_4C_5L_3R_4R_5s^4 + 2C_3C_4L_3L_4R_5g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + C_3C_4L_3L_4R_5g_ms^4 + 2C_3C_4L_3R_3R_4g_ms^3 + 2C_3C_4L_3R_3R_5g_ms^3 + 2C_3C_4C_5L_3R_3R_5g_ms^3 + 2C_3C_4C_5L_3R_3R_5g_ms^3 + 2C_3C_4C_5L_3R_3$
- 10.802 INVALID-ORDER-802 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_3g_ms^5 + C_3C_4C_5L_3L_4R_5g_ms^5 + C_3C_4C_5L_3L_4s^5 + 2C_3C_4C_5L_3R_3R_4g_ms^4 + 2C_3C_4C_5L_3R_3s^4 + C_3C_4C_5L_3R_4s^4 + C_3C_4C_5L_3R_4s$
- **10.803** INVALID-ORDER-803 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_3g_ms^5 + C_3C_4C_5L_3L_4s^5 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^4 + 2C_3C_4C_5L_3R_3s^4 + C_3C_4L_3L_4g_ms^4 + 2C_3C_4L_3R_3g_ms^3 + C_3C_4L_3R_3g_ms^3 + C_3C_4L_$
- 10.804 INVALID-ORDER-804 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + C_3C_4L_3L_4L_5g_ms^5 + 2C_3C_4L_3L_4R_3g_ms^4 + C_3C_4L_3L_4R_3g_ms^4 + C_3C_4L_3L_5R_3g_ms^4 + C_3C_4L_3L_5R_3g_ms^4 + 2C_3C_4L_3L_5R_3g_ms^4 + 2C$

- 10.805 INVALID-ORDER-805 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_3g_ms^5 + C_3C_4C_5L_3L_4R_5g_ms^5 + C_3C_4C_5L_3L_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^4 + 2C_3C_4C_5L_3R_3R_5g_ms^4 + 2C_3C_4C_5L_3R_3R_5g_ms^4 + 2C_3C_4C_5L_3R_4R_5g_ms^4 + 2C_3C_4C_5L_3R_5R_5g_ms^4 + 2C_3C_5C_5R_5g_ms^4 + 2C_3C_5C_5R_5g_ms^2 + 2C_3C_5C_5R_5g_ms^2 + 2C_3C_5C_5R_5g_ms^2 + 2C_3C_5C_5R_5g_ms^2 + 2C_3C_5C_5R_5g_ms^2 +$
- **10.806** INVALID-ORDER-806 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + C_3C_4C_5L_3L_4L_5R_5s^6 + 2C_3C_4C_5L_3L_5R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3R_5s^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_4L_3L_5R_3g_ms^5 + 2C_3C_4L_5L_3L_5R_3g_ms^5 + 2C_3C_4L_5L_3L_5R_3g_ms^5 + 2C_3C_4L_5L_5R_3g_ms^5 + 2C_3C_4L_5L_5R_3g_ms^5 + 2C_3C_4L_5L_5$
- 10.807 INVALID-ORDER-807 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_5g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + 2C_3C_4C_5L_3L_5$
- 10.808 INVALID-ORDER-808 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_4R_3g_ms^5 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3L_5R$
- 10.809 INVALID-ORDER-809 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5, \infty\right)$
- $H(s) = \frac{L_4 R_4 s \left(R_5 g_m 1\right) \left(C_3 L_3 R_3 s^2 + L_3 s + R_3\right)}{2 C_3 C_4 L_3 L_4 R_3 R_4 g_m s^4 + 2 C_3 L_4 L_4 R_3 R_4 g_m s^3 + 2 C_3 L_3 L_4 R_3 g_m s^3 + 2 C_3 L_3 L_4 R_3 g_m s^3 + 2 C_3 L_3 L_4 R_3 g_m s^3 + 2 C_4 L_3 L_4 R_4 g_m s^3 + 2 C_4 L_3 L_4 R_4 g_m s^3 + 2 C_4 L_4 L_4 R_3 g_m s^3 + 2 C_4 L_4 g_m s^3 + 2 C_4$
- 10.810 INVALID-ORDER-810 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{1}{C_5s}, \infty\right)$
- 10.811 INVALID-ORDER-811 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_3R_4R_5s^5 + 2C_3C_4L_3L_4R_3R_4R_5g_ms^4 + 2C_3C_5L_3L_4R_3R_4s^4 + 2C_3C_5L_3L_4R_3R_5s^4 + 2C_3C_5L_3L_4R_3R_5$
- 10.812 INVALID-ORDER-812 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_4s^5 + 2C_3C_4L_3L_4R_3R_4g_ms^4 + 2C_3C_5L_3L_4R_3R_5g_ms^4 + 2C_3C_5L_3L_4R_3s^4 +$
- 10.813 INVALID-ORDER-813 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4s^5 + 2C_3C_4L_3L_4R_3R_4g_ms^4 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_4R_3R_4g_ms^4 + 2C_3C_5L_3L_4R_3s^4 + 2C_3C_5L_3L_4R_3$

- 10.814 INVALID-ORDER-814 $Z(s) = \left(\infty, \ \infty, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right)$
- 10.815 INVALID-ORDER-815 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4L_3L_4R_3R_4g_ms^4 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_4R_3R_4g_ms^4 + 2C_3C_5$
- 10.816 INVALID-ORDER-816 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$
- 10.817 INVALID-ORDER-817 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$
- 10.818 INVALID-ORDER-818 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$
- **10.819** INVALID-ORDER-819 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, R_5, \infty\right)$
- $H(s) = \frac{(R_5g_m 1)\left(C_3L_3R_3s^2 + L_3s + R_5g_ms^4 + 2C_3C_4L_3L_4R_3R_5g_ms^4 + 2C_3C_4L_3L_4R_3s^4 + C_3C_4L_3L_4R_3g_ms^3 + C_3L_3L_4R_3g_ms^3 + C_3L_3L_4R_3g_ms^3 + C_3L_3L_4R_3g_ms^3 + C_3L_3R_3R_3g_ms^2 + 2C_3L_3R_3R_5g_ms^2 + 2C_3L_3R_3s^2 + C_3L_3R_3s^2 + C_3L_3$
- 10.820 INVALID-ORDER-820 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{L_{4s}}{C_4L_4s^2+1} + R_4, \frac{1}{C_5s}, \infty\right)$
- $H(s) = -\frac{(C_5 s g_m)(C_3 C_4 c_5 L_3 L_4 R_3 R_4 g_m s^5 + 2 C_3 C_4 C_5 L_3 L_4 R_3 s^5 + C_3 C_4 C_5 L_3 L_4 R_3 g_m s^4 + C_3 C_5 L_3 L_4 R_3 g_m s^4 + C_3 C_5 L_3 L_4 R_3 g_m s^4 + C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_4 s^3 + C_3 L_4 R_3 g_m s^4 + C_3 C_5 L_3 L_4 R_3 g_m s^4 + C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_4 s^3 + C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_5 L_3 R_5 g_m s^3 + 2 C_5 L_5 R_$
- 10.821 INVALID-ORDER-821 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5s^5 + C_3C_4C_5L_3L_4R_3R_5s^5 + 2C_3C_4L_3L_4R_3R_5g_ms^4 + 2C_3C_4L_3L_4R_3s^4 +$
- 10.822 INVALID-ORDER-822 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4L_3L_4R_3g_ms^4 + C_3C_5L_3L_4R_3g_ms^4 + C_3C_5L_3L_4R_3g_ms^4$

- 10.823 INVALID-ORDER-823 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3g_ms^4 + C_3C_4L_3L_4R_3g_ms^4 + C_3C_5L_3L_4R_3g_ms^4 + C_3C_5L_3L_4R_3g$
- 10.824 INVALID-ORDER-824 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$
- 10.825 INVALID-ORDER-825 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_4s^5 + 2C_3C_4L_3L_4R_3g_ms^4 + 2C_3C_4L_3L_4R_4g_ms^4 + 2C_3C_4L_3L_4R_3g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_$
- 10.826 INVALID-ORDER-826 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$
- 10.827 INVALID-ORDER-827 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{L_{4s}}{C_4L_4s^2+1} + R_4, \frac{L_{5s}}{C_5L_5s^2+1} + R_5, \infty\right)$
- 10.828 INVALID-ORDER-828 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + 2C_3C_4C_5L_3L_4L_5R_4s^6 + 2C_3C_4C_5L_3L_4R_3R_4s^6 + 2C_3C_4C_$
- 10.829 INVALID-ORDER-829 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$
- $H(s) = \frac{R_4 \left(R_5 g_m 1 \right) \left(C_4 L_4 R_5 g_m s^2 + 2 C_3 C_4 L_3 L_4 R_3 R_5 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_3 R_5 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_3 R_5 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_4 R_5 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_4 R_5 g_m s^3 + 2 C_3 L_4 R_3 R_4 g_m s^3 + 2 C_3 L_4 R_3 R_4 g_m s^3 + 2 C_3 L_4 R_3 R_4 g_m s^3 + 2 C_3 L_3 R_3 R_5 g_m s^2 + 2 C_3 L_3 R_4 R_5 g_m s^2 + 2 C_3 L_3 R_5 g_m s^$
- 10.830 INVALID-ORDER-830 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$
- $H(s) = -\frac{R_4 \left(C_5 s C_5 C_4 C_5 L_3 L_4 R_3 R_4 g_m s^5 + 2 C_3 C_4 C_5 L_3 L_4 R_3 s^5 + 2 C_3 C_4 C_5 L_3 L_4 R_4 s^5 + 2 C_3 C_4 L_5 L_3 R_4 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_4 g_m s^4 + 2 C_3 C_4 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 s^3 + 2 C_3 C_5 L_3 R_3 s^3 + 2 C_3 C_5 L_3 R_3 s^3 + 2 C_3 C_5 L_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + 2 C_5 L_3 R_5 g_m s^3 + 2 C_5 L_3 R_5 g_m s^3 + 2 C_5 L_5 R_5$
- 10.831 INVALID-ORDER-831 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_3R_4R_5q_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5s^5 + C_3C_4C_5L_3L_4R_4R_5s^5 + 2C_3C_4C_5L_3R_3R_4R_5s^4 + 2C_3C_4L_3L_4R_3R_4q_ms^4 + 2C_3C_4L_3L_4R_3s^4 + C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3L_4R_3s^4 + 2C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3L_4R_3s^4 + 2C_3C_4L_3L_4R_3s^4 + 2C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3L_4R_4s$

- 10.832 INVALID-ORDER-832 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_4s^5 + 2C_3C_4C_5L_3L_4R_4s^5 + 2C_3C_4C_5L_3R_3R_4s^4 + 2C_3C_4L_3L_4R_3g_ms^4 + 2C_3C_4L_3L_4R_3g_ms$
- 10.833 INVALID-ORDER-833 $Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_3g_ms^5 + 2C_3C_4L_3L_4R_3g_ms^5 + 2C_3C_4L_3L_$
- 10.834 INVALID-ORDER-834 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_{5s}}{C_5L_5s^2+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + C_3C_4C_5L_3L_4L_5R_4s^6 + 2C_3C_4C_5L_3L_4L_5R_3g_ms^5 + C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_4L_3L_4R_3R_4g_ms^5 + 2C_3C_4L$
- 10.835 INVALID-ORDER-835 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_4g_ms^5 + 2C_3C_4C_$
- 10.836 INVALID-ORDER-836 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3R_5s^6 + 2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^5 + 2C_3C_4L_3L_4L_5R_3R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_5L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5$
- 10.837 INVALID-ORDER-837 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_{5s}}{C_5L_5s^2+1} + R_5, \infty\right)$
- 10.838 INVALID-ORDER-838 $Z(s) = \left(\infty, \infty, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + C_3C_4C_5L_3L_4L_5R_4s^6 + 2C_3C_4C_5L_3L_4R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_4s^6 + 2C_3C_4C_5L_3L_4C_5L_3L_4C_5L_3L_4C_5L_3L_4C_5L_3L_4C_$
- 10.839 INVALID-ORDER-839 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4, \frac{1}{C_5s}, \infty\right)$
 - $H(s) = -\frac{R_3 R_4 \left(C_5 s g_m\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 C_5 L_3 R_3 R_4 g_m s^3 + 2 C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_4 s^3 + C_3 C_5 R_3 R_4 s^2 + 2 C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_4 g_m s^2 + C_3 R_3 R_4 g_m s + 2 C_5 R_3 R_4 g_m s + 2 C_5 R_3 s + C_5 R_4 s + 2 R_3 g_m + R_4 g_m r^2 + 2 C_5 R_3 R_4 r^2 + 2 C_5 R_5 r^2 + 2$
- 10.840 INVALID-ORDER-840 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5R_5s R_5g_m + 1\right)}{2C_3C_5L_3R_3R_4R_5g_ms^3 + 2C_3C_5L_3R_3R_5s^3 + C_3C_5L_3R_4R_5s^3 + C_3C_5R_3R_4R_5s^2 + 2C_3L_3R_3R_5g_ms^2 + 2C_3L_3R_3R_5g_ms^2 + 2C_3L_3R_4R_5g_ms^2 + C_3L_3R_4R_5g_ms + C_5R_3R_4R_5g_ms + 2C_5R_3R_4R_5g_ms + 2C_5R_3R_5g_ms + 2C_5R_3R_5g_ms + 2C_5R_3R_5g_ms + 2C_5R_5R_5g_ms + 2C$

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H(s) = \frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_4g_ms^4 + 2C_3C_5L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3s^3 + C_3C_5L_3R_4s^3 + C_3C_5L_3R_4g_ms^3 + C_3C_5R_3R_4g_ms^2 + C_3L_3R_4g_ms^2 + C_3L_3R_4g_ms^2 + C_5L_5R_3g_ms^2 + C_5L_5R_3g_ms
10.843 INVALID-ORDER-843 Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = -\frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{2C_3C_5L_3L_5R_3R_4g_ms^4 + 2C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_3g_ms^3 + C_3L_3L_5R_3g_ms^3 + C_3L_3L_5R_3g_ms^3 + 2C_3L_3R_3s^2 + C_3L_3R_3s^2 + C_3L_3R_3s^2 + C_3L_5R_3R_4g_ms^2 + 2C_5L_5R_3s^2 + C_5L_5R_3s^2 
10.844 INVALID-ORDER-844 Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
H(s) = \frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m\right)}{2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_4g_ms^3 + 2C_3C_5L_3R_3R_5g_ms^3 + 2C_3C_5L_3R_4s^3 + C_3C_5L_3R_4s^3 + C_3C_5
10.845 INVALID-ORDER-845 Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R_3R_4(C_3L_3s^2+1)(C_5L_5R_5s^2-L_5R_5g_ms+L_5s+R_5)
                                                   \frac{2C_3C_5L_3L_5R_3R_4R_5g_ms^4 + 2C_3C_5L_3L_5R_3R_5s^4 + C_3C_5L_3L_5R_3R_4R_5s^3 + 2C_3L_3L_5R_3R_4g_ms^3 + 2C_3L_3L_5R_3s^3 + C_3L_3L_5R_3s^3 + C_3L_3L
10.846 INVALID-ORDER-846 Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
H(s) = \frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5L_5R_5g_ms^2 - C_5L_5s^2 + L_5g_ms^2 - C_5L_5s^2 + L_5g_ms^3 + C_3C_5L_3L_5R_3g_ms^3 + 
10.847 INVALID-ORDER-847 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, R_4, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                                    -\frac{1}{2C_{3}C_{5}L_{3}L_{5}R_{3}R_{4}g_{m}s^{4}+2C_{3}C_{5}L_{3}L_{5}R_{3}R_{5}g_{m}s^{4}+2C_{3}C_{5}L_{3}L_{5}R_{3}s^{4}+C_{3}C_{5}L_{3}L_{5}R_{4}s^{4}+2C_{3}C_{5}L_{3}L_{5}R_{4}s^{4}+2C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+2C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+2C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+2C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4}R_{5}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{4
10.848 INVALID-ORDER-848 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, R_5, \infty\right)
                                                                                                                                                                                                                                                                10.849 INVALID-ORDER-849 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             115
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 $R_3R_4\left(C_3L_3s^2+1\right)\left(C_5R_5g_ms-C_5s+g_m\right)$

 $H(s) = \frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{2C_3C_5L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3s^3 + C_3C_5L_3R_4s^3 + C_3C_5L_3R_4s^3 + C_3C_5R_3R_4s^2 + 2C_3L_3R_3g_ms^2 + C_3L_3R_4g_ms^2 + C_3L_3R_4g_ms + 2C_5R_3R_4g_ms + 2C_5R_3R_4g_m$

10.841 INVALID-ORDER-841 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4, R_5 + \frac{1}{C_5s}, \infty\right)$

10.842 INVALID-ORDER-842 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4, L_5s+\frac{1}{C_5s}, \infty\right)$

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H(s) = -\frac{R_3 \left(C_3 L_3 s^2 + 1\right) \left(C_5 R_5 s - R_5 g_m + 1\right)}{2 C_3 C_4 C_5 L_3 R_3 R_5 s^4 + 2 C_3 C_4 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_4 L_3 R_3 s^3 + 2 C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 R_3 R_5 s^2 + 2 C_3 L_3 R_5 g_m s^2 + C_3 L_3 R_5 g_m s + C_3 R_3 R_5 g_m s + C_4 R_3 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_3 R_5 g_m s + C_5 R_5 R_5 g_m s + C_5 R_5 R_5 g_m s + C_5 R
10.851 INVALID-ORDER-851 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{R_3 \left(C_3 L_3 s^2 + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_3 C_4 C_5 L_3 R_3 R_5 g_m s^4 + 2 C_3 C_4 L_5 R_3 g_m s^3 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 g_m s^2 + C_3 C_5 R_3 g_m s^2 + C_3 C_5 R_3 g_m s^2 + 2 C_4 C_5 R_3 g_m s + 2 C_5 R_3 g_m s + 2 C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 
10.852 INVALID-ORDER-852 Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, L_5s+\frac{1}{C_5s}, \infty\right)
10.853 INVALID-ORDER-853 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                              10.854 INVALID-ORDER-854 Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
                                       \frac{R_{3}\left(C_{3}L_{3}s^{2}+1\right)\left(C_{5}L_{5}g_{m}s^{2}+C_{5}R_{5}g_{m}s-C_{5}s+g_{m}\right)}{2C_{3}C_{4}C_{5}L_{3}L_{5}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{3}R_{3}g_{m}s^{5}+2C_{3}C_{4}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}g_{m}s^{3}+C_{3}C_{5}L_{3}R_{3}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R_3 \left( C_3 L_3 s^2 + 1 \right) \left( C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m \right)
10.855 INVALID-ORDER-855 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                             -\frac{R_3 \left(C_3 L_3 s^2+1\right) \left(C_5 L_5 R_5 s^2-L_5 R_5 g_m s+L_5 s+R_5\right)}{2 C_3 C_4 C_5 L_3 L_5 R_3 R_5 s^5+2 C_3 C_4 L_3 L_5 R_3 R_5 g_m s^4+2 C_3 L_5 R_3 R_5 g_m s^4+2 C_3 L_5 R_3 R_5 g_m s^4+2 C_3 L_5 R_5 g_m s^4+2 C_5 
10.856 INVALID-ORDER-856 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
H(s) = \frac{R_3 \left( C_3 L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_4 L_5 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 R_3 g_m s^4 + 2 C_3 C_4 
10.857 INVALID-ORDER-857 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                             \overline{2C_3C_4C_5L_3L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + 2C_3C_4C_5L_3R_3R_5s^4 + 2C_3C_4L_3R_3R_5g_ms^3 + 2C_3C_4L_3R_3s^3 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5s^4 + 2C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_5s^3 + C_3C_5L_3R_5s^3 + C_3C_5L_3R_3s^3 + C_3C_5L_3R_3s
10.858 INVALID-ORDER-858 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5, \infty\right)
                             H(s) = \frac{R_3R_4\left(R_5g_m - 1\right)\left(C_3L_3s^2 + 1\right)}{2C_3C_4L_3R_3R_4R_5g_ms^3 + 2C_3C_4L_3R_3R_4s^3 + 2C_3L_3R_3R_4g_ms^2 + 2C_3L_3R_3s^2 + C_3L_3R_4s^2 + C_3L_3R_4s^2 + C_3L_3R_4s^2 + C_3R_3R_4s + 2C_4R_3R_4s + 2C_4R_3R_4s + 2R_3R_4g_m + 2R_3R_5g_m + 2R_3R_4s + 2R_3R_4g_m + 2R_3R_5g_m + 2R_3
```

10.850 INVALID-ORDER-850 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

```
10.859 INVALID-ORDER-859 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)
```

 $H(s) = -\frac{R_3R_4\left(C_5s - g_m\right)\left(C_3L_3s^2 + 1\right)}{2C_3C_4C_5L_3R_3R_4s^4 + 2C_3C_4L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3s^3 + C_3C_5L_3R_4s^3 + C_3C_5R_3R_4s^2 + 2C_3L_3R_3g_ms^2 + C_3R_3R_4g_ms + 2C_4C_5R_3R_4s^2 + 2C_4R_3R_4g_ms + 2C_5R_3R_4g_ms + 2C_5R_3s + C_5R_4s + 2R_3g_m + R_4g_ms^2\right)}$

10.860 INVALID-ORDER-860
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

 $H(s) = -\frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5R_5s - R_5g_m + 1\right)}{2C_3C_4C_5L_3R_3R_4R_5s^4 + 2C_3C_4L_3R_3R_4R_5g_ms^3 + 2C_3C_5L_3R_3R_4S^3 + 2C_3C_5L_3R_3R_5S^3 + 2C_3C_5L_3R_3R_5S^3 + 2C_3C_5L_3R_3R_5S^3 + 2C_3C_5L_3R_3R_5S^3 + 2C_3C_5L_3R_3R_5S^3 + 2C_3C_5L_3R_3R_5S^3 + 2C_3C_5L_3R_3R_$

10.861 INVALID-ORDER-861
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5R_5g_ms - C_5s + g_m\right)}{2C_3C_4C_5L_3R_3R_4R_5g_ms^4 + 2C_3C_4L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_4R_5g_ms^3 + C_3C_5L_3R_4R_5g_ms^3 + C_3C_5R_3R_4R_5g_ms^3 + 2C_3C_5R_3R_4g_ms^2 + C_3R_3R_4g_ms^2 + C_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3R_4g_ms^$

10.862 INVALID-ORDER-862
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, L_5s+\frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5L_5g_ms^2 - C_5s + g_m\right)}{2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4L_3R_3R_4g_ms^3 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_3g_ms^4 + 2C_3C_5L_3R_3g_ms^4 + 2C_3C_5L_3R_$

10.863 INVALID-ORDER-863
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

 $H(s) = -\frac{R_3R_4\left(C_3L_3s^2 + 1\right)\left(C_5L_5s^2 - L_5g_ms + 1\right)}{2C_3C_4C_5L_3L_5R_3R_4s^5 + 2C_3C_4L_3L_5R_3R_4g_ms^4 + 2C_3C_5L_3L_5R_3R_4g_ms^4 + 2C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_3g_ms^3 + C_3L_3L_5R_3g_ms^3 + C_3L$

10.864 INVALID-ORDER-864
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, L_5s+R_5+\frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_3R_4 \left(C_3L_3s^2 + C_3C_4C_5L_3L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4R_5g_ms^4 + 2C_3C_4L_3R_3R_4g_ms^3 + 2C_3C_5L_3R_3R_4g_ms^4 + 2C_3C_5L_3R_3R_4g_ms^4 + 2C_3C_5L_3R_3R_4g_ms^4 + 2C_3C_5L_3R_3R_4g_ms^3 + 2C$

10.865 INVALID-ORDER-865
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_3R_4R_5s^5 + 2C_3C_4L_3L_5R_3R_4R_5g_ms^4 + 2C_3C_4L_3R_3R_4s^4 + 2C_3C_4L_3R_3R_4R_5s^3 + 2C_3C_5L_3L_5R_3R_4R_5g_ms^4 + 2C_3C_5L_3L_5R_3R_4R_5s^4 + C_3C_5L_3L_5R_3R_4R_5s^4 + C_3C_5L_3L_5R_3R_4R_5s^4 + 2C_3L_3L_5R_3R_4R_5s^3 + 2C_3L_3L_5R_3R_4R_5s^4 + 2C_3C_4L_3L_5R_3R_4R_5s^4 + 2C_3C_4L_3R_3R_4R_5s^4 + 2C_3C_4L_3R_3R_4R_5s$

10.866 INVALID-ORDER-866
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_5R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3R_4s^5 + 2C_3C_4L_3L_5R_3R_4g_ms^4 + 2C_3C_5L_3L_5R_3R_4g_ms^4 + 2C_3C_5L_3L_5R_4g_ms^4 + 2C_3C_5L_3L_5R_4g_ms^4 + 2C_3C_5L_3L_5R_4g_ms^4 + 2C_3C_5L_3L_5R_4g_ms^4 + 2C_3C_5L_3L_5R_5R_5g_ms^4 + 2C_3C_5L_5R_5R_5g_ms^4 + 2C_3C_5L_5R_5g_ms^4 + 2C_3C_5L_5R_5g_ms^4 + 2C_3C_5L_$

10.867 INVALID-ORDER-867
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4}{C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3R_4s^5 + 2C_3C_4C_5L_3R_3R_4R_5s^4 + 2C_3C_4L_3R_3R_4R_5g_ms^3 + 2C_3C_4L_3R_3R_4s^3 + 2C_3C_5L_3L_5R_3R_4g_ms^4 + 2C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_$

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10.868 INVALID-ORDER-868 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5, \infty\right)
```

 $H(s) = \frac{R_3 \left(R_5 g_m - 1\right) \left(C_3 L_3 s^2 + 1\right) \left(C_4 R_4 s + 1\right)}{2 C_3 C_4 L_3 R_3 R_4 g_m s^3 + 2 C_3 C_4 L_3 R_3 s^3 + C_3 C_4 L_3 R_4 s^3 + C_3 C_4 L_3 R_4 s^3 + C_3 C_4 R_3 R_4 s^2 + 2 C_3 L_3 R_5 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 R_5 g_m s + C_4 R_3 R_4 g_m s + 2 C_4 R_3 R_4 g_m s + 2 C_4 R_3 R_5 g_m s + 2 C_4 R_5 R_5 g_m s + 2 C_4 R_$

10.869 INVALID-ORDER-869 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$

10.870 INVALID-ORDER-870 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $\frac{R_3 \left(C_3 L_{3} R_{4} R_{5} g_{m} s^4 + 2 C_3 C_4 C_5 L_3 R_3 R_5 s^4 + C_3 C_4 C_5 L_3 R_4 R_5 s^4 + C_3 C_4 C_5 R_3 R_4 R_5 s^3 + 2 C_3 C_4 L_3 R_3 R_5 g_{m} s^3 + 2 C_3 C_4 L_3 R_4 R_5 g_{m} s^3 + C_3 C_4 L_3 R_4 R$

10.871 INVALID-ORDER-871 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $R_3 (C_3 L_3 s^2 + 1) (C_4 R_4 s + 1) (C_5 R_5 g_m s - C_5 s + g_m s)$

10.872 INVALID-ORDER-872 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $R_3 \left(C_3 L_3 s^2 + 1 \right) \left(C_4 R_4 s + 1 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_m s^2 \right)$ $\frac{n_3 \left(\cup_3 L_3 s + 1 \right) \left(\cup_4 R_4 s + 1 \right) \left(\cup_5 L_5 g_m s - \cup_5 s + g_m s - 0 + g_m s - g_m s -$

10.873 INVALID-ORDER-873 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $\frac{R_3 \left(C_3 L_3 s^2 + 1\right) \left(C_4 L_3 L_5 R_3 R_4 g_m s^5 + 2 C_3 C_4 C_5 L_3 L_5 R_3 s^5 + C_3 C_4 C_5 L_3 L_5 R_4 s^5 + C_3 C_4 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_4 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 R_3 s^3 + 2 C_3 C_4 L_3 R_4 s^3 + C_3 C_4 L_5 R_3 R_4 g_m s^3 + C_3 C_4 L_3 R_4 s^3 +$

10.874 INVALID-ORDER-874 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_5R_3g_ms^5 + C_3C_4C_5L_3L_5R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^4 + 2C_3C_4C_5L_3R_3R_5g_ms^4 + 2C_3C_4C_5L_3R_4R_5g_ms^4 + C_3C_4C_5L_3R_4R_5g_ms^4 + C_3C_4C_5L_3R_5R_5g_ms^4 + C_3C_4C_5L_3R_5g_ms^4 + C_3C_4C_5L_3R_5R_5g_ms^4 + C_3C_4C_5L_3R_5g_ms^4 + C_3C_4$

10.875 INVALID-ORDER-875 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

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

10.876 INVALID-ORDER-876 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

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10.877 INVALID-ORDER-877 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, R_4 + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
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 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_4s^5 + 2C_3C_4C_5L_3L_5R_4s^5 + 2C_3C_4C_5L_3R_3R_4s^5 + 2C_3C_4C_5L_3R_4s^5 + 2C_3C_4C_5L_3R_4s^5 + 2C_3C_4C_5L_3R_4s^5 + 2C_3C_4C_5L_3R_4s^5 + 2C_3C_4C_5L_3R_4s^5 + 2C_3C_4C_5L_3R_4s^5 + 2C_3C_4C_5L_3R_3R_4s^5 + 2C_3C_4C_5L_3R_4s^5 + 2C_3C_4C_5L_3R_5c^5 + 2C_3C_4C_5L_3C_5C_5C_5C_5C_5C_5C_$

10.878 INVALID-ORDER-878
$$Z(s) = \left(\infty, \ \infty, \ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \ L_4s + \frac{1}{C_4s}, \ R_5, \ \infty\right)$$

 $H(s) = \frac{R_3 \left(R_5 g_m - 1 \right) \left(C_3 L_3 s^2 + 1 \right) \left(C_4 L_4 s^2 + 1 \right)}{2 C_3 C_4 L_3 L_4 R_3 g_m s^4 + C_3 C_4 L_3 L_4 R_5 g_m s^4 + C_3 C_4 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_4 L_4 R_3 R_5 g_m s^3 + C_3 C_4 L_4 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_4 L_4 R_5 g_$

10.879 INVALID-ORDER-879
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$$

10.880 INVALID-ORDER-880
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

10.881 INVALID-ORDER-881
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$$

10.882 INVALID-ORDER-882
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_3 \left(C_3 L_3 s^2 + 1 \right) \left(C_4 L_4 s^2 + 1 \right) \left(C_5 L_5 g_m s^2 - C_5 s + g_r L_5 L_4 L_5 g_m s^2 + 2 C_3 C_4 C_5 L_3 L_4 R_3 g_m s^3 + C_3 C_4 L_5 L_3 L_4 R_3 g_m s^5 + C_3 C_4 C_5 L_3 L_4 R_3 g_m s^5 + C_3 C_4 L_5 L_3 R_3 g_m s^5 + C_3 C_4 L_5 L_3 R_3 g_m s^5 + C_3 C_4 L_5 L_4 R_3 g_m s^5 + C_3 C_4 L_5 L_5 R_3 g_m s^5 + C_3 C_5 L_5 R_3 g_m s^5 + C_3 C_5 L_5 R_5 g_m s^5 + C_5 C_5 L_5 R_5 g_m s^5$

10.883 INVALID-ORDER-883
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

 $H(s) = -\frac{R_3 \left(C_3 L_3 s^2 + 1 \right) \left(C_4 L_4 L_5 R_3 g_m s^6 + C_3 C_4 C_5 L_3 L_4 L_5 s^6 + 2 C_3 C_4 C_5 L_3 L_4 L_5 R_3 s^5 + C_3 C_4 L_5 L_4 L_5 R_3 s^5 + 2 C_3 C_4 L_3 L_4 L_5 g_m s^5 + 2 C_3 C_4 L_3 L_4 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_3 g_m s^4 + 2 C_3 C_4 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_4 L_4 L_5 R_3 g_m s^4 + C_3 C_4 L_5 L_5 R_3 g_m s^4 + C_3 C_5 L_5 L_5 R_3 g_m s^4 + C_3 C_5 L_5 L_5 R_5 g_m s^4 + C_5 C_5 L_5 L_5 R_5 g_m s^4 + C_5 C_5 L_5 L_5 R_5 g_m s^5 + C_5 C_5 L_5 L_5 R_5 g_m s^5 + C_5 C_5 L_5 L_5 R_5 g_m s^5 + C_5 C_5 L_5 R_5 g_m s^5 + C_5$

10.884 INVALID-ORDER-884
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

10.885 INVALID-ORDER-885
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + C_3C_4C_5L_3L_4L_5R_5s^6 + 2C_3C_4C_5L_3L_5R_3R_5s^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + C_3C_4L_3L_4L_5R_3g_ms^5 + C_3C_4L_3L_5R_3g_ms^5 + C_3C_4L_3L_5R_3g_ms^5 + C_3C_4L_5L_5R_3g_ms^5 + C_3C_4L_5L_5R_3g_ms^5 + C_3C_4L_5L_5R_3g_ms^5 + C_3C_4L_5L_5R_3g_ms^5 + C_3C_4L_5L_5R_3$

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10.886 INVALID-ORDER-886 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)
10.887 INVALID-ORDER-887 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, L_4s + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
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 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_5g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + 2C_3C_4C_5L_3L_$

10.888 INVALID-ORDER-888
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, R_5, \infty\right)$$

10.889 INVALID-ORDER-889
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right)$$

 $\frac{L_4 R_3 s \left(C_5 s-g_m\right) \left(C_3 L_3 s^2+1\right)}{2 C_3 C_4 C_5 L_3 L_4 R_3 g_m s^4+2 C_3 C_5 L_3 L_4 R_3 g_m s^4+2 C_3 C_5 L_3 R_3 s^3+C_3 C_5 L_4 R_3 s^3+2 C_3 L_4 R_3 g_m s^2+2 C_4 L_4 R_3 g_m s^2+2 C_5 L_4 R_3 g_m s^2+2$

10.890 INVALID-ORDER-890
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

 $L_4R_3s\left(C_3L_3s^2+1\right)\left(C_5R_5s-R_5g_m+1\right)$

10.891 INVALID-ORDER-891
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{L_4 R_3 s \left(C_3 L_3 s^2 + 1\right) \left(C_5 R_5 g_m s - C_5 s + g_m\right)}{2 C_3 C_4 C_5 L_3 L_4 R_3 g_m s^5 + 2 C_3 C_4 L_5 L_4 L_4 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_4 R_5 g_m s^4 + C_3 C_5 L_3 L_4 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 L_4 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_4 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_4 R_3 g_m s^4 + 2 C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_4 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_5 R_5 g_m s^3 + 2 C_5 L_5$

10.892 INVALID-ORDER-892
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, L_5s + \frac{1}{C_5s}, \infty\right)$$

10.893 INVALID-ORDER-893
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

10.894 INVALID-ORDER-894
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

 $\frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3g_ms^4 + C_3C_5L_3L_4R_3g_ms^4 + C_3C_$

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10.895 INVALID-ORDER-895 Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
```

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5s^6 + 2C_3C_4L_3L_4L_5R_3R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_3s^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3R_5g_ms^5 + C_3C_5L_3L_4L_5R_3R_5s^4 + 2C_3L_3L_4L_5R_3g_ms^4 + C_3L_3L_4L_5R_3g_ms^4 + C_3L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_5R_3g_ms^5 + 2C_3C_5L_3L_5R_3g_ms^5$

10.896 INVALID-ORDER-896
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_4L_3L_4R_3s^4 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_5R_3g_ms^5 + 2C_3C_5L_5L_5R_3g_ms^5 + 2C_3C_5L_5L_5R_3g_ms^5 + 2C_3C_5L_5R_3g_ms^5 + 2C_3C_5L_5R_3g_ms^5 + 2C_3C_5L$

10.897 INVALID-ORDER-897
$$Z(s) = \left(\infty, \ \infty, \ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + 2C_3C_4C_5L_3L_4R_3R_5s^5 + 2C_3C_4L_3L_4R_3R_5g_ms^4 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4L_5R_3g_ms^5 + C_3C_5L_3L_4R_3R_5g_ms^5 + C_3C_5L_3L_4R_5g_ms^5 + C_3C_5L_3L_4R$

10.898 INVALID-ORDER-898
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, R_5, \infty\right)$$

$$H(s) = \frac{R_3 \left(R_5 g_m - 1 \right) \left(C_3 L_3 s^2 + 1 \right) \left(C_4 L_4 s^2 + C_4 R_4 s + 1 \right)}{2 C_3 C_4 L_3 L_4 R_3 g_m s^4 + C_3 C_4 L_3 L_4 R_5 g_m s^4 + C_3 C_4 L_3 R_4 g_m s^3 + 2 C_3 C_4 L_3 R_3 g_m s^3 + 2 C_3 C_4 L_3 R_4 g_s^3 + C_3 C_4 L_4 R_3 g_m s^3 + C_3 C_4 L_3 R_4 g_m s^3 + C_3 C_4 L_3 R_4 g_m s^3 + C_3 C_4 L_4 R_3 g_m s^3 + C_3 C_4 L_4 R_3 g_m s^3 + C_3 C_4 L_3 R_4 g_m$$

10.899 INVALID-ORDER-899
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = -\frac{R_3 \left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + 1\right) \left(C_4 L_4 s^2 + C_4 R_4 s + 1\right)}{2 C_3 C_4 C_5 L_3 L_4 R_3 g_m s^5 + C_3 C_4 C_5 L_3 R_4 g_m s^4 + 2 C_3 C_4 C_5 L_3 R_3 g_m s^3 + C_3 C_4 L_3 R_4 g$$

10.900 INVALID-ORDER-900
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + C_3C_4C_5L_3L_4R_5s^5 + 2C_3C_4C_5L_3R_3R_4R_5g_ms^4 + 2C_3C_4C_5L_3R_3R_4S^4 + C_3C_4C_5L_3R_4R_5s^4 + C_3C_4C_5L_3R_4C_5L_3R_5s^4 + C_3C_4C_5L_3R_5s^4 + C_3C_4C_5L_3R_5s^4 + C_3C_4C_5L_3R_5s^4 + C_3C_4C_5L_3R_5s^4 + C_3C_4C_5L_3R_5s^4 + C_3C_4C_5$$

10.901 INVALID-ORDER-901
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_3g_ms^5 + C_3C_4C_5L_3L_4R_5g_ms^5 + C_3C_4C_5L_3L_4s^5 + 2C_3C_4C_5L_3R_3R_4g_ms^4 + 2C_3C_4C_5L_3R_3s^4 + C_3C_4C_5L_3R_4s^4 + C_3C_4C_5L_3R_4s^4 + C_3C_4C_5L_4R_3s^4 + C_3C_4C_5L_4R_3s^4 + C_3C_4C_5L_4R_3s^4 + C_3C_4C_5L_4R_3s^4 + C_3C_4C_5L_3R_4s^4 + C_3C_4C_5L_3R_4s^4 + C_3C_4C_5L_4R_3s^4 + C_3C_4C_5L_4R_3s^4 + C_3C_4C_5L_3R_4s^4 + C_3C_4C_5L_3R_4c$$

10.902 INVALID-ORDER-902
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_3g_ms^5 + C_3C_4C_5L_3L_4s^5 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + C_3C_4C_5L_3R_3g_ms^5 + 2C_3C_4C_5L_3R_3g_ms^5 + 2C_3$$

10.903 INVALID-ORDER-903
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

$$H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_4L_5g_ms^5 + 2C_3C_4L_3L_4R_3g_ms^4 + C_3C_4L_3L_4R_3g_ms^4 + C_3C_4L_3L_3R_3g_ms^4 + C_3C_4L_3L_3R_3g_ms^4 + C_3C_4L_3L_3R_3g_ms^4 +$$

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10.904 INVALID-ORDER-904 Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
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 $H(s) = \frac{1}{C_3C_4C_5L_3L_4L_5g_ms^6 + 2C_3C_4C_5L_3L_4R_3g_ms^5 + C_3C_4C_5L_3L_4R_5g_ms^5 + C_3C_4C_5L_3L_4S^5 + 2C_3C_4C_5L_3L_5R_3g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^5 + 2C_3C_4C_5L_3R_3R_4g_ms^5 + 2C_3C_4C_5L_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3R_5R_5g_ms^5 + 2C_3C_5C_5R_5g_ms^5 + 2C_3C_5C_5R_5g_ms^5 + 2C_3C_5C_5R_5g_ms^5 + 2C_3C_5C_5R_5g_$

10.905 INVALID-ORDER-905
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

10.906 INVALID-ORDER-906
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_5g_ms^6 + C_3C_4C_5L_3L_4L_5s^6 + 2C_3C_4C_5L_3L_5R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_3s^5 + C_3C_4C_5L_3L_5R_3s$

10.907 INVALID-ORDER-907
$$Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

10.908 INVALID-ORDER-908
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5, \infty\right)$$

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

10.909 INVALID-ORDER-909
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = -\frac{L_4 R_3 R_4 s \left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + 1\right)}{2 L_4 R_3 R_4 s \left(C_5 s - g_m\right) \left(C_3 L_3 s^2 + 1\right)}$$

10.910 INVALID-ORDER-910
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

 $\frac{1}{2C_{3}C_{4}C_{5}L_{3}L_{4}R_{3}R_{4}R_{5}s^{5} + 2C_{3}C_{4}L_{3}L_{4}R_{3}R_{4}R_{5}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{4}R_{3}R_{4}s^{4} + 2C_{3}C_{5}L_{3}L_{4}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{3}L_{4}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{3}L_{4}R_{3}R_{4}R_{5}s^{4} + 2C_{3}C_{5}L_{3}L_{4}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{3}L_{4}R_{3}R_{5}s^{4} + 2C_{3}C_{5}L_{5}L_{4}R_{5}s^{4} + 2C_{3}C_{5}L_{5}L_{5}L_{5}L_{5}R_{5}R_{5}s^{4} + 2C_{3}C_{5}L_{5}L_{5}L_{5}R_{5}R_{5}s^{4} + 2C_{3}C_{5}L_{5}L_{5}L_{5}R_{5}R_{5}s^{4} + 2C_{5}C_{5}L_{5}L_{5}L_{5}R_{5}R_{5}s^{4} + 2C_{5}C_{5}L_{5}L_{5}L_{5}R_{5}R_{5$

10.911 INVALID-ORDER-911
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_4s^5 + 2C_3C_4L_3L_4R_3R_4g_ms^4 + 2C_3C_5L_3L_4R_3R_5g_ms^4 + 2C_3C_5L_3L_4R_3s^4 +$

10.912 INVALID-ORDER-912
$$Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s+\frac{1}{C_5s}, \infty\right)$$

 $\frac{2C_{3}C_{4}C_{5}L_{3}L_{4}L_{5}R_{3}R_{4}g_{m}s^{6} + 2C_{3}C_{4}C_{5}L_{3}L_{4}R_{3}R_{4}s^{5} + 2C_{3}C_{4}L_{3}L_{4}R_{3}R_{4}g_{m}s^{4} + 2C_{3}C_{5}L_{3}L_{4}L_{5}R_{3}g_{m}s^{5} + C_{3}C_{5}L_{3}L_{4}R_{3}s^{4} + 2C_{3}C_{5}L_{3}L_{4}R_{3}s^{4} + 2C_{3}C_{5}L_{3}L_{4}$

- 10.913 INVALID-ORDER-913 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$
- 10.914 INVALID-ORDER-914 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s+R_5+\frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4L_3L_4R_3R_4g_ms^4 + 2C_3C_5L_3L_4L_5R_3g_ms^5 + 2C_3C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_5$
- 10.915 INVALID-ORDER-915 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$
- 10.916 INVALID-ORDER-916 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$
- 10.917 INVALID-ORDER-917 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$
- 10.918 INVALID-ORDER-918 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, R_5, \infty\right)$
- $H(s) = \frac{R_3 \left(R_5 g_m 1\right) \left(C_3 L_3 s^2 + 1\right)}{2 C_3 C_4 L_3 L_4 R_3 R_4 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_3 R_5 g_m s^4 + 2 C_3 C_4 L_3 L_4 R_3 g_m s^4 + 2 C_3 L_4 L_4 R_3 R_4 g_m s^4 + 2 C_3 L_4 R_4 R_5 g_m s^4 + 2 C_3 L_4 R_5 g_m s^4 + 2 C_3 L_5 R_5 g_m s^4 + 2$
- 10.919 INVALID-ORDER-919 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{1}{C_5s}, \infty\right)$
- 10.920 INVALID-ORDER-920 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_3R_4R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5s^5 + C_3C_4C_5L_3L_4R_3R_5s^5 + C_3C_4C_5L_4R_3R_4R_5s^4 + 2C_3C_4L_3L_4R_3R_5g_ms^4 + 2C_3C_4L_3L_4R_3s^4 + C_3C_4L_3L_4R_3s^4 + C_3C_4L_3L_3L_3R_3s^4 + C_3C_4L_3L_3R_3s^4 + C_3C_4L_3L_3L_3R_3s^4 + C_3C_4L_3L_3L_3R_3s^4 + C_3C_4L_$
- 10.921 INVALID-ORDER-921 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + C_3C_4C_5L_3L_4R_4s^5 + C_3C_4C_5L_3L_4R_3s^5 + C$

- 10.922 INVALID-ORDER-922 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + C_3C_4C_5L_4L_5R_3R_4g_ms^5 + C_3C_4C_5L_4R_3R_4g_ms^5 + C_3C_4C_5L_4R_3R_4g_ms$
- 10.923 INVALID-ORDER-923 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$
- 10.924 INVALID-ORDER-924 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_4s^5 + C_3C_4C_5L_3L_4R_4s^5 + C_3C_4C_5L_3L_4R_3s^5 + C_3C_4C_5L_4R_3s^5 +$
- 10.925 INVALID-ORDER-925 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3R_5s^6 + C_3C_4C_5L_3L_4L_5R_3R_4R_5s^5 + 2C_3C_4L_3L_4L_5R_3R_4g_ms^5 + 2C_3C_4L_3L_4L_5R_3R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_5L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_$
- 10.926 INVALID-ORDER-926 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$
- 10.927 INVALID-ORDER-927 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{L_4s}{C_4L_4s^2+1} + R_4, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$
- 10.928 INVALID-ORDER-928 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$
- $H(s) = \frac{R_3R_4\left(R_5g_m 1\right)\left(C_3L_3s^2 + 1\right)\left(C_4L_4s^2 + 2C_3C_4L_3L_4R_3R_4g_ms^4 + 2C_3C_4L_3L_4R_3s^4 + C_3C_4L_3L_4R_4s^4 + 2C_3C_4L_3R_3R_4s^3 + 2C_3C_4L_3R_3R_4s^3 + 2C_3L_3R_3R_4g_ms^4 +$
- 10.929 INVALID-ORDER-929 $Z(s) = \left(\infty, \ \infty, \ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{1}{C_5s}, \ \infty\right)$
- $H(s) = -\frac{R_3R_4\left(C_5s g_m\right)\left(C_3L_3s^2 + 1\right)\left(\sigma_3L_3s^2 + 1\right)\left(\sigma_3L_3$
- 10.930 INVALID-ORDER-930 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$
- $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4R_3R_4R_5q_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5s^5 + C_3C_4C_5L_3L_4R_4R_5s^5 + 2C_3C_4C_5L_3R_3R_4R_5s^4 + 2C_3C_4L_3L_4R_3R_4q_ms^4 + 2C_3C_4L_3L_4R_3s^4 + C_3C_4L_3L_4R_3s^4 + C_3C_4L_3L_4R_3s^4 + C_3C_4L_3L_4R_3s^4 + 2C_3C_4L_3L_4R_3s^4 + 2C_3C_4L_3L_3L_4R_3s^4 + 2C_3C_4L_3L_3L_3R_3s^4 + 2C_3C_4L_3L_3R_3s^4 + 2C_3C_4L_3L_3$

10.931 INVALID-ORDER-931 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_4R_3s$

10.932 INVALID-ORDER-932 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{1}{2C_3C_4C_5L_3L_4L_5R_3g_ms^6 + C_3C_4C_5L_3L_4L_5R_4g_ms^6 + 2C_3C_4C_5L_3L_4R_3R_4g_ms^5 + 2C_3C_4C_5L_3L_4R_3s^5 + 2C_3C_4C_5L_3L_$

10.933 INVALID-ORDER-933 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + C_3C_4C_5L_3L_4L_5R_3s^6 + 2C_3C_4C_5L_3L_4L_5R_3R_4s^5 + 2C_3C_4L_3L_4L_5R_3g_ms^5 + 2C_3C_4L_3L_4R_3g_ms^5 + 2C_3C_4L_3L_3L_3R_3g_ms^5 + 2C_3C_4L_3L_3L_3R_3g_ms^5 + 2C_3C_4L_3L$

10.934 INVALID-ORDER-934 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

10.935 INVALID-ORDER-935 $Z(s) = \left(\infty, \infty, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3R_5s^6 + 2C_3C_4C_5L_3L_4L_5R_3R_4R_5s^5 + 2C_3C_4L_3L_4L_5R_3R_4g_ms^5 + 2C_3C_4L_3L_4L_5R_3R_5g_ms^5 + 2C_3C_4L_3L_4L_5R_5g_ms^5 + 2C_3C_4L_5L_3L_5R_5g_ms^5 + 2C_3C_4L_5L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^5 + 2C_3C_4L_5L_5R_5g_ms^$

10.936 INVALID-ORDER-936 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1} + R_5, \infty\right)$

10.937 INVALID-ORDER-937 $Z(s) = \left(\infty, \infty, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = -\frac{1}{2C_3C_4C_5L_3L_4L_5R_3R_4g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3R_5g_ms^6 + 2C_3C_4C_5L_3L_4L_5R_3s^6 + C_3C_4C_5L_3L_4L_5R_4s^6 + 2C_3C_4C_5L_3L_4R_3R_4S_g_ms^5 + 2C_3C_4C_5L_3L_4R_3R_5s^5 + C_3C_4C_5L_3L_4R_3R_5s^5 + 2C_3C_4C_5L_3L_4R_3R_5s^5 + 2C_3C_4C_5L_3L_4R_5R_5s^5 +$

11 PolynomialError