Filter Summary Report: CG,TIA,simple,Z1,Z3,Z5

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Contents

1 Examined $H(z)$ for CG TIA simple Z1 Z3 Z5: $\frac{Z_1 Z_3 Z_5 g_m - Z_1 Z_3}{2Z_1 Z_3 g_m + Z_1 Z_5 g_m + Z_1 + Z_3 + Z_5}$

$$H(z) = \frac{Z_1 Z_3 Z_5 g_m - Z_1 Z_3}{2Z_1 Z_3 g_m + Z_1 Z_5 g_m + Z_1 + Z_3 + Z_5}$$

2 HP

3 BP

3.1 BP-1 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_3 R_1 R_5 g_m - L_3 R_1\right)}{R_1 R_5 g_m + R_1 + R_5 + s^2\left(C_3 L_3 R_1 R_5 g_m + C_3 L_3 R_1 + C_3 L_3 R_5\right) + s\left(2L_3 R_1 g_m + L_3\right)}$$

Parameters:

Q: $\frac{C_3 R_1 R_5 g_m \sqrt{\frac{1}{C_3 L_3}} + C_3 R_1 \sqrt{\frac{1}{C_3 L_3}} + C_3 R_5 \sqrt{\frac{1}{C_3 L_3}}}{2R_1 g_m + 1}$

wo: $\sqrt{\frac{1}{C_3 L_3}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_3 L_3}}(2R_1 g_m + 1)}{C_3 R_1 R_5 g_m \sqrt{\frac{1}{C_3 L_3}} + C_3 R_1 \sqrt{\frac{1}{C_3 L_3}} + C_3 R_5 \sqrt{\frac{1}{C_3 L_3}}}$

K-LP: 0

K-HP: 0

K-BP: $\frac{R_1 R_5 g_m - R_1}{2R_1 g_m + 1}$

Qz: None

Wz: None

3.2 BP-2 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_3 R_1 R_3 R_5 g_m - L_3 R_1 R_3\right)}{R_1 R_3 R_5 g_m + R_1 R_3 + R_3 R_5 + s^2\left(C_3 L_3 R_1 R_3 R_5 g_m + C_3 L_3 R_1 R_3 + C_3 L_3 R_3 R_5\right) + s\left(2L_3 R_1 R_3 g_m + L_3 R_1 R_5 g_m + L_3 R_1 + L_3 R_3 + L_3 R_5\right)}$$

Parameters:

Q: $\frac{C_3 R_1 R_3 R_5 g_m \sqrt{\frac{1}{C_3 L_3}} + C_3 R_1 R_3 \sqrt{\frac{1}{C_3 L_3}} + C_3 R_3 R_5 \sqrt{\frac{1}{C_3 L_3}}}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$

wo: $\sqrt{\frac{1}{C_3 L_3}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_3 L_3}}(2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5)}{C_3 R_1 R_3 R_5 g_m \sqrt{\frac{1}{C_3 L_3}} + C_3 R_1 R_3 \sqrt{\frac{1}{C_3 L_3}} + C_3 R_3 R_5 \sqrt{\frac{1}{C_3 L_3}}}$

K-LP: 0

K-HP: 0

K-BP: $\frac{R_1 R_3 R_5 g_m - R_1 R_3}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$

Qz: None

Wz: None

3.3 BP-3 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_1 R_5 g_m - L_1\right)}{s^2\left(C_3 L_1 R_5 g_m + C_3 L_1\right) + s\left(C_3 R_5 + 2L_1 g_m\right) + 1}$$

Parameters:

Q: $\frac{C_3 L_1 R_5 g_m \sqrt{\frac{1}{C_3 L_1 R_5 g_m + C_3 L_1}} + C_3 L_1 \sqrt{\frac{1}{C_3 L_1 R_5 g_m + C_3 L_1}}}{C_3 R_5 + 2L_1 g_m}$

wo: $\sqrt{\frac{1}{C_3 L_1 R_5 g_m + C_3 L_1}}$

bandwidth: $\frac{(C_3 R_5 + 2L_1 g_m)\sqrt{\frac{1}{C_3 L_1 R_5 g_m + C_3 L_1}}}{C_3 L_1 R_5 g_m \sqrt{\frac{1}{C_3 L_1 R_5 g_m + C_3 L_1}} + C_3 L_1 \sqrt{\frac{1}{C_3 L_1 R_5 g_m + C_3 L_1}}}$

K-LP: 0
K-HP: 0
K-BP: $\frac{L_1 R_5 g_m - L_1}{C_3 R_5 + 2 L_1 g_m}$
Qz: None
Wz: None

3.4 BP-4 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^2\left(C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3\right) + s\left(C_3 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

Parameters:

Q: $\frac{C_3 L_1 R_3 R_5 g_m \sqrt{\frac{R_3}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}} + C_3 L_1 R_3 \sqrt{\frac{R_3}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}}}{C_3 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1}$
wo: $\sqrt{\frac{R_3 + R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}}$
bandwidth: $\frac{\sqrt{\frac{R_3 + R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}}\left(C_3 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}{C_3 L_1 R_3 R_5 g_m \sqrt{\frac{R_3}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}} + C_3 L_1 R_3 \sqrt{\frac{R_3}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}}}$
K-LP: 0
K-HP: 0
K-BP: $\frac{L_1 R_3 R_5 g_m \sqrt{\frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{1}{C_3 L_1 R_5 g_m + C_3 L_1}} - L_1 R_3 \sqrt{\frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{1}{C_3 L_1 R_5 g_m + C_3 L_1}}}{C_3 R_3 R_5 \sqrt{\frac{R_3}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}} + 2 L_1 R_3 g_m \sqrt{\frac{R_3}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}} + L_1 R_5 g_m \sqrt{\frac{R_3}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}} + L_1 \sqrt{\frac{R_3}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3} + \frac{R_5}{C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3}}}$
Qz: None
Wz: None

3.5 BP-5 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^2\left(C_1 L_1 R_3 + C_1 L_1 R_5\right) + s\left(2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

Parameters:

Q: $\frac{C_1 R_3 \sqrt{\frac{1}{C_1 L_1}} + C_1 R_5 \sqrt{\frac{1}{C_1 L_1}}}{2 R_3 g_m + R_5 g_m + 1}$
wo: $\sqrt{\frac{1}{C_1 L_1}}$
bandwidth: $\frac{\sqrt{\frac{1}{C_1 L_1}}\left(2 R_3 g_m + R_5 g_m + 1\right)}{C_1 R_3 \sqrt{\frac{1}{C_1 L_1}} + C_1 R_5 \sqrt{\frac{1}{C_1 L_1}}}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_3 R_5 g_m - R_3}{2 R_3 g_m + R_5 g_m + 1}$
Qz: None
Wz: None

3.6 BP-6 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_1 R_1 R_3 R_5 g_m - L_1 R_1 R_3\right)}{R_1 R_3 + R_1 R_5 + s^2\left(C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_5\right) + s\left(2 L_1 R_1 R_3 g_m + L_1 R_1 R_5 g_m + L_1 R_1 + L_1 R_3 + L_1 R_5\right)}$$

Parameters:

Q: $\frac{C_1 R_1 R_3 \sqrt{\frac{1}{C_1 L_1}} + C_1 R_1 R_5 \sqrt{\frac{1}{C_1 L_1}}}{2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$
wo: $\sqrt{\frac{1}{C_1 L_1}}$
bandwidth: $\frac{\sqrt{\frac{1}{C_1 L_1}}\left(2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5\right)}{C_1 R_1 R_3 \sqrt{\frac{1}{C_1 L_1}} + C_1 R_1 R_5 \sqrt{\frac{1}{C_1 L_1}}}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1 R_3 R_5 g_m - R_1 R_3}{2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$
Qz: None
Wz: None

4 LP

4.1 LP-1 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

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

Parameters:

Q: $\frac{\sqrt{2} C_1 C_3 R_5 \sqrt{\frac{g_m}{C_1 C_3 R_5}}}{C_1 + C_3 R_5 g_m + C_3}$
wo: $\sqrt{2}\sqrt{\frac{g_m}{C_1 C_3 R_5}}$
bandwidth: $\frac{C_1 + C_3 R_5 g_m + C_3}{C_1 C_3 R_5}$
K-LP: $\frac{R_5 g_m - 1}{2 g_m}$
K-HP: 0
K-BP: 0
Qz: None
Wz: None

4.2 LP-2 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3}{C_1 C_3 R_3 R_5 s^2 + 2R_3 g_m + R_5 g_m + s\left(C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3\right) + 1}$$

Parameters:

Q: $\frac{C_1 C_3 R_3 R_5 \sqrt{\frac{2g_m}{C_1 C_3 R_5} + \frac{g_m}{C_1 C_3 R_3} + \frac{1}{C_1 C_3 R_3 R_5}}}{C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3}$
wo: $\sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_1 C_3 R_3 R_5}}$
bandwidth: $\frac{\sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_1 C_3 R_3 R_5}}\left(C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3\right)}{C_1 C_3 R_3 R_5 \sqrt{\frac{2g_m}{C_1 C_3 R_5} + \frac{g_m}{C_1 C_3 R_3} + \frac{1}{C_1 C_3 R_3 R_5}}}$
K-LP: $\frac{R_3 R_5 g_m - R_3}{2R_3 g_m + R_5 g_m + 1}$
K-HP: 0
K-BP: 0
Qz: None
Wz: None

4.3 LP-3 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

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

Parameters:

Q: $\frac{C_1 C_3 R_1 R_5 \sqrt{\frac{2g_m}{C_1 C_3 R_5} + \frac{1}{C_1 C_3 R_1 R_5}}}{C_1 R_1 + C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5}$
wo: $\sqrt{\frac{2R_1 g_m + 1}{C_1 C_3 R_1 R_5}}$
bandwidth: $\frac{\sqrt{\frac{2R_1 g_m + 1}{C_1 C_3 R_1 R_5}}\left(C_1 R_1 + C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5\right)}{C_1 C_3 R_1 R_5 \sqrt{\frac{2g_m}{C_1 C_3 R_5} + \frac{1}{C_1 C_3 R_1 R_5}}}$
K-LP: $\frac{R_1 R_5 g_m - R_1}{2R_1 g_m + 1}$
K-HP: 0
K-BP: 0
Qz: None
Wz: None

4.4 LP-4 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3}{C_1C_3R_1R_3R_5s^2 + 2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s\left(C_1R_1R_3 + C_1R_1R_5 + C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5\right)}$$

Parameters:

Q: $\frac{C_1C_3R_1R_3R_5\sqrt{\frac{2g_m}{C_1C_3R_5}+\frac{g_m}{C_1C_3R_3}+\frac{1}{C_1C_3R_3R_5}+\frac{1}{C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3}}}{C_1R_1R_3+C_1R_1R_5+C_3R_1R_3R_5g_m+C_3R_1R_3+C_3R_3R_5}$
wo: $\sqrt{\frac{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}{C_1C_3R_1R_3R_5}}$
bandwidth: $\frac{\sqrt{\frac{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}{C_1C_3R_1R_3R_5}}(C_1R_1R_3+C_1R_1R_5+C_3R_1R_3R_5g_m+C_3R_1R_3+C_3R_3R_5)}{C_1C_3R_1R_3R_5\sqrt{\frac{2g_m}{C_1C_3R_5}+\frac{g_m}{C_1C_3R_3}+\frac{1}{C_1C_3R_3R_5}+\frac{1}{C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3}}}$
K-LP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$
K-HP: 0
K-BP: 0
Qz: None
Wz: None

5 BS

5.1 BS-1 $Z(s) = \left(R_1,\ \infty,\ L_3s + \frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1\right)}{2R_1g_m + s^2\left(2C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_5g_m + C_3R_1 + C_3R_5\right) + 1}$$

Parameters:

Q: $\frac{2L_3R_1g_m\sqrt{\frac{1}{C_3L_3}}+L_3\sqrt{\frac{1}{C_3L_3}}}{R_1R_5g_m+R_1+R_5}$
wo: $\sqrt{\frac{1}{C_3L_3}}$
bandwidth: $\frac{\sqrt{\frac{1}{C_3L_3}}(R_1R_5g_m+R_1+R_5)}{2L_3R_1g_m\sqrt{\frac{1}{C_3L_3}}+L_3\sqrt{\frac{1}{C_3L_3}}}$
K-LP: $\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$
K-HP: $\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_3L_3}}$

5.2 BS-2 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^2\left(2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_3 + C_3L_3R_5\right) + s\left(C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5\right)}$$

Parameters:

Q: $\frac{2L_3R_1R_3g_m\sqrt{\frac{1}{C_3L_3}}+L_3R_1R_5g_m\sqrt{\frac{1}{C_3L_3}}+L_3R_1\sqrt{\frac{1}{C_3L_3}}+L_3R_3\sqrt{\frac{1}{C_3L_3}}+L_3R_5\sqrt{\frac{1}{C_3L_3}}}{R_1R_3R_5g_m+R_1R_3+R_3R_5}$
wo: $\sqrt{\frac{1}{C_3L_3}}$
bandwidth: $\frac{\sqrt{\frac{1}{C_3L_3}}(R_1R_3R_5g_m+R_1R_3+R_3R_5)}{2L_3R_1R_3g_m\sqrt{\frac{1}{C_3L_3}}+L_3R_1R_5g_m\sqrt{\frac{1}{C_3L_3}}+L_3R_1\sqrt{\frac{1}{C_3L_3}}+L_3R_3\sqrt{\frac{1}{C_3L_3}}+L_3R_5\sqrt{\frac{1}{C_3L_3}}}$
K-LP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$
K-HP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_3L_3}}$

5.3 BS-3 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3\right)}{2R_3 g_m + R_5 g_m + s^2 \left(2C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1\right) + s\left(C_1 R_3 + C_1 R_5\right) + 1}$$

Parameters:

Q: $\frac{2L_1 R_3 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 R_5 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 \sqrt{\frac{1}{C_1 L_1}}}{R_3 + R_5}$

wo: $\sqrt{\frac{1}{C_1 L_1}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_1 L_1}}(R_3 + R_5)}{2L_1 R_3 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 R_5 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 \sqrt{\frac{1}{C_1 L_1}}}$

K-LP: $\frac{R_3 R_5 g_m - R_3}{2R_3 g_m + R_5 g_m + 1}$

K-HP: $\frac{R_3 R_5 g_m - R_3}{2R_3 g_m + R_5 g_m + 1}$

K-BP: 0

Qz: None

Wz: $\sqrt{\frac{1}{C_1 L_1}}$

5.4 BS-4 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2 + 1\right)}{C_1 L_1 s^2 + C_1 R_1 s + 1},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1 R_3 R_5 g_m - R_1 R_3 + s^2 \left(C_1 L_1 R_1 R_3 R_5 g_m - C_1 L_1 R_1 R_3\right)}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^2 \left(2C_1 L_1 R_1 R_3 g_m + C_1 L_1 R_1 R_5 g_m + C_1 L_1 R_1 + C_1 L_1 R_3 + C_1 L_1 R_5\right) + s\left(C_1 R_1 R_3 + C_1 R_1 R_5\right)}$$

Parameters:

Q: $\frac{2L_1 R_1 R_3 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 R_1 R_5 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 R_1 \sqrt{\frac{1}{C_1 L_1}} + L_1 R_3 \sqrt{\frac{1}{C_1 L_1}} + L_1 R_5 \sqrt{\frac{1}{C_1 L_1}}}{R_1 R_3 + R_1 R_5}$

wo: $\sqrt{\frac{1}{C_1 L_1}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_1 L_1}}(R_1 R_3 + R_1 R_5)}{2L_1 R_1 R_3 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 R_1 R_5 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 R_1 \sqrt{\frac{1}{C_1 L_1}} + L_1 R_3 \sqrt{\frac{1}{C_1 L_1}} + L_1 R_5 \sqrt{\frac{1}{C_1 L_1}}}$

K-LP: $\frac{R_1 R_3 R_5 g_m - R_1 R_3}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$

K-HP: $\frac{R_1 R_3 R_5 g_m - R_1 R_3}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$

K-BP: 0

Qz: None

Wz: $\sqrt{\frac{1}{C_1 L_1}}$

6 GE

6.1 GE-1 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_1 R_3 g_m s^2 - C_5 R_1 R_3 s + R_1 R_3 g_m}{R_1 g_m + s^2 \left(C_5 L_5 R_1 g_m + C_5 L_5\right) + s\left(2C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3\right) + 1}$$

Parameters:

Q: $\frac{L_5 R_1 g_m \sqrt{\frac{1}{C_5 L_5}} + L_5 \sqrt{\frac{1}{C_5 L_5}}}{2R_1 R_3 g_m + R_1 + R_3}$

wo: $\sqrt{\frac{1}{C_5 L_5}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_5 L_5}}(2R_1 R_3 g_m + R_1 + R_3)}{L_5 R_1 g_m \sqrt{\frac{1}{C_5 L_5}} + L_5 \sqrt{\frac{1}{C_5 L_5}}}$

K-LP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$

K-HP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$

K-BP: $-\frac{R_1 R_3}{2R_1 R_3 g_m + R_1 + R_3}$

Qz: $-L_5 g_m \sqrt{\frac{1}{C_5 L_5}}$

Wz: $\sqrt{\frac{1}{C_5 L_5}}$

6.2 GE-2 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_1 R_3 s^2 + L_5 R_1 R_3 g_m s - R_1 R_3}{2R_1 R_3 g_m + R_1 + R_3 + s^2\left(2C_5 L_5 R_1 R_3 g_m + C_5 L_5 R_1 + C_5 L_5 R_3\right) + s\left(L_5 R_1 g_m + L_5\right)}$$

Parameters:

Q: $\frac{2C_5 R_1 R_3 g_m \sqrt{\frac{1}{C_5 L_5}} + C_5 R_1 \sqrt{\frac{1}{C_5 L_5}} + C_5 R_3 \sqrt{\frac{1}{C_5 L_5}}}{R_1 g_m + 1}$

wo: $\sqrt{\frac{1}{C_5 L_5}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_5 L_5}}(R_1 g_m + 1)}{2C_5 R_1 R_3 g_m \sqrt{\frac{1}{C_5 L_5}} + C_5 R_1 \sqrt{\frac{1}{C_5 L_5}} + C_5 R_3 \sqrt{\frac{1}{C_5 L_5}}}$

K-LP: $-\frac{R_1 R_3}{2R_1 R_3 g_m + R_1 + R_3}$

K-HP: $-\frac{R_1 R_3}{2R_1 R_3 g_m + R_1 + R_3}$

K-BP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$

Qz: $-\frac{C_5 \sqrt{\frac{1}{C_5 L_5}}}{g_m}$

Wz: $\sqrt{\frac{1}{C_5 L_5}}$

6.3 GE-3 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_1 R_3 g_m s^2 + R_1 R_3 g_m + s\left(C_5 R_1 R_3 R_5 g_m - C_5 R_1 R_3\right)}{R_1 g_m + s^2\left(C_5 L_5 R_1 g_m + C_5 L_5\right) + s\left(2C_5 R_1 R_3 g_m + C_5 R_1 R_5 g_m + C_5 R_1 + C_5 R_3 + C_5 R_5\right) + 1}$$

Parameters:

Q: $\frac{L_5 R_1 g_m \sqrt{\frac{1}{C_5 L_5}} + L_5 \sqrt{\frac{1}{C_5 L_5}}}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$

wo: $\sqrt{\frac{1}{C_5 L_5}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_5 L_5}}(2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5)}{L_5 R_1 g_m \sqrt{\frac{1}{C_5 L_5}} + L_5 \sqrt{\frac{1}{C_5 L_5}}}$

K-LP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$

K-HP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$

K-BP: $\frac{R_1 R_3 R_5 g_m - R_1 R_3}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$

Qz: $\frac{L_5 g_m \sqrt{\frac{1}{C_5 L_5}}}{R_5 g_m - 1}$

Wz: $\sqrt{\frac{1}{C_5 L_5}}$

6.4 GE-4 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_1 R_3 R_5 s^2 - R_1 R_3 R_5 + s\left(L_5 R_1 R_3 R_5 g_m - L_5 R_1 R_3\right)}{2R_1 R_3 R_5 g_m + R_1 R_5 + R_3 R_5 + s^2\left(2C_5 L_5 R_1 R_3 R_5 g_m + C_5 L_5 R_1 R_5 + C_5 L_5 R_3 R_5\right) + s\left(2L_5 R_1 R_3 g_m + L_5 R_1 R_5 g_m + L_5 R_1 + L_5 R_3 + L_5 R_5\right)}$$

Parameters:

Q: $\frac{2C_5 R_1 R_3 R_5 g_m \sqrt{\frac{1}{C_5 L_5}} + C_5 R_1 R_5 \sqrt{\frac{1}{C_5 L_5}} + C_5 R_3 R_5 \sqrt{\frac{1}{C_5 L_5}}}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$

wo: $\sqrt{\frac{1}{C_5 L_5}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_5 L_5}}(2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5)}{2C_5 R_1 R_3 R_5 g_m \sqrt{\frac{1}{C_5 L_5}} + C_5 R_1 R_5 \sqrt{\frac{1}{C_5 L_5}} + C_5 R_3 R_5 \sqrt{\frac{1}{C_5 L_5}}}$

K-LP: $-\frac{R_1 R_3}{2R_1 R_3 g_m + R_1 + R_3}$

K-HP: $-\frac{R_1 R_3}{2R_1 R_3 g_m + R_1 + R_3}$

K-BP: $\frac{R_1 R_3 R_5 g_m - R_1 R_3}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$

Qz: $-\frac{C_5 R_5 \sqrt{\frac{1}{C_5 L_5}}}{R_5 g_m - 1}$

Wz: $\sqrt{\frac{1}{C_5 L_5}}$

6.5 GE-5 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{L_5R_1R_3g_ms + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_5L_5R_1R_3R_5g_m - C_5L_5R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^2\left(2C_5L_5R_1R_3g_m + C_5L_5R_1R_5g_m + C_5L_5R_1 + C_5L_5R_3 + C_5L_5R_5\right) + s\left(L_5R_1g_m + L_5\right)}$$

Parameters:

Q: $\frac{2C_5R_1R_3g_m\sqrt{\frac{1}{C_5L_5}}+C_5R_1R_5g_m\sqrt{\frac{1}{C_5L_5}}+C_5R_1\sqrt{\frac{1}{C_5L_5}}+C_5R_3\sqrt{\frac{1}{C_5L_5}}+C_5R_5\sqrt{\frac{1}{C_5L_5}}}{R_1g_m+1}$

wo: $\sqrt{\frac{1}{C_5L_5}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_5L_5}}(R_1g_m+1)}{2C_5R_1R_3g_m\sqrt{\frac{1}{C_5L_5}}+C_5R_1R_5g_m\sqrt{\frac{1}{C_5L_5}}+C_5R_1\sqrt{\frac{1}{C_5L_5}}+C_5R_3\sqrt{\frac{1}{C_5L_5}}+C_5R_5\sqrt{\frac{1}{C_5L_5}}}$

K-LP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-HP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-BP: $\frac{R_1R_3g_m}{R_1g_m+1}$

Qz: $\frac{C_5R_5g_m\sqrt{\frac{1}{C_5L_5}}-C_5\sqrt{\frac{1}{C_5L_5}}}{g_m}$

Wz: $\sqrt{\frac{1}{C_5L_5}}$

6.6 GE-6 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_5L_5R_1R_3R_5g_m - C_5L_5R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^2\left(2C_5L_5R_1R_3g_m + C_5L_5R_1R_5g_m + C_5L_5R_1 + C_5L_5R_3 + C_5L_5R_5\right) + s\left(2C_5R_1R_3R_5g_m + C_5R_1R_5 + C_5R_3R_5\right)}$$

Parameters:

Q: $\frac{2L_5R_1R_3g_m\sqrt{\frac{1}{C_5L_5}}+L_5R_1R_5g_m\sqrt{\frac{1}{C_5L_5}}+L_5R_1\sqrt{\frac{1}{C_5L_5}}+L_5R_3\sqrt{\frac{1}{C_5L_5}}+L_5R_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_3R_5g_m+R_1R_5+R_3R_5}$

wo: $\sqrt{\frac{1}{C_5L_5}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_5L_5}}(2R_1R_3R_5g_m+R_1R_5+R_3R_5)}{2L_5R_1R_3g_m\sqrt{\frac{1}{C_5L_5}}+L_5R_1R_5g_m\sqrt{\frac{1}{C_5L_5}}+L_5R_1\sqrt{\frac{1}{C_5L_5}}+L_5R_3\sqrt{\frac{1}{C_5L_5}}+L_5R_5\sqrt{\frac{1}{C_5L_5}}}$

K-LP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-HP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-BP: $-\frac{R_1R_3}{2R_1R_3g_m+R_1+R_3}$

Qz: $\frac{-L_5R_5g_m\sqrt{\frac{1}{C_5L_5}}+L_5\sqrt{\frac{1}{C_5L_5}}}{R_5}$

Wz: $\sqrt{\frac{1}{C_5L_5}}$

6.7 GE-7 $Z(s) = \left(R_1,\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1\right) + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3\right)}{2R_1g_m + s^2\left(2C_3L_3R_1g_m + C_3L_3\right) + s\left(2C_3R_1R_3g_m + C_3R_1R_5g_m + C_3R_1 + C_3R_3 + C_3R_5\right) + 1}$$

Parameters:

Q: $\frac{2L_3R_1g_m\sqrt{\frac{1}{C_3L_3}}+L_3\sqrt{\frac{1}{C_3L_3}}}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

wo: $\sqrt{\frac{1}{C_3L_3}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_3L_3}}(2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5)}{2L_3R_1g_m\sqrt{\frac{1}{C_3L_3}}+L_3\sqrt{\frac{1}{C_3L_3}}}$

K-LP: $\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$

K-HP: $\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$

K-BP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

Qz: $\frac{L_3\sqrt{\frac{1}{C_3L_3}}}{R_3}$

Wz: $\sqrt{\frac{1}{C_3L_3}}$

6.8 GE-8 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3\right) + s\left(L_3R_1R_5g_m - L_3R_1\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^2\left(2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_3 + C_3L_3R_5\right) + s\left(2L_3R_1g_m + L_3\right)}$$

Parameters:

Q: $\frac{2C_3R_1R_3g_m\sqrt{\frac{1}{C_3L_3}}+C_3R_1R_5g_m\sqrt{\frac{1}{C_3L_3}}+C_3R_1\sqrt{\frac{1}{C_3L_3}}+C_3R_3\sqrt{\frac{1}{C_3L_3}}+C_3R_5\sqrt{\frac{1}{C_3L_3}}}{2R_1g_m+1}$

wo: $\sqrt{\frac{1}{C_3L_3}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_3L_3}}(2R_1g_m+1)}{2C_3R_1R_3g_m\sqrt{\frac{1}{C_3L_3}}+C_3R_1R_5g_m\sqrt{\frac{1}{C_3L_3}}+C_3R_1\sqrt{\frac{1}{C_3L_3}}+C_3R_3\sqrt{\frac{1}{C_3L_3}}+C_3R_5\sqrt{\frac{1}{C_3L_3}}}$

K-LP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-HP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-BP: $\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$

Qz: $C_3R_3\sqrt{\frac{1}{C_3L_3}}$

Wz: $\sqrt{\frac{1}{C_3L_3}}$

6.9 GE-9 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3R_5g_m - R_3 + s^2\left(C_1L_1R_3R_5g_m - C_1L_1R_3\right) + s\left(C_1R_1R_3R_5g_m - C_1R_1R_3\right)}{2R_3g_m + R_5g_m + s^2\left(2C_1L_1R_3g_m + C_1L_1R_5g_m + C_1L_1\right) + s\left(2C_1R_1R_3g_m + C_1R_1R_5g_m + C_1R_1 + C_1R_3 + C_1R_5\right) + 1}$$

Parameters:

Q: $\frac{2L_1R_3g_m\sqrt{\frac{1}{C_1L_1}}+L_1R_5g_m\sqrt{\frac{1}{C_1L_1}}+L_1\sqrt{\frac{1}{C_1L_1}}}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

wo: $\sqrt{\frac{1}{C_1L_1}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_1L_1}}(2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5)}{2L_1R_3g_m\sqrt{\frac{1}{C_1L_1}}+L_1R_5g_m\sqrt{\frac{1}{C_1L_1}}+L_1\sqrt{\frac{1}{C_1L_1}}}$

K-LP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$

K-HP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$

K-BP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

Qz: $\frac{L_1\sqrt{\frac{1}{C_1L_1}}}{R_1}$

Wz: $\sqrt{\frac{1}{C_1L_1}}$

6.10 GE-10 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3\right) + s\left(L_1R_3R_5g_m - L_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^2\left(2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R_3 + C_1L_1R_5\right) + s\left(2L_1R_3g_m + L_1R_5g_m + L_1\right)}$$

Parameters:

Q: $\frac{2C_1R_1R_3g_m\sqrt{\frac{1}{C_1L_1}}+C_1R_1R_5g_m\sqrt{\frac{1}{C_1L_1}}+C_1R_1\sqrt{\frac{1}{C_1L_1}}+C_1R_3\sqrt{\frac{1}{C_1L_1}}+C_1R_5\sqrt{\frac{1}{C_1L_1}}}{2R_3g_m+R_5g_m+1}$

wo: $\sqrt{\frac{1}{C_1L_1}}$

bandwidth: $\frac{\sqrt{\frac{1}{C_1L_1}}(2R_3g_m+R_5g_m+1)}{2C_1R_1R_3g_m\sqrt{\frac{1}{C_1L_1}}+C_1R_1R_5g_m\sqrt{\frac{1}{C_1L_1}}+C_1R_1\sqrt{\frac{1}{C_1L_1}}+C_1R_3\sqrt{\frac{1}{C_1L_1}}+C_1R_5\sqrt{\frac{1}{C_1L_1}}}$

K-LP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-HP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-BP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$

Qz: $C_1R_1\sqrt{\frac{1}{C_1L_1}}$

Wz: $\sqrt{\frac{1}{C_1L_1}}$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_5 s + R_1 R_5 g_m - R_1}{C_3 C_5 R_1 R_5 s^2 + 2R_1 g_m + s\left(C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5 + 2C_5 R_1 R_5 g_m + C_5 R_5\right) + 1}$$

Parameters:

Q: $\frac{C_3 C_5 R_1 R_5 \sqrt{\frac{2g_m}{C_3 C_5 R_5} + \frac{1}{C_3 C_5 R_1 R_5}}}{C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5 + 2C_5 R_1 R_5 g_m + C_5 R_5}$
wo: $\sqrt{\frac{2R_1 g_m + 1}{C_3 C_5 R_1 R_5}}$
bandwidth: $\frac{\sqrt{\frac{2R_1 g_m + 1}{C_3 C_5 R_1 R_5}}\left(C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5 + 2C_5 R_1 R_5 g_m + C_5 R_5\right)}{C_3 C_5 R_1 R_5 \sqrt{\frac{2g_m}{C_3 C_5 R_5} + \frac{1}{C_3 C_5 R_1 R_5}}}$
K-LP: $\frac{R_1 R_5 g_m - R_1}{2R_1 g_m + 1}$
K-HP: 0
K-BP: $-\frac{C_5 R_1 R_5}{C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5 + 2C_5 R_1 R_5 g_m + C_5 R_5}$
Qz: None
Wz: None

8.2 INVALID-NUMER-2 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_3 s + R_1 R_3 g_m}{C_3 C_5 R_1 R_3 s^2 + R_1 g_m + s\left(C_3 R_1 R_3 g_m + C_3 R_3 + 2C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3\right) + 1}$$

Parameters:

Q: $\frac{C_3 C_5 R_1 R_3 \sqrt{\frac{g_m}{C_3 C_5 R_3} + \frac{1}{C_3 C_5 R_1 R_3}}}{C_3 R_1 R_3 g_m + C_3 R_3 + 2C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3}$
wo: $\sqrt{\frac{R_1 g_m + 1}{C_3 C_5 R_1 R_3}}$
bandwidth: $\frac{\sqrt{\frac{R_1 g_m + 1}{C_3 C_5 R_1 R_3}}\left(C_3 R_1 R_3 g_m + C_3 R_3 + 2C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3\right)}{C_3 C_5 R_1 R_3 \sqrt{\frac{g_m}{C_3 C_5 R_3} + \frac{1}{C_3 C_5 R_1 R_3}}}$
K-LP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$
K-HP: 0
K-BP: $-\frac{C_5 R_1 R_3}{C_3 R_1 R_3 g_m + C_3 R_3 + 2C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3}$
Qz: None
Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

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

Parameters:

Q: $\frac{C_3 C_5 R_1 R_3 R_5 \sqrt{\frac{2g_m}{C_3 C_5 R_5} + \frac{g_m}{C_3 C_5 R_3} + \frac{1}{C_3 C_5 R_3 R_5} + \frac{1}{C_3 C_5 R_1 R_5} + \frac{1}{C_3 C_5 R_1 R_3}}}{C_3 R_1 R_3 R_5 g_m + C_3 R_1 R_3 + C_3 R_3 R_5 + 2C_5 R_1 R_3 R_5 g_m + C_5 R_1 R_5 + C_5 R_3 R_5}$
wo: $\sqrt{\frac{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}{C_3 C_5 R_1 R_3 R_5}}$
bandwidth: $\frac{\sqrt{\frac{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}{C_3 C_5 R_1 R_3 R_5}}\left(C_3 R_1 R_3 R_5 g_m + C_3 R_1 R_3 + C_3 R_3 R_5 + 2C_5 R_1 R_3 R_5 g_m + C_5 R_1 R_5 + C_5 R_3 R_5\right)}{C_3 C_5 R_1 R_3 R_5 \sqrt{\frac{2g_m}{C_3 C_5 R_5} + \frac{g_m}{C_3 C_5 R_3} + \frac{1}{C_3 C_5 R_3 R_5} + \frac{1}{C_3 C_5 R_1 R_5} + \frac{1}{C_3 C_5 R_1 R_3}}}$
K-LP: $\frac{R_1 R_3 R_5 g_m - R_1 R_3}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$
K-HP: 0
K-BP: $-\frac{C_5 R_1 R_3 R_5}{C_3 R_1 R_3 R_5 g_m + C_3 R_1 R_3 + C_3 R_3 R_5 + 2C_5 R_1 R_3 R_5 g_m + C_5 R_1 R_5 + C_5 R_3 R_5}$
Qz: None
Wz: None

8.4 INVALID-NUMER-4 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1R_3g_m + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^2\left(C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_3 + C_3C_5R_3R_5\right) + s\left(C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1R_5g_m + C_5R_1 + C_5R_3 + C_5R_5\right) + 1}$$

Parameters:

Q: $\frac{C_3C_5R_1R_3R_5g_m\sqrt{\frac{R_1g_m}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}+\frac{1}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}}+C_3C_5R_1R_3\sqrt{\frac{R_1g_m}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}+\frac{1}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}}+C_3C_5R_3R_5\sqrt{\frac{R_1g_m}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}+\frac{1}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}}}{C_3R_1R_3g_m+C_3R_3+2C_5R_1R_3g_m+C_5R_1R_5g_m+C_5R_1+C_5R_3+C_5R_5}$

wo: $\sqrt{\frac{R_1g_m+1}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}}$

bandwidth: $\frac{\sqrt{\frac{R_1g_m+1}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}}\left(C_3R_1R_3g_m+C_3R_3+2C_5R_1R_3g_m+C_5R_1R_5g_m+C_5R_1+C_5R_3+C_5R_5\right)}{C_3C_5R_1R_3R_5g_m\sqrt{\frac{R_1g_m}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}+\frac{1}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}}+C_3C_5R_1R_3\sqrt{\frac{R_1g_m}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}+\frac{1}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}}+C_3C_5R_3R_5\sqrt{\frac{R_1g_m}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}+\frac{1}{C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_3+C_3C_5R_3R_5}}}$

K-LP: $\frac{R_1R_3g_m}{R_1g_m+1}$

K-HP: 0

K-BP: $\frac{C_5R_1R_3R_5g_m-C_5R_1R_3}{C_3R_1R_3g_m+C_3R_3+2C_5R_1R_3g_m+C_5R_1R_5g_m+C_5R_1+C_5R_3+C_5R_5}$

Qz: None

Wz: None

8.5 INVALID-NUMER-5 $Z(s) = \left(L_1s,\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_5L_1R_3s^2 + L_1R_3g_ms}{s^2\left(2C_5L_1R_3g_m + C_5L_1\right) + s\left(C_5R_3 + L_1g_m\right) + 1}$$

Parameters:

Q: $\frac{2C_5L_1R_3g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1}}+C_5L_1\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1}}}{C_5R_3+L_1g_m}$

wo: $\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1}}$

bandwidth: $\frac{\left(C_5R_3+L_1g_m\right)\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1}}}{2C_5L_1R_3g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1}}+C_5L_1\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1}}}$

K-LP: 0

K-HP: $-\frac{R_3}{2R_3g_m+1}$

K-BP: $\frac{L_1R_3g_m}{C_5R_3+L_1g_m}$

Qz: None

Wz: None

8.6 INVALID-NUMER-6 $Z(s) = \left(L_1s,\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1R_3R_5s^2 + s\left(L_1R_3R_5g_m - L_1R_3\right)}{R_3 + R_5 + s^2\left(2C_5L_1R_3R_5g_m + C_5L_1R_5\right) + s\left(C_5R_3R_5 + 2L_1R_3g_m + L_1R_5g_m + L_1\right)}$$

Parameters:

Q: $\frac{2C_5L_1R_3R_5g_m\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}+C_5L_1R_5\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}}{C_5R_3R_5+2L_1R_3g_m+L_1R_5g_m+L_1}$

wo: $\sqrt{\frac{R_3+R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}$

bandwidth: $\frac{\sqrt{\frac{R_3+R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}\left(C_5R_3R_5+2L_1R_3g_m+L_1R_5g_m+L_1\right)}{2C_5L_1R_3R_5g_m\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}+C_5L_1R_5\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}}$

K-LP: 0

K-HP: $-\frac{R_3}{2R_3g_m+1}$

K-BP: $\frac{L_1R_3R_5g_m\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{1}{2C_5L_1R_3g_m+C_5L_1}}-L_1R_3\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{1}{2C_5L_1R_3g_m+C_5L_1}}}{C_5R_3R_5\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}+2L_1R_3g_m\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}+L_1R_5g_m\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}+L_1\sqrt{\frac{R_3}{2C_5L_1R_3R_5g_m+C_5L_1R_5}+\frac{R_5}{2C_5L_1R_3R_5g_m+C_5L_1R_5}}}$

Qz: None

Wz: None

8.7 INVALID-NUMER-7 $Z(s) = \left(L_1 s,\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_3 g_m s + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{s^2 \left(2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1\right) + s \left(C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

Parameters:

Q: $\frac{2C_5L_1R_3g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}}+C_5L_1R_5g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}}+C_5L_1\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}}}{C_5R_3+C_5R_5+L_1g_m}$

wo: $\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}}$

bandwidth: $\frac{(C_5R_3+C_5R_5+L_1g_m)\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}}}{2C_5L_1R_3g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}}+C_5L_1R_5g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}}+C_5L_1\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}}}$

K-LP: 0

K-HP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$

K-BP: $\frac{L_1R_3g_m}{C_5R_3+C_5R_5+L_1g_m}$

Qz: None

Wz: None

8.8 INVALID-NUMER-8 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 s + L_1 g_m}{C_3 C_5 L_1 s^2 + C_3 + C_5 + s \left(C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

Parameters:

Q: $\frac{C_3C_5\sqrt{\frac{1}{C_5L_1}+\frac{1}{C_3L_1}}}{C_3g_m+2C_5g_m}$

wo: $\sqrt{\frac{C_3+C_5}{C_3C_5L_1}}$

bandwidth: $\frac{\sqrt{\frac{C_3+C_5}{C_3C_5L_1}}(C_3g_m+2C_5g_m)}{C_3C_5\sqrt{\frac{1}{C_5L_1}+\frac{1}{C_3L_1}}}$

K-LP: $\frac{L_1g_m}{C_3+C_5}$

K-HP: 0

K-BP: $-\frac{C_5}{C_3g_m+2C_5g_m}$

Qz: None

Wz: None

8.9 INVALID-NUMER-9 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 g_m + s \left(C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_3 + C_5 + s^2 \left(C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1\right) + s \left(C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

Parameters:

Q: $\frac{C_3C_5L_1R_5g_m\sqrt{\frac{C_3}{C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3C_5L_1\sqrt{\frac{C_3}{C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}}{C_3C_5R_5+C_3L_1g_m+2C_5L_1g_m}$

wo: $\sqrt{\frac{C_3+C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}$

bandwidth: $\frac{\sqrt{\frac{C_3+C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}(C_3C_5R_5+C_3L_1g_m+2C_5L_1g_m)}{C_3C_5L_1R_5g_m\sqrt{\frac{C_3}{C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3C_5L_1\sqrt{\frac{C_3}{C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}}$

K-LP: $\frac{L_1g_m}{C_3+C_5}$

K-HP: 0

K-BP: $\frac{C_5L_1R_5g_m\sqrt{\frac{1}{C_5L_1R_5g_m+C_5L_1}+\frac{1}{C_3L_1R_5g_m+C_3L_1}}-C_5L_1\sqrt{\frac{1}{C_5L_1R_5g_m+C_5L_1}+\frac{1}{C_3L_1R_5g_m+C_3L_1}}}{C_3C_5R_5\sqrt{\frac{C_3}{C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3L_1g_m\sqrt{\frac{C_3}{C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}+2C_5L_1g_m\sqrt{\frac{C_3}{C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{C_3C_5L_1R_5g_m+C_3C_5L_1}}}$

Qz: None

Wz: None

8.10 INVALID-NUMER-10 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2 \left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3\right) + s \left(L_1 R_5 g_m - L_1\right)}{s^2 \left(2 C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1\right) + s \left(C_3 R_3 + C_3 R_5 + 2 L_1 g_m\right) + 1}$$

Parameters:

Q: $\frac{2C_3L_1R_3g_m\sqrt{\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}+C_3L_1R_5g_m\sqrt{\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}+C_3L_1\sqrt{\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}}{C_3R_3+C_3R_5+2L_1g_m}$

wo: $\sqrt{\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}$

bandwidth: $\frac{(C_3R_3+C_3R_5+2L_1g_m)\sqrt{\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}}{2C_3L_1R_3g_m\sqrt{\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}+C_3L_1R_5g_m\sqrt{\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}+C_3L_1\sqrt{\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}}$

K-LP: 0

K-HP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$

K-BP: $\frac{L_1R_5g_m-L_1}{C_3R_3+C_3R_5+2L_1g_m}$

Qz: None

Wz: None

8.11 INVALID-NUMER-11 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

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

Parameters:

Q: $\frac{C_1C_5R_3\sqrt{\frac{g_m}{C_1C_5R_3}}}{C_1+2C_5R_3g_m+C_5}$

wo: $\sqrt{\frac{g_m}{C_1C_5R_3}}$

bandwidth: $\frac{C_1+2C_5R_3g_m+C_5}{C_1C_5R_3}$

K-LP: R_3

K-HP: 0

K-BP: $-\frac{C_5R_3}{C_1+2C_5R_3g_m+C_5}$

Qz: None

Wz: None

8.12 INVALID-NUMER-12 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 R_3 R_5 s + R_3 R_5 g_m - R_3}{C_1 C_5 R_3 R_5 s^2 + 2 R_3 g_m + R_5 g_m + s \left(C_1 R_3 + C_1 R_5 + 2 C_5 R_3 R_5 g_m + C_5 R_5\right) + 1}$$

Parameters:

Q: $\frac{C_1C_5R_3R_5\sqrt{\frac{2g_m}{C_1C_5R_5}+\frac{g_m}{C_1C_5R_3}+\frac{1}{C_1C_5R_3R_5}}}{C_1R_3+C_1R_5+2C_5R_3R_5g_m+C_5R_5}$

wo: $\sqrt{\frac{2R_3g_m+R_5g_m+1}{C_1C_5R_3R_5}}$

bandwidth: $\frac{\sqrt{\frac{2R_3g_m+R_5g_m+1}{C_1C_5R_3R_5}}(C_1R_3+C_1R_5+2C_5R_3R_5g_m+C_5R_5)}{C_1C_5R_3R_5\sqrt{\frac{2g_m}{C_1C_5R_5}+\frac{g_m}{C_1C_5R_3}+\frac{1}{C_1C_5R_3R_5}}}$

K-LP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$

K-HP: 0

K-BP: $-\frac{C_5R_3R_5}{C_1R_3+C_1R_5+2C_5R_3R_5g_m+C_5R_5}$

Qz: None

Wz: None

8.13 INVALID-NUMER-13 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

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

Parameters:

Q: $\frac{C_1C_5R_3\sqrt{\frac{g_m}{C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_5\sqrt{\frac{g_m}{C_1C_5R_3+C_1C_5R_5}}}{C_1+2C_5R_3g_m+C_5R_5g_m+C_5}$

wo: $\sqrt{\frac{g_m}{C_1C_5R_3+C_1C_5R_5}}$

bandwidth: $\frac{\sqrt{\frac{g_m}{C_1C_5R_3+C_1C_5R_5}}(C_1+2C_5R_3g_m+C_5R_5g_m+C_5)}{C_1C_5R_3\sqrt{\frac{g_m}{C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_5\sqrt{\frac{g_m}{C_1C_5R_3+C_1C_5R_5}}}$

K-LP: R_3

K-HP: 0

K-BP: $\frac{C_5R_3R_5g_m-C_5R_3}{C_1+2C_5R_3g_m+C_5R_5g_m+C_5}$

Qz: None

Wz: None

8.14 INVALID-NUMER-14 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5R_5s + R_5g_m - 1}{2g_m + s^2\left(C_1C_3R_5 + C_1C_5R_5 + C_3C_5R_5\right) + s\left(C_1 + C_3R_5g_m + C_3 + 2C_5R_5g_m\right)}$$

Parameters:

Q: $\frac{\sqrt{2}C_1C_3R_5\sqrt{\frac{g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}}+\sqrt{2}C_1C_5R_5\sqrt{\frac{g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}}+\sqrt{2}C_3C_5R_5\sqrt{\frac{g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}}}{C_1+C_3R_5g_m+C_3+2C_5R_5g_m}$

wo: $\sqrt{2}\sqrt{\frac{g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}}$

bandwidth: $\frac{\sqrt{2}\sqrt{\frac{g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}}(C_1+C_3R_5g_m+C_3+2C_5R_5g_m)}{\sqrt{2}C_1C_3R_5\sqrt{\frac{g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}}+\sqrt{2}C_1C_5R_5\sqrt{\frac{g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}}+\sqrt{2}C_3C_5R_5\sqrt{\frac{g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}}}$

K-LP: $\frac{R_5g_m-1}{2g_m}$

K-HP: 0

K-BP: $-\frac{C_5R_5}{C_1+C_3R_5g_m+C_3+2C_5R_5g_m}$

Qz: None

Wz: None

8.15 INVALID-NUMER-15 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5R_3s + R_3g_m}{g_m + s^2\left(C_1C_3R_3 + C_1C_5R_3 + C_3C_5R_3\right) + s\left(C_1 + C_3R_3g_m + 2C_5R_3g_m + C_5\right)}$$

Parameters:

Q: $\frac{C_1C_3R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}}+C_1C_5R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}}+C_3C_5R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}}}{C_1+C_3R_3g_m+2C_5R_3g_m+C_5}$

wo: $\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}}$

bandwidth: $\frac{\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}}(C_1+C_3R_3g_m+2C_5R_3g_m+C_5)}{C_1C_3R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}}+C_1C_5R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}}+C_3C_5R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}}}$

K-LP: R_3

K-HP: 0

K-BP: $-\frac{C_5R_3}{C_1+C_3R_3g_m+2C_5R_3g_m+C_5}$

Qz: None

Wz: None

8.16 INVALID-NUMER-16 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5R_3R_5s + R_3R_5g_m - R_3}{2R_3g_m + R_5g_m + s^2\left(C_1C_3R_3R_5 + C_1C_5R_3R_5 + C_3C_5R_3R_5\right) + s\left(C_1R_3 + C_1R_5 + C_3R_3R_5g_m + C_3R_3 + 2C_5R_3R_5g_m + C_5R_5\right) + 1}$$

Parameters:

Q: $\frac{C_1C_3R_3R_5\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}+C_1C_5R_3R_5\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}+C_3C_5R_3R_5\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}}{C_1R_3+C_1R_5+C_3R_3R_5g_m+C_3R_3+2C_5R_3R_5g_m+C_5R_5}$

wo: $\sqrt{\frac{2R_3g_m+R_5g_m+1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}$

bandwidth: $\frac{\sqrt{\frac{2R_3g_m+R_5g_m+1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}(C_1R_3+C_1R_5+C_3R_3R_5g_m+C_3R_3+2C_5R_3R_5g_m+C_5R_5)}{C_1C_3R_3R_5\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}+C_1C_5R_3R_5\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}+C_3C_5R_3R_5\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g}{C_1C_3R_3R_5+C_1C_5R}}}$

K-LP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$
K-HP: 0
K-BP: $-\frac{C_5R_3R_5\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}}{C_1R_3\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}+C_1R_5\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{1}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}+C_3R_3R_5g_m\sqrt{\frac{2R_3g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}+\frac{R_5g_m}{C_1C_3R_3R_5+C_1C_5R_3R_5+C_3C_5R_3R_5}}}$
Qz: None
Wz: None

8.17 INVALID-NUMER-17 $Z(s)=\left(\frac{1}{C_1s},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s)=\frac{R_5g_m+s\left(C_3R_3R_5g_m-C_3R_3\right)-1}{2g_m+s^2\left(C_1C_3R_3+C_1C_3R_5\right)+s\left(C_1+2C_3R_3g_m+C_3R_5g_m+C_3\right)}$$

Parameters:

Q: $\frac{\sqrt{2}C_1C_3R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_5\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_5}}}{C_1+2C_3R_3g_m+C_3R_5g_m+C_3}$
wo: $\sqrt{2}\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_5}}$
bandwidth: $\frac{\sqrt{2}\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_5}}(C_1+2C_3R_3g_m+C_3R_5g_m+C_3)}{\sqrt{2}C_1C_3R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_5\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_3R_5}}}$
K-LP: $\frac{R_5g_m-1}{2g_m}$
K-HP: 0
K-BP: $\frac{C_3R_3R_5g_m-C_3R_3}{C_1+2C_3R_3g_m+C_3R_5g_m+C_3}$
Qz: None
Wz: None

8.18 INVALID-NUMER-18 $Z(s)=\left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s)=\frac{-C_5R_1R_3s+R_1R_3g_m}{C_1C_5R_1R_3s^2+R_1g_m+s\left(C_1R_1+2C_5R_1R_3g_m+C_5R_1+C_5R_3\right)+1}$$

Parameters:

Q: $\frac{C_1C_5R_1R_3\sqrt{\frac{g_m}{C_1C_5R_3}+\frac{1}{C_1C_5R_1R_3}}}{C_1R_1+2C_5R_1R_3g_m+C_5R_1+C_5R_3}$
wo: $\sqrt{\frac{R_1g_m+1}{C_1C_5R_1R_3}}$
bandwidth: $\frac{\sqrt{\frac{R_1g_m+1}{C_1C_5R_1R_3}}(C_1R_1+2C_5R_1R_3g_m+C_5R_1+C_5R_3)}{C_1C_5R_1R_3\sqrt{\frac{g_m}{C_1C_5R_3}+\frac{1}{C_1C_5R_1R_3}}}$
K-LP: $\frac{R_1R_3g_m}{R_1g_m+1}$
K-HP: 0
K-BP: $-\frac{C_5R_1R_3}{C_1R_1+2C_5R_1R_3g_m+C_5R_1+C_5R_3}$
Qz: None
Wz: None

8.19 INVALID-NUMER-19 $Z(s)=\left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s)=\frac{-C_5R_1R_3R_5s+R_1R_3R_5g_m-R_1R_3}{C_1C_5R_1R_3R_5s^2+2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5+s\left(C_1R_1R_3+C_1R_1R_5+2C_5R_1R_3R_5g_m+C_5R_1R_5+C_5R_3R_5\right)}$$

Parameters:

Q: $\frac{C_1C_5R_1R_3R_5\sqrt{\frac{2g_m}{C_1C_5R_5}+\frac{g_m}{C_1C_5R_3}+\frac{1}{C_1C_5R_3R_5}+\frac{1}{C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3}}}{C_1R_1R_3+C_1R_1R_5+2C_5R_1R_3R_5g_m+C_5R_1R_5+C_5R_3R_5}$
wo: $\sqrt{\frac{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}{C_1C_5R_1R_3R_5}}$
bandwidth: $\frac{\sqrt{\frac{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}{C_1C_5R_1R_3R_5}}(C_1R_1R_3+C_1R_1R_5+2C_5R_1R_3R_5g_m+C_5R_1R_5+C_5R_3R_5)}{C_1C_5R_1R_3R_5\sqrt{\frac{2g_m}{C_1C_5R_5}+\frac{g_m}{C_1C_5R_3}+\frac{1}{C_1C_5R_3R_5}+\frac{1}{C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3}}}$
K-LP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$
K-HP: 0
K-BP: $-\frac{C_5R_1R_3R_5}{C_1R_1R_3+C_1R_1R_5+2C_5R_1R_3R_5g_m+C_5R_1R_5+C_5R_3R_5}$
Qz: None

Wz: None

8.20 INVALID-NUMER-20 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1R_3g_m + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^2\left(C_1C_5R_1R_3 + C_1C_5R_1R_5\right) + s\left(C_1R_1 + 2C_5R_1R_3g_m + C_5R_1R_5g_m + C_5R_1 + C_5R_3 + C_5R_5\right) + 1}$$

Parameters:

Q: $\frac{C_1C_5R_1R_3\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}+C_1C_5R_1R_5\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}}{C_1R_1+2C_5R_1R_3g_m+C_5R_1R_5g_m+C_5R_1+C_5R_3+C_5R_5}$

wo: $\sqrt{\frac{R_1g_m+1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}$

bandwidth: $\frac{\sqrt{\frac{R_1g_m+1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}\left(C_1R_1+2C_5R_1R_3g_m+C_5R_1R_5g_m+C_5R_1+C_5R_3+C_5R_5\right)}{C_1C_5R_1R_3\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}+C_1C_5R_1R_5\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}}$

K-LP: $\frac{R_1R_3g_m}{R_1g_m+1}$

K-HP: 0

K-BP: $\frac{C_5R_1R_3R_5g_m\sqrt{\frac{g_m}{C_1C_5R_3+C_1C_5R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}-C_5R_1R_3\sqrt{\frac{g_m}{C_1C_5R_3+C_1C_5R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}}{C_1R_1\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}+2C_5R_1R_3g_m\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}+C_5R_1R_5g_m\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}+C_5R_1\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}+C_5R_3\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1C_5R_1R_5}+\frac{1}{C_1C_5R_1R_3+C_1C_5R_1R_5}}+C_5R_5\sqrt{\frac{R_1g_m}{C_1C_5R_1R_3+C_1}}$

Qz: None

Wz: None

8.21 INVALID-NUMER-21 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5R_1R_5s + R_1R_5g_m - R_1}{2R_1g_m + s^2\left(C_1C_3R_1R_5 + C_1C_5R_1R_5 + C_3C_5R_1R_5\right) + s\left(C_1R_1 + C_3R_1R_5g_m + C_3R_1 + C_3R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

Parameters:

Q: $\frac{C_1C_3R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}+C_1C_5R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}+C_3C_5R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}}{C_1R_1+C_3R_1R_5g_m+C_3R_1+C_3R_5+2C_5R_1R_5g_m+C_5R_5}$

wo: $\sqrt{\frac{2R_1g_m+1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}$

bandwidth: $\frac{\sqrt{\frac{2R_1g_m+1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}\left(C_1R_1+C_3R_1R_5g_m+C_3R_1+C_3R_5+2C_5R_1R_5g_m+C_5R_5\right)}{C_1C_3R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}+C_1C_5R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}+C_3C_5R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}}$

K-LP: $\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$

K-HP: 0

K-BP: $-\frac{C_5R_1R_5\sqrt{\frac{2g_m}{C_1C_3R_5+C_1C_5R_5+C_3C_5R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}}{C_1R_1\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}+C_3R_1R_5g_m\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}+C_3R_1\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}+C_3R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}+\frac{1}{C_1C_3R_1R_5+C_1C_5R_1R_5+C_3C_5R_1R_5}}+C_3R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_5+C_1}}$

Qz: None

Wz: None

8.22 INVALID-NUMER-22 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_5R_1R_3s + R_1R_3g_m}{R_1g_m + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_3C_5R_1R_3\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

Parameters:

Q: $\frac{C_1C_3R_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}+C_1C_5R_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}+C_3C_5R_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}}{C_1R_1+C_3R_1R_3g_m+C_3R_3+2C_5R_1R_3g_m+C_5R_1+C_5R_3}$

wo: $\sqrt{\frac{R_1g_m+1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}$

bandwidth: $\frac{\sqrt{\frac{R_1g_m+1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}\left(C_1R_1+C_3R_1R_3g_m+C_3R_3+2C_5R_1R_3g_m+C_5R_1+C_5R_3\right)}{C_1C_3R_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}+C_1C_5R_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}+C_3C_5R_1R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}}$

K-LP: $\frac{R_1R_3g_m}{R_1g_m+1}$

K-HP: 0

K-BP: $-\frac{C_5R_1R_3\sqrt{\frac{g_m}{C_1C_3R_3+C_1C_5R_3+C_3C_5R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}}{C_1R_1\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}+C_3R_1R_3g_m\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}+C_3R_3\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}}+2C_5R_1R_3g_m\sqrt{\frac{R_1g_m}{C_1C_3R_1R_3+C_1C_5R_1R_3+C_3C_5R_1R_3}+\frac{1}{C_1C_3R_1R_3+C_1C_5}}$

Qz: None

Wz: None

8.23 INVALID-NUMER-23 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^2\left(C_1C_3R_1R_3R_5 + C_1C_5R_1R_3R_5 + C_3C_5R_1R_3R_5\right) + s\left(C_1R_1R_3 + C_1R_1R_5 + C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5 + 2C_5R_1R_3R_5g_m + C_5R_1R_5 + C_5R_3R_5\right)}$$

Parameters:

Q: $\frac{C_1C_3R_1R_3R_5\sqrt{\frac{2R_1R_3g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_1R_5g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_1}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_3}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_5}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}}+C_1C_5R_1R_3R_5\sqrt{\frac{2R_1R_3g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_1R_5g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}}}{C_1R_1R_3+C_1R_1}$

wo: $\sqrt{\frac{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}}$

bandwidth: $\frac{\sqrt{\frac{2R_1R_3g_m+R_1R_5g_m+}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5}}}{C_1C_3R_1R_3R_5\sqrt{\frac{2R_1R_3g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_1R_5g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_1}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_3}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_5}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}}+C_1C_5R_1R_3R_5\sqrt{\frac{2R_1R_3g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{}{C_1C_3R_1R_3R_5+C}}}$

K-LP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-HP: 0

K-BP: $-\frac{}{C_1R_1R_3\sqrt{\frac{2R_1R_3g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_1R_5g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_1}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_3}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_5}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}}+C_1R_1R_5\sqrt{\frac{2R_1R_3g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3C_5R_1R_3R_5}+\frac{R_1R_5g_m}{C_1C_3R_1R_3R_5+C_1C_5R_1R_3R_5+C_3}}}$

Qz: None

Wz: None

8.24 INVALID-NUMER-24 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3\right)}{2R_1g_m + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_5\right) + s\left(C_1R_1 + 2C_3R_1R_3g_m + C_3R_1R_5g_m + C_3R_1 + C_3R_3 + C_3R_5\right) + 1}$$

Parameters:

Q: $\frac{C_1C_3R_1R_3\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}+C_1C_3R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}}{C_1R_1+2C_3R_1R_3g_m+C_3R_1R_5g_m+C_3R_1+C_3R_3+C_3R_5}$

wo: $\sqrt{\frac{2R_1g_m+1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}$

bandwidth: $\frac{\sqrt{\frac{2R_1g_m+1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}\left(C_1R_1+2C_3R_1R_3g_m+C_3R_1R_5g_m+C_3R_1+C_3R_3+C_3R_5\right)}{C_1C_3R_1R_3\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}+C_1C_3R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}}$

K-LP: $\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$

K-HP: 0

K-BP: $\frac{C_3R_1R_3R_5g_m\sqrt{\frac{2g_m}{C_1C_3R_3+C_1C_3R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}-C_3R_1R_3\sqrt{\frac{2g_m}{C_1C_3R_3+C_1C_3R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}}{C_1R_1\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}+2C_3R_1R_3g_m\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}+C_3R_1R_5g_m\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}+C_3R_1\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}+C_3R_3\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1C_3R_1R_5}+\frac{1}{C_1C_3R_1R_3+C_1C_3R_1R_5}}+C_3R_5\sqrt{\frac{2R_1g_m}{C_1C_3R_1R_3+C_1}}}$

Qz: None

Wz: None

8.25 INVALID-NUMER-25 $Z(s) = \left(R_1+\frac{1}{C_1s},\ \infty,\ \frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5g_m + s\left(C_1R_1R_5g_m - C_1R_1\right) - 1}{2g_m + s^2\left(C_1C_3R_1R_5g_m + C_1C_3R_1 + C_1C_3R_5\right) + s\left(2C_1R_1g_m + C_1 + C_3R_5g_m + C_3\right)}$$

Parameters:

Q: $\frac{\sqrt{2}C_1C_3R_1R_5g_m\sqrt{\frac{g_m}{C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_5}}+\sqrt{2}C_1C_3R_1\sqrt{\frac{g_m}{C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_5}}+\sqrt{2}C_1C_3R_5\sqrt{\frac{g_m}{C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_5}}}{2C_1R_1g_m+C_1+C_3R_5g_m+C_3}$

wo: $\sqrt{2}\sqrt{\frac{g_m}{C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_5}}$

bandwidth: $\frac{\sqrt{2}\sqrt{\frac{g_m}{C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_5}}\left(2C_1R_1g_m+C_1+C_3R_5g_m+C_3\right)}{\sqrt{2}C_1C_3R_1R_5g_m\sqrt{\frac{g_m}{C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_5}}+\sqrt{2}C_1C_3R_1\sqrt{\frac{g_m}{C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_5}}+\sqrt{2}C_1C_3R_5\sqrt{\frac{g_m}{C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_5}}}$

K-LP: $\frac{R_5g_m-1}{2g_m}$

K-HP: 0

K-BP: $\frac{C_1R_1R_5g_m-C_1R_1}{2C_1R_1g_m+C_1+C_3R_5g_m+C_3}$

Qz: None

Wz: None

8.26 INVALID-NUMER-26 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s\left(C_1 R_1 R_3 R_5 g_m - C_1 R_1 R_3\right)}{2R_3 g_m + R_5 g_m + s^2\left(C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5\right) + s\left(2C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3\right) + 1}$$

Parameters:

Q: $\frac{C_1 C_3 R_1 R_3 R_5 g_m \sqrt{\frac{2R_3 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{R_5 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}} + C_1 C_3 R_1 R_3 \sqrt{\frac{2R_3 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{R_5 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}} + C_1 C_3 R_3 R_5 \sqrt{\frac{2R_3 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{R_5 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}}}{2C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3}$

wo: $\sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}}$

bandwidth: $\frac{\sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}}\left(2C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3\right)}{C_1 C_3 R_1 R_3 R_5 g_m \sqrt{\frac{2R_3 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{R_5 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}} + C_1 C_3 R_1 R_3 \sqrt{\frac{2R_3 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{R_5 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}} + C_1 C_3 R_3 R_5 \sqrt{\frac{C_1 C_3 R_1 R_3 R_5 g_m}$

K-LP: $\frac{R_3 R_5 g_m - R_3}{2R_3 g_m + R_5 g_m + 1}$

K-HP: 0

K-BP: $\frac{}{2C_1 R_1 R_3 g_m \sqrt{\frac{2R_3 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{R_5 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}} + C_1 R_1 R_5 g_m \sqrt{\frac{2R_3 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{R_5 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5} + \frac{1}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5}} + C_1 R_1 \sqrt{\frac{2R_3 g_m}{C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3}}$

Qz: None

Wz: None

8.27 INVALID-NUMER-27 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 s + L_1 g_m}{C_3 + C_5 + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1\right) + s\left(C_3 L_1 g_m + 2C_5 L_1 g_m\right)}$$

Parameters:

Q: $\frac{C_1 C_3 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}} + C_1 C_5 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}} + C_3 C_5 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}}}{C_3 g_m + 2C_5 g_m}$

wo: $\sqrt{\frac{C_3 + C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}}$

bandwidth: $\frac{\sqrt{\frac{C_3 + C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}}\left(C_3 g_m + 2C_5 g_m\right)}{C_1 C_3 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}} + C_1 C_5 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}} + C_3 C_5 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}}}$

K-LP: $\frac{L_1 g_m}{C_3 + C_5}$

K-HP: 0

K-BP: $-\frac{C_5}{C_3 g_m + 2C_5 g_m}$

Qz: None

Wz: None

8.28 INVALID-NUMER-28 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_1 s + L_1 R_1 g_m}{C_3 R_1 + C_5 R_1 + s^2\left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_1\right) + s\left(C_3 L_1 R_1 g_m + C_3 L_1 + 2C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

Parameters:

Q: $\frac{C_1 C_3 R_1 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}} + C_1 C_5 R_1 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}} + C_3 C_5 R_1 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}}}{C_3 R_1 g_m + C_3 + 2C_5 R_1 g_m + C_5}$

wo: $\sqrt{\frac{C_3 + C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}}$

bandwidth: $\frac{\sqrt{\frac{C_3 + C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}}\left(C_3 R_1 g_m + C_3 + 2C_5 R_1 g_m + C_5\right)}{C_1 C_3 R_1 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}} + C_1 C_5 R_1 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}} + C_3 C_5 R_1 \sqrt{\frac{C_3}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1} + \frac{C_5}{C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1}}}$

K-LP: $\frac{L_1 g_m}{C_3 + C_5}$

K-HP: 0

K-BP: $-\frac{C_5 R_1}{C_3 R_1 g_m + C_3 + 2C_5 R_1 g_m + C_5}$

Qz: None

Wz: None

9 INVALID-WZ

9.1 INVALID-WZ-1 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 R_1 R_3 R_5 s^2 + R_1 R_5 g_m - R_1 + s\left(C_3 R_1 R_3 R_5 g_m - C_3 R_1 R_3 - C_5 R_1 R_5\right)}{2R_1 g_m + s^2\left(2C_3 C_5 R_1 R_3 R_5 g_m + C_3 C_5 R_1 R_5 + C_3 C_5 R_3 R_5\right) + s\left(2C_3 R_1 R_3 g_m + C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_3 + C_3 R_5 + 2C_5 R_1 R_5 g_m + C_5 R_5\right) + 1}$$

Parameters:

Q: $\frac{2C_3C_5R_1R_3R_5g_m\sqrt{\frac{2R_1g_m}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}+\frac{1}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}}+C_3C_5R_1R_5\sqrt{\frac{2R_1g_m}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}+\frac{1}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}}+C_3C_5R_3R_5\sqrt{\frac{2R_1g_m}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}+\frac{1}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}}}{2C_3R_1R_3g_m+C_3R_1R_5g_m+C_3R_1+C_3R_3+C_3R_5+2C_5R_1R_5g_m+C_5R_5}$

wo: $\sqrt{\frac{2R_1g_m+1}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}}$

bandwidth: $\frac{\sqrt{\frac{2R_1g_m+1}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}}\left(2C_3R_1R_3g_m+C_3R_1R_5g_m+C_3R_1+C_3R_3+C_3R_5+2C_5R_1R_5g_m+C_5R_5\right)}{2C_3C_5R_1R_3R_5g_m\sqrt{\frac{2R_1g_m}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}+\frac{1}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}}+C_3C_5R_1R_5\sqrt{\frac{2R_1g_m}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}+\frac{1}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}}+C_3C_5R_3R_5\sqrt{\frac{2R_1g_m}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}+\frac{1}{2C_3C_5R_1R_3R_5g_m+C_3C_5R_1R_5+C_3C_5R_3R_5}}}$

K-LP: $\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$

K-HP: $-\frac{R_1R_3}{2R_1R_3g_m+R_1+R_3}$

K-BP: $\frac{C_3R_1R_3R_5g_m-C_3R_1R_3-C_5R_1R_5}{2C_3R_1R_3g_m+C_3R_1R_5g_m+C_3R_1+C_3R_3+C_3R_5+2C_5R_1R_5g_m+C_5R_5}$

Qz: None

Wz: $\sqrt{\frac{-R_5g_m+1}{C_3C_5R_3R_5}}$

9.2 INVALID-WZ-2 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 R_3 s^2 + L_1 g_m + s\left(C_3 L_1 R_3 g_m - C_5 L_1\right)}{C_3 + C_5 + s^2\left(2C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1\right) + s\left(C_3 C_5 R_3 + C_3 L_1 g_m + 2C_5 L_1 g_m\right)}$$

Parameters:

Q: $\frac{2C_3C_5L_1R_3g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}+C_3C_5L_1\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}}{C_3C_5R_3+C_3L_1g_m+2C_5L_1g_m}$

wo: $\sqrt{\frac{C_3+C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}$

bandwidth: $\frac{\sqrt{\frac{C_3+C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}\left(C_3C_5R_3+C_3L_1g_m+2C_5L_1g_m\right)}{2C_3C_5L_1R_3g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}+C_3C_5L_1\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}}$

K-LP: $\frac{L_1g_m}{C_3+C_5}$

K-HP: $-\frac{R_3}{2R_3g_m+1}$

K-BP: $\frac{C_3L_1R_3g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1}+\frac{1}{2C_3L_1R_3g_m+C_3L_1}}-C_5L_1\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1}+\frac{1}{2C_3L_1R_3g_m+C_3L_1}}}{C_3C_5R_3\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}+C_3L_1g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}+2C_5L_1g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1}}}$

Qz: None

Wz: $\sqrt{-\frac{g_m}{C_3C_5R_3}}$

9.3 INVALID-WZ-3 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 g_m + s^2\left(C_3 C_5 L_1 R_3 R_5 g_m - C_3 C_5 L_1 R_3\right) + s\left(C_3 L_1 R_3 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_3 + C_5 + s^2\left(2C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1\right) + s\left(C_3 C_5 R_3 + C_3 C_5 R_5 + C_3 L_1 g_m + 2C_5 L_1 g_m\right)}$$

Parameters:

Q: $\frac{2C_3C_5L_1R_3g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3C_5L_1R_5g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3C_5L_1\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}}{C_3C_5R_3+C_3C_5R_5+C_3L_1g_m+2C_5L_1g_m}$

wo: $\sqrt{\frac{C_3+C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}$

bandwidth: $\frac{\sqrt{\frac{C_3+C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}\left(C_3C_5R_3+C_3C_5R_5+C_3L_1g_m+2C_5L_1g_m\right)}{2C_3C_5L_1R_3g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3C_5L_1R_5g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3C_5L_1\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}}$

K-LP: $\frac{L_1g_m}{C_3+C_5}$

K-HP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$

K-BP: $\frac{C_3L_1R_3g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}+\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}+C_5L_1R_5g_m\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}+\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}-C_5L_1\sqrt{\frac{1}{2C_5L_1R_3g_m+C_5L_1R_5g_m+C_5L_1}+\frac{1}{2C_3L_1R_3g_m+C_3L_1R_5g_m+C_3L_1}}}{C_3C_5R_3\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3C_5R_5\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}+C_3L_1g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}+\frac{C_5}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5L_1}}+2C_5L_1g_m\sqrt{\frac{C_3}{2C_3C_5L_1R_3g_m+C_3C_5L_1R_5g_m+C_3C_5}}$

Qz: None

Wz: $\sqrt{\frac{g_m}{C_3C_5R_3R_5g_m-C_3C_5R_3}}$

9.4 INVALID-WZ-4 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

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

Parameters:

Q: $\frac{2C_1C_5R_1R_3g_m\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1+C_1C_5R_3}}+C_1C_5R_1\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1+C_1C_5R_3}}+C_1C_5R_3\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1+C_1C_5R_3}}}{C_1R_1g_m+C_1+2C_5R_3g_m+C_5}$

wo: $\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1+C_1C_5R_3}}$

bandwidth: $\frac{\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1+C_1C_5R_3}}(C_1R_1g_m+C_1+2C_5R_3g_m+C_5)}{2C_1C_5R_1R_3g_m\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1+C_1C_5R_3}}+C_1C_5R_1\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1+C_1C_5R_3}}+C_1C_5R_3\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1+C_1C_5R_3}}}$

K-LP: R_3

K-HP: $-\frac{R_1R_3}{2R_1R_3g_m+R_1+R_3}$

K-BP: $\frac{C_1R_1R_3g_m-C_5R_3}{C_1R_1g_m+C_1+2C_5R_3g_m+C_5}$

Qz: None

Wz: $\sqrt{-\frac{g_m}{C_1C_5R_1}}$

9.5 INVALID-WZ-5 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5R_1R_3R_5s^2 + R_3R_5g_m - R_3 + s\left(C_1R_1R_3R_5g_m - C_1R_1R_3 - C_5R_3R_5\right)}{2R_3g_m + R_5g_m + s^2\left(2C_1C_5R_1R_3R_5g_m + C_1C_5R_1R_5 + C_1C_5R_3R_5\right) + s\left(2C_1R_1R_3g_m + C_1R_1R_5g_m + C_1R_1 + C_1R_3 + C_1R_5 + 2C_5R_3R_5g_m + C_5R_5\right) + 1}$$

Parameters:

Q: $\frac{2C_1C_5R_1R_3R_5g_m\sqrt{\frac{2R_3g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{R_5g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}+C_1C_5R_1R_5\sqrt{\frac{2R_3g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{R_5g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}+C_1C_5R_3R_5\sqrt{\frac{2R_3g_m}{2C_1C_5R_1R_3R_5g_m+C}}}{2C_1R_1R_3g_m+C_1R_1R_5g_m+C_1R_1+C_1R_3+C_1R_5+2C_5R_3R_5g_m+C_5R_5}$

wo: $\sqrt{\frac{2R_3g_m+R_5g_m+1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}$

bandwidth: $\frac{\sqrt{\frac{2R_3g_m+R_5g_m+1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}(2C_1R_1R_3g_m+C_1R_1R_5g_m+C_1R_1+C_1R_3+C_1R_5+2C_5R_3R_5g_m+C_5R_5)}{2C_1C_5R_1R_3R_5g_m\sqrt{\frac{2R_3g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{R_5g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}+C_1C_5R_1R_5\sqrt{\frac{2R_3g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{R_5g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}+C_1C_5R_3R_5\sqrt{\frac{2R_3g_m+R_5g_m+1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}}$

K-LP: $\frac{R_3R_5g_m-R_3}{2R_3g_m+R_5g_m+1}$

K-HP: $-\frac{R_1R_3}{2R_1R_3g_m+R_1+R_3}$

K-BP: $\frac{C_1R_1R_3R_5g_m\sqrt{\frac{2R_3g_m+R_5g_m+1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}(2C_1R_1R_3g_m+C_1R_1R_5g_m+C_1R_1+C_1R_3+C_1R_5+2C_5R_3R_5g_m+C_5R_5)}{2C_1C_5R_1R_3R_5g_m\sqrt{\frac{2R_3g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{R_5g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}+C_1C_5R_1R_5\sqrt{\frac{2R_3g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{R_5g_m}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}+\frac{1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}+C_1C_5R_3R_5\sqrt{\frac{2R_3g_m+R_5g_m+1}{2C_1C_5R_1R_3R_5g_m+C_1C_5R_1R_5+C_1C_5R_3R_5}}}$

Qz: None

Wz: $\sqrt{\frac{-R_5g_m+1}{C_1C_5R_1R_5}}$

9.6 INVALID-WZ-6 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3g_m + s^2\left(C_1C_5R_1R_3R_5g_m - C_1C_5R_1R_3\right) + s\left(C_1R_1R_3g_m + C_5R_3R_5g_m - C_5R_3\right)}{g_m + s^2\left(2C_1C_5R_1R_3g_m + C_1C_5R_1R_5g_m + C_1C_5R_1 + C_1C_5R_3 + C_1C_5R_5\right) + s\left(C_1R_1g_m + C_1 + 2C_5R_3g_m + C_5R_5g_m + C_5\right)}$$

Parameters:

Q: $\frac{2C_1C_5R_1R_3g_m\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_1R_5g_m\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_1\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_3\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_5\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5}}}{C_1R_1g_m+C_1+2C_5R_3g_m+C_5R_5g_m+C_5}$

wo: $\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}$

bandwidth: $\frac{\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}(C_1R_1g_m+C_1+2C_5R_3g_m+C_5R_5g_m+C_5)}{2C_1C_5R_1R_3g_m\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_1R_5g_m\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_1\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_3\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_5g_m+C_1C_5R_1+C_1C_5R_3+C_1C_5R_5}}+C_1C_5R_5\sqrt{\frac{g_m}{2C_1C_5R_1R_3g_m+C_1C_5R_1R_}}}$

K-LP: R_3

K-HP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-BP: $\frac{C_1R_1R_3g_m+C_5R_3R_5g_m-C_5R_3}{C_1R_1g_m+C_1+2C_5R_3g_m+C_5R_5g_m+C_5}$

Qz: None

Wz: $\sqrt{\frac{g_m}{C_1C_5R_1R_5g_m-C_1C_5R_1}}$

9.7 INVALID-WZ-7 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m - C_1 C_3 R_1 R_3\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_3 R_3 R_5 g_m - C_3 R_3\right) - 1}{2 g_m + s^2 \left(2 C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_3 + C_1 C_3 R_5\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3\right)}$$

Parameters:

Q: $\frac{2\sqrt{2}C_1C_3R_1R_3g_m\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_1R_5g_m\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_1\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_3\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_5\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}}{2C_1R_1g_m+C_1+2C_3R_3g_m+C_3R_5g_m+C_3}$

wo: $\sqrt{2}\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}$

bandwidth: $\frac{\sqrt{2}\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}(2C_1R_1g_m+C_1+2C_3R_3g_m+C_3R_5g_m+C_3)}{2\sqrt{2}C_1C_3R_1R_3g_m\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_1R_5g_m\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_1\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R_3\sqrt{\frac{g_m}{2C_1C_3R_1R_3g_m+C_1C_3R_1R_5g_m+C_1C_3R_1+C_1C_3R_3+C_1C_3R_5}}+\sqrt{2}C_1C_3R$

K-LP: $\frac{R_5g_m-1}{2g_m}$

K-HP: $\frac{R_1R_3R_5g_m-R_1R_3}{2R_1R_3g_m+R_1R_5g_m+R_1+R_3+R_5}$

K-BP: $\frac{C_1R_1R_5g_m-C_1R_1+C_3R_3R_5g_m-C_3R_3}{2C_1R_1g_m+C_1+2C_3R_3g_m+C_3R_5g_m+C_3}$

Qz: None

Wz: $\sqrt{\frac{1}{C_1C_3R_1R_3}}$

10 INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (R_1,\ \infty,\ R_3,\ \infty,\ R_5,\ \infty)$

$$H(s) = \frac{R_1 R_3 R_5 g_m - R_1 R_3}{2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_3 s + R_1 R_3 g_m}{R_1 g_m + s \left(2 C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3\right) + 1}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_3 R_5 s + R_1 R_3 R_5 g_m - R_1 R_3}{2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s \left(2 C_5 R_1 R_3 R_5 g_m + C_5 R_1 R_5 + C_5 R_3 R_5\right)}$$

10.4 INVALID-ORDER-4 $Z(s) = \left(R_1,\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

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

10.5 INVALID-ORDER-5 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1}{2 R_1 g_m + s \left(C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5\right) + 1}$$

10.6 INVALID-ORDER-6 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 R_1 s + R_1 g_m}{C_3 C_5 R_1 s^2 + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.7 INVALID-ORDER-7 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_1 g_m + s\left(C_5 R_1 R_5 g_m - C_5 R_1\right)}{s^2\left(C_3 C_5 R_1 R_5 g_m + C_3 C_5 R_1 + C_3 C_5 R_5\right) + s\left(C_3 R_1 g_m + C_3 + 2C_5 R_1 g_m + C_5\right)}$$

10.8 INVALID-ORDER-8 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_1 g_m s^2 - C_5 R_1 s + R_1 g_m}{C_3 C_5 R_1 s^2 + s^3\left(C_3 C_5 L_5 R_1 g_m + C_3 C_5 L_5\right) + s\left(C_3 R_1 g_m + C_3 + 2C_5 R_1 g_m + C_5\right)}$$

10.9 INVALID-ORDER-9 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_1 s^2 + L_5 R_1 g_m s - R_1}{C_3 C_5 L_5 R_1 s^3 + C_3 R_1 s + 2R_1 g_m + s^2\left(C_3 L_5 R_1 g_m + C_3 L_5 + 2C_5 L_5 R_1 g_m + C_5 L_5\right) + 1}$$

10.10 INVALID-ORDER-10 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_1 g_m s^2 + R_1 g_m + s\left(C_5 R_1 R_5 g_m - C_5 R_1\right)}{s^3\left(C_3 C_5 L_5 R_1 g_m + C_3 C_5 L_5\right) + s^2\left(C_3 C_5 R_1 R_5 g_m + C_3 C_5 R_1 + C_3 C_5 R_5\right) + s\left(C_3 R_1 g_m + C_3 + 2C_5 R_1 g_m + C_5\right)}$$

10.11 INVALID-ORDER-11 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_1 R_5 s^2 - R_1 R_5 + s\left(L_5 R_1 R_5 g_m - L_5 R_1\right)}{C_3 C_5 L_5 R_1 R_5 s^3 + 2R_1 R_5 g_m + R_5 + s^2\left(C_3 L_5 R_1 R_5 g_m + C_3 L_5 R_1 + C_3 L_5 R_5 + 2C_5 L_5 R_1 R_5 g_m + C_5 L_5 R_5\right) + s\left(C_3 R_1 R_5 + 2L_5 R_1 g_m + L_5\right)}$$

10.12 INVALID-ORDER-12 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_5 R_1 g_m s + R_1 R_5 g_m - R_1 + s^2\left(C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right)}{2R_1 g_m + s^3\left(C_3 C_5 L_5 R_1 R_5 g_m + C_3 C_5 L_5 R_1 + C_3 C_5 L_5 R_5\right) + s^2\left(C_3 L_5 R_1 g_m + C_3 L_5 + 2C_5 L_5 R_1 g_m + C_5 L_5\right) + s\left(C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5\right) + 1}$$

10.13 INVALID-ORDER-13 $Z(s) = \left(R_1,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_5 s + R_1 R_5 g_m - R_1 + s^2\left(C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right)}{2R_1 g_m + s^3\left(C_3 C_5 L_5 R_1 R_5 g_m + C_3 C_5 L_5 R_1 + C_3 C_5 L_5 R_5\right) + s^2\left(C_3 C_5 R_1 R_5 + 2C_5 L_5 R_1 g_m + C_5 L_5\right) + s\left(C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5 + 2C_5 R_1 R_5 g_m + C_5 R_5\right) + 1}$$

10.14 INVALID-ORDER-14 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1 R_3 R_5 g_m - R_1 R_3}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s\left(C_3 R_1 R_3 R_5 g_m + C_3 R_1 R_3 + C_3 R_3 R_5\right)}$$

10.15 INVALID-ORDER-15 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_1 R_3 g_m s^2 - C_5 R_1 R_3 s + R_1 R_3 g_m}{R_1 g_m + s^3\left(C_3 C_5 L_5 R_1 R_3 g_m + C_3 C_5 L_5 R_3\right) + s^2\left(C_3 C_5 R_1 R_3 + C_5 L_5 R_1 g_m + C_5 L_5\right) + s\left(C_3 R_1 R_3 g_m + C_3 R_3 + 2C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3\right) + 1}$$

10.16 INVALID-ORDER-16 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_1 R_3 s^2 + L_5 R_1 R_3 g_m s - R_1 R_3}{C_3 C_5 L_5 R_1 R_3 s^3 + 2R_1 R_3 g_m + R_1 + R_3 + s^2\left(C_3 L_5 R_1 R_3 g_m + C_3 L_5 R_3 + 2C_5 L_5 R_1 R_3 g_m + C_5 L_5 R_1 + C_5 L_5 R_3\right) + s\left(C_3 R_1 R_3 + L_5 R_1 g_m + L_5\right)}$$

10.17 INVALID-ORDER-17 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_5R_1R_3g_ms^2 + R_1R_3g_m + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^3\left(C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_3\right) + s^2\left(C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_3 + C_3C_5R_3R_5 + C_5L_5R_1g_m + C_5L_5\right) + s\left(C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1R_5g_m + C_5R_1 + C_5R_3 + C_5R_5\right) + 1}$$

10.18 INVALID-ORDER-18 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_3R_5s^2 - R_1R_3R_5 + s\left(L_5R_1R_3R_5g_m - L_5R_1R_3\right)}{C_3C_5L_5R_1R_3R_5s^3 + 2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^2\left(C_3L_5R_1R_3R_5g_m + C_3L_5R_1R_3 + C_3L_5R_3R_5 + 2C_5L_5R_1R_3R_5g_m + C_5L_5R_1R_5 + C_5L_5R_3R_5\right) + s\left(C_3R_1R_3R_5 + 2L_5R_1R_3g_m + L_5R_1R_5g_m + L_5R_1 + L_5R_3 + L_5R_5\right)}$$

10.19 INVALID-ORDER-19 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{L_5R_1R_3g_ms + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_5L_5R_1R_3R_5g_m - C_5L_5R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_3 + C_3C_5L_5R_3R_5\right) + s^2\left(C_3L_5R_1R_3g_m + C_3L_5R_3 + 2C_5L_5R_1R_3g_m + C_5L_5R_1R_5g_m + C_5L_5R_1 + C_5L_5R_3 + C_5L_5R_5\right) + s\left(C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5 + L_5R_1g_m + L_5\right)}$$

10.20 INVALID-ORDER-20 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_5L_5R_1R_3R_5g_m - C_5L_5R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_3 + C_3C_5L_5R_3R_5\right) + s^2\left(C_3C_5R_1R_3R_5 + 2C_5L_5R_1R_3g_m + C_5L_5R_1R_5g_m + C_5L_5R_1 + C_5L_5R_3 + C_5L_5R_5\right) + s\left(C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5 + 2C_5R_1R_3R_5g_m + C_5R_1R_5 + C\right.}$$

10.21 INVALID-ORDER-21 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3\right)}{2R_1g_m + s\left(2C_3R_1R_3g_m + C_3R_1R_5g_m + C_3R_1 + C_3R_3 + C_3R_5\right) + 1}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5R_1R_3s^2 + R_1g_m + s\left(C_3R_1R_3g_m - C_5R_1\right)}{s^2\left(2C_3C_5R_1R_3g_m + C_3C_5R_1 + C_3C_5R_3\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.23 INVALID-ORDER-23 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1g_m + s^2\left(C_3C_5R_1R_3R_5g_m - C_3C_5R_1R_3\right) + s\left(C_3R_1R_3g_m + C_5R_1R_5g_m - C_5R_1\right)}{s^2\left(2C_3C_5R_1R_3g_m + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_3 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.24 INVALID-ORDER-24 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_5R_1R_3g_ms^3 + R_1g_m + s^2\left(-C_3C_5R_1R_3 + C_5L_5R_1g_m\right) + s\left(C_3R_1R_3g_m - C_5R_1\right)}{s^3\left(C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(2C_3C_5R_1R_3g_m + C_3C_5R_1 + C_3C_5R_3\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.25 INVALID-ORDER-25 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_5R_1R_3s^3 - R_1 + s^2\left(C_3L_5R_1R_3g_m - C_5L_5R_1\right) + s\left(-C_3R_1R_3 + L_5R_1g_m\right)}{2R_1g_m + s^3\left(2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1 + C_3C_5L_5R_3\right) + s^2\left(C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_3R_1R_3g_m + C_3R_1 + C_3R_3\right) + 1}$$

10.26 INVALID-ORDER-26 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_5 R_1 R_3 g_m s^3 + R_1 g_m + s^2 \left(C_3 C_5 R_1 R_3 R_5 g_m - C_3 C_5 R_1 R_3 + C_5 L_5 R_1 g_m\right) + s \left(C_3 R_1 R_3 g_m + C_5 R_1 R_5 g_m - C_5 R_1\right)}{s^3 \left(C_3 C_5 L_5 R_1 g_m + C_3 C_5 L_5\right) + s^2 \left(2 C_3 C_5 R_1 R_3 g_m + C_3 C_5 R_1 R_5 g_m + C_3 C_5 R_1 + C_3 C_5 R_3 + C_3 C_5 R_5\right) + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.27 INVALID-ORDER-27 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_5 R_1 R_3 R_5 s^3 - R_1 R_5 + s^2 \left(C_3 L_5 R_1 R_3 R_5 g_m - C_3 L_5 R_1 R_3 - C_5 L_5 R_1 R_5\right) + s \left(-C_3 R_1 R_3 R_5 + L_5 R_1 R_5 g_m - L_5 R_1\right)}{2 R_1 R_5 g_m + R_5 + s^3 \left(2 C_3 C_5 L_5 R_1 R_3 R_5 g_m + C_3 C_5 L_5 R_1 R_5 + C_3 C_5 L_5 R_3 R_5\right) + s^2 \left(2 C_3 L_5 R_1 R_3 g_m + C_3 L_5 R_1 R_5 g_m + C_3 L_5 R_1 + C_3 L_5 R_3 + C_3 L_5 R_5 + 2 C_5 L_5 R_1 R_5 g_m + C_5 L_5 R_5\right) + s \left(2 C_3 R_1 R_3 R_5 g_m + C_3 R_1 R_5 + C_3 R_3 R_5 + 2 L_5 R_1 g_m + L_5\right)}$$

10.28 INVALID-ORDER-28 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_3 C_5 L_5 R_1 R_3 R_5 g_m - C_3 C_5 L_5 R_1 R_3\right) + s^2 \left(C_3 L_5 R_1 R_3 g_m + C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right) + s \left(C_3 R_1 R_3 R_5 g_m - C_3 R_1 R_3 + L_5 R_1 g_m\right)}{2 R_1 g_m + s^3 \left(2 C_3 C_5 L_5 R_1 R_3 g_m + C_3 C_5 L_5 R_1 R_5 g_m + C_3 C_5 L_5 R_1 + C_3 C_5 L_5 R_3 + C_3 C_5 L_5 R_5\right) + s^2 \left(C_3 L_5 R_1 g_m + C_3 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(2 C_3 R_1 R_3 g_m + C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_3 + C_3 R_5\right) + 1}$$

10.29 INVALID-ORDER-29 $Z(s) = \left(R_1,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_3 C_5 L_5 R_1 R_3 R_5 g_m - C_3 C_5 L_5 R_1 R_3\right) + s^2 \left(-C_3 C_5 R_1 R_3 R_5 + C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right) + s \left(C_3 R_1 R_3 R_5 g_m - C_3 R_1 R_3 - C_5 R_1 R_5\right)}{2 R_1 g_m + s^3 \left(2 C_3 C_5 L_5 R_1 R_3 g_m + C_3 C_5 L_5 R_1 R_5 g_m + C_3 C_5 L_5 R_1 + C_3 C_5 L_5 R_3 + C_3 C_5 L_5 R_5\right) + s^2 \left(2 C_3 C_5 R_1 R_3 R_5 g_m + C_3 C_5 R_1 R_5 + C_3 C_5 R_3 R_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(2 C_3 R_1 R_3 g_m + C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_3 + C_3 R_5 + 2 C_5 R_1 R_5 g_m + C_5 R_5\right) + 1}$$

10.30 INVALID-ORDER-30 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_1 s^3 + C_3 L_3 R_1 g_m s^2 - C_5 R_1 s + R_1 g_m}{C_3 C_5 R_1 s^2 + s^3 \left(2 C_3 C_5 L_3 R_1 g_m + C_3 C_5 L_3\right) + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.31 INVALID-ORDER-31 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_1 R_5 s^3 - C_5 R_1 R_5 s + R_1 R_5 g_m - R_1 + s^2 \left(C_3 L_3 R_1 R_5 g_m - C_3 L_3 R_1\right)}{2 R_1 g_m + s^3 \left(2 C_3 C_5 L_3 R_1 R_5 g_m + C_3 C_5 L_3 R_5\right) + s^2 \left(C_3 C_5 R_1 R_5 + 2 C_3 L_3 R_1 g_m + C_3 L_3\right) + s \left(C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5 + 2 C_5 R_1 R_5 g_m + C_5 R_5\right) + 1}$$

10.32 INVALID-ORDER-32 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 L_3 R_1 g_m s^2 + R_1 g_m + s^3 \left(C_3 C_5 L_3 R_1 R_5 g_m - C_3 C_5 L_3 R_1\right) + s \left(C_5 R_1 R_5 g_m - C_5 R_1\right)}{s^3 \left(2 C_3 C_5 L_3 R_1 g_m + C_3 C_5 L_3\right) + s^2 \left(C_3 C_5 R_1 R_5 g_m + C_3 C_5 R_1 + C_3 C_5 R_5\right) + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.33 INVALID-ORDER-33 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_1 g_m s^4 - C_3 C_5 L_3 R_1 s^3 - C_5 R_1 s + R_1 g_m + s^2 \left(C_3 L_3 R_1 g_m + C_5 L_5 R_1 g_m\right)}{C_3 C_5 R_1 s^2 + s^3 \left(2 C_3 C_5 L_3 R_1 g_m + C_3 C_5 L_3 + C_3 C_5 L_5 R_1 g_m + C_3 C_5 L_5\right) + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.34 INVALID-ORDER-34 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_1 s^4 + C_3 L_3 L_5 R_1 g_m s^3 + L_5 R_1 g_m s - R_1 + s^2 \left(-C_3 L_3 R_1 - C_5 L_5 R_1\right)}{C_3 C_5 L_5 R_1 s^3 + C_3 R_1 s + 2 R_1 g_m + s^4 \left(2 C_3 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5\right) + s^2 \left(2 C_3 L_3 R_1 g_m + C_3 L_3 + C_3 L_5 R_1 g_m + C_3 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + 1}$$

10.35 INVALID-ORDER-35 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_1 g_m s^4 + R_1 g_m + s^3 \left(C_3 C_5 L_3 R_1 R_5 g_m - C_3 C_5 L_3 R_1\right) + s^2 \left(C_3 L_3 R_1 g_m + C_5 L_5 R_1 g_m\right) + s \left(C_5 R_1 R_5 g_m - C_5 R_1\right)}{s^3 \left(2 C_3 C_5 L_3 R_1 g_m + C_3 C_5 L_3 + C_3 C_5 L_5 R_1 g_m + C_3 C_5 L_5\right) + s^2 \left(C_3 C_5 R_1 R_5 g_m + C_3 C_5 R_1 + C_3 C_5 R_5\right) + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.36 INVALID-ORDER-36 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_1 R_5 s^4 - R_1 R_5 + s^3 \left(C_3 L_3 L_5 R_1 R_5 g_m - C_3 L_3 L_5 R_1\right) + s^2 \left(-C_3 L_3 R_1 R_5 - C_5 L_5 R_1 R_5\right) + s \left(L_5 R_1 R_5 g_m - L_5 R_1\right)}{2 R_1 R_5 g_m + R_5 + s^4 \left(2 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(C_3 C_5 L_5 R_1 R_5 + 2 C_3 L_3 L_5 R_1 g_m + C_3 L_3 L_5\right) + s^2 \left(2 C_3 L_3 R_1 R_5 g_m + C_3 L_3 R_5 + C_3 L_5 R_1 R_5 g_m + C_3 L_5 R_1 + C_3 L_5 R_5 + 2 C_5 L_5 R_1 R_5 g_m + C_5 L_5 R_5\right) + s \left(C_3 R_1 R_5 + 2 L_5 R_1 g_m + L_5\right)}$$

10.37 INVALID-ORDER-37 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{C_3 L_3 L_5 R_1 g_m s^3 + L_5 R_1 g_m s + R_1 R_5 g_m - R_1 + s^4 \left(C_3 C_5 L_3 L_5 R_1 R_5 g_m - C_3 C_5 L_3 L_5 R_1\right) + s^2 \left(C_3 L_3 R_1 R_5 g_m - C_3 L_3 R_1 + C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right)}{2 R_1 g_m + s^4 \left(2 C_3 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 C_5 L_5 R_1 R_5 g_m + C_3 C_5 L_5 R_1 + C_3 C_5 L_5 R_5\right) + s^2 \left(2 C_3 L_3 R_1 g_m + C_3 L_3 + C_3 L_5 R_1 g_m + C_3 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5\right) + 1}$$

10.38 INVALID-ORDER-38 $Z(s) = \left(R_1,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_1 R_5 s^3 - C_5 R_1 R_5 s + R_1 R_5 g_m - R_1 + s^4 \left(C_3 C_5 L_3 L_5 R_1 R_5 g_m - C_3 C_5 L_3 L_5 R_1\right) + s^2 \left(C_3 L_3 R_1 R_5 g_m - C_3 L_3 R_1 + C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right)}{2 R_1 g_m + s^4 \left(2 C_3 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(2 C_3 C_5 L_3 R_1 R_5 g_m + C_3 C_5 L_3 R_5 + C_3 C_5 L_5 R_1 R_5 g_m + C_3 C_5 L_5 R_1 + C_3 C_5 L_5 R_5\right) + s^2 \left(C_3 C_5 R_1 R_5 + 2 C_3 L_3 R_1 g_m + C_3 L_3 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_5 + 2 C_5 R_1 R_5 g_m + C_5 R_5\right) + 1}$$

10.39 INVALID-ORDER-39 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 R_1 s^2 + L_3 R_1 g_m s}{C_3 C_5 L_3 R_1 s^3 + C_5 R_1 s + R_1 g_m + s^2 \left(C_3 L_3 R_1 g_m + C_3 L_3 + 2 C_5 L_3 R_1 g_m + C_5 L_3\right) + 1}$$

10.40 INVALID-ORDER-40 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 R_1 R_5 s^2 + s \left(L_3 R_1 R_5 g_m - L_3 R_1\right)}{C_3 C_5 L_3 R_1 R_5 s^3 + R_1 R_5 g_m + R_1 + R_5 + s^2 \left(C_3 L_3 R_1 R_5 g_m + C_3 L_3 R_1 + C_3 L_3 R_5 + 2 C_5 L_3 R_1 R_5 g_m + C_5 L_3 R_5\right) + s \left(C_5 R_1 R_5 + 2 L_3 R_1 g_m + L_3\right)}$$

10.41 INVALID-ORDER-41 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_3 R_1 g_m s + s^2 \left(C_5 L_3 R_1 R_5 g_m - C_5 L_3 R_1\right)}{R_1 g_m + s^3 \left(C_3 C_5 L_3 R_1 R_5 g_m + C_3 C_5 L_3 R_1 + C_3 C_5 L_3 R_5\right) + s^2 \left(C_3 L_3 R_1 g_m + C_3 L_3 + 2 C_5 L_3 R_1 g_m + C_5 L_3\right) + s \left(C_5 R_1 R_5 g_m + C_5 R_1 + C_5 R_5\right) + 1}$$

10.42 INVALID-ORDER-42 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_3 L_5 R_1 g_m s^3 - C_5 L_3 R_1 s^2 + L_3 R_1 g_m s}{C_3 C_5 L_3 R_1 s^3 + C_5 R_1 s + R_1 g_m + s^4 \left(C_3 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_1 g_m + C_3 L_3 + 2 C_5 L_3 R_1 g_m + C_5 L_3 + C_5 L_5 R_1 g_m + C_5 L_5\right) + 1}$$

10.43 INVALID-ORDER-43 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 L_5 R_1 s^3 + L_3 L_5 R_1 g_m s^2 - L_3 R_1 s}{C_3 C_5 L_3 L_5 R_1 s^4 + R_1 + s^3 \left(C_3 L_3 L_5 R_1 g_m + C_3 L_3 L_5 + 2 C_5 L_3 L_5 R_1 g_m + C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_1 + C_5 L_5 R_1\right) + s \left(2 L_3 R_1 g_m + L_3 + L_5 R_1 g_m + L_5\right)}$$

10.44 INVALID-ORDER-44 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_3 L_5 R_1 g_m s^3 + L_3 R_1 g_m s + s^2 \left(C_5 L_3 R_1 R_5 g_m - C_5 L_3 R_1\right)}{R_1 g_m + s^4 \left(C_3 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 C_5 L_3 R_1 R_5 g_m + C_3 C_5 L_3 R_1 + C_3 C_5 L_3 R_5\right) + s^2 \left(C_3 L_3 R_1 g_m + C_3 L_3 + 2 C_5 L_3 R_1 g_m + C_5 L_3 + C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(C_5 R_1 R_5 g_m + C_5 R_1 + C_5 R_5\right) + 1}$$

10.45 INVALID-ORDER-45 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 L_5 R_1 R_5 s^3 - L_3 R_1 R_5 s + s^2 \left(L_3 L_5 R_1 R_5 g_m - L_3 L_5 R_1\right)}{C_3 C_5 L_3 L_5 R_1 R_5 s^4 + R_1 R_5 + s^3 \left(C_3 L_3 L_5 R_1 R_5 g_m + C_3 L_3 L_5 R_1 + C_3 L_3 L_5 R_5 + 2 C_5 L_3 L_5 R_1 R_5 g_m + C_5 L_3 L_5 R_5\right) + s^2 \left(C_3 L_3 R_1 R_5 + C_5 L_5 R_1 R_5 + 2 L_3 L_5 R_1 g_m + L_3 L_5\right) + s \left(2 L_3 R_1 R_5 g_m + L_3 R_5 + L_5 R_1 R_5 g_m + L_5 R_1 + L_5 R_5\right)}$$

10.46 INVALID-ORDER-46 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_3 L_5 R_1 g_m s^2 + s^3 \left(C_5 L_3 L_5 R_1 R_5 g_m - C_5 L_3 L_5 R_1\right) + s \left(L_3 R_1 R_5 g_m - L_3 R_1\right)}{R_1 R_5 g_m + R_1 + R_5 + s^4 \left(C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_3 L_5 R_1 + C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(C_3 L_3 L_5 R_1 g_m + C_3 L_3 L_5 + 2 C_5 L_3 L_5 R_1 g_m + C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_1 R_5 g_m + C_3 L_3 R_1 + C_3 L_3 R_5 + C_5 L_5 R_1 R_5 g_m + C_5 L_5 R_1 + C_5 L_5 R_5\right) + s \left(2 L_3 R_1 g_m + L_3 + L_5 R_1 g_m + L_5\right)}$$

10.47 INVALID-ORDER-47 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 R_1 R_5 s^2 + s^3 \left(C_5 L_3 L_5 R_1 R_5 g_m - C_5 L_3 L_5 R_1\right) + s \left(L_3 R_1 R_5 g_m - L_3 R_1\right)}{R_1 R_5 g_m + R_1 + R_5 + s^4 \left(C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_3 L_5 R_1 + C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(C_3 C_5 L_3 R_1 R_5 + 2 C_5 L_3 L_5 R_1 g_m + C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_1 R_5 g_m + C_3 L_3 R_1 + C_3 L_3 R_5 + 2 C_5 L_3 R_1 R_5 g_m + C_5 L_3 R_5 + C_5 L_5 R_1 R_5 g_m + C_5 L_5 R_1 + C_5 L_5 R_5\right) + s \left(C_5 R_1 R_5 + 2 L_3 R_1\right.$$

10.48 INVALID-ORDER-48 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_1 s^3 + R_1 g_m + s^2 \left(-C_3 C_5 R_1 R_3 + C_3 L_3 R_1 g_m\right) + s \left(C_3 R_1 R_3 g_m - C_5 R_1\right)}{s^3 \left(2 C_3 C_5 L_3 R_1 g_m + C_3 C_5 L_3\right) + s^2 \left(2 C_3 C_5 R_1 R_3 g_m + C_3 C_5 R_1 + C_3 C_5 R_3\right) + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.49 INVALID-ORDER-49 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_1 R_5 s^3 + R_1 R_5 g_m - R_1 + s^2 \left(-C_3 C_5 R_1 R_3 R_5 + C_3 L_3 R_1 R_5 g_m - C_3 L_3 R_1\right) + s \left(C_3 R_1 R_3 R_5 g_m - C_3 R_1 R_3 - C_5 R_1 R_5\right)}{2 R_1 g_m + s^3 \left(2 C_3 C_5 L_3 R_1 R_5 g_m + C_3 C_5 L_3 R_5\right) + s^2 \left(2 C_3 C_5 R_1 R_3 R_5 g_m + C_3 C_5 R_1 R_5 + C_3 C_5 R_3 R_5 + 2 C_3 L_3 R_1 g_m + C_3 L_3\right) + s \left(2 C_3 R_1 R_3 g_m + C_3 R_1 R_5 g_m + C_3 R_1 + C_3 R_3 + C_3 R_5 + 2 C_5 R_1 R_5 g_m + C_5 R_5\right) + 1}$$

10.50 INVALID-ORDER-50 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_1 g_m + s^3 \left(C_3 C_5 L_3 R_1 R_5 g_m - C_3 C_5 L_3 R_1\right) + s^2 \left(C_3 C_5 R_1 R_3 R_5 g_m - C_3 C_5 R_1 R_3 + C_3 L_3 R_1 g_m\right) + s \left(C_3 R_1 R_3 g_m + C_5 R_1 R_5 g_m - C_5 R_1\right)}{s^3 \left(2 C_3 C_5 L_3 R_1 g_m + C_3 C_5 L_3\right) + s^2 \left(2 C_3 C_5 R_1 R_3 g_m + C_3 C_5 R_1 R_5 g_m + C_3 C_5 R_1 + C_3 C_5 R_3 + C_3 C_5 R_5\right) + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.51 INVALID-ORDER-51 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_1 g_m s^4 + R_1 g_m + s^3 \left(-C_3 C_5 L_3 R_1 + C_3 C_5 L_5 R_1 R_3 g_m\right) + s^2 \left(-C_3 C_5 R_1 R_3 + C_3 L_3 R_1 g_m + C_5 L_5 R_1 g_m\right) + s \left(C_3 R_1 R_3 g_m - C_5 R_1\right)}{s^3 \left(2 C_3 C_5 L_3 R_1 g_m + C_3 C_5 L_3 + C_3 C_5 L_5 R_1 g_m + C_3 C_5 L_5\right) + s^2 \left(2 C_3 C_5 R_1 R_3 g_m + C_3 C_5 R_1 + C_3 C_5 R_3\right) + s \left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.52 INVALID-ORDER-52 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_1 s^4 - R_1 + s^3 \left(-C_3 C_5 L_5 R_1 R_3 + C_3 L_3 L_5 R_1 g_m\right) + s^2 \left(-C_3 L_3 R_1 + C_3 L_5 R_1 R_3 g_m - C_5 L_5 R_1\right) + s \left(-C_3 R_1 R_3 + L_5 R_1 g_m\right)}{2 R_1 g_m + s^4 \left(2 C_3 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(2 C_3 C_5 L_5 R_1 R_3 g_m + C_3 C_5 L_5 R_1 + C_3 C_5 L_5 R_3\right) + s^2 \left(2 C_3 L_3 R_1 g_m + C_3 L_3 + C_3 L_5 R_1 g_m + C_3 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(2 C_3 R_1 R_3 g_m + C_3 R_1 + C_3 R_3\right) + 1}$$

10.53 INVALID-ORDER-53 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1g_ms^4 + R_1g_m + s^3\left(C_3C_5L_3R_1R_5g_m - C_3C_5L_3R_1 + C_3C_5L_5R_1R_3g_m\right) + s^2\left(C_3C_5R_1R_3R_5g_m - C_3C_5R_1R_3 + C_3L_3R_1g_m + C_5L_5R_1g_m\right) + s\left(C_3R_1R_3g_m + C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(2C_3C_5L_3R_1g_m + C_3C_5L_3 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(2C_3C_5R_1R_3g_m + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_3 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.54 INVALID-ORDER-54 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_5s^4 - R_1R_5 + s^3\left(-C_3C_5L_5R_1R_3R_5 + C_3L_3L_5R_1R_5g_m - C_3L_3L_5R_1\right) + s^2\left(-C_3L_3R_1R_5 + C_3L_5R_1R_3R_5g_m - C_3L_5R_1R_3 - C_5L_5R_1R_5\right) + s\left(-C_3R_1R_3R_5 + L_5R_1R_5g_m - \right.}{2R_1R_5g_m + R_5 + s^4\left(2C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_5\right) + s^3\left(2C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_5 + C_3C_5L_5R_3R_5 + 2C_3L_3L_5R_1g_m + C_3L_3L_5\right) + s^2\left(2C_3L_3R_1R_5g_m + C_3L_3R_5 + 2C_3L_5R_1R_3g_m + C_3L_5R_1R_5g_m + C_3L_5R_1 + C_3L_5R_3 + C_3L_5R_5 + 2C_5L_5R_1R\right.}$$

10.55 INVALID-ORDER-55 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_3C_5L_3L_5R_1R_5g_m - C_3C_5L_3L_5R_1\right) + s^3\left(C_3C_5L_5R_1R_3R_5g_m - C_3C_5L_5R_1R_3 + C_3L_3L_5R_1g_m\right) + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1 + C_3L_5R_1R_3g_m + C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3 + L_5R_1g_m\right)}{2R_1g_m + s^4\left(2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1 + C_3C_5L_5R_3 + C_3C_5L_5R_5\right) + s^2\left(2C_3L_3R_1g_m + C_3L_3 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_3R_1R_3g_m + C_3R_1R_5g_m + C_3R_1 + C_3R_3 + C_3R_5\right)}$$

10.56 INVALID-ORDER-56 $Z(s) = \left(R_1,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_3C_5L_3L_5R_1R_5g_m - C_3C_5L_3L_5R_1\right) + s^3\left(-C_3C_5L_3R_1R_5 + C_3C_5L_5R_1R_3R_5g_m - C_3C_5L_5R_1R_3\right) + s^2\left(-C_3C_5R_1R_3R_5 + C_3L_3R_1R_5g_m - C_3L_3R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s\left(C_3R\right.}{2R_1g_m + s^4\left(2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(2C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_5 + 2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1 + C_3C_5L_5R_3 + C_3C_5L_5R_5\right) + s^2\left(2C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_5 + C_3C_5R_3R_5 + 2C_3L_3R_1g_m + C_3L_3 + 2C_5L_5R_1g_m + C_5L\right.}$$

10.57 INVALID-ORDER-57 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1R_3s^2 + L_3R_1R_3g_ms}{C_3C_5L_3R_1R_3s^3 + R_1R_3g_m + R_3 + s^2\left(C_3L_3R_1R_3g_m + C_3L_3R_3 + 2C_5L_3R_1R_3g_m + C_5L_3R_1 + C_5L_3R_3\right) + s\left(C_5R_1R_3 + L_3R_1g_m + L_3\right)}$$

10.58 INVALID-ORDER-58 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1R_3R_5s^2 + s\left(L_3R_1R_3R_5g_m - L_3R_1R_3\right)}{C_3C_5L_3R_1R_3R_5s^3 + R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^2\left(C_3L_3R_1R_3R_5g_m + C_3L_3R_1R_3 + C_3L_3R_3R_5 + 2C_5L_3R_1R_3R_5g_m + C_5L_3R_1R_5 + C_5L_3R_3R_5\right) + s\left(C_5R_1R_3R_5 + 2L_3R_1R_3g_m + L_3R_1R_5g_m + L_3R_1 + L_3R_3 + L_3R_5\right)}$$

10.59 INVALID-ORDER-59 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_3R_1R_3g_ms + s^2\left(C_5L_3R_1R_3R_5g_m - C_5L_3R_1R_3\right)}{R_1R_3g_m + R_3 + s^3\left(C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_3 + C_3C_5L_3R_3R_5\right) + s^2\left(C_3L_3R_1R_3g_m + C_3L_3R_3 + 2C_5L_3R_1R_3g_m + C_5L_3R_1R_5g_m + C_5L_3R_1 + C_5L_3R_3 + C_5L_3R_5\right) + s\left(C_5R_1R_3R_5g_m + C_5R_1R_3 + C_5R_3R_5 + L_3R_1g_m + L_3\right)}$$

10.60 INVALID-ORDER-60 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5L_3L_5R_1R_3g_ms^3 - C_5L_3R_1R_3s^2 + L_3R_1R_3g_ms}{R_1R_3g_m + R_3 + s^4\left(C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_3\right) + s^3\left(C_3C_5L_3R_1R_3 + C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(C_3L_3R_1R_3g_m + C_3L_3R_3 + 2C_5L_3R_1R_3g_m + C_5L_3R_1 + C_5L_3R_3 + C_5L_5R_1R_3g_m + C_5L_5R_3\right) + s\left(C_5R_1R_3 + L_3R_1g_m + L_3\right)}$$

10.61 INVALID-ORDER-61 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3L_5R_1R_3s^3 + L_3L_5R_1R_3g_ms^2 - L_3R_1R_3s}{C_3C_5L_3L_5R_1R_3s^4 + R_1R_3 + s^3\left(C_3L_3L_5R_1R_3g_m + C_3L_3L_5R_3 + 2C_5L_3L_5R_1R_3g_m + C_5L_3L_5R_1 + C_5L_3L_5R_3\right) + s^2\left(C_3L_3R_1R_3 + C_5L_5R_1R_3 + L_3L_5R_1g_m + L_3L_5\right) + s\left(2L_3R_1R_3g_m + L_3R_1 + L_3R_3 + L_5R_1R_3g_m + L_5R_3\right)}$$

10.62 INVALID-ORDER-62 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_3L_5R_1R_3g_ms^3 + L_3R_1R_3g_ms + s^2\left(C_5L_3R_1R_3R_5g_m - C_5L_3R_1R_3\right)}{R_1R_3g_m + R_3 + s^4\left(C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_3\right) + s^3\left(C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_3 + C_3C_5L_3R_3R_5 + C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(C_3L_3R_1R_3g_m + C_3L_3R_3 + 2C_5L_3R_1R_3g_m + C_5L_3R_1R_5g_m + C_5L_3R_1 + C_5L_3R_3 + C_5L_3R_5 + C_5L_5R_1R_3g_m +\right.}$$

10.63 INVALID-ORDER-63 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_3L_5R_1R_3R_5s^3 - L_3R_1R_3R_5s + s^2\left(L_3L_5R_1R_3R_5g_m - L_3L_5R_1R_3\right)}{C_3C_5L_3L_5R_1R_3R_5s^4 + R_1R_3R_5 + s^3\left(C_3L_3L_5R_1R_3R_5g_m + C_3L_3L_5R_1R_3 + C_3L_3L_5R_3R_5 + 2C_5L_3L_5R_1R_3R_5g_m + C_5L_3L_5R_1R_5 + C_5L_3L_5R_3R_5\right) + s^2\left(C_3L_3R_1R_3R_5 + C_5L_5R_1R_3R_5 + 2L_3L_5R_1R_3g_m + L_3L_5R_1R_5g_m + L_3L_5R_1 + L_3L_5R_3 + L_3L_5R_5\right) + s\left(2L_3\right.}$$

10.64 INVALID-ORDER-64 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{L_3L_5R_1R_3g_ms^2 + s^3\left(C_5L_3L_5R_1R_3R_5g_m - C_5L_3L_5R_1R_3\right) + s\left(L_3R_1R_3R_5g_m - L_3R_1R_3\right)}{R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^4\left(C_3C_5L_3L_5R_1R_3R_5g_m + C_3C_5L_3L_5R_1R_3 + C_3C_5L_3L_5R_3R_5\right) + s^3\left(C_3L_3L_5R_1R_3g_m + C_3L_3L_5R_3 + 2C_5L_3L_5R_1R_3g_m + C_5L_3L_5R_1R_5g_m + C_5L_3L_5R_1 + C_5L_3L_5R_3 + C_5L_3L_5R_5\right) + s^2\left(C_3L_3R_1R_3R_5g_m + C_3L_3R_1R_3 + C_3L_3R_3\right.}$$

10.65 INVALID-ORDER-65 $Z(s) = \left(R_1,\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1R_3R_5s^2 + s^3\left(C_5L_3L_5R_1R_3R_5g_m - C_5L_3L_5R_1R_3\right) + s\left(L_3R_1R_3R_5g_m - L_3R_1R_3\right)}{R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^4\left(C_3C_5L_3L_5R_1R_3R_5g_m + C_3C_5L_3L_5R_1R_3 + C_3C_5L_3L_5R_3R_5\right) + s^3\left(C_3C_5L_3R_1R_3R_5 + 2C_5L_3L_5R_1R_3g_m + C_5L_3L_5R_1R_5g_m + C_5L_3L_5R_1 + C_5L_3L_5R_3 + C_5L_3L_5R_5\right) + s^2\left(C_3L_3R_1R_3R_5g_m + C_3L_3R_1R_3 + C_3L_3R_3R_5 + 2C_5L_3R\right.}$$

10.66 INVALID-ORDER-66 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3s^3 + R_1R_3g_m + s^2\left(C_3L_3R_1R_3g_m - C_5L_3R_1\right) + s\left(-C_5R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^3\left(2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3\right) + s\left(2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.67 INVALID-ORDER-67 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3R_5s^3 + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3 - C_5L_3R_1R_5\right) + s\left(-C_5R_1R_3R_5 + L_3R_1R_5g_m - L_3R_1\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(2C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_5 + C_3C_5L_3R_3R_5\right) + s^2\left(2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_3 + C_3L_3R_5 + 2C_5L_3R_1R_5g_m + C_5L_3R_5\right) + s\left(2C_5R_1R_3R_5g_m + C_5R_1R_5 + C_5R_3R_5 + 2L_3R_1g_m + L_3\right)}$$

10.68 INVALID-ORDER-68 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1R_3g_m + s^3\left(C_3C_5L_3R_1R_3R_5g_m - C_3C_5L_3R_1R_3\right) + s^2\left(C_3L_3R_1R_3g_m + C_5L_3R_1R_5g_m - C_5L_3R_1\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^3\left(2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_3R_5\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3\right) + s\left(2C_5R_1R_3g_m + C_5R_1R_5g_m + C_5R_1 + C_5R_3 + C_5R_5\right) + 1}$$

10.69 INVALID-ORDER-69 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(-C_3C_5L_3R_1R_3 + C_5L_3L_5R_1g_m\right) + s^2\left(C_3L_3R_1R_3g_m - C_5L_3R_1 + C_5L_5R_1R_3g_m\right) + s\left(-C_5R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^4\left(C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3 + C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.70 INVALID-ORDER-70 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_3s^4 - R_1R_3 + s^3\left(C_3L_3L_5R_1R_3g_m - C_5L_3L_5R_1\right) + s^2\left(-C_3L_3R_1R_3 - C_5L_5R_1R_3 + L_3L_5R_1g_m\right) + s\left(-L_3R_1 + L_5R_1R_3g_m\right)}{2R_1R_3g_m + R_1 + R_3 + s^4\left(2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3\right) + s^3\left(C_3L_3L_5R_1g_m + C_3L_3L_5 + 2C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(2C_3L_3R_1R_3g_m + C_3L_3R_1 + C_3L_3R_3 + 2C_5L_5R_1R_3g_m + C_5L_5R_1 + C_5L_5R_3\right) + s\left(2L_3R_1g_m + L_3 + L_5R_1g_m + L_5\right)}$$

10.71 INVALID-ORDER-71 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_3C_5L_3R_1R_3R_5g_m - C_3C_5L_3R_1R_3 + C_5L_3L_5R_1g_m\right) + s^2\left(C_3L_3R_1R_3g_m + C_5L_3R_1R_5g_m - C_5L_3R_1 + C_5L_5R_1R_3g_m\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^4\left(C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_3R_5\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3 + C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_5R_1R_3g_m + C_5R_1R_5g_m + C_5R_1 + C_5R_3 + C_5R_5\right) + 1}$$

10.72 INVALID-ORDER-72 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_3R_5s^4 - R_1R_3R_5 + s^3\left(C_3L_3L_5R_1R_3R_5g_m - C_3L_3L_5R_1R_3 - C_5L_3L_5R_1R_5\right) + s^2\left(-C_3L_3R_1R_3R_5 - C_5L_5R_1R_3R_5 + L_3L_5R_1R_5g_m - L\right.}{2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^4\left(2C_3C_5L_3L_5R_1R_3R_5g_m + C_3C_5L_3L_5R_1R_5 + C_3C_5L_3L_5R_3R_5\right) + s^3\left(2C_3L_3L_5R_1R_3g_m + C_3L_3L_5R_1R_5g_m + C_3L_3L_5R_1 + C_3L_3L_5R_3 + C_3L_3L_5R_5 + 2C_5L_3L_5R_1R_5g_m + C_5L_3L_5R_5\right) + s^2\left(2C_3L_3R_1R_3R_5g_m + C_3L_3R_1R_5 + C_3L_3\right.}$$

10.73 INVALID-ORDER-73 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_3C_5L_3L_5R_1R_3R_5g_m - C_3C_5L_3L_5R_1R_3\right) + s^3\left(C_3L_3L_5R_1R_3g_m + C_5L_3L_5R_1R_5g_m - C_5L_3L_5R_1\right) + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3 + C_5L_5R_1R_3R_5g_m - C_5L_5R_1R_3 + L\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3 + C_3C_5L_3L_5R_5\right) + s^3\left(C_3L_3L_5R_1g_m + C_3L_3L_5 + 2C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_3 + C_3\right.}$$

10.74 INVALID-ORDER-74 $Z(s) = \left(R_1,\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_3C_5L_3L_5R_1R_3R_5g_m - C_3C_5L_3L_5R_1R_3\right) + s^3\left(-C_3C_5L_3R_1R_3R_5 + C_5L_3L_5R_1R_5g_m - C_5L_3L_5R_1\right) + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3 + C_3C_5L_3L_5R_5\right) + s^3\left(2C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_5 + C_3C_5L_3R_3R_5 + 2C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m\right.}$$

10.75 INVALID-ORDER-75 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3s^3 + C_3L_3R_1R_3g_ms^2 - C_5R_1R_3s + R_1R_3g_m}{R_1g_m + s^3\left(2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3\right) + s^2\left(C_3C_5R_1R_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.76 INVALID-ORDER-76 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3R_5s^3 - C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(2C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_5 + C_3C_5L_3R_3R_5\right) + s^2\left(C_3C_5R_1R_3R_5 + 2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_3 + C_3L_3R_5\right) + s\left(C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5 + 2C_5R_1R_3R_5g_m + C_5R_1R_5 + C\right.}$$

10.77 INVALID-ORDER-77 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3L_3R_1R_3g_ms^2 + R_1R_3g_m + s^3\left(C_3C_5L_3R_1R_3R_5g_m - C_3C_5L_3R_1R_3\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^3\left(2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_3R_5\right) + s^2\left(C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_3 + C_3C_5R_3R_5 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1R_5g_m + C_5R_1 + C_5R_3 + C_5R_5\right) + 1}$$

10.78 INVALID-ORDER-78 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1R_3g_ms^4 - C_3C_5L_3R_1R_3s^3 - C_5R_1R_3s + R_1R_3g_m + s^2\left(C_3L_3R_1R_3g_m + C_5L_5R_1R_3g_m\right)}{R_1g_m + s^4\left(C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_3\right) + s^2\left(C_3C_5R_1R_3 + C_3L_3R_1g_m + C_3L_3 + C_5L_5R_1g_m + C_5L_5\right) + s\left(C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.79 INVALID-ORDER-79 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_3s^4 + C_3L_3L_5R_1R_3g_ms^3 + L_5R_1R_3g_ms - R_1R_3 + s^2\left(-C_3L_3R_1R_3 - C_5L_5R_1R_3\right)}{2R_1R_3g_m + R_1 + R_3 + s^4\left(2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3\right) + s^3\left(C_3C_5L_5R_1R_3 + C_3L_3L_5R_1g_m + C_3L_3L_5\right) + s^2\left(2C_3L_3R_1R_3g_m + C_3L_3R_1 + C_3L_3R_3 + C_3L_5R_1R_3g_m + C_3L_5R_3 + 2C_5L_5R_1R_3g_m + C_5L_5R_1 + C_5L_5R_3\right) + s\left(C_3R_1R_3 + L_5R\right.}$$

10.80 INVALID-ORDER-80 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_3C_5L_3R_1R_3R_5g_m - C_3C_5L_3R_1R_3\right) + s^2\left(C_3L_3R_1R_3g_m + C_5L_5R_1R_3g_m\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^4\left(C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_3R_5 + C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_3\right) + s^2\left(C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_3 + C_3C_5R_3R_5 + C_3L_3R_1g_m + C_3L_3 + C_5L_5R_1g_m + C_5L_5\right) + s$$

10.81 INVALID-ORDER-81 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_3R_5s^4 - R_1R_3R_5 + s^3\left(C_3L_3L_5R_1R_3R_5g_m - C_3L_3L_5R_1R_3\right) + s^2\left(-C_3L_3R_1R_3R_5 - C_5L_5R_1R_3R_5\right) + s\left(L_5\right.}{2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^4\left(2C_3C_5L_3L_5R_1R_3R_5g_m + C_3C_5L_3L_5R_1R_5 + C_3C_5L_3L_5R_3R_5\right) + s^3\left(C_3C_5L_5R_1R_3R_5 + 2C_3L_3L_5R_1R_3g_m + C_3L_3L_5R_1R_5g_m + C_3L_3L_5R_1 + C_3L_3L_5R_3 + C_3L_3L_5R_5\right) + s^2\left(2C_3L_3R_1R_3R_5g_m + C_3L_3R_1R_5 + C_3L_3R_3R_5 + C_3L\right.}$$

10.82 INVALID-ORDER-82 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{C_3L_3L_5R_1R_3g_ms^3 + L_5R_1R_3g_ms + R_1R_3R_5g_m - R_1R_3 + s^4\left(C_3C_5L_3L_5R_1R_3R_5g_m - C_3C_5L_3L_5R_1R_3\right) + s^2\left(C_3L_3R_1R_3R_5\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3 + C_3C_5L_3L_5R_5\right) + s^3\left(C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_3 + C_3C_5L_5R_3R_5 + C_3L_3L_5R_1g_m + C_3L_3L_5\right) + s^2\left(2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m\right.}$$

10.83 INVALID-ORDER-83 $Z(s) = \left(R_1,\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3R_5s^3 - C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^4\left(C_3C_5L_3L_5R_1R_3R_5g_m - C_3C_5L_3L_5R_1R\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3 + C_3C_5L_3L_5R_5\right) + s^3\left(2C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_5 + C_3C_5L_3R_3R_5 + C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_3 + C_3C_5L_5R_3R_5\right) + s^2\left(C_3\right.}$$

10.84 INVALID-ORDER-84 $Z(s) = (L_1s,\ \infty,\ R_3,\ \infty,\ R_5,\ \infty)$

$$H(s) = \frac{s\left(L_1R_3R_5g_m - L_1R_3\right)}{R_3 + R_5 + s\left(2L_1R_3g_m + L_1R_5g_m + L_1\right)}$$

10.85 INVALID-ORDER-85 $Z(s) = \left(L_1s,\ \infty,\ R_3,\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_1L_5R_3g_ms^3 - C_5L_1R_3s^2 + L_1R_3g_ms}{C_5L_1L_5g_ms^3 + s^2\left(2C_5L_1R_3g_m + C_5L_1 + C_5L_5\right) + s\left(C_5R_3 + L_1g_m\right) + 1}$$

10.86 INVALID-ORDER-86 $Z(s) = \left(L_1s,\ \infty,\ R_3,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_3s^3 + L_1L_5R_3g_ms^2 - L_1R_3s}{R_3 + s^3\left(2C_5L_1L_5R_3g_m + C_5L_1L_5\right) + s^2\left(C_5L_5R_3 + L_1L_5g_m\right) + s\left(2L_1R_3g_m + L_1 + L_5\right)}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(L_1s,\ \infty,\ R_3,\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_1L_5R_3g_ms^3 + L_1R_3g_ms + s^2\left(C_5L_1R_3R_5g_m - C_5L_1R_3\right)}{C_5L_1L_5g_ms^3 + s^2\left(2C_5L_1R_3g_m + C_5L_1R_5g_m + C_5L_1 + C_5L_5\right) + s\left(C_5R_3 + C_5R_5 + L_1g_m\right) + 1}$$

10.88 INVALID-ORDER-88 $Z(s) = \left(L_1s,\ \infty,\ R_3,\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_3R_5s^3 - L_1R_3R_5s + s^2\left(L_1L_5R_3R_5g_m - L_1L_5R_3\right)}{R_3R_5 + s^3\left(2C_5L_1L_5R_3R_5g_m + C_5L_1L_5R_5\right) + s^2\left(C_5L_5R_3R_5 + 2L_1L_5R_3g_m + L_1L_5R_5g_m + L_1L_5\right) + s\left(2L_1R_3R_5g_m + L_1R_5 + L_5R_3 + L_5R_5\right)}$$

10.89 INVALID-ORDER-89 $Z(s) = \left(L_1 s,\ \infty,\ R_3,\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_1 L_5 R_3 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^3 \left(2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5\right) + s^2 \left(C_5 L_5 R_3 + C_5 L_5 R_5 + L_1 L_5 g_m\right) + s \left(2 L_1 R_3 g_m + L_1 R_5 g_m + L_1 + L_5\right)}$$

10.90 INVALID-ORDER-90 $Z(s) = \left(L_1 s,\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 R_5 s^2 + s^3 \left(C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^3 \left(2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5\right) + s^2 \left(2 C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5 + C_5 L_5 R_3 + C_5 L_5 R_5\right) + s \left(C_5 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

10.91 INVALID-ORDER-91 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_5 s^2 + s \left(L_1 R_5 g_m - L_1\right)}{C_3 C_5 L_1 R_5 s^3 + s^2 \left(C_3 L_1 R_5 g_m + C_3 L_1 + 2 C_5 L_1 R_5 g_m\right) + s \left(C_3 R_5 + C_5 R_5 + 2 L_1 g_m\right) + 1}$$

10.92 INVALID-ORDER-92 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 g_m s^2 - C_5 L_1 s + L_1 g_m}{C_3 C_5 L_1 L_5 g_m s^3 + C_3 + C_5 + s^2 \left(C_3 C_5 L_1 + C_3 C_5 L_5\right) + s \left(C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 s^3 + L_1 L_5 g_m s^2 - L_1 s}{C_3 C_5 L_1 L_5 s^4 + 2 L_1 g_m s + s^3 \left(C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 L_1 + C_3 L_5 + C_5 L_5\right) + 1}$$

10.94 INVALID-ORDER-94 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 g_m s^2 + L_1 g_m + s \left(C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_3 C_5 L_1 L_5 g_m s^3 + C_3 + C_5 + s^2 \left(C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_5\right) + s \left(C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.95 INVALID-ORDER-95 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

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

10.96 INVALID-ORDER-96 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_1 L_5 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s \left(L_1 R_5 g_m - L_1\right)}{s^4 \left(C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5\right) + s^3 \left(C_3 C_5 L_5 R_5 + C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_5 + C_5 L_5\right) + s \left(C_3 R_5 + 2 L_1 g_m\right) + 1}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(L_1 s,\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_5 s^2 + s^3 \left(C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s \left(L_1 R_5 g_m - L_1\right)}{s^4 \left(C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5\right) + s^3 \left(C_3 C_5 L_1 R_5 + C_3 C_5 L_5 R_5 + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 L_1 R_5 g_m + C_3 L_1 + 2 C_5 L_1 R_5 g_m + C_5 L_5\right) + s \left(C_3 R_5 + C_5 R_5 + 2 L_1 g_m\right) + 1}$$

10.98 INVALID-ORDER-98 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_3 C_5 L_1 R_3 s^3 + s^2 \left(C_3 L_1 R_3 g_m + 2 C_5 L_1 R_3 g_m + C_5 L_1\right) + s \left(C_3 R_3 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.99 INVALID-ORDER-99 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 R_5 s^2 + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{C_3 C_5 L_1 R_3 R_5 s^3 + R_3 + R_5 + s^2 \left(C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3 + 2 C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5\right) + s \left(C_3 R_3 R_5 + C_5 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

10.100 INVALID-ORDER-100 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_3 g_m s + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{s^3 \left(C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_3\right) + s^2 \left(C_3 C_5 R_3 R_5 + C_3 L_1 R_3 g_m + 2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1\right) + s \left(C_3 R_3 + C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

10.101 INVALID-ORDER-101 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_3 g_m s^3 - C_5 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_3 C_5 L_1 L_5 R_3 g_m s^4 + s^3 \left(C_3 C_5 L_1 R_3 + C_3 C_5 L_5 R_3 + C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 L_1 R_3 g_m + 2 C_5 L_1 R_3 g_m + C_5 L_1 + C_5 L_5\right) + s \left(C_3 R_3 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.102 INVALID-ORDER-102 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_3 s^3 + L_1 L_5 R_3 g_m s^2 - L_1 R_3 s}{C_3 C_5 L_1 L_5 R_3 s^4 + R_3 + s^3 \left(C_3 L_1 L_5 R_3 g_m + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 R_3 + C_3 L_5 R_3 + C_5 L_5 R_3 + L_1 L_5 g_m\right) + s \left(2 L_1 R_3 g_m + L_1 + L_5\right)}$$

10.103 INVALID-ORDER-103 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_3 g_m s^3 + L_1 R_3 g_m s + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{C_3 C_5 L_1 L_5 R_3 g_m s^4 + s^3 \left(C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_3 + C_3 C_5 L_5 R_3 + C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 C_5 R_3 R_5 + C_3 L_1 R_3 g_m + 2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1 + C_5 L_5\right) + s \left(C_3 R_3 + C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

10.104 INVALID-ORDER-104 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_3 R_5 s^3 - L_1 R_3 R_5 s + s^2 \left(L_1 L_5 R_3 R_5 g_m - L_1 L_5 R_3\right)}{C_3 C_5 L_1 L_5 R_3 R_5 s^4 + R_3 R_5 + s^3 \left(C_3 L_1 L_5 R_3 R_5 g_m + C_3 L_1 L_5 R_3 + 2 C_5 L_1 L_5 R_3 R_5 g_m + C_5 L_1 L_5 R_5\right) + s^2 \left(C_3 L_1 R_3 R_5 + C_3 L_5 R_3 R_5 + C_5 L_5 R_3 R_5 + 2 L_1 L_5 R_3 g_m + L_1 L_5 R_5 g_m + L_1 L_5\right) + s \left(2 L_1 R_3 R_5 g_m + L_1 R_5 + L_5 R_3 + L_5 R_5\right)}$$

10.105 INVALID-ORDER-105 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_1 L_5 R_3 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^4 \left(C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_3\right) + s^3 \left(C_3 C_5 L_5 R_3 R_5 + C_3 L_1 L_5 R_3 g_m + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3 + C_3 L_5 R_3 + C_5 L_5 R_3 + C_5 L_5 R_5 + L_1 L_5 g_m\right) + s \left(C_3 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1 + L_5\right)}$$

10.106 INVALID-ORDER-106 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 R_5 s^2 + s^3 \left(C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^4 \left(C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_3\right) + s^3 \left(C_3 C_5 L_1 R_3 R_5 + C_3 C_5 L_5 R_3 R_5 + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3 + 2 C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5 + C_5 L_5 R_3 + C_5 L_5 R_5\right) + s \left(C_3 R_3 R_5 + C_5 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5\right.$$

10.107 INVALID-ORDER-107 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1R_3R_5s^3 + s^2\left(C_3L_1R_3R_5g_m - C_3L_1R_3 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{s^3\left(2C_3C_5L_1R_3R_5g_m + C_3C_5L_1R_5\right) + s^2\left(C_3C_5R_3R_5 + 2C_3L_1R_3g_m + C_3L_1R_5g_m + C_3L_1 + 2C_5L_1R_5g_m\right) + s\left(C_3R_3 + C_3R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.108 INVALID-ORDER-108 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_1L_5R_3g_ms^3 + L_1g_m + s^2\left(-C_3C_5L_1R_3 + C_5L_1L_5g_m\right) + s\left(C_3L_1R_3g_m - C_5L_1\right)}{C_3C_5L_1L_5g_ms^3 + C_3 + C_5 + s^2\left(2C_3C_5L_1R_3g_m + C_3C_5L_1 + C_3C_5L_5\right) + s\left(C_3C_5R_3 + C_3L_1g_m + 2C_5L_1g_m\right)}$$

10.109 INVALID-ORDER-109 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_5R_3s^4 - L_1s + s^3\left(C_3L_1L_5R_3g_m - C_5L_1L_5\right) + s^2\left(-C_3L_1R_3 + L_1L_5g_m\right)}{s^4\left(2C_3C_5L_1L_5R_3g_m + C_3C_5L_1L_5\right) + s^3\left(C_3C_5L_5R_3 + C_3L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_3L_1R_3g_m + C_3L_1 + C_3L_5 + C_5L_5\right) + s\left(C_3R_3 + 2L_1g_m\right) + 1}$$

10.110 INVALID-ORDER-110 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_1L_5R_3g_ms^3 + L_1g_m + s^2\left(C_3C_5L_1R_3R_5g_m - C_3C_5L_1R_3 + C_5L_1L_5g_m\right) + s\left(C_3L_1R_3g_m + C_5L_1R_5g_m - C_5L_1\right)}{C_3C_5L_1L_5g_ms^3 + C_3 + C_5 + s^2\left(2C_3C_5L_1R_3g_m + C_3C_5L_1R_5g_m + C_3C_5L_1 + C_3C_5L_5\right) + s\left(C_3C_5R_3 + C_3C_5R_5 + C_3L_1g_m + 2C_5L_1g_m\right)}$$

10.111 INVALID-ORDER-111 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_5R_3R_5s^4 - L_1R_5s + s^3\left(C_3L_1L_5R_3R_5g_m - C_3L_1L_5R_3 - C_5L_1L_5R_5\right) + s^2\left(-C_3L_1R_3R_5 + L_1L_5R_5g_m - L_1L_5\right)}{R_5 + s^4\left(2C_3C_5L_1L_5R_3R_5g_m + C_3C_5L_1L_5R_5\right) + s^3\left(C_3C_5L_5R_3R_5 + 2C_3L_1L_5R_3g_m + C_3L_1L_5R_5g_m + C_3L_1L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(2C_3L_1R_3R_5g_m + C_3L_1R_5 + C_3L_5R_3 + C_3L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(C_3R_3R_5 + 2L_1R_5g_m + L_5\right)}$$

10.112 INVALID-ORDER-112 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{s^4\left(C_3C_5L_1L_5R_3R_5g_m - C_3C_5L_1L_5R_3\right) + s^3\left(C_3L_1L_5R_3g_m + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_3L_1R_3R_5g_m - C_3L_1R_3 + L_1L_5g_m\right) + s\left(L_1R_5g_m - L_1\right)}{s^4\left(2C_3C_5L_1L_5R_3g_m + C_3C_5L_1L_5R_5g_m + C_3C_5L_1L_5\right) + s^3\left(C_3C_5L_5R_3R_5 + C_3C_5L_5R_5 + C_3L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_3L_1R_3g_m + C_3L_1R_5g_m + C_3L_1 + C_3L_5 + C_5L_5\right) + s\left(C_3R_3 + C_3R_5 + 2L_1g_m\right) + 1}$$

10.113 INVALID-ORDER-113 $Z(s) = \left(L_1 s,\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{s^4\left(C_3C_5L_1L_5R_3R_5g_m - C_3C_5L_1L_5R_3\right) + s^3\left(-C_3C_5L_1R_3R_5 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_3L_1R_3R_5g_m - C_3L_1R_3 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{s^4\left(2C_3C_5L_1L_5R_3g_m + C_3C_5L_1L_5R_5g_m + C_3C_5L_1L_5\right) + s^3\left(2C_3C_5L_1R_3R_5g_m + C_3C_5L_1R_5 + C_3C_5L_5R_3 + C_3C_5L_5R_5 + 2C_5L_1L_5g_m\right) + s^2\left(C_3C_5R_3R_5 + 2C_3L_1R_3g_m + C_3L_1R_5g_m + C_3L_1 + 2C_5L_1R_5g_m + C_5L_5\right) + s\left(C_3R_3 + C_3R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.114 INVALID-ORDER-114 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_3L_1L_3R_5g_m - C_3L_1L_3\right) + s\left(L_1R_5g_m - L_1\right)}{2C_3L_1L_3g_ms^3 + s^2\left(C_3L_1R_5g_m + C_3L_1 + C_3L_3\right) + s\left(C_3R_5 + 2L_1g_m\right) + 1}$$

10.115 INVALID-ORDER-115 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3s^3 + C_3L_1L_3g_ms^2 - C_5L_1s + L_1g_m}{2C_3C_5L_1L_3g_ms^3 + C_3 + C_5 + s^2\left(C_3C_5L_1 + C_3C_5L_3\right) + s\left(C_3L_1g_m + 2C_5L_1g_m\right)}$$

10.116 INVALID-ORDER-116 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3R_5s^4 - C_5L_1R_5s^2 + s^3\left(C_3L_1L_3R_5g_m - C_3L_1L_3\right) + s\left(L_1R_5g_m - L_1\right)}{2C_3C_5L_1L_3R_5g_ms^4 + s^3\left(C_3C_5L_1R_5 + C_3C_5L_3R_5 + 2C_3L_1L_3g_m\right) + s^2\left(C_3L_1R_5g_m + C_3L_1 + C_3L_3 + 2C_5L_1R_5g_m\right) + s\left(C_3R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.117 INVALID-ORDER-117 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3L_1L_3g_ms^2 + L_1g_m + s^3\left(C_3C_5L_1L_3R_5g_m - C_3C_5L_1L_3\right) + s\left(C_5L_1R_5g_m - C_5L_1\right)}{2C_3C_5L_1L_3g_ms^3 + C_3 + C_5 + s^2\left(C_3C_5L_1R_5g_m + C_3C_5L_1 + C_3C_5L_3\right) + s\left(C_3C_5R_5 + C_3L_1g_m + 2C_5L_1g_m\right)}$$

10.118 INVALID-ORDER-118 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_1L_3L_5g_ms^4 - C_3C_5L_1L_3s^3 - C_5L_1s + L_1g_m + s^2\left(C_3L_1L_3g_m + C_5L_1L_5g_m\right)}{C_3 + C_5 + s^3\left(2C_3C_5L_1L_3g_m + C_3C_5L_1L_5g_m\right) + s^2\left(C_3C_5L_1 + C_3C_5L_3 + C_3C_5L_5\right) + s\left(C_3L_1g_m + 2C_5L_1g_m\right)}$$

10.119 INVALID-ORDER-119 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3L_5s^5 + C_3L_1L_3L_5g_ms^4 + L_1L_5g_ms^2 - L_1s + s^3\left(-C_3L_1L_3 - C_5L_1L_5\right)}{2C_3C_5L_1L_3L_5g_ms^5 + 2L_1g_ms + s^4\left(C_3C_5L_1L_5 + C_3C_5L_3L_5\right) + s^3\left(2C_3L_1L_3g_m + C_3L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(C_3L_1 + C_3L_3 + C_3L_5 + C_5L_5\right) + 1}$$

10.120 INVALID-ORDER-120 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_1L_3L_5g_ms^4 + L_1g_m + s^3\left(C_3C_5L_1L_3R_5g_m - C_3C_5L_1L_3\right) + s^2\left(C_3L_1L_3g_m + C_5L_1L_5g_m\right) + s\left(C_5L_1R_5g_m - C_5L_1\right)}{C_3 + C_5 + s^3\left(2C_3C_5L_1L_3g_m + C_3C_5L_1L_5g_m\right) + s^2\left(C_3C_5L_1R_5g_m + C_3C_5L_1 + C_3C_5L_3 + C_3C_5L_5\right) + s\left(C_3C_5R_5 + C_3L_1g_m + 2C_5L_1g_m\right)}$$

10.121 INVALID-ORDER-121 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3L_5R_5s^5 - L_1R_5s + s^4\left(C_3L_1L_3L_5R_5g_m - C_3L_1L_3L_5\right) + s^3\left(-C_3L_1L_3R_5 - C_5L_1L_5R_5\right) + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{2C_3C_5L_1L_3L_5R_5g_ms^5 + R_5 + s^4\left(C_3C_5L_1L_5R_5 + C_3C_5L_3L_5R_5 + 2C_3L_1L_3L_5g_m\right) + s^3\left(2C_3L_1L_3R_5g_m + C_3L_1L_5R_5g_m + C_3L_1L_5 + C_3L_3L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(C_3L_1R_5 + C_3L_3R_5 + C_3L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(2L_1R_5g_m + L_5\right)}$$

10.122 INVALID-ORDER-122 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{C_3L_1L_3L_5g_ms^4 + L_1L_5g_ms^2 + s^5\left(C_3C_5L_1L_3L_5R_5g_m - C_3C_5L_1L_3L_5\right) + s^3\left(C_3L_1L_3R_5g_m - C_3L_1L_3 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s\left(L_1R_5g_m - L_1\right)}{2C_3C_5L_1L_3L_5g_ms^5 + s^4\left(C_3C_5L_1L_5R_5g_m + C_3C_5L_1L_5 + C_3C_5L_3L_5\right) + s^3\left(C_3C_5L_5R_5 + 2C_3L_1L_3g_m + C_3L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(C_3L_1R_5g_m + C_3L_1 + C_3L_3 + C_3L_5 + C_5L_5\right) + s\left(C_3R_5 + 2L_1g_m\right) + 1}$$

10.123 INVALID-ORDER-123 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3R_5s^4 - C_5L_1R_5s^2 + s^5\left(C_3C_5L_1L_3L_5R_5g_m - C_3C_5L_1L_3L_5\right) + s^3\left(C_3L_1L_3R_5g_m - C_3L_1L_3 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s\left(L_1R_5g_m - L_1\right)}{2C_3C_5L_1L_3L_5g_ms^5 + s^4\left(2C_3C_5L_1L_3R_5g_m + C_3C_5L_1L_5R_5g_m + C_3C_5L_1L_5 + C_3C_5L_3L_5\right) + s^3\left(C_3C_5L_1R_5 + C_3C_5L_3R_5 + C_3C_5L_5R_5 + 2C_3L_1L_3g_m + 2C_5L_1L_5g_m\right) + s^2\left(C_3L_1R_5g_m + C_3L_1 + C_3L_3 + 2C_5L_1R_5g_m + C_5L_5\right) + s\left(C_3R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.124 INVALID-ORDER-124 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2\left(L_1L_3R_5g_m - L_1L_3\right)}{R_5 + s^3\left(C_3L_1L_3R_5g_m + C_3L_1L_3\right) + s^2\left(C_3L_3R_5 + 2L_1L_3g_m\right) + s\left(L_1R_5g_m + L_1 + L_3\right)}$$

10.125 INVALID-ORDER-125 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 s^3 + L_1 L_3 g_m s^2}{C_3 C_5 L_1 L_3 s^4 + L_1 g_m s + s^3 \left(C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m\right) + s^2 \left(C_3 L_3 + C_5 L_1 + C_5 L_3\right) + 1}$$

10.126 INVALID-ORDER-126 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_5 s^3 + s^2 \left(L_1 L_3 R_5 g_m - L_1 L_3\right)}{C_3 C_5 L_1 L_3 R_5 s^4 + R_5 + s^3 \left(C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_5 g_m\right) + s^2 \left(C_3 L_3 R_5 + C_5 L_1 R_5 + C_5 L_3 R_5 + 2 L_1 L_3 g_m\right) + s \left(L_1 R_5 g_m + L_1 + L_3\right)}$$

10.127 INVALID-ORDER-127 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 L_3 g_m s^2 + s^3 \left(C_5 L_1 L_3 R_5 g_m - C_5 L_1 L_3\right)}{s^4 \left(C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3\right) + s^3 \left(C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m\right) + s^2 \left(C_3 L_3 + C_5 L_1 R_5 g_m + C_5 L_1 + C_5 L_3\right) + s \left(C_5 R_5 + L_1 g_m\right) + 1}$$

10.128 INVALID-ORDER-128 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_3 L_5 g_m s^4 - C_5 L_1 L_3 s^3 + L_1 L_3 g_m s^2}{C_3 C_5 L_1 L_3 L_5 g_m s^5 + L_1 g_m s + s^4 \left(C_3 C_5 L_1 L_3 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 L_3 + C_5 L_1 + C_5 L_3 + C_5 L_5\right) + 1}$$

10.129 INVALID-ORDER-129 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 L_5 s^3 + L_1 L_3 L_5 g_m s^2 - L_1 L_3 s}{C_3 C_5 L_1 L_3 L_5 s^4 + L_1 + L_3 + L_5 + s^3 \left(C_3 L_1 L_3 L_5 g_m + 2 C_5 L_1 L_3 L_5 g_m\right) + s^2 \left(C_3 L_1 L_3 + C_3 L_3 L_5 + C_5 L_1 L_5 + C_5 L_3 L_5\right) + s \left(2 L_1 L_3 g_m + L_1 L_5 g_m\right)}$$

10.130 INVALID-ORDER-130 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_3 L_5 g_m s^4 + L_1 L_3 g_m s^2 + s^3 \left(C_5 L_1 L_3 R_5 g_m - C_5 L_1 L_3\right)}{C_3 C_5 L_1 L_3 L_5 g_m s^5 + s^4 \left(C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 L_3 + C_5 L_1 R_5 g_m + C_5 L_1 + C_5 L_3 + C_5 L_5\right) + s \left(C_5 R_5 + L_1 g_m\right) + 1}$$

10.131 INVALID-ORDER-131 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 L_5 R_5 s^3 - L_1 L_3 R_5 s + s^2 \left(L_1 L_3 L_5 R_5 g_m - L_1 L_3 L_5\right)}{C_3 C_5 L_1 L_3 L_5 R_5 s^4 + L_1 R_5 + L_3 R_5 + L_5 R_5 + s^3 \left(C_3 L_1 L_3 L_5 R_5 g_m + C_3 L_1 L_3 L_5 + 2 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^2 \left(C_3 L_1 L_3 R_5 + C_3 L_3 L_5 R_5 + C_5 L_1 L_5 R_5 + C_5 L_3 L_5 R_5 + 2 L_1 L_3 L_5 g_m\right) + s \left(2 L_1 L_3 R_5 g_m + L_1 L_5 R_5 g_m + L_1 L_5 + L_3 L_5\right)}$$

10.132 INVALID-ORDER-132 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_1 L_3 L_5 g_m s^3 + s^4 \left(C_5 L_1 L_3 L_5 R_5 g_m - C_5 L_1 L_3 L_5\right) + s^2 \left(L_1 L_3 R_5 g_m - L_1 L_3\right)}{R_5 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_3 C_5 L_3 L_5 R_5 + C_3 L_1 L_3 L_5 g_m + 2 C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + C_3 L_3 L_5 + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5 + C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_5 + C_5 L_5 R_5 + 2 L_1 L_3 g_m + L_1 L_5 g_m\right) + s \left(L_1 R_5 g_m + L_1 + L_3 + L_5\right)}$$

10.133 INVALID-ORDER-133 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_5 s^3 + s^4 \left(C_5 L_1 L_3 L_5 R_5 g_m - C_5 L_1 L_3 L_5\right) + s^2 \left(L_1 L_3 R_5 g_m - L_1 L_3\right)}{R_5 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_3 L_5 R_5 + 2 C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_5 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5 + C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_5 + C_5 L_1 R_5 + C_5 L_3 R_5 + C_5 L_5 R_5 + 2 L_1 L_3 g_m\right) + s \left(L_1 R_5 g_m\right.$$

10.134 INVALID-ORDER-134 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3\right) + s^2 \left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3\right) + s \left(L_1 R_5 g_m - L_1\right)}{2 C_3 L_1 L_3 g_m s^3 + s^2 \left(2 C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_3\right) + s \left(C_3 R_3 + C_3 R_5 + 2 L_1 g_m\right) + 1}$$

10.135 INVALID-ORDER-135 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 s^3 + L_1 g_m + s^2 \left(-C_3 C_5 L_1 R_3 + C_3 L_1 L_3 g_m\right) + s \left(C_3 L_1 R_3 g_m - C_5 L_1\right)}{2 C_3 C_5 L_1 L_3 g_m s^3 + C_3 + C_5 + s^2 \left(2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 + C_3 C_5 L_3\right) + s \left(C_3 C_5 R_3 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.136 INVALID-ORDER-136 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_5 s^4 + s^3 \left(-C_3 C_5 L_1 R_3 R_5 + C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3\right) + s^2 \left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3 - C_5 L_1 R_5\right) + s \left(L_1 R_5 g_m - L_1\right)}{2 C_3 C_5 L_1 L_3 R_5 g_m s^4 + s^3 \left(2 C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_5 + C_3 C_5 L_3 R_5 + 2 C_3 L_1 L_3 g_m\right) + s^2 \left(C_3 C_5 R_3 R_5 + 2 C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_3 + 2 C_5 L_1 R_5 g_m\right) + s \left(C_3 R_3 + C_3 R_5 + C_5 R_5 + 2 L_1 g_m\right) + 1}$$

10.137 INVALID-ORDER-137 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 g_m + s^3 \left(C_3 C_5 L_1 L_3 R_5 g_m - C_3 C_5 L_1 L_3\right) + s^2 \left(C_3 C_5 L_1 R_3 R_5 g_m - C_3 C_5 L_1 R_3 + C_3 L_1 L_3 g_m\right) + s \left(C_3 L_1 R_3 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{2 C_3 C_5 L_1 L_3 g_m s^3 + C_3 + C_5 + s^2 \left(2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_3\right) + s \left(C_3 C_5 R_3 + C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.138 INVALID-ORDER-138 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 g_m s^4 + L_1 g_m + s^3 \left(-C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m\right) + s^2 \left(-C_3 C_5 L_1 R_3 + C_3 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s \left(C_3 L_1 R_3 g_m - C_5 L_1\right)}{C_3 + C_5 + s^3 \left(2 C_3 C_5 L_1 L_3 g_m + C_3 C_5 L_1 L_5 g_m\right) + s^2 \left(2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 + C_3 C_5 L_3 + C_3 C_5 L_5\right) + s \left(C_3 C_5 R_3 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.139 INVALID-ORDER-139 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 s^5 - L_1 s + s^4 \left(-C_3 C_5 L_1 L_5 R_3 + C_3 L_1 L_3 L_5 g_m\right) + s^3 \left(-C_3 L_1 L_3 + C_3 L_1 L_5 R_3 g_m - C_5 L_1 L_5\right) + s^2 \left(-C_3 L_1 R_3 + L_1 L_5 g_m\right)}{2 C_3 C_5 L_1 L_3 L_5 g_m s^5 + s^4 \left(2 C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 C_5 L_5 R_3 + 2 C_3 L_1 L_3 g_m + C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(2 C_3 L_1 R_3 g_m + C_3 L_1 + C_3 L_3 + C_3 L_5 + C_5 L_5\right) + s \left(C_3 R_3 + 2 L_1 g_m\right) + 1}$$

10.140 INVALID-ORDER-140 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 g_m s^4 + L_1 g_m + s^3 \left(C_3 C_5 L_1 L_3 R_5 g_m - C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m\right) + s^2 \left(C_3 C_5 L_1 R_3 R_5 g_m - C_3 C_5 L_1 R_3 + C_3 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s \left(C_3 L_1 R_3 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_3 + C_5 + s^3 \left(2 C_3 C_5 L_1 L_3 g_m + C_3 C_5 L_1 L_5 g_m\right) + s^2 \left(2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_3 + C_3 C_5 L_5\right) + s \left(C_3 C_5 R_3 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.141 INVALID-ORDER-141 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_5 s^5 - L_1 R_5 s + s^4 \left(-C_3 C_5 L_1 L_5 R_3 R_5 + C_3 L_1 L_3 L_5 R_5 g_m - C_3 L_1 L_3 L_5\right) + s^3 \left(-C_3 L_1 L_3 R_5 + C_3 L_1 L_5 R_3 R_5 g_m - C_3 L_1 L_5 R_3 - C_5 L_1 L_5 R_5\right) + s^2 \left(-C_3 L_1 R_3 R_5 + L_1 L_5 R_5 g_m - \right.}{2 C_3 C_5 L_1 L_3 L_5 R_5 g_m s^5 + R_5 + s^4 \left(2 C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_5 + C_3 C_5 L_3 L_5 R_5 + 2 C_3 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 C_5 L_5 R_3 R_5 + 2 C_3 L_1 L_3 R_5 g_m + 2 C_3 L_1 L_5 R_3 g_m + C_3 L_1 L_5 R_5 g_m + C_3 L_1 L_5 + C_3 L_3 L_5 + 2 C_5 L_1 L_5 R_5 g_m\right) + s^2 \left(2 C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_5 + C_3 L_3 R_5\right.}$$

10.142 INVALID-ORDER-142 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{s^5 \left(C_3 C_5 L_1 L_3 L_5 R_5 g_m - C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_3 C_5 L_1 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_5 R_3 + C_3 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3 + C_3 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3 + L_1 L_5 g_m\right) + s \left(L_1 R_5 g_m - L_1\right)}{2 C_3 C_5 L_1 L_3 L_5 g_m s^5 + s^4 \left(2 C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 C_5 L_5 R_3 + C_3 C_5 L_5 R_5 + 2 C_3 L_1 L_3 g_m + C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(2 C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_3 + C_3 L_5 + C_5 L_5\right) + s \left(C_3 R_3 + C_3 R_5 + 2 L_1 g_m\right)}$$

10.143 INVALID-ORDER-143 $Z(s) = \left(L_1 s,\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{s^5 \left(C_3 C_5 L_1 L_3 L_5 R_5 g_m - C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(-C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_1 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_5 R_3\right) + s^3 \left(-C_3 C_5 L_1 R_3 R_5 + C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3 + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3\right.}{2 C_3 C_5 L_1 L_3 L_5 g_m s^5 + s^4 \left(2 C_3 C_5 L_1 L_3 R_5 g_m + 2 C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5 + C_3 C_5 L_3 L_5\right) + s^3 \left(2 C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_5 + C_3 C_5 L_3 R_5 + C_3 C_5 L_5 R_3 + C_3 C_5 L_5 R_5 + 2 C_3 L_1 L_3 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 C_5 R_3 R_5 + 2 C_3 L_1 R_3 g_m + C_3 L_1 R_5\right.}$$

10.144 INVALID-ORDER-144 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2 \left(L_1 L_3 R_3 R_5 g_m - L_1 L_3 R_3\right)}{R_3 R_5 + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m + C_3 L_1 L_3 R_3\right) + s^2 \left(C_3 L_3 R_3 R_5 + 2 L_1 L_3 R_3 g_m + L_1 L_3 R_5 g_m + L_1 L_3\right) + s \left(L_1 R_3 R_5 g_m + L_1 R_3 + L_3 R_3 + L_3 R_5\right)}$$

10.145 INVALID-ORDER-145 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_3 s^3 + L_1 L_3 R_3 g_m s^2}{C_3 C_5 L_1 L_3 R_3 s^4 + R_3 + s^3 \left(C_3 L_1 L_3 R_3 g_m + 2 C_5 L_1 L_3 R_3 g_m + C_5 L_1 L_3\right) + s^2 \left(C_3 L_3 R_3 + C_5 L_1 R_3 + C_5 L_3 R_3 + L_1 L_3 g_m\right) + s \left(L_1 R_3 g_m + L_3\right)}$$

10.146 INVALID-ORDER-146 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_3 R_5 s^3 + s^2 \left(L_1 L_3 R_3 R_5 g_m - L_1 L_3 R_3\right)}{C_3 C_5 L_1 L_3 R_3 R_5 s^4 + R_3 R_5 + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m + C_3 L_1 L_3 R_3 + 2 C_5 L_1 L_3 R_3 R_5 g_m + C_5 L_1 L_3 R_5\right) + s^2 \left(C_3 L_3 R_3 R_5 + C_5 L_1 R_3 R_5 + C_5 L_3 R_3 R_5 + 2 L_1 L_3 R_3 g_m + L_1 L_3 R_5 g_m + L_1 L_3\right) + s \left(L_1 R_3 R_5 g_m + L_1 R_3 + L_3 R_3 + L_3 R_5\right)}$$

10.147 INVALID-ORDER-147 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 L_3 R_3 g_m s^2 + s^3 \left(C_5 L_1 L_3 R_3 R_5 g_m - C_5 L_1 L_3 R_3\right)}{R_3 + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_3\right) + s^3 \left(C_3 C_5 L_3 R_3 R_5 + C_3 L_1 L_3 R_3 g_m + 2 C_5 L_1 L_3 R_3 g_m + C_5 L_1 L_3 R_5 g_m + C_5 L_1 L_3\right) + s^2 \left(C_3 L_3 R_3 + C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_3 + C_5 L_3 R_3 + C_5 L_3 R_5 + L_1 L_3 g_m\right) + s \left(C_5 R_3 R_5 + L_1 R_3 g_m + L_3\right)}$$

10.148 INVALID-ORDER-148 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_3 L_5 R_3 g_m s^4 - C_5 L_1 L_3 R_3 s^3 + L_1 L_3 R_3 g_m s^2}{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 + R_3 + s^4 \left(C_3 C_5 L_1 L_3 R_3 + C_3 C_5 L_3 L_5 R_3 + C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 L_1 L_3 R_3 g_m + 2 C_5 L_1 L_3 R_3 g_m + C_5 L_1 L_3 + C_5 L_1 L_5 R_3 g_m + C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_3 + C_5 L_1 R_3 + C_5 L_3 R_3 + C_5 L_5 R_3 + L_1 L_3 g_m\right) + s \left(L_1 R_3 g_m + L_3\right)}$$

10.149 INVALID-ORDER-149 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 L_5 R_3 s^3 + L_1 L_3 L_5 R_3 g_m s^2 - L_1 L_3 R_3 s}{C_3 C_5 L_1 L_3 L_5 R_3 s^4 + L_1 R_3 + L_3 R_3 + L_5 R_3 + s^3 \left(C_3 L_1 L_3 L_5 R_3 g_m + 2 C_5 L_1 L_3 L_5 R_3 g_m + C_5 L_1 L_3 L_5\right) + s^2 \left(C_3 L_1 L_3 R_3 + C_3 L_3 L_5 R_3 + C_5 L_1 L_5 R_3 + C_5 L_3 L_5 R_3 + L_1 L_3 L_5 g_m\right) + s \left(2 L_1 L_3 R_3 g_m + L_1 L_3 + L_1 L_5 R_3 g_m + L_3 L_5\right)}$$

10.150 INVALID-ORDER-150 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_3 L_5 R_3 g_m s^4 + L_1 L_3 R_3 g_m s^2 + s^3 \left(C_5 L_1 L_3 R_3 R_5 g_m - C_5 L_1 L_3 R_3\right)}{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 + R_3 + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_3 + C_3 C_5 L_3 L_5 R_3 + C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 C_5 L_3 R_3 R_5 + C_3 L_1 L_3 R_3 g_m + 2 C_5 L_1 L_3 R_3 g_m + C_5 L_1 L_3 R_5 g_m + C_5 L_1 L_3 + C_5 L_1 L_5 R_3 g_m + C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_3 + C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_3 + C_5 L_3 R_3 + C_5 L_3 R_5 + C_5 L_5 R_3 + L_1 L_3 g_m\right) + s \left(L_1 R_3 g_m + L_3\right)}$$

10.151 INVALID-ORDER-151 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 L_5 R_3 R_5 s^3 - L_1 L_3 R_3 R_5 s + s^2 \left(L_1 L_3 L_5 R_3 R_5 g_m - L_1 L_3 L_5 R_3\right)}{C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^4 + L_1 R_3 R_5 + L_3 R_3 R_5 + L_5 R_3 R_5 + s^3 \left(C_3 L_1 L_3 L_5 R_3 R_5 g_m + C_3 L_1 L_3 L_5 R_3 + 2 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_5 L_1 L_3 L_5 R_5\right) + s^2 \left(C_3 L_1 L_3 R_3 R_5 + C_3 L_3 L_5 R_3 R_5 + C_5 L_1 L_5 R_3 R_5 + C_5 L_3 L_5 R_3 R_5 + 2 L_1 L_3 R_3 g_m + L_1 L_3 L_5 R_5 g_m + L_1 L_3 L_5\right) + s \left(2 L_1 L\right.$$

10.152 INVALID-ORDER-152 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_1 L_3 L_5 R_3 g_m s^3 + s^4 \left(C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_5 L_1 L_3 L_5 R_3\right) + s^2 \left(L_1 L_3 R_3 R_5 g_m - L_1 L_3 R_3\right)}{R_3 R_5 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(C_3 C_5 L_3 L_5 R_3 R_5 + C_3 L_1 L_3 L_5 R_3 g_m + 2 C_5 L_1 L_3 L_5 R_3 g_m + C_5 L_1 L_3 L_5 R_5 g_m + C_5 L_1 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m + C_3 L_1 L_3 R_3 + C_3 L_3 L_5 R_3 + C_5 L_1 L_5 R_3 R_5 g_m + C_5 L_1 L_5 R_3 + C_5 L_3 L_5 R_3 + C_5 L_3 L_5 R_5 +\right.$$

10.153 INVALID-ORDER-153 $Z(s) = \left(L_1 s,\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_3 R_5 s^3 + s^4 \left(C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_5 L_1 L_3 L_5 R_3\right) + s^2 \left(L_1 L_3 R_3 R_5 g_m - L_1 L_3 R_3\right)}{R_3 R_5 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 + C_3 C_5 L_3 L_5 R_3 R_5 + 2 C_5 L_1 L_3 L_5 R_3 g_m + C_5 L_1 L_3 L_5 R_5 g_m + C_5 L_1 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m + C_3 L_1 L_3 R_3 + 2 C_5 L_1 L_3 R_3 R_5 g_m + C_5 L_1 L_3 R_5 + C_5 L_1 L_5 R_3 R_5 g_m + C_5 L_1 L_5 R_3 + C_5 L_3 L\right.$$

10.154 INVALID-ORDER-154 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3\right) + s^2 \left(L_1 L_3 R_5 g_m - L_1 L_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^3 \left(2 C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3\right) + s^2 \left(C_3 L_3 R_3 + C_3 L_3 R_5 + 2 L_1 L_3 g_m\right) + s \left(2 L_1 R_3 g_m + L_1 R_5 g_m + L_1 + L_3\right)}$$

10.155 INVALID-ORDER-155 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 s^4 + L_1 R_3 g_m s + s^3 \left(C_3 L_1 L_3 R_3 g_m - C_5 L_1 L_3\right) + s^2 \left(-C_5 L_1 R_3 + L_1 L_3 g_m\right)}{s^4 \left(2 C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3\right) + s^3 \left(C_3 C_5 L_3 R_3 + C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m\right) + s^2 \left(C_3 L_3 + 2 C_5 L_1 R_3 g_m + C_5 L_1 + C_5 L_3\right) + s \left(C_5 R_3 + L_1 g_m\right) + 1}$$

10.156 INVALID-ORDER-156 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 R_5 s^4 + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3 - C_5 L_1 L_3 R_5\right) + s^2 \left(-C_5 L_1 R_3 R_5 + L_1 L_3 R_5 g_m - L_1 L_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^4 \left(2 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_3 C_5 L_3 R_3 R_5 + 2 C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_5 g_m\right) + s^2 \left(C_3 L_3 R_3 + C_3 L_3 R_5 + 2 C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5 + C_5 L_3 R_5 + 2 L_1 L_3 g_m\right) + s \left(C_5 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1 + L_3\right)}$$

10.157 INVALID-ORDER-157 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_3 g_m s + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_3\right) + s^3 \left(C_3 L_1 L_3 R_3 g_m + C_5 L_1 L_3 R_5 g_m - C_5 L_1 L_3\right) + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3 + L_1 L_3 g_m\right)}{s^4 \left(2 C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3\right) + s^3 \left(C_3 C_5 L_3 R_3 + C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m\right) + s^2 \left(C_3 L_3 + 2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1 + C_5 L_3\right) + s \left(C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

10.158 INVALID-ORDER-158 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 + L_1 R_3 g_m s + s^4 \left(-C_3 C_5 L_1 L_3 R_3 + C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 L_1 L_3 R_3 g_m - C_5 L_1 L_3 + C_5 L_1 L_5 R_3 g_m\right) + s^2 \left(-C_5 L_1 R_3 + L_1 L_3 g_m\right)}{C_3 C_5 L_1 L_3 L_5 g_m s^5 + s^4 \left(2 C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 C_5 L_3 R_3 + C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 L_3 + 2 C_5 L_1 R_3 g_m + C_5 L_1 + C_5 L_3 + C_5 L_5\right) + s \left(C_5 R_3 + L_1 g_m\right) + 1}$$

10.159 INVALID-ORDER-159 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^5 - L_1 R_3 s + s^4 \left(C_3 L_1 L_3 L_5 R_3 g_m - C_5 L_1 L_3 L_5\right) + s^3 \left(-C_3 L_1 L_3 R_3 - C_5 L_1 L_5 R_3 + L_1 L_3 L_5 g_m\right) + s^2 \left(-L_1 L_3 + L_1 L_5 R_3 g_m\right)}{R_3 + s^5 \left(2 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_3 C_5 L_3 L_5 R_3 + C_3 L_1 L_3 L_5 g_m + 2 C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(2 C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 + C_3 L_3 L_5 + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 + C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_3 + C_5 L_5 R_3 + 2 L_1 L_3 g_m + L_1 L_5 g_m\right) + s \left(2 L_1 R_3 g_m + L_1 + L_3 +\right.$$

10.160 INVALID-ORDER-160 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 + L_1 R_3 g_m s + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_3 + C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 L_1 L_3 R_3 g_m + C_5 L_1 L_3 R_5 g_m - C_5 L_1 L_3 + C_5 L_1 L_5 R_3 g_m\right) + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3 + L_1 L_3 g_m\right)}{C_3 C_5 L_1 L_3 L_5 g_m s^5 + s^4 \left(2 C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 C_5 L_3 R_3 + C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2 \left(C_3 L_3 + 2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1 + C_5 L_3 + C_5 L_5\right) + s \left(C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1$$

10.161 INVALID-ORDER-161 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^5 - L_1 R_3 R_5 s + s^4 \left(C_3 L_1 L_3 L_5 R_3 R_5 g_m - C_3 L_1 L_3 L_5 R_3 - C_5 L_1 L_3 L_5 R_5\right) + s^3 \left(-C_3 L_1 L_3 R_3 R_5 - C_5 L_1 L_5 R_3 R_5 + L_1 L_3 L_5 R_5 g_m - L\right.}{R_3 R_5 + s^5 \left(2 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_3 C_5 L_3 L_5 R_3 R_5 + 2 C_3 L_1 L_3 L_5 R_3 g_m + C_3 L_1 L_3 L_5 R_5 g_m + C_3 L_1 L_3 L_5 + 2 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^3 \left(2 C_3 L_1 L_3 R_3 R_5 g_m + C_3 L_1 L_3 R_5 + C_3 L_3 L_5 R_3 + C_3 L_3 L_5 R_5 + 2 C_5 L_1 L_5 R_3 R_5 g_m + C_5 L_1 L_5 R_5 + C_5 L_3 L_5\right.$$

10.162 INVALID-ORDER-162 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{s^5 \left(C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(C_3 L_1 L_3 L_5 R_3 g_m + C_5 L_1 L_3 L_5 R_5 g_m - C_5 L_1 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3 + C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3 + L_1 L_3 L_5 g_m\right) + s^2 \left(L_1 L_3 R_5\right.}{R_3 + R_5 + s^5 \left(2 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_3 C_5 L_3 L_5 R_3 + C_3 C_5 L_3 L_5 R_5 + C_3 L_1 L_3 L_5 g_m + 2 C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(2 C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + C_3 L_3 L_5 + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5 + C_5 L_3 L_5\right) +$$

10.163 INVALID-ORDER-163 $Z(s) = \left(L_1 s,\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{s^5 \left(C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(-C_3 C_5 L_1 L_3 R_3 R_5 + C_5 L_1 L_3 L_5 R_5 g_m - C_5 L_1 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3 - C_5 L_1 L_3 R_5 + C_5 L\right.}{R_3 + R_5 + s^5 \left(2 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(2 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_3 L_5 R_3 + C_3 C_5 L_3 L_5 R_5 + 2 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^3 \left(C_3 C_5 L_3 R_3 R_5 + 2 C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_5 g_m + 2 C_5 L_1 L\right.$$

10.164 INVALID-ORDER-164 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3\right) + s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^3\left(2C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3\right) + s^2\left(C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3 + C_3 L_3 R_3 + C_3 L_3 R_5\right) + s\left(C_3 R_3 R_5 + 2L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

10.165 INVALID-ORDER-165 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 s^4 + C_3 L_1 L_3 R_3 g_m s^3 - C_5 L_1 R_3 s^2 + L_1 R_3 g_m s}{s^4\left(2C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3\right) + s^3\left(C_3 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 L_1 L_3 g_m\right) + s^2\left(C_3 L_1 R_3 g_m + C_3 L_3 + 2C_5 L_1 R_3 g_m + C_5 L_1\right) + s\left(C_3 R_3 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.166 INVALID-ORDER-166 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 R_5 s^4 - C_5 L_1 R_3 R_5 s^2 + s^3\left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3\right) + s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^4\left(2C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_5\right) + s^3\left(C_3 C_5 L_1 R_3 R_5 + C_3 C_5 L_3 R_3 R_5 + 2C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3\right) + s^2\left(C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3 + C_3 L_3 R_3 + C_3 L_3 R_5 + 2C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5\right) + s\left(C_3 R_3 R_5 + C_5 R_3 R_5 + 2L_1 R_3 g_m + L_1 R\right.$$

10.167 INVALID-ORDER-167 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 L_1 L_3 R_3 g_m s^3 + L_1 R_3 g_m s + s^4\left(C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_3\right) + s^2\left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{s^4\left(2C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3\right) + s^3\left(C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m\right) + s^2\left(C_3 C_5 R_3 R_5 + C_3 L_1 R_3 g_m + C_3 L_3 + 2C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1\right) + s\left(C_3 R_3 + C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

10.168 INVALID-ORDER-168 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 - C_3 C_5 L_1 L_3 R_3 s^4 - C_5 L_1 R_3 s^2 + L_1 R_3 g_m s + s^3\left(C_3 L_1 L_3 R_3 g_m + C_5 L_1 L_5 R_3 g_m\right)}{C_3 C_5 L_1 L_3 L_5 g_m s^5 + s^4\left(2C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3\left(C_3 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 C_5 L_5 R_3 + C_3 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2\left(C_3 L_1 R_3 g_m + C_3 L_3 + 2C_5 L_1 R_3 g_m + C_5 L_1 + C_5 L_5\right) + s\left(C_3 R_3 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.169 INVALID-ORDER-169 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_3 s^5 + C_3 L_1 L_3 L_5 R_3 g_m s^4 + L_1 L_5 R_3 g_m s^2 - L_1 R_3 s + s^3\left(-C_3 L_1 L_3 R_3 - C_5 L_1 L_5 R_3\right)}{R_3 + s^5\left(2C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4\left(C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_3 L_5 R_3 + C_3 L_1 L_3 L_5 g_m\right) + s^3\left(2C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 + C_3 L_1 L_5 R_3 g_m + C_3 L_3 L_5 + 2C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5\right) + s^2\left(C_3 L_1 R_3 + C_3 L_3 R_3 + C_3 L_5 R_3 + C_5 L_5 R_3 + L_1 L_5 g_m\right) + s\left(2L_1 R_3 g_m\right.$$

10.170 INVALID-ORDER-170 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 + L_1 R_3 g_m s + s^4\left(C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_3\right) + s^3\left(C_3 L_1 L_3 R_3 g_m + C_5 L_1 L_5 R_3 g_m\right) + s^2\left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{C_3 C_5 L_1 L_3 L_5 g_m s^5 + s^4\left(2C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3\left(C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 C_5 L_3 R_5 + C_3 C_5 L_5 R_3 + C_3 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2\left(C_3 C_5 R_3 R_5 + C_3 L_1 R_3 g_m + C_3 L_3 + 2C_5 L\right.$$

10.171 INVALID-ORDER-171 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^5 - L_1 R_3 R_5 s + s^4\left(C_3 L_1 L_3 L_5 R_3 R_5 g_m - C_3 L_1 L_3 L_5 R_3\right) + s^3\left(-C_3 L_1 L_3 R_3 R_5 - C_5 L_1 L_5 R_3 R_5\right) + s^2\left(L\right.}{R_3 R_5 + s^5\left(2C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4\left(C_3 C_5 L_1 L_5 R_3 R_5 + C_3 C_5 L_3 L_5 R_3 R_5 + 2C_3 L_1 L_3 L_5 R_3 g_m + C_3 L_1 L_3 L_5 R_5 g_m + C_3 L_1 L_3 L_5\right) + s^3\left(2C_3 L_1 L_3 R_3 R_5 g_m + C_3 L_1 L_3 R_5 + C_3 L_1 L_5 R_3 R_5 g_m + C_3 L_1 L_5 R_3 + C_3 L_3 L_5 R_3 + C_3 L_3 L_5 R_5 + 2C_5 L_1 L_5 R\right.$$

10.172 INVALID-ORDER-172 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_3 L_1 L_3 L_5 R_3 g_m s^4 + L_1 L_5 R_3 g_m s^2 + s^5\left(C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_3 L_5 R_3\right) + s^3\left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3 + C_5 L\right.}{R_3 + R_5 + s^5\left(2C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4\left(C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_3 L_5 R_3 + C_3 C_5 L_3 L_5 R_5 + C_3 L_1 L_3 L_5 g_m\right) + s^3\left(C_3 C_5 L_5 R_3 R_5 + 2C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + C_3 L_1 L_5 R_3 g_m + C_3 L_3 L_5 + 2\right.$$

10.173 INVALID-ORDER-173 $Z(s) = \left(L_1 s,\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 R_5 s^4 - C_5 L_1 R_3 R_5 s^2 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_3 L_5 R_3\right) + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m + \right.}{R_3 + R_5 + s^5 \left(2 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(2 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_3 L_5 R_3 + C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(C_3 C_5 L_1 R_3 R_5 + C_3 C_5 L_3 R_3 R_5 + C_3 C_5 L_5 R_3 R_5 + 2 C_3 L_1 L_3 R_3 g_m + \right.}$$

10.174 INVALID-ORDER-174 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3}{2 R_3 g_m + R_5 g_m + s\left(C_1 R_3 + C_1 R_5\right) + 1}$$

10.175 INVALID-ORDER-175 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_3 g_m s^2 - C_5 R_3 s + R_3 g_m}{C_1 C_5 L_5 s^3 + g_m + s^2\left(C_1 C_5 R_3 + C_5 L_5 g_m\right) + s\left(C_1 + 2 C_5 R_3 g_m + C_5\right)}$$

10.176 INVALID-ORDER-176 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_3 s^2 + L_5 R_3 g_m s - R_3}{C_1 C_5 L_5 R_3 s^3 + 2 R_3 g_m + s^2\left(C_1 L_5 + 2 C_5 L_5 R_3 g_m + C_5 L_5\right) + s\left(C_1 R_3 + L_5 g_m\right) + 1}$$

10.177 INVALID-ORDER-177 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_3 g_m s^2 + R_3 g_m + s\left(C_5 R_3 R_5 g_m - C_5 R_3\right)}{C_1 C_5 L_5 s^3 + g_m + s^2\left(C_1 C_5 R_3 + C_1 C_5 R_5 + C_5 L_5 g_m\right) + s\left(C_1 + 2 C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.178 INVALID-ORDER-178 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_3 R_5 s^2 - R_3 R_5 + s\left(L_5 R_3 R_5 g_m - L_5 R_3\right)}{C_1 C_5 L_5 R_3 R_5 s^3 + 2 R_3 R_5 g_m + R_5 + s^2\left(C_1 L_5 R_3 + C_1 L_5 R_5 + 2 C_5 L_5 R_3 R_5 g_m + C_5 L_5 R_5\right) + s\left(C_1 R_3 R_5 + 2 L_5 R_3 g_m + L_5 R_5 g_m + L_5\right)}$$

10.179 INVALID-ORDER-179 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_5 R_3 g_m s + R_3 R_5 g_m - R_3 + s^2\left(C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3\right)}{2 R_3 g_m + R_5 g_m + s^3\left(C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5\right) + s^2\left(C_1 L_5 + 2 C_5 L_5 R_3 g_m + C_5 L_5 R_5 g_m + C_5 L_5\right) + s\left(C_1 R_3 + C_1 R_5 + L_5 g_m\right) + 1}$$

10.180 INVALID-ORDER-180 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 R_3 R_5 s + R_3 R_5 g_m - R_3 + s^2\left(C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3\right)}{2 R_3 g_m + R_5 g_m + s^3\left(C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5\right) + s^2\left(C_1 C_5 R_3 R_5 + 2 C_5 L_5 R_3 g_m + C_5 L_5 R_5 g_m + C_5 L_5\right) + s\left(C_1 R_3 + C_1 R_5 + 2 C_5 R_3 R_5 g_m + C_5 R_5\right) + 1}$$

10.181 INVALID-ORDER-181 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 s + g_m}{s^2\left(C_1 C_3 + C_1 C_5 + C_3 C_5\right) + s\left(C_3 g_m + 2 C_5 g_m\right)}$$

10.182 INVALID-ORDER-182 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s\left(C_5 R_5 g_m - C_5\right)}{C_1 C_3 C_5 R_5 s^3 + s^2\left(C_1 C_3 + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s\left(C_3 g_m + 2 C_5 g_m\right)}$$

10.183 INVALID-ORDER-183 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 g_m s^2 - C_5 s + g_m}{C_1 C_3 C_5 L_5 s^4 + C_3 C_5 L_5 g_m s^3 + s^2\left(C_1 C_3 + C_1 C_5 + C_3 C_5\right) + s\left(C_3 g_m + 2 C_5 g_m\right)}$$

10.184 INVALID-ORDER-184 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 s^2 + L_5 g_m s - 1}{2 g_m + s^3\left(C_1 C_3 L_5 + C_1 C_5 L_5 + C_3 C_5 L_5\right) + s^2\left(C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s\left(C_1 + C_3\right)}$$

10.185 INVALID-ORDER-185 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 g_m s^2 + g_m + s\left(C_5 R_5 g_m - C_5\right)}{C_1 C_3 C_5 L_5 s^4 + s^3\left(C_1 C_3 C_5 R_5 + C_3 C_5 L_5 g_m\right) + s^2\left(C_1 C_3 + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s\left(C_3 g_m + 2 C_5 g_m\right)}$$

10.186 INVALID-ORDER-186 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_5 s^2 - R_5 + s\left(L_5 R_5 g_m - L_5\right)}{2 R_5 g_m + s^3\left(C_1 C_3 L_5 R_5 + C_1 C_5 L_5 R_5 + C_3 C_5 L_5 R_5\right) + s^2\left(C_1 L_5 + C_3 L_5 R_5 g_m + C_3 L_5 + 2 C_5 L_5 R_5 g_m\right) + s\left(C_1 R_5 + C_3 R_5 + 2 L_5 g_m\right)}$$

10.187 INVALID-ORDER-187 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_5 g_m s + R_5 g_m + s^2\left(C_5 L_5 R_5 g_m - C_5 L_5\right) - 1}{C_1 C_3 C_5 L_5 R_5 s^4 + 2 g_m + s^3\left(C_1 C_3 L_5 + C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2\left(C_1 C_3 R_5 + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s\left(C_1 + C_3 R_5 g_m + C_3\right)}$$

10.188 INVALID-ORDER-188 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 R_5 s + R_5 g_m + s^2\left(C_5 L_5 R_5 g_m - C_5 L_5\right) - 1}{C_1 C_3 C_5 L_5 R_5 s^4 + 2 g_m + s^3\left(C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2\left(C_1 C_3 R_5 + C_1 C_5 R_5 + C_3 C_5 R_5 + 2 C_5 L_5 g_m\right) + s\left(C_1 + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right)}$$

10.189 INVALID-ORDER-189 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s\left(C_5 R_3 R_5 g_m - C_5 R_3\right)}{C_1 C_3 C_5 R_3 R_5 s^3 + g_m + s^2\left(C_1 C_3 R_3 + C_1 C_5 R_3 + C_1 C_5 R_5 + C_3 C_5 R_3 R_5 g_m + C_3 C_5 R_3\right) + s\left(C_1 + C_3 R_3 g_m + 2 C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.190 INVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_3 g_m s^2 - C_5 R_3 s + R_3 g_m}{C_1 C_3 C_5 L_5 R_3 s^4 + g_m + s^3\left(C_1 C_5 L_5 + C_3 C_5 L_5 R_3 g_m\right) + s^2\left(C_1 C_3 R_3 + C_1 C_5 R_3 + C_3 C_5 R_3 + C_5 L_5 g_m\right) + s\left(C_1 + C_3 R_3 g_m + 2 C_5 R_3 g_m + C_5\right)}$$

10.191 INVALID-ORDER-191 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_3 s^2 + L_5 R_3 g_m s - R_3}{2 R_3 g_m + s^3\left(C_1 C_3 L_5 R_3 + C_1 C_5 L_5 R_3 + C_3 C_5 L_5 R_3\right) + s^2\left(C_1 L_5 + C_3 L_5 R_3 g_m + 2 C_5 L_5 R_3 g_m + C_5 L_5\right) + s\left(C_1 R_3 + C_3 R_3 + L_5 g_m\right) + 1}$$

10.192 INVALID-ORDER-192 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_3 g_m s^2 + R_3 g_m + s\left(C_5 R_3 R_5 g_m - C_5 R_3\right)}{C_1 C_3 C_5 L_5 R_3 s^4 + g_m + s^3\left(C_1 C_3 C_5 R_3 R_5 + C_1 C_5 L_5 + C_3 C_5 L_5 R_3 g_m\right) + s^2\left(C_1 C_3 R_3 + C_1 C_5 R_3 + C_1 C_5 R_5 + C_3 C_5 R_3 R_5 g_m + C_3 C_5 R_3 + C_5 L_5 g_m\right) + s\left(C_1 + C_3 R_3 g_m + 2 C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.193 INVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_3 R_5 s^2 - R_3 R_5 + s\left(L_5 R_3 R_5 g_m - L_5 R_3\right)}{2 R_3 R_5 g_m + R_5 + s^3\left(C_1 C_3 L_5 R_3 R_5 + C_1 C_5 L_5 R_3 R_5 + C_3 C_5 L_5 R_3 R_5\right) + s^2\left(C_1 L_5 R_3 + C_1 L_5 R_5 + C_3 L_5 R_3 R_5 g_m + C_3 L_5 R_3 + 2 C_5 L_5 R_3 R_5 g_m + C_5 L_5 R_5\right) + s\left(C_1 R_3 R_5 + C_3 R_3 R_5 + 2 L_5 R_3 g_m + L_5 R_5 g_m + L_5\right)}$$

10.194 INVALID-ORDER-194 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_5 R_3 g_m s + R_3 R_5 g_m - R_3 + s^2\left(C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3\right)}{C_1 C_3 C_5 L_5 R_3 R_5 s^4 + 2 R_3 g_m + R_5 g_m + s^3\left(C_1 C_3 L_5 R_3 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_3 C_5 L_5 R_3 R_5 g_m + C_3 C_5 L_5 R_3\right) + s^2\left(C_1 C_3 R_3 R_5 + C_1 L_5 + C_3 L_5 R_3 g_m + 2 C_5 L_5 R_3 g_m + C_5 L_5 R_5 g_m + C_5 L_5\right) + s\left(C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3 + L_5 g_m\right) + 1}$$

10.195 INVALID-ORDER-195 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 R_3 R_5 s + R_3 R_5 g_m - R_3 + s^2\left(C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3\right)}{C_1 C_3 C_5 L_5 R_3 R_5 s^4 + 2 R_3 g_m + R_5 g_m + s^3\left(C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_3 C_5 L_5 R_3 R_5 g_m + C_3 C_5 L_5 R_3\right) + s^2\left(C_1 C_3 R_3 R_5 + C_1 C_5 R_3 R_5 + C_3 C_5 R_3 R_5 + 2 C_5 L_5 R_3 g_m + C_5 L_5 R_5 g_m + C_5 L_5\right) + s\left(C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3 + 2 C_5 R_3 R_5 g_m + C_5 R_5\right) + 1}$$

10.196 INVALID-ORDER-196 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 R_3 s^2 + g_m + s\left(C_3 R_3 g_m - C_5\right)}{C_1 C_3 C_5 R_3 s^3 + s^2\left(C_1 C_3 + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5\right) + s\left(C_3 g_m + 2 C_5 g_m\right)}$$

10.197 INVALID-ORDER-197 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 R_3 R_5 s^2 + R_5 g_m + s\left(C_3 R_3 R_5 g_m - C_3 R_3 - C_5 R_5\right) - 1}{C_1 C_3 C_5 R_3 R_5 s^3 + 2 g_m + s^2\left(C_1 C_3 R_3 + C_1 C_3 R_5 + C_1 C_5 R_5 + 2 C_3 C_5 R_3 R_5 g_m + C_3 C_5 R_5\right) + s\left(C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right)}$$

10.198 INVALID-ORDER-198 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^2\left(C_3 C_5 R_3 R_5 g_m - C_3 C_5 R_3\right) + s\left(C_3 R_3 g_m + C_5 R_5 g_m - C_5\right)}{s^3\left(C_1 C_3 C_5 R_3 + C_1 C_3 C_5 R_5\right) + s^2\left(C_1 C_3 + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5 R_5 g_m + C_3 C_5\right) + s\left(C_3 g_m + 2 C_5 g_m\right)}$$

10.199 INVALID-ORDER-199 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_5 R_3 g_m s^3 + g_m + s^2\left(-C_3 C_5 R_3 + C_5 L_5 g_m\right) + s\left(C_3 R_3 g_m - C_5\right)}{C_1 C_3 C_5 L_5 s^4 + s^3\left(C_1 C_3 C_5 R_3 + C_3 C_5 L_5 g_m\right) + s^2\left(C_1 C_3 + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5\right) + s\left(C_3 g_m + 2 C_5 g_m\right)}$$

10.200 INVALID-ORDER-200 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_5 R_3 s^3 + s^2\left(C_3 L_5 R_3 g_m - C_5 L_5\right) + s\left(-C_3 R_3 + L_5 g_m\right) - 1}{C_1 C_3 C_5 L_5 R_3 s^4 + 2 g_m + s^3\left(C_1 C_3 L_5 + C_1 C_5 L_5 + 2 C_3 C_5 L_5 R_3 g_m + C_3 C_5 L_5\right) + s^2\left(C_1 C_3 R_3 + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s\left(C_1 + 2 C_3 R_3 g_m + C_3\right)}$$

10.201 INVALID-ORDER-201 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_5 R_3 g_m s^3 + g_m + s^2 \left(C_3 C_5 R_3 R_5 g_m - C_3 C_5 R_3 + C_5 L_5 g_m\right) + s \left(C_3 R_3 g_m + C_5 R_5 g_m - C_5\right)}{C_1 C_3 C_5 L_5 s^4 + s^3 \left(C_1 C_3 C_5 R_3 + C_1 C_3 C_5 R_5 + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.202 INVALID-ORDER-202 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_5 R_3 R_5 s^3 - R_5 + s^2 \left(C_3 L_5 R_3 R_5 g_m - C_3 L_5 R_3 - C_5 L_5 R_5\right) + s \left(-C_3 R_3 R_5 + L_5 R_5 g_m - L_5\right)}{C_1 C_3 C_5 L_5 R_3 R_5 s^4 + 2 R_5 g_m + s^3 \left(C_1 C_3 L_5 R_3 + C_1 C_3 L_5 R_5 + C_1 C_5 L_5 R_5 + 2 C_3 C_5 L_5 R_3 R_5 g_m + C_3 C_5 L_5 R_5\right) + s^2 \left(C_1 C_3 R_3 R_5 + C_1 L_5 + 2 C_3 L_5 R_3 g_m + C_3 L_5 R_5 g_m + C_3 L_5 + 2 C_5 L_5 R_5 g_m\right) + s \left(C_1 R_5 + 2 C_3 R_3 R_5 g_m + C_3 R_5 + 2 L_5 g_m\right)}$$

10.203 INVALID-ORDER-203 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^3 \left(C_3 C_5 L_5 R_3 R_5 g_m - C_3 C_5 L_5 R_3\right) + s^2 \left(C_3 L_5 R_3 g_m + C_5 L_5 R_5 g_m - C_5 L_5\right) + s \left(C_3 R_3 R_5 g_m - C_3 R_3 + L_5 g_m\right) - 1}{2 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_3 + C_1 C_3 C_5 L_5 R_5\right) + s^3 \left(C_1 C_3 L_5 + C_1 C_5 L_5 + 2 C_3 C_5 L_5 R_3 g_m + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_3 + C_1 C_3 R_5 + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3\right)}$$

10.204 INVALID-ORDER-204 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^3 \left(C_3 C_5 L_5 R_3 R_5 g_m - C_3 C_5 L_5 R_3\right) + s^2 \left(-C_3 C_5 R_3 R_5 + C_5 L_5 R_5 g_m - C_5 L_5\right) + s \left(C_3 R_3 R_5 g_m - C_3 R_3 - C_5 R_5\right) - 1}{2 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_3 + C_1 C_3 C_5 L_5 R_5\right) + s^3 \left(C_1 C_3 C_5 R_3 R_5 + C_1 C_5 L_5 + 2 C_3 C_5 L_5 R_3 g_m + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_3 + C_1 C_3 R_5 + C_1 C_5 R_5 + 2 C_3 C_5 R_3 R_5 g_m + C_3 C_5 R_5 + 2 C_5 L_5 g_m\right) + s \left(C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right)}$$

10.205 INVALID-ORDER-205 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_3 L_3 R_5 g_m - C_3 L_3\right) - 1}{C_1 C_3 L_3 s^3 + 2 g_m + s^2 \left(C_1 C_3 R_5 + 2 C_3 L_3 g_m\right) + s \left(C_1 + C_3 R_5 g_m + C_3\right)}$$

10.206 INVALID-ORDER-206 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 s^3 + C_3 L_3 g_m s^2 - C_5 s + g_m}{C_1 C_3 C_5 L_3 s^4 + 2 C_3 C_5 L_3 g_m s^3 + s^2 \left(C_1 C_3 + C_1 C_5 + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.207 INVALID-ORDER-207 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_5 s^3 - C_5 R_5 s + R_5 g_m + s^2 \left(C_3 L_3 R_5 g_m - C_3 L_3\right) - 1}{C_1 C_3 C_5 L_3 R_5 s^4 + 2 g_m + s^3 \left(C_1 C_3 L_3 + 2 C_3 C_5 L_3 R_5 g_m\right) + s^2 \left(C_1 C_3 R_5 + C_1 C_5 R_5 + C_3 C_5 R_5 + 2 C_3 L_3 g_m\right) + s \left(C_1 + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right)}$$

10.208 INVALID-ORDER-208 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 L_3 g_m s^2 + g_m + s^3 \left(C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3\right) + s \left(C_5 R_5 g_m - C_5\right)}{C_1 C_3 C_5 L_3 s^4 + s^3 \left(C_1 C_3 C_5 R_5 + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.209 INVALID-ORDER-209 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 g_m s^4 - C_3 C_5 L_3 s^3 - C_5 s + g_m + s^2 \left(C_3 L_3 g_m + C_5 L_5 g_m\right)}{s^4 \left(C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5\right) + s^3 \left(2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.210 INVALID-ORDER-210 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 s^4 + C_3 L_3 L_5 g_m s^3 + L_5 g_m s + s^2 \left(-C_3 L_3 - C_5 L_5\right) - 1}{C_1 C_3 C_5 L_3 L_5 s^5 + 2 C_3 C_5 L_3 L_5 g_m s^4 + 2 g_m + s^3 \left(C_1 C_3 L_3 + C_1 C_3 L_5 + C_1 C_5 L_5 + C_3 C_5 L_5\right) + s^2 \left(2 C_3 L_3 g_m + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + C_3\right)}$$

10.211 INVALID-ORDER-211 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 g_m s^4 + g_m + s^3 \left(C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3\right) + s^2 \left(C_3 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_5 R_5 g_m - C_5\right)}{s^4 \left(C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 C_5 R_5 + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.212 INVALID-ORDER-212 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_5 s^4 - R_5 + s^3 \left(C_3 L_3 L_5 R_5 g_m - C_3 L_3 L_5\right) + s^2 \left(-C_3 L_3 R_5 - C_5 L_5 R_5\right) + s \left(L_5 R_5 g_m - L_5\right)}{C_1 C_3 C_5 L_3 L_5 R_5 s^5 + 2 R_5 g_m + s^4 \left(C_1 C_3 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_5 + C_1 C_3 L_5 R_5 + C_1 C_5 L_5 R_5 + C_3 C_5 L_5 R_5 + 2 C_3 L_3 L_5 g_m\right) + s^2 \left(C_1 L_5 + 2 C_3 L_3 R_5 g_m + C_3 L_5 R_5 g_m + C_3 L_5 + 2 C_5 L_5 R_5 g_m\right) + s \left(C_1 R_5 + C_3 R_5 + 2 L_5 g_m\right)}$$

10.213 INVALID-ORDER-213 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{C_3 L_3 L_5 g_m s^3 + L_5 g_m s + R_5 g_m + s^4 \left(C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_5 g_m - C_3 L_3 + C_5 L_5 R_5 g_m - C_5 L_5\right) - 1}{C_1 C_3 C_5 L_3 L_5 s^5 + 2 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_5 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + C_1 C_3 L_5 + C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_5 + 2 C_3 L_3 g_m + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + C_3 R_5 g_m + C_3\right)}$$

10.214 INVALID-ORDER-214 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_5 s^3 - C_5 R_5 s + R_5 g_m + s^4 \left(C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_5 g_m - C_3 L_3 + C_5 L_5 R_5 g_m - C_5 L_5\right) - 1}{C_1 C_3 C_5 L_3 L_5 s^5 + 2 g_m + s^4 \left(C_1 C_3 C_5 L_3 R_5 + C_1 C_3 C_5 L_5 R_5 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_5 + 2 C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_5 + C_1 C_5 R_5 + C_3 C_5 R_5 + 2 C_3 L_3 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right)}$$

10.215 INVALID-ORDER-215 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s \left(L_3 R_5 g_m - L_3\right)}{C_1 C_3 L_3 R_5 s^3 + R_5 g_m + s^2 \left(C_1 L_3 + C_3 L_3 R_5 g_m + C_3 L_3\right) + s \left(C_1 R_5 + 2 L_3 g_m\right) + 1}$$

10.216 INVALID-ORDER-216 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 s^2 + L_3 g_m s}{g_m + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_3 + C_3 C_5 L_3\right) + s^2 \left(C_3 L_3 g_m + 2 C_5 L_3 g_m\right) + s \left(C_1 + C_5\right)}$$

10.217 INVALID-ORDER-217 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 R_5 s^2 + s \left(L_3 R_5 g_m - L_3\right)}{R_5 g_m + s^3 \left(C_1 C_3 L_3 R_5 + C_1 C_5 L_3 R_5 + C_3 C_5 L_3 R_5\right) + s^2 \left(C_1 L_3 + C_3 L_3 R_5 g_m + C_3 L_3 + 2 C_5 L_3 R_5 g_m\right) + s \left(C_1 R_5 + C_5 R_5 + 2 L_3 g_m\right) + 1}$$

10.218 INVALID-ORDER-218 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_3 g_m s + s^2 \left(C_5 L_3 R_5 g_m - C_5 L_3\right)}{C_1 C_3 C_5 L_3 R_5 s^4 + g_m + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_3 + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_5 + C_3 L_3 g_m + 2 C_5 L_3 g_m\right) + s \left(C_1 + C_5 R_5 g_m + C_5\right)}$$

10.219 INVALID-ORDER-219 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_3 L_5 g_m s^3 - C_5 L_3 s^2 + L_3 g_m s}{C_1 C_3 C_5 L_3 L_5 s^5 + C_3 C_5 L_3 L_5 g_m s^4 + g_m + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_3 + C_1 C_5 L_5 + C_3 C_5 L_3\right) + s^2 \left(C_3 L_3 g_m + 2 C_5 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_1 + C_5\right)}$$

10.220 INVALID-ORDER-220 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 L_5 s^3 + L_3 L_5 g_m s^2 - L_3 s}{s^4 \left(C_1 C_3 L_3 L_5 + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 L_3 L_5 g_m + 2 C_5 L_3 L_5 g_m\right) + s^2 \left(C_1 L_3 + C_1 L_5 + C_3 L_3 + C_5 L_5\right) + s \left(2 L_3 g_m + L_5 g_m\right) + 1}$$

10.221 INVALID-ORDER-221 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_3 L_5 g_m s^3 + L_3 g_m s + s^2 \left(C_5 L_3 R_5 g_m - C_5 L_3\right)}{C_1 C_3 C_5 L_3 L_5 s^5 + g_m + s^4 \left(C_1 C_3 C_5 L_3 R_5 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_3 + C_1 C_5 L_5 + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_5 + C_3 L_3 g_m + 2 C_5 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_1 + C_5 R_5 g_m + C_5\right)}$$

10.222 INVALID-ORDER-222 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 L_5 R_5 s^3 - L_3 R_5 s + s^2 \left(L_3 L_5 R_5 g_m - L_3 L_5\right)}{R_5 + s^4 \left(C_1 C_3 L_3 L_5 R_5 + C_1 C_5 L_3 L_5 R_5 + C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(C_1 L_3 L_5 + C_3 L_3 L_5 R_5 g_m + C_3 L_3 L_5 + 2 C_5 L_3 L_5 R_5 g_m\right) + s^2 \left(C_1 L_3 R_5 + C_1 L_5 R_5 + C_3 L_3 R_5 + C_5 L_5 R_5 + 2 L_3 L_5 g_m\right) + s \left(2 L_3 R_5 g_m + L_5 R_5 g_m + L_5\right)}$$

10.223 INVALID-ORDER-223 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_3 L_5 g_m s^2 + s^3 \left(C_5 L_3 L_5 R_5 g_m - C_5 L_3 L_5\right) + s \left(L_3 R_5 g_m - L_3\right)}{C_1 C_3 C_5 L_3 L_5 R_5 s^5 + R_5 g_m + s^4 \left(C_1 C_3 L_3 L_5 + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_5 + C_1 C_5 L_5 R_5 + C_3 L_3 L_5 g_m + 2 C_5 L_3 L_5 g_m\right) + s^2 \left(C_1 L_3 + C_1 L_5 + C_3 L_3 R_5 g_m + C_3 L_3 + C_5 L_5 R_5 g_m + C_5 L_5\right) + s \left(C_1 R_5 + 2 L_3 g_m + L_5 g_m\right) + 1}$$

10.224 INVALID-ORDER-224 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 R_5 s^2 + s^3 \left(C_5 L_3 L_5 R_5 g_m - C_5 L_3 L_5\right) + s \left(L_3 R_5 g_m - L_3\right)}{C_1 C_3 C_5 L_3 L_5 R_5 s^5 + R_5 g_m + s^4 \left(C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_5 + C_1 C_5 L_3 R_5 + C_1 C_5 L_5 R_5 + C_3 C_5 L_3 R_5 + 2 C_5 L_3 L_5 g_m\right) + s^2 \left(C_1 L_3 + C_3 L_3 R_5 g_m + C_3 L_3 + 2 C_5 L_3 R_5 g_m + C_5 L_5 R_5 g_m + C_5 L_5\right) + s \left(C_1 R_5 + C_5 R_5 + 2 L_3 g_m\right) + 1}$$

10.225 INVALID-ORDER-225 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_3 L_3 R_5 g_m - C_3 L_3\right) + s \left(C_3 R_3 R_5 g_m - C_3 R_3\right) - 1}{C_1 C_3 L_3 s^3 + 2 g_m + s^2 \left(C_1 C_3 R_3 + C_1 C_3 R_5 + 2 C_3 L_3 g_m\right) + s \left(C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3\right)}$$

10.226 INVALID-ORDER-226 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 s^3 + g_m + s^2 \left(-C_3 C_5 R_3 + C_3 L_3 g_m\right) + s \left(C_3 R_3 g_m - C_5\right)}{C_1 C_3 C_5 L_3 s^4 + s^3 \left(C_1 C_3 C_5 R_3 + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.227 INVALID-ORDER-227 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_5 s^3 + R_5 g_m + s^2 \left(-C_3 C_5 R_3 R_5 + C_3 L_3 R_5 g_m - C_3 L_3\right) + s \left(C_3 R_3 R_5 g_m - C_3 R_3 - C_5 R_5\right) - 1}{C_1 C_3 C_5 L_3 R_5 s^4 + 2 g_m + s^3 \left(C_1 C_3 C_5 R_3 R_5 + C_1 C_3 L_3 + 2 C_3 C_5 L_3 R_5 g_m\right) + s^2 \left(C_1 C_3 R_3 + C_1 C_3 R_5 + C_1 C_5 R_5 + 2 C_3 C_5 R_3 R_5 g_m + C_3 C_5 R_5 + 2 C_3 L_3 g_m\right) + s \left(C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right)}$$

10.228 INVALID-ORDER-228 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^3 \left(C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3\right) + s^2 \left(C_3 C_5 R_3 R_5 g_m - C_3 C_5 R_3 + C_3 L_3 g_m\right) + s \left(C_3 R_3 g_m + C_5 R_5 g_m - C_5\right)}{C_1 C_3 C_5 L_3 s^4 + s^3 \left(C_1 C_3 C_5 R_3 + C_1 C_3 C_5 R_5 + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.229 INVALID-ORDER-229 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 g_m s^4 + g_m + s^3 \left(-C_3 C_5 L_3 + C_3 C_5 L_5 R_3 g_m\right) + s^2 \left(-C_3 C_5 R_3 + C_3 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_3 R_3 g_m - C_5\right)}{s^4 \left(C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 C_5 R_3 + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.230 INVALID-ORDER-230 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 s^4 + s^3 \left(-C_3 C_5 L_5 R_3 + C_3 L_3 L_5 g_m\right) + s^2 \left(-C_3 L_3 + C_3 L_5 R_3 g_m - C_5 L_5\right) + s \left(-C_3 R_3 + L_5 g_m\right) - 1}{C_1 C_3 C_5 L_3 L_5 s^5 + 2 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_3 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + C_1 C_3 L_5 + C_1 C_5 L_5 + 2 C_3 C_5 L_5 R_3 g_m + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_3 + 2 C_3 L_3 g_m + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + 2 C_3 R_3 g_m + C_3\right)}$$

10.231 INVALID-ORDER-231 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 g_m s^4 + g_m + s^3 \left(C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3 + C_3 C_5 L_5 R_3 g_m\right) + s^2 \left(C_3 C_5 R_3 R_5 g_m - C_3 C_5 R_3 + C_3 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_3 R_3 g_m + C_5 R_5 g_m - C_5\right)}{s^4 \left(C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 C_5 R_3 + C_1 C_3 C_5 R_5 + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.232 INVALID-ORDER-232 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_5 s^4 - R_5 + s^3 \left(-C_3 C_5 L_5 R_3 R_5 + C_3 L_3 L_5 R_5 g_m - C_3 L_3 L_5\right) + s^2 \left(-C_3 L_3 R_5 + C_3 L_5 R_3 R_5 g_m - C_3 L_5 R_3 - C_5 L_5 R_5\right) + s \left(-C_3 R_3 R_5 + L_5 R_5 g_m - L_5\right)}{C_1 C_3 C_5 L_3 L_5 R_5 s^5 + 2 R_5 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_3 R_5 + C_1 C_3 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_5 + C_1 C_3 L_5 R_3 + C_1 C_3 L_5 R_5 + C_1 C_5 L_5 R_5 + 2 C_3 C_5 L_5 R_3 R_5 g_m + C_3 C_5 L_5 R_5 + 2 C_3 L_3 L_5 g_m\right) + s^2 \left(C_1 C_3 R_3 R_5 + C_1 L_5 + 2 C_3 L_3 R_5 g_m + 2 C_3 L_5 R_3 g_m + C_3 L_5 R_5 g_m\right.$$

10.233 INVALID-ORDER-233 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 C_5 L_5 R_3 R_5 g_m - C_3 C_5 L_5 R_3 + C_3 L_3 L_5 g_m\right) + s^2 \left(C_3 L_3 R_5 g_m - C_3 L_3 + C_3 L_5 R_3 g_m + C_5 L_5 R_5 g_m - C_5 L_5\right) + s \left(C_3 R_3 R_5 g_m - C_3 R_3 + L_5 g_m\right) - 1}{C_1 C_3 C_5 L_3 L_5 s^5 + 2 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_3 + C_1 C_3 C_5 L_5 R_5 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + C_1 C_3 L_5 + C_1 C_5 L_5 + 2 C_3 C_5 L_5 R_3 g_m + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_3 + C_1 C_3 R_5 + 2 C_3 L_3 g_m + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3\right)}$$

10.234 INVALID-ORDER-234 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(-C_3 C_5 L_3 R_5 + C_3 C_5 L_5 R_3 R_5 g_m - C_3 C_5 L_5 R_3\right) + s^2 \left(-C_3 C_5 R_3 R_5 + C_3 L_3 R_5 g_m - C_3 L_3 + C_5 L_5 R_5 g_m - C_5 L_5\right) + s \left(C_3 R_3 R_5 g_m - C_3 R_3 - C_5\right.$$

$$H(s) = \frac{}{C_1 C_3 C_5 L_3 L_5 s^5 + 2 g_m + s^4 \left(C_1 C_3 C_5 L_3 R_5 + C_1 C_3 C_5 L_5 R_3 + C_1 C_3 C_5 L_5 R_5 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 C_5 R_3 R_5 + C_1 C_3 L_3 + C_1 C_5 L_5 + 2 C_3 C_5 L_3 R_5 g_m + 2 C_3 C_5 L_5 R_3 g_m + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_3 + C_1 C_3 R_5 + C_1 C_5 R_5 + 2 C_3 C_5 R_3 R_5 g_m + C_3 C_5$$

10.235 INVALID-ORDER-235 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s \left(L_3 R_3 R_5 g_m - L_3 R_3\right)}{C_1 C_3 L_3 R_3 R_5 s^3 + R_3 R_5 g_m + R_3 + s^2 \left(C_1 L_3 R_3 + C_1 L_3 R_5 + C_3 L_3 R_3 R_5 g_m + C_3 L_3 R_3\right) + s \left(C_1 R_3 R_5 + 2 L_3 R_3 g_m + L_3 R_5 g_m + L_3\right)}$$

10.236 INVALID-ORDER-236 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 R_3 s^2 + L_3 R_3 g_m s}{R_3 g_m + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_5 L_3 R_3 + C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 L_3 + C_3 L_3 R_3 g_m + 2 C_5 L_3 R_3 g_m + C_5 L_3\right) + s \left(C_1 R_3 + C_5 R_3 + L_3 g_m\right)}$$

10.237 INVALID-ORDER-237 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 R_3 R_5 s^2 + s\left(L_3 R_3 R_5 g_m - L_3 R_3\right)}{R_3 R_5 g_m + R_3 + s^3\left(C_1 C_3 L_3 R_3 R_5 + C_1 C_5 L_3 R_3 R_5 + C_3 C_5 L_3 R_3 R_5\right) + s^2\left(C_1 L_3 R_3 + C_1 L_3 R_5 + C_3 L_3 R_3 R_5 g_m + C_3 L_3 R_3 + 2 C_5 L_3 R_3 R_5 g_m + C_5 L_3 R_5\right) + s\left(C_1 R_3 R_5 + C_5 R_3 R_5 + 2 L_3 R_3 g_m + L_3 R_5 g_m + L_3\right)}$$

10.238 INVALID-ORDER-238 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_3 R_3 g_m s + s^2\left(C_5 L_3 R_3 R_5 g_m - C_5 L_3 R_3\right)}{C_1 C_3 C_5 L_3 R_3 R_5 s^4 + R_3 g_m + s^3\left(C_1 C_3 L_3 R_3 + C_1 C_5 L_3 R_3 + C_1 C_5 L_3 R_5 + C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_3\right) + s^2\left(C_1 C_5 R_3 R_5 + C_1 L_3 + C_3 L_3 R_3 g_m + 2 C_5 L_3 R_3 g_m + C_5 L_3 R_5 g_m + C_5 L_3\right) + s\left(C_1 R_3 + C_5 R_3 R_5 g_m + C_5 R_3 + L_3 g_m\right)}$$

10.239 INVALID-ORDER-239 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_3 L_5 R_3 g_m s^3 - C_5 L_3 R_3 s^2 + L_3 R_3 g_m s}{C_1 C_3 C_5 L_3 L_5 R_3 s^5 + R_3 g_m + s^4\left(C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3\left(C_1 C_3 L_3 R_3 + C_1 C_5 L_3 R_3 + C_1 C_5 L_5 R_3 + C_3 C_5 L_3 R_3 + C_5 L_3 L_5 g_m\right) + s^2\left(C_1 L_3 + C_3 L_3 R_3 g_m + 2 C_5 L_3 R_3 g_m + C_5 L_3 + C_5 L_5 R_3 g_m\right) + s\left(C_1 R_3 + C_5 R_3 + L_3 g_m\right)}$$

10.240 INVALID-ORDER-240 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 L_5 R_3 s^3 + L_3 L_5 R_3 g_m s^2 - L_3 R_3 s}{R_3 + s^4\left(C_1 C_3 L_3 L_5 R_3 + C_1 C_5 L_3 L_5 R_3 + C_3 C_5 L_3 L_5 R_3\right) + s^3\left(C_1 L_3 L_5 + C_3 L_3 L_5 R_3 g_m + 2 C_5 L_3 L_5 R_3 g_m + C_5 L_3 L_5\right) + s^2\left(C_1 L_3 R_3 + C_1 L_5 R_3 + C_3 L_3 R_3 + C_5 L_5 R_3 + L_3 L_5 g_m\right) + s\left(2 L_3 R_3 g_m + L_3 + L_5 R_3 g_m\right)}$$

10.241 INVALID-ORDER-241 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_3 L_5 R_3 g_m s^3 + L_3 R_3 g_m s + s^2\left(C_5 L_3 R_3 R_5 g_m - C_5 L_3 R_3\right)}{C_1 C_3 C_5 L_3 L_5 R_3 s^5 + R_3 g_m + s^4\left(C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3\left(C_1 C_3 L_3 R_3 + C_1 C_5 L_3 R_3 + C_1 C_5 L_3 R_5 + C_1 C_5 L_5 R_3 + C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_3 + C_5 L_3 L_5 g_m\right) + s^2\left(C_1 C_5 R_3 R_5 + C_1 L_3 + C_3 L_3 R_3 g_m + 2 C_5 L_3 R_3 g_m + C_5 L_3 R_5 g_m + C_5\right.$$

10.242 INVALID-ORDER-242 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 L_5 R_3 R_5 s^3 - L_3 R_3 R_5 s + s^2\left(L_3 L_5 R_3 R_5 g_m - L_3 L_5 R_3\right)}{R_3 R_5 + s^4\left(C_1 C_3 L_3 L_5 R_3 R_5 + C_1 C_5 L_3 L_5 R_3 R_5 + C_3 C_5 L_3 L_5 R_3 R_5\right) + s^3\left(C_1 L_3 L_5 R_3 + C_1 L_3 L_5 R_5 + C_3 L_3 L_5 R_3 R_5 g_m + C_3 L_3 L_5 R_3 + 2 C_5 L_3 L_5 R_3 R_5 g_m + C_5 L_3 L_5 R_5\right) + s^2\left(C_1 L_3 R_3 R_5 + C_1 L_5 R_3 R_5 + C_3 L_3 R_3 R_5 + C_5 L_5 R_3 R_5 + 2 L_3 L_5 R_3 g_m + L_3 L_5 R_5 g_m + L_3 L_5\right.$$

10.243 INVALID-ORDER-243 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_3 L_5 R_3 g_m s^2 + s^3\left(C_5 L_3 L_5 R_3 R_5 g_m - C_5 L_3 L_5 R_3\right) + s\left(L_3 R_3 R_5 g_m - L_3 R_3\right)}{C_1 C_3 C_5 L_3 L_5 R_3 R_5 s^5 + R_3 R_5 g_m + R_3 + s^4\left(C_1 C_3 L_3 L_5 R_3 + C_1 C_5 L_3 L_5 R_3 + C_1 C_5 L_3 L_5 R_5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_3 L_5 R_3\right) + s^3\left(C_1 C_3 L_3 R_3 R_5 + C_1 C_5 L_5 R_3 R_5 + C_1 L_3 L_5 + C_3 L_3 L_5 R_3 g_m + 2 C_5 L_3 L_5 R_3 g_m + C_5 L_3 L_5 R_5 g_m + C_5 L_3 L_5\right) + s^2\left(C_1 L_3 R_3 + C_1 L_3\right.$$

10.244 INVALID-ORDER-244 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_3 R_3 R_5 s^2 + s^3\left(C_5 L_3 L_5 R_3 R_5 g_m - C_5 L_3 L_5 R_3\right) + s\left(L_3 R_3 R_5 g_m - L_3 R_3\right)}{C_1 C_3 C_5 L_3 L_5 R_3 R_5 s^5 + R_3 R_5 g_m + R_3 + s^4\left(C_1 C_5 L_3 L_5 R_3 + C_1 C_5 L_3 L_5 R_5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_3 L_5 R_3\right) + s^3\left(C_1 C_3 L_3 R_3 R_5 + C_1 C_5 L_3 R_3 R_5 + C_1 C_5 L_5 R_3 R_5 + C_3 C_5 L_3 R_3 R_5 + 2 C_5 L_3 L_5 R_3 g_m + C_5 L_3 L_5 R_5 g_m + C_5 L_3 L_5\right) + s^2\left(C_1 L_3 R_3 + C_1 L_3 R_5 + C_3 L_3\right.$$

10.245 INVALID-ORDER-245 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^2\left(C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right) + s\left(L_3 R_5 g_m - L_3\right)}{2 R_3 g_m + R_5 g_m + s^3\left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5\right) + s^2\left(C_1 L_3 + 2 C_3 L_3 R_3 g_m + C_3 L_3 R_5 g_m + C_3 L_3\right) + s\left(C_1 R_3 + C_1 R_5 + 2 L_3 g_m\right) + 1}$$

10.246 INVALID-ORDER-246 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_3 s^3 + R_3 g_m + s^2 \left(C_3 L_3 R_3 g_m - C_5 L_3\right) + s \left(-C_5 R_3 + L_3 g_m\right)}{C_1 C_3 C_5 L_3 R_3 s^4 + g_m + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_3 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_3 + C_3 L_3 g_m + 2 C_5 L_3 g_m\right) + s \left(C_1 + 2 C_5 R_3 g_m + C_5\right)}$$

10.247 INVALID-ORDER-247 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_3 R_5 s^3 + R_3 R_5 g_m - R_3 + s^2 \left(C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3 - C_5 L_3 R_5\right) + s \left(-C_5 R_3 R_5 + L_3 R_5 g_m - L_3\right)}{C_1 C_3 C_5 L_3 R_3 R_5 s^4 + 2 R_3 g_m + R_5 g_m + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + C_1 C_5 L_3 R_5 + 2 C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_5\right) + s^2 \left(C_1 C_5 R_3 R_5 + C_1 L_3 + 2 C_3 L_3 R_3 g_m + C_3 L_3 R_5 g_m + C_3 L_3 + 2 C_5 L_3 R_5 g_m\right) + s \left(C_1 R_3 + C_1 R_5 + 2 C_5 R_3 R_5 g_m + C_5 R_5 + 2 L_3 g_m\right) + 1}$$

10.248 INVALID-ORDER-248 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^3 \left(C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(C_3 L_3 R_3 g_m + C_5 L_3 R_5 g_m - C_5 L_3\right) + s \left(C_5 R_3 R_5 g_m - C_5 R_3 + L_3 g_m\right)}{g_m + s^4 \left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5\right) + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_3 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_3 + C_1 C_5 R_5 + C_3 L_3 g_m + 2 C_5 L_3 g_m\right) + s \left(C_1 + 2 C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.249 INVALID-ORDER-249 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 g_m s^4 + R_3 g_m + s^3 \left(-C_3 C_5 L_3 R_3 + C_5 L_3 L_5 g_m\right) + s^2 \left(C_3 L_3 R_3 g_m - C_5 L_3 + C_5 L_5 R_3 g_m\right) + s \left(-C_5 R_3 + L_3 g_m\right)}{C_1 C_3 C_5 L_3 L_5 s^5 + g_m + s^4 \left(C_1 C_3 C_5 L_3 R_3 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_3 + C_1 C_5 L_5 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_3 + C_3 L_3 g_m + 2 C_5 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_1 + 2 C_5 R_3 g_m + C_5\right)}$$

10.250 INVALID-ORDER-250 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_3 s^4 - R_3 + s^3 \left(C_3 L_3 L_5 R_3 g_m - C_5 L_3 L_5\right) + s^2 \left(-C_3 L_3 R_3 - C_5 L_5 R_3 + L_3 L_5 g_m\right) + s \left(-L_3 + L_5 R_3 g_m\right)}{C_1 C_3 C_5 L_3 L_5 R_3 s^5 + 2 R_3 g_m + s^4 \left(C_1 C_3 L_3 L_5 + C_1 C_5 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_5 L_5 R_3 + C_3 L_3 L_5 g_m + 2 C_5 L_3 L_5 g_m\right) + s^2 \left(C_1 L_3 + C_1 L_5 + 2 C_3 L_3 R_3 g_m + C_3 L_3 + 2 C_5 L_5 R_3 g_m + C_5 L_5\right) + s \left(C_1 R_3 + 2 L_3 g_m + L_5 g_m\right) + 1}$$

10.251 INVALID-ORDER-251 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 g_m s^4 + R_3 g_m + s^3 \left(C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3 + C_5 L_3 L_5 g_m\right) + s^2 \left(C_3 L_3 R_3 g_m + C_5 L_3 R_5 g_m - C_5 L_3 + C_5 L_5 R_3 g_m\right) + s \left(C_5 R_3 R_5 g_m - C_5 R_3 + L_3 g_m\right)}{C_1 C_3 C_5 L_3 L_5 s^5 + g_m + s^4 \left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + C_1 C_5 L_3 + C_1 C_5 L_5 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_3 + C_1 C_5 R_5 + C_3 L_3 g_m + 2 C_5 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_1 + 2 C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.252 INVALID-ORDER-252 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_3 R_5 s^4 - R_3 R_5 + s^3 \left(C_3 L_3 L_5 R_3 R_5 g_m - C_3 L_3 L_5 R_3 - C_5 L_3 L_5 R_5\right) + s^2 \left(-C_3 L_3 R_3 R_5 - C_5 L_5 R_3 R_5 + L_3 L_5 R_5 g_m - L_3 L_5\right) + s \left(-L}{C_1 C_3 C_5 L_3 L_5 R_3 R_5 s^5 + 2 R_3 R_5 g_m + R_5 + s^4 \left(C_1 C_3 L_3 L_5 R_3 + C_1 C_3 L_3 L_5 R_5 + C_1 C_5 L_3 L_5 R_5 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(C_1 C_3 L_3 R_3 R_5 + C_1 C_5 L_5 R_3 R_5 + C_1 L_3 L_5 + 2 C_3 L_3 L_5 R_3 g_m + C_3 L_3 L_5 R_5 g_m + C_3 L_3 L_5 + 2 C_5 L_3 L_5 R_5 g_m\right) + s^2 \left(C_1 L_3 R_5 + C}$$

10.253 INVALID-ORDER-253 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^4 \left(C_3 C_5 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(C_3 L_3 L_5 R_3 g_m + C_5 L_3 L_5 R_5 g_m - C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3 + C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3 + L_3 L_5 g_m\right) + s \left(}{2 R_3 g_m + R_5 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_3 L_5 + C_1 C_5 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_3 L_3 L_5 g_m + 2 C_5 L_3 L_5 g_m\right) + s^2 \left(C_1 L_3 + C_1 L_5 + 2 C_3 L_3 R_3}$$

10.254 INVALID-ORDER-254 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^4 \left(C_3 C_5 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(-C_3 C_5 L_3 R_3 R_5 + C_5 L_3 L_5 R_5 g_m - C_5 L_3 L_5\right) + s^2 \left(C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3 - C_5 L}{2 R_3 g_m + R_5 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_5 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + C_1 C_5 L_3 R_5 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + 2 C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_5 + 2 C_5}$$

10.255 INVALID-ORDER-255 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^2\left(C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right)}{2R_3 g_m + R_5 g_m + s^3\left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5\right) + s^2\left(C_1 C_3 R_3 R_5 + 2C_3 L_3 R_3 g_m + C_3 L_3 R_5 g_m + C_3 L_3\right) + s\left(C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3\right) + 1}$$

10.256 INVALID-ORDER-256 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_3 s^3 + C_3 L_3 R_3 g_m s^2 - C_5 R_3 s + R_3 g_m}{C_1 C_3 C_5 L_3 R_3 s^4 + g_m + s^3\left(C_1 C_3 L_3 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) + s^2\left(C_1 C_3 R_3 + C_1 C_5 R_3 + C_3 C_5 R_3 + C_3 L_3 g_m\right) + s\left(C_1 + C_3 R_3 g_m + 2C_5 R_3 g_m + C_5\right)}$$

10.257 INVALID-ORDER-257 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_3 R_5 s^3 - C_5 R_3 R_5 s + R_3 R_5 g_m - R_3 + s^2\left(C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right)}{C_1 C_3 C_5 L_3 R_3 R_5 s^4 + 2R_3 g_m + R_5 g_m + s^3\left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + 2C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_5\right) + s^2\left(C_1 C_3 R_3 R_5 + C_1 C_5 R_3 R_5 + C_3 C_5 R_3 R_5 + 2C_3 L_3 R_3 g_m + C_3 L_3 R_5 g_m + C_3 L_3\right) + s\left(C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3 + 2C_5 R_3 R_5 g_m + C_5 R_5\right) + 1}$$

10.258 INVALID-ORDER-258 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 L_3 R_3 g_m s^2 + R_3 g_m + s^3\left(C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right) + s\left(C_5 R_3 R_5 g_m - C_5 R_3\right)}{g_m + s^4\left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5\right) + s^3\left(C_1 C_3 C_5 R_3 R_5 + C_1 C_3 L_3 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2\left(C_1 C_3 R_3 + C_1 C_5 R_3 + C_1 C_5 R_5 + C_3 C_5 R_3 R_5 g_m + C_3 C_5 R_3 + C_3 L_3 g_m\right) + s\left(C_1 + C_3 R_3 g_m + 2C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.259 INVALID-ORDER-259 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 g_m s^4 - C_3 C_5 L_3 R_3 s^3 - C_5 R_3 s + R_3 g_m + s^2\left(C_3 L_3 R_3 g_m + C_5 L_5 R_3 g_m\right)}{C_1 C_3 C_5 L_3 L_5 s^5 + g_m + s^4\left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_5 R_3 + C_3 C_5 L_3 L_5 g_m\right) + s^3\left(C_1 C_3 L_3 + C_1 C_5 L_5 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3 + C_3 C_5 L_5 R_3 g_m\right) + s^2\left(C_1 C_3 R_3 + C_1 C_5 R_3 + C_3 C_5 R_3 + C_3 L_3 g_m + C_5 L_5 g_m\right) + s\left(C_1 + C_3 R_3 g_m + 2C_5 R_3 g_m + C_5\right)}$$

10.260 INVALID-ORDER-260 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_3 s^4 + C_3 L_3 L_5 R_3 g_m s^3 + L_5 R_3 g_m s - R_3 + s^2\left(-C_3 L_3 R_3 - C_5 L_5 R_3\right)}{C_1 C_3 C_5 L_3 L_5 R_3 s^5 + 2R_3 g_m + s^4\left(C_1 C_3 L_3 L_5 + 2C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3\left(C_1 C_3 L_3 R_3 + C_1 C_3 L_5 R_3 + C_1 C_5 L_5 R_3 + C_3 C_5 L_5 R_3 + C_3 L_3 L_5 g_m\right) + s^2\left(C_1 L_5 + 2C_3 L_3 R_3 g_m + C_3 L_3 + C_3 L_5 R_3 g_m + 2C_5 L_5 R_3 g_m + C_5 L_5\right) + s\left(C_1 R_3 + C_3 R_3 + L_5 g_m\right) + 1}$$

10.261 INVALID-ORDER-261 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 g_m s^4 + R_3 g_m + s^3\left(C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right) + s^2\left(C_3 L_3 R_3 g_m + C_5 L_5 R_3 g_m\right) + s\left(C_5 R_3 R_5 g_m - C_5 R_3\right)}{C_1 C_3 C_5 L_3 L_5 s^5 + g_m + s^4\left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 C_5 L_5 R_3 + C_3 C_5 L_3 L_5 g_m\right) + s^3\left(C_1 C_3 C_5 R_3 R_5 + C_1 C_3 L_3 + C_1 C_5 L_5 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3 + C_3 C_5 L_5 R_3 g_m\right) + s^2\left(C_1 C_3 R_3 + C_1 C_5 R_3 + C_1 C_5 R_5 + C_3 C_5 R_3 R_5 g_m + C_3 C_5 R_3 + \right.$$

10.262 INVALID-ORDER-262 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 L_5 R_3 R_5 s^4 - R_3 R_5 + s^3\left(C_3 L_3 L_5 R_3 R_5 g_m - C_3 L_3 L_5 R_3\right) + s^2\left(-C_3 L_3 R_3 R_5 - C_5 L_5 R_3 R_5\right) + s\left(L_5 R_3 R_5 g_m - L_5 R_3\right)}{C_1 C_3 C_5 L_3 L_5 R_3 R_5 s^5 + 2R_3 R_5 g_m + R_5 + s^4\left(C_1 C_3 L_3 L_5 R_3 + C_1 C_3 L_3 L_5 R_5 + 2C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_3 L_5 R_5\right) + s^3\left(C_1 C_3 L_3 R_3 R_5 + C_1 C_3 L_5 R_3 R_5 + C_1 C_5 L_5 R_3 R_5 + C_3 C_5 L_5 R_3 R_5 + 2C_3 L_3 L_5 R_3 g_m + C_3 L_3 L_5 R_5 g_m + C_3 L_3 L_5\right) + s^2\left(C_1 L_5 R_3 + C_1 L_5 R_5 + 2C\right.$$

10.263 INVALID-ORDER-263 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_3 L_3 L_5 R_3 g_m s^3 + L_5 R_3 g_m s + R_3 R_5 g_m - R_3 + s^4\left(C_3 C_5 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_3 L_5 R_3\right) + s^2\left(C_3 L_3 R_3 R_5 g_m - C_3 L_3\right.$$
$$2R_3 g_m + R_5 g_m + s^5\left(C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4\left(C_1 C_3 C_5 L_5 R_3 R_5 + C_1 C_3 L_3 L_5 + 2C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3\left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + C_1 C_3 L_5 R_3 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_3 C_5 L_5 R_3 R_5 g_m + C_3 C_5 L_5 R_3 + C_3 L_3\right.$$

10.264 INVALID-ORDER-264 $Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_3 R_3 R_5 s^3 - C_5 R_3 R_5 s + R_3 R_5 g_m - R_3 + s^4 \left(C_3 C_5 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_3 L_5 R_3\right) + s^2 \left(C_3 L_3 \right.}{2R_3 g_m + R_5 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_3 C_5 L_5 R_3 R_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + 2 C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_5 + C_3 C_5 L_5 R_3 R$$

10.265 INVALID-ORDER-265 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1 R_3 R_5 g_m - R_1 R_3}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s\left(C_1 R_1 R_3 + C_1 R_1 R_5\right)}$$

10.266 INVALID-ORDER-266 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ R_3,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_1 R_3 g_m s^2 - C_5 R_1 R_3 s + R_1 R_3 g_m}{C_1 C_5 L_5 R_1 s^3 + R_1 g_m + s^2\left(C_1 C_5 R_1 R_3 + C_5 L_5 R_1 g_m + C_5 L_5\right) + s\left(C_1 R_1 + 2 C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3\right) + 1}$$

10.267 INVALID-ORDER-267 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ R_3,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_1 R_3 s^2 + L_5 R_1 R_3 g_m s - R_1 R_3}{C_1 C_5 L_5 R_1 R_3 s^3 + 2R_1 R_3 g_m + R_1 + R_3 + s^2\left(C_1 L_5 R_1 + 2 C_5 L_5 R_1 R_3 g_m + C_5 L_5 R_1 + C_5 L_5 R_3\right) + s\left(C_1 R_1 R_3 + L_5 R_1 g_m + L_5\right)}$$

10.268 INVALID-ORDER-268 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ R_3,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_5 R_1 R_3 g_m s^2 + R_1 R_3 g_m + s\left(C_5 R_1 R_3 R_5 g_m - C_5 R_1 R_3\right)}{C_1 C_5 L_5 R_1 s^3 + R_1 g_m + s^2\left(C_1 C_5 R_1 R_3 + C_1 C_5 R_1 R_5 + C_5 L_5 R_1 g_m + C_5 L_5\right) + s\left(C_1 R_1 + 2 C_5 R_1 R_3 g_m + C_5 R_1 R_5 g_m + C_5 R_1 + C_5 R_3 + C_5 R_5\right) + 1}$$

10.269 INVALID-ORDER-269 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ R_3,\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_5 R_1 R_3 R_5 s^2 - R_1 R_3 R_5 + s\left(L_5 R_1 R_3 R_5 g_m - L_5 R_1 R_3\right)}{C_1 C_5 L_5 R_1 R_3 R_5 s^3 + 2R_1 R_3 R_5 g_m + R_1 R_5 + R_3 R_5 + s^2\left(C_1 L_5 R_1 R_3 + C_1 L_5 R_1 R_5 + 2 C_5 L_5 R_1 R_3 R_5 g_m + C_5 L_5 R_1 R_5 + C_5 L_5 R_3 R_5\right) + s\left(C_1 R_1 R_3 R_5 + 2 L_5 R_1 R_3 g_m + L_5 R_1 R_5 g_m + L_5 R_1 + L_5 R_3 + L_5 R_5\right)}$$

10.270 INVALID-ORDER-270 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ R_3,\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_5 R_1 R_3 g_m s + R_1 R_3 R_5 g_m - R_1 R_3 + s^2\left(C_5 L_5 R_1 R_3 R_5 g_m - C_5 L_5 R_1 R_3\right)}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^3\left(C_1 C_5 L_5 R_1 R_3 + C_1 C_5 L_5 R_1 R_5\right) + s^2\left(C_1 L_5 R_1 + 2 C_5 L_5 R_1 R_3 g_m + C_5 L_5 R_1 R_5 g_m + C_5 L_5 R_1 + C_5 L_5 R_3 + C_5 L_5 R_5\right) + s\left(C_1 R_1 R_3 + C_1 R_1 R_5 + L_5 R_1 g_m + L_5\right)}$$

10.271 INVALID-ORDER-271 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_3 R_5 s + R_1 R_3 R_5 g_m - R_1 R_3 + s^2\left(C_5 L_5 R_1 R_3 R_5 g_m - C_5 L_5 R_1 R_3\right)}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^3\left(C_1 C_5 L_5 R_1 R_3 + C_1 C_5 L_5 R_1 R_5\right) + s^2\left(C_1 C_5 R_1 R_3 R_5 + 2 C_5 L_5 R_1 R_3 g_m + C_5 L_5 R_1 R_5 g_m + C_5 L_5 R_1 + C_5 L_5 R_3 + C_5 L_5 R_5\right) + s\left(C_1 R_1 R_3 + C_1 R_1 R_5 + 2 C_5 R_1 R_3 R_5 g_m + C_5 R_1 R_5 + C_5 R_3 R_5\right)}$$

10.272 INVALID-ORDER-272 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 R_1 s + R_1 g_m}{s^2\left(C_1 C_3 R_1 + C_1 C_5 R_1 + C_3 C_5 R_1\right) + s\left(C_3 R_1 g_m + C_3 + 2 C_5 R_1 g_m + C_5\right)}$$

10.273 INVALID-ORDER-273 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1g_m + s\left(C_5R_1R_5g_m - C_5R_1\right)}{C_1C_3C_5R_1R_5s^3 + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.274 INVALID-ORDER-274 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_5R_1g_ms^2 - C_5R_1s + R_1g_m}{C_1C_3C_5L_5R_1s^4 + s^3\left(C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.275 INVALID-ORDER-275 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_5R_1s^2 + L_5R_1g_ms - R_1}{2R_1g_m + s^3\left(C_1C_3L_5R_1 + C_1C_5L_5R_1 + C_3C_5L_5R_1\right) + s^2\left(C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + C_3R_1\right) + 1}$$

10.276 INVALID-ORDER-276 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_5R_1g_ms^2 + R_1g_m + s\left(C_5R_1R_5g_m - C_5R_1\right)}{C_1C_3C_5L_5R_1s^4 + s^3\left(C_1C_3C_5R_1R_5 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.277 INVALID-ORDER-277 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_5s^2 - R_1R_5 + s\left(L_5R_1R_5g_m - L_5R_1\right)}{2R_1R_5g_m + R_5 + s^3\left(C_1C_3L_5R_1R_5 + C_1C_5L_5R_1R_5 + C_3C_5L_5R_1R_5\right) + s^2\left(C_1L_5R_1 + C_3L_5R_1R_5g_m + C_3L_5R_1 + C_3L_5R_5 + 2C_5L_5R_1R_5g_m + C_5L_5R_5\right) + s\left(C_1R_1R_5 + C_3R_1R_5 + 2L_5R_1g_m + L_5\right)}$$

10.278 INVALID-ORDER-278 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{L_5R_1g_ms + R_1R_5g_m - R_1 + s^2\left(C_5L_5R_1R_5g_m - C_5L_5R_1\right)}{C_1C_3C_5L_5R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_3L_5R_1 + C_1C_5L_5R_1 + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1 + C_3C_5L_5R_5\right) + s^2\left(C_1C_3R_1R_5 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + C_3R_1R_5g_m + C_3R_1 + C_3R_5\right) + 1}$$

10.279 INVALID-ORDER-279 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5R_1R_5s + R_1R_5g_m - R_1 + s^2\left(C_5L_5R_1R_5g_m - C_5L_5R_1\right)}{C_1C_3C_5L_5R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_5L_5R_1 + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1 + C_3C_5L_5R_5\right) + s^2\left(C_1C_3R_1R_5 + C_1C_5R_1R_5 + C_3C_5R_1R_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + C_3R_1R_5g_m + C_3R_1 + C_3R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.280 INVALID-ORDER-280 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1R_3g_m + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{C_1C_3C_5R_1R_3R_5s^3 + R_1g_m + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_1C_5R_1R_5 + C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_3 + C_3C_5R_3R_5\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1R_5g_m + C_5R_1 + C_5R_3 + C_5R_5\right) + 1}$$

10.281 INVALID-ORDER-281 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_5R_1R_3g_ms^2 - C_5R_1R_3s + R_1R_3g_m}{C_1C_3C_5L_5R_1R_3s^4 + R_1g_m + s^3\left(C_1C_5L_5R_1 + C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_3\right) + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_3C_5R_1R_3 + C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.282 INVALID-ORDER-282 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_3s^2 + L_5R_1R_3g_ms - R_1R_3}{2R_1R_3g_m + R_1 + R_3 + s^3\left(C_1C_3L_5R_1R_3 + C_1C_5L_5R_1R_3 + C_3C_5L_5R_1R_3\right) + s^2\left(C_1L_5R_1 + C_3L_5R_1R_3g_m + C_3L_5R_3 + 2C_5L_5R_1R_3g_m + C_5L_5R_1 + C_5L_5R_3\right) + s\left(C_1R_1R_3 + C_3R_1R_3 + L_5R_1g_m + L_5\right)}$$

10.283 INVALID-ORDER-283 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_5R_1R_3g_ms^2 + R_1R_3g_m + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{C_1C_3C_5L_5R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_5L_5R_1 + C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_3\right) + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_1C_5R_1R_5 + C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_3 + C_3C_5R_3R_5 + C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m\right.$$

10.284 INVALID-ORDER-284 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_3R_5s^2 - R_1R_3R_5 + s\left(L_5R_1R_3R_5g_m - L_5R_1R_3\right)}{2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^3\left(C_1C_3L_5R_1R_3R_5 + C_1C_5L_5R_1R_3R_5 + C_3C_5L_5R_1R_3R_5\right) + s^2\left(C_1L_5R_1R_3 + C_1L_5R_1R_5 + C_3L_5R_1R_3R_5g_m + C_3L_5R_1R_3 + C_3L_5R_3R_5 + 2C_5L_5R_1R_3R_5g_m + C_5L_5R_1R_5 + C_5L_5R_3R_5\right) + s\left(C_1R_1R_3R_5 + C_3R_1R_3R_5 + 2L_5R_1R_3\right.$$

10.285 INVALID-ORDER-285 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{L_5R_1R_3g_ms + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_5L_5R_1R_3R_5g_m - C_5L_5R_1R_3\right)}{C_1C_3C_5L_5R_1R_3R_5s^4 + 2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_5R_1R_3 + C_1C_5L_5R_1R_3 + C_1C_5L_5R_1R_5 + C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_3 + C_3C_5L_5R_3R_5\right) + s^2\left(C_1C_3R_1R_3R_5 + C_1L_5R_1 + C_3L_5R_1R_3g_m + C_3L_5R_3 + 2C_5L_5R_1R_3g_m + C_5L_5R_1R_5\right.$$

10.286 INVALID-ORDER-286 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_5L_5R_1R_3R_5g_m - C_5L_5R_1R_3\right)}{C_1C_3C_5L_5R_1R_3R_5s^4 + 2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_5L_5R_1R_3 + C_1C_5L_5R_1R_5 + C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_3 + C_3C_5L_5R_3R_5\right) + s^2\left(C_1C_3R_1R_3R_5 + C_1C_5R_1R_3R_5 + C_3C_5R_1R_3R_5 + 2C_5L_5R_1R_3g_m + C_5L_5R_1R_5g_m + C_5L_5R_1 + C_5L_5\right.$$

10.287 INVALID-ORDER-287 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5R_1R_3s^2 + R_1g_m + s\left(C_3R_1R_3g_m - C_5R_1\right)}{C_1C_3C_5R_1R_3s^3 + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1 + C_3C_5R_3\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.288 INVALID-ORDER-288 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5R_1R_3R_5s^2 + R_1R_5g_m - R_1 + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3 - C_5R_1R_5\right)}{C_1C_3C_5R_1R_3R_5s^3 + 2R_1g_m + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_5 + C_1C_5R_1R_5 + 2C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_5 + C_3C_5R_3R_5\right) + s\left(C_1R_1 + 2C_3R_1R_3g_m + C_3R_1R_5g_m + C_3R_1 + C_3R_3 + C_3R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.289 INVALID-ORDER-289 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1g_m + s^2\left(C_3C_5R_1R_3R_5g_m - C_3C_5R_1R_3\right) + s\left(C_3R_1R_3g_m + C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_3 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.290 INVALID-ORDER-290 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_5R_1R_3g_ms^3 + R_1g_m + s^2\left(-C_3C_5R_1R_3 + C_5L_5R_1g_m\right) + s\left(C_3R_1R_3g_m - C_5R_1\right)}{C_1C_3C_5L_5R_1s^4 + s^3\left(C_1C_3C_5R_1R_3 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1 + C_3C_5R_3\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.291 INVALID-ORDER-291 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_5R_1R_3s^3 - R_1 + s^2\left(C_3L_5R_1R_3g_m - C_5L_5R_1\right) + s\left(-C_3R_1R_3 + L_5R_1g_m\right)}{C_1C_3C_5L_5R_1R_3s^4 + 2R_1g_m + s^3\left(C_1C_3L_5R_1 + C_1C_5L_5R_1 + 2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1 + C_3C_5L_5R_3\right) + s^2\left(C_1C_3R_1R_3 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_3R_1R_3g_m + C_3R_1 + C_3R_3\right) + 1}$$

10.292 INVALID-ORDER-292 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty \right)$

$$H(s) = \frac{C_3C_5L_5R_1R_3g_ms^3 + R_1g_m + s^2\left(C_3C_5R_1R_3R_5g_m - C_3C_5R_1R_3 + C_5L_5R_1g_m\right) + s\left(C_3R_1R_3g_m + C_5R_1R_5g_m - C_5R_1\right)}{C_1C_3C_5L_5R_1s^4 + s^3\left(C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_3 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.293 INVALID-ORDER-293 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty \right)$

$$H(s) = \frac{-C_3C_5L_5R_1R_3R_5s^3 - R_1R_5 + s^2\left(C_3L_5R_1R_3R_5g_m - C_3L_5R_1R_3 - C_5L_5R_1R_5\right) + s\left(-C_3R_1R_3R_5 + L_5R_1R_5g_m - L_5R_1\right)}{C_1C_3C_5L_5R_1R_3R_5s^4 + 2R_1R_5g_m + R_5 + s^3\left(C_1C_3L_5R_1R_3 + C_1C_3L_5R_1R_5 + C_1C_5L_5R_1R_5 + 2C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_5 + C_3C_5L_5R_3R_5\right) + s^2 (C_1C_3R_1R_3R_5 + C_1L_5R_1 + 2C_3L_5R_1R_3g_m + C_3L_5R_1R_5g_m + C_3L_5R_1 + C_3L_5R_3 + C_3L_5R_5 + 2C_5L_5R_1}$$

10.294 INVALID-ORDER-294 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty \right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^3\left(C_3C_5L_5R_1R_3R_5g_m - C_3C_5L_5R_1R_3\right) + s^2\left(C_3L_5R_1R_3g_m + C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3 + L_5R_1g_m\right)}{2R_1g_m + s^4\left(C_1C_3C_5L_5R_1R_3 + C_1C_3C_5L_5R_1R_5\right) + s^3\left(C_1C_3L_5R_1 + C_1C_5L_5R_1 + 2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1 + C_3C_5L_5R_3 + C_3C_5L_5R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_5 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s (C_1R_1 + 2C_3R_1}$$

10.295 INVALID-ORDER-295 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty \right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^3\left(C_3C_5L_5R_1R_3R_5g_m - C_3C_5L_5R_1R_3\right) + s^2\left(-C_3C_5R_1R_3R_5 + C_5L_5R_1R_5g_m - C_5L_5R_1\right) + s (C_3R_1R_3R_5g_m - C_3R_1R_3 - C_5R_1}{2R_1g_m + s^4\left(C_1C_3C_5L_5R_1R_3 + C_1C_3C_5L_5R_1R_5\right) + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_5L_5R_1 + 2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1 + C_3C_5L_5R_3 + C_3C_5L_5R_5\right) + s^2 (C_1C_3R_1R_3 + C_1C_3R_1R_5 + C_1C_5R_1R_5 + 2C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_5 + C_3C_5R_3R_5}$$

10.296 INVALID-ORDER-296 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + \frac{1}{C_3s},\ \infty,\ R_5,\ \infty \right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1\right)}{C_1C_3L_3R_1s^3 + 2R_1g_m + s^2\left(C_1C_3R_1R_5 + 2C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_3R_1R_5g_m + C_3R_1 + C_3R_5\right) + 1}$$

10.297 INVALID-ORDER-297 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + \frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty \right)$

$$H(s) = \frac{-C_3C_5L_3R_1s^3 + C_3L_3R_1g_ms^2 - C_5R_1s + R_1g_m}{C_1C_3C_5L_3R_1s^4 + s^3\left(2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.298 INVALID-ORDER-298 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + \frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty \right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_5s^3 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1\right)}{C_1C_3C_5L_3R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_3L_3R_1 + 2C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_5\right) + s^2\left(C_1C_3R_1R_5 + C_1C_5R_1R_5 + C_3C_5R_1R_5 + 2C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_3R_1R_5g_m + C_3R_1 + C_3R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.299 INVALID-ORDER-299 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty \right)$

$$H(s) = \frac{C_3L_3R_1g_ms^2 + R_1g_m + s^3\left(C_3C_5L_3R_1R_5g_m - C_3C_5L_3R_1\right) + s\left(C_5R_1R_5g_m - C_5R_1\right)}{C_1C_3C_5L_3R_1s^4 + s^3\left(C_1C_3C_5R_1R_5 + 2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.300 INVALID-ORDER-300 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty \right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1g_ms^4 - C_3C_5L_3R_1s^3 - C_5R_1s + R_1g_m + s^2\left(C_3L_3R_1g_m + C_5L_5R_1g_m\right)}{s^4\left(C_1C_3C_5L_3R_1 + C_1C_3C_5L_5R_1\right) + s^3\left(2C_3C_5L_3R_1g_m + C_3C_5L_3 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.301 INVALID-ORDER-301 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1s^4 + C_3L_3L_5R_1g_ms^3 + L_5R_1g_ms - R_1 + s^2\left(-C_3L_3R_1 - C_5L_5R_1\right)}{C_1C_3C_5L_3L_5R_1s^5 + 2R_1g_m + s^4\left(2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_3L_5R_1 + C_1C_5L_5R_1 + C_3C_5L_5R_1\right) + s^2\left(2C_3L_3R_1g_m + C_3L_3 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + C_3R_1\right) + 1}$$

10.302 INVALID-ORDER-302 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1g_ms^4 + R_1g_m + s^3\left(C_3C_5L_3R_1R_5g_m - C_3C_5L_3R_1\right) + s^2\left(C_3L_3R_1g_m + C_5L_5R_1g_m\right) + s\left(C_5R_1R_5g_m - C_5R_1\right)}{s^4\left(C_1C_3C_5L_3R_1 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3C_5R_1R_5 + 2C_3C_5L_3R_1g_m + C_3C_5L_3 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.303 INVALID-ORDER-303 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_5s^4 - R_1R_5 + s^3\left(C_3L_3L_5R_1R_5g_m - C_3L_3L_5R_1\right) + s^2\left(-C_3L_3R_1R_5 - C_5L_5R_1R_5\right) + s\left(L_5R_1R_5g_m - L_5R_1\right)}{C_1C_3C_5L_3L_5R_1R_5s^5 + 2R_1R_5g_m + R_5 + s^4\left(C_1C_3L_3L_5R_1 + 2C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_5\right) + s^3\left(C_1C_3L_3R_1R_5 + C_1C_3L_5R_1R_5 + C_1C_5L_5R_1R_5 + C_3C_5L_5R_1R_5 + 2C_3L_3L_5R_1g_m + C_3L_3L_5\right) + s^2\left(C_1L_5R_1 + 2C_3L_3R_1R_5g_m + C_3L_3R_5 + C_3L_5R_1R_5g_m + C_3L_5R_5 + C_5L_5R_1R_5\right) + s\left(C_1R_1R_5 + C_1L_5R_1 + C_3R_1R_5 + 2C_3L_3R_1g_m + C_3L_3 + C_3L_5R_1g_m + C_3L_5 + C_5L_5R_1g_m + C_5L_5\right) + 1}$$

10.304 INVALID-ORDER-304 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{C_3L_3L_5R_1g_ms^3 + L_5R_1g_ms + R_1R_5g_m - R_1 + s^4\left(C_3C_5L_3L_5R_1R_5g_m - C_3C_5L_3L_5R_1\right) + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right)}{C_1C_3C_5L_3L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_3C_5L_5R_1R_5 + 2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_3L_5R_1 + C_1C_5L_5R_1 + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1 + C_3C_5L_5R_5\right) + s^2\left(C_1C_3R_1R_5 + 2C_3L_3R_1g_m + C_3L_3 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5\right.$$

10.305 INVALID-ORDER-305 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_5s^3 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^4\left(C_3C_5L_3L_5R_1R_5g_m - C_3C_5L_3L_5R_1\right) + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1 + C_5L_5R_1R_5g_m - C_5L_5\right.$$

$$C_1C_3C_5L_3L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_5 + C_1C_3C_5L_5R_1R_5 + 2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_5R_1 + 2C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_5 + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1 + C_3C_5L_5R_5\right) + s^2\left(C_1C_3R_1R_5 + C_1C_5R_1R_5 + C_3C_5R_1R_5\right.$$

10.306 INVALID-ORDER-306 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_3R_1R_5g_m - L_3R_1\right)}{C_1C_3L_3R_1R_5s^3 + R_1R_5g_m + R_1 + R_5 + s^2\left(C_1L_3R_1 + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_5\right) + s\left(C_1R_1R_5 + 2L_3R_1g_m + L_3\right)}$$

10.307 INVALID-ORDER-307 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1s^2 + L_3R_1g_ms}{R_1g_m + s^3\left(C_1C_3L_3R_1 + C_1C_5L_3R_1 + C_3C_5L_3R_1\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3\right) + s\left(C_1R_1 + C_5R_1\right) + 1}$$

10.308 INVALID-ORDER-308 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1R_5s^2 + s\left(L_3R_1R_5g_m - L_3R_1\right)}{R_1R_5g_m + R_1 + R_5 + s^3\left(C_1C_3L_3R_1R_5 + C_1C_5L_3R_1R_5 + C_3C_5L_3R_1R_5\right) + s^2\left(C_1L_3R_1 + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_5 + 2C_5L_3R_1R_5g_m + C_5L_3R_5\right) + s\left(C_1R_1R_5 + C_5R_1R_5 + 2L_3R_1g_m + L_3\right)}$$

10.309 INVALID-ORDER-309 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{L_3R_1g_ms + s^2\left(C_5L_3R_1R_5g_m - C_5L_3R_1\right)}{C_1C_3C_5L_3R_1R_5s^4 + R_1g_m + s^3\left(C_1C_3L_3R_1 + C_1C_5L_3R_1 + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_5\right) + s^2\left(C_1C_5R_1R_5 + C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3\right) + s\left(C_1R_1 + C_5R_1R_5g_m + C_5R_1 + C_5R_5\right) + 1}$$

10.310 INVALID-ORDER-310 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_3L_5R_1g_ms^3 - C_5L_3R_1s^2 + L_3R_1g_ms}{C_1C_3C_5L_3L_5R_1s^5 + R_1g_m + s^4\left(C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_3R_1 + C_1C_5L_5R_1 + C_3C_5L_3R_1\right) + s^2\left(C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3 + C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + C_5R_1\right) + 1}$$

10.311 INVALID-ORDER-311 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3L_5R_1s^3 + L_3L_5R_1g_ms^2 - L_3R_1s}{R_1 + s^4\left(C_1C_3L_3L_5R_1 + C_1C_5L_3L_5R_1 + C_3C_5L_3L_5R_1\right) + s^3\left(C_3L_3L_5R_1g_m + C_3L_3L_5 + 2C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(C_1L_3R_1 + C_1L_5R_1 + C_3L_3R_1 + C_5L_5R_1\right) + s\left(2L_3R_1g_m + L_3 + L_5R_1g_m + L_5\right)}$$

10.312 INVALID-ORDER-312 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_3L_5R_1g_ms^3 + L_3R_1g_ms + s^2\left(C_5L_3R_1R_5g_m - C_5L_3R_1\right)}{C_1C_3C_5L_3L_5R_1s^5 + R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_5 + C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_3R_1 + C_1C_5L_5R_1 + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_5\right) + s^2\left(C_1C_5R_1R_5 + C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3 + C_5L_5R_1g_m + C_5L_5\right)}$$

10.313 INVALID-ORDER-313 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_3L_5R_1R_5s^3 - L_3R_1R_5s + s^2\left(L_3L_5R_1R_5g_m - L_3L_5R_1\right)}{R_1R_5 + s^4\left(C_1C_3L_3L_5R_1R_5 + C_1C_5L_3L_5R_1R_5 + C_3C_5L_3L_5R_1R_5\right) + s^3\left(C_1L_3L_5R_1 + C_3L_3L_5R_1R_5g_m + C_3L_3L_5R_1 + C_3L_3L_5R_5 + 2C_5L_3L_5R_1R_5g_m + C_5L_3L_5R_5\right) + s^2\left(C_1L_3R_1R_5 + C_1L_5R_1R_5 + C_3L_3R_1R_5 + C_5L_5R_1R_5 + 2L_3L_5R_1g_m + L_3L_5\right) + s\left(2L_3R_1R\right.}$$

10.314 INVALID-ORDER-314 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{L_3L_5R_1g_ms^2 + s^3\left(C_5L_3L_5R_1R_5g_m - C_5L_3L_5R_1\right) + s\left(L_3R_1R_5g_m - L_3R_1\right)}{C_1C_3C_5L_3L_5R_1R_5s^5 + R_1R_5g_m + R_1 + R_5 + s^4\left(C_1C_3L_3L_5R_1 + C_1C_5L_3L_5R_1 + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_5\right) + s^3\left(C_1C_3L_3R_1R_5 + C_1C_5L_3R_1R_5 + C_1C_5L_5R_1R_5 + C_3L_3L_5R_1g_m + C_3L_3L_5 + 2C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(C_1L_3R_1 + C_1L_5R_1 + C_3L\right.}$$

10.315 INVALID-ORDER-315 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1R_5s^2 + s^3\left(C_5L_3L_5R_1R_5g_m - C_5L_3L_5R_1\right) + s\left(L_3R_1R_5g_m - L_3R_1\right)}{C_1C_3C_5L_3L_5R_1R_5s^5 + R_1R_5g_m + R_1 + R_5 + s^4\left(C_1C_5L_3L_5R_1 + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_5\right) + s^3\left(C_1C_3L_3R_1R_5 + C_1C_5L_3R_1R_5 + C_1C_5L_5R_1R_5 + C_3C_5L_3R_1R_5 + 2C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(C_1L_3R_1 + C_3L_3R_1R_5g_m + C_3L_3R_1 -\right.}$$

10.316 INVALID-ORDER-316 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1\right) + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3\right)}{C_1C_3L_3R_1s^3 + 2R_1g_m + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_5 + 2C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + 2C_3R_1R_3g_m + C_3R_1R_5g_m + C_3R_1 + C_3R_3 + C_3R_5\right) + 1}$$

10.317 INVALID-ORDER-317 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1s^3 + R_1g_m + s^2\left(-C_3C_5R_1R_3 + C_3L_3R_1g_m\right) + s\left(C_3R_1R_3g_m - C_5R_1\right)}{C_1C_3C_5L_3R_1s^4 + s^3\left(C_1C_3C_5R_1R_3 + 2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1 + C_3C_5R_3\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.318 INVALID-ORDER-318 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(-C_3C_5R_1R_3R_5 + C_3L_3R_1R_5g_m - C_3L_3R_1\right) + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3 - C_5R_1R_5\right)}{C_1C_3C_5L_3R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3L_3R_1 + 2C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_5 + C_1C_5R_1R_5 + 2C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_5 + C_3C_5R_3R_5 + 2C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + 2C_3R_1R_3g_m + C_3R_1R_5g_m + C\right.}$$

10.319 INVALID-ORDER-319 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1g_m + s^3\left(C_3C_5L_3R_1R_5g_m - C_3C_5L_3R_1\right) + s^2\left(C_3C_5R_1R_3R_5g_m - C_3C_5R_1R_3 + C_3L_3R_1g_m\right) + s\left(C_3R_1R_3g_m + C_5R_1R_5g_m - C_5R_1\right)}{C_1C_3C_5L_3R_1s^4 + s^3\left(C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + 2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_3 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.320 INVALID-ORDER-320 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_3C_5L_3R_1 + C_3C_5L_5R_1R_3g_m\right) + s^2\left(-C_3C_5R_1R_3 + C_3L_3R_1g_m + C_5L_5R_1g_m\right) + s\left(C_3R_1R_3g_m - C_5R_1\right)}{s^4\left(C_1C_3C_5L_3R_1 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3C_5R_1R_3 + 2C_3C_5L_3R_1g_m + C_3C_5L_3 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1 + C_3C_5R_3\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.321 INVALID-ORDER-321 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1s^4 - R_1 + s^3\left(-C_3C_5L_5R_1R_3 + C_3L_3L_5R_1g_m\right) + s^2\left(-C_3L_3R_1 + C_3L_5R_1R_3g_m - C_5L_5R_1\right) + s\left(-C_3R_1R_3 + L_5R_1g_m\right)}{C_1C_3C_5L_3L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_3C_5L_5R_1R_3 + 2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_3L_5R_1 + C_1C_5L_5R_1 + 2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1 + C_3C_5L_5R_3\right) + s^2\left(C_1C_3R_1R_3 + 2C_3L_3R_1g_m + C_3L_3 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5\right.}$$

10.322 INVALID-ORDER-322 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1g_ms^4 + R_1g_m + s^3\left(C_3C_5L_3R_1R_5g_m - C_3C_5L_3R_1 + C_3C_5L_5R_1R_3g_m\right) + s^2\left(C_3C_5R_1R_3R_5g_m - C_3C_5R_1R_3 + C_3L_3R_1g_m + C_5L_5R_1g_m\right) + s\left(C_3R_1R_3g_m + C_5R_1R_5g_m - C_5R_1\right)}{s^4\left(C_1C_3C_5L_3R_1 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + 2C_3C_5L_3R_1g_m + C_3C_5L_3 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_3 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.323 INVALID-ORDER-323 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_5s^4 - R_1R_5 + s^3\left(-C_3C_5L_5R_1R_3R_5 + C_3L_3L_5R_1R_5g_m - C_3L_3L_5R_1\right) + s^2\left(-C_3L_3R_1R_5\right.}{C_1C_3C_5L_3L_5R_1R_5s^5 + 2R_1R_5g_m + R_5 + s^4\left(C_1C_3C_5L_5R_1R_3R_5 + C_1C_3L_3L_5R_1 + 2C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_5\right) + s^3\left(C_1C_3L_3R_1R_5 + C_1C_3L_5R_1R_3 + C_1C_3L_5R_1R_5 + C_1C_5L_5R_1R_5 + 2C_3C_5L_5R_1R_3R_5g_m + C_3C_5L_5R_1R_5 + C_3C_5L_5R_3R_5 + 2C_3L_3L_5R\right.}$$

10.324 INVALID-ORDER-324 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_3C_5L_3L_5R_1R_5g_m - C_3C_5L_3L_5R_1\right) + s^3\left(C_3C_5L_5R_1R_3R_5g_m - C_3C_5L_5R_1R_3 + C_3L_3L_5R_1g_m\right) + s^2\left(C_3L_3R_1R_5g_m - C_3L_3R_1 + C_3L_5R_1R_3g_m + C_5L_5R_1R_5\right.}{C_1C_3C_5L_3L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_3C_5L_5R_1R_3 + C_1C_3C_5L_5R_1R_5 + 2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_3L_5R_1 + C_1C_5L_5R_1 + 2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1 + C_3C_5L_5R_3 + C_3C_5L_5R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R\right.}$$

10.325 INVALID-ORDER-325 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_3C_5L_3L_5R_1R_5g_m - C_3C_5L_3L_5R_1\right) + s^3\left(-C_3C_5L_3R_1R_5 + C_3C_5L_5R_1R_3R_5g_m - C_3C_5L_5R_1R_3\right)}{C_1C_3C_5L_3L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_5 + C_1C_3C_5L_5R_1R_3 + C_1C_3C_5L_5R_1R_5 + 2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3L_3R_1 + C_1C_5L_5R_1 + 2C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_5 + 2C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R\right.}$$

10.326 INVALID-ORDER-326 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_3R_1R_3R_5g_m - L_3R_1R_3\right)}{C_1C_3L_3R_1R_3R_5s^3 + R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^2\left(C_1L_3R_1R_3 + C_1L_3R_1R_5 + C_3L_3R_1R_3R_5g_m + C_3L_3R_1R_3 + C_3L_3R_3R_5\right) + s\left(C_1R_1R_3R_5 + 2L_3R_1R_3g_m + L_3R_1R_5g_m + L_3R_1 + L_3R_3 + L_3R_5\right)}$$

10.327 INVALID-ORDER-327 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1R_3s^2 + L_3R_1R_3g_ms}{R_1R_3g_m + R_3 + s^3\left(C_1C_3L_3R_1R_3 + C_1C_5L_3R_1R_3 + C_3C_5L_3R_1R_3\right) + s^2\left(C_1L_3R_1 + C_3L_3R_1R_3g_m + C_3L_3R_3 + 2C_5L_3R_1R_3g_m + C_5L_3R_1 + C_5L_3R_3\right) + s\left(C_1R_1R_3 + C_5R_1R_3 + L_3R_1g_m + L_3\right)}$$

10.328 INVALID-ORDER-328 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1R_3R_5s^2 + s\left(L_3R_1R_3R_5g_m - L_3R_1R_3\right)}{R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^3\left(C_1C_3L_3R_1R_3R_5 + C_1C_5L_3R_1R_3R_5 + C_3C_5L_3R_1R_3R_5\right) + s^2\left(C_1L_3R_1R_3 + C_1L_3R_1R_5 + C_3L_3R_1R_3R_5g_m + C_3L_3R_1R_3 + C_3L_3R_3R_5 + 2C_5L_3R_1R_3R_5g_m + C_5L_3R_1R_5 + C_5L_3R_3R_5\right) + s\left(C_1R_1R_3R_5 + C_5R_1R_3R_5 + 2L_3R_1R_3g\right.}$$

10.329 INVALID-ORDER-329 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{L_3R_1R_3g_ms + s^2\left(C_5L_3R_1R_3R_5g_m - C_5L_3R_1R_3\right)}{C_1C_3C_5L_3R_1R_3R_5s^4 + R_1R_3g_m + R_3 + s^3\left(C_1C_3L_3R_1R_3 + C_1C_5L_3R_1R_3 + C_1C_5L_3R_1R_5 + C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_3 + C_3C_5L_3R_3R_5\right) + s^2\left(C_1C_5R_1R_3R_5 + C_1L_3R_1 + C_3L_3R_1R_3g_m + C_3L_3R_3 + 2C_5L_3R_1R_3g_m + C_5L_3R_1R_5g_m + C_5L_3R_1 + C_5L_3R\right.}$$

10.330 INVALID-ORDER-330 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_3L_5R_1R_3g_ms^3 - C_5L_3R_1R_3s^2 + L_3R_1R_3g_ms}{C_1C_3C_5L_3L_5R_1R_3s^5 + R_1R_3g_m + R_3 + s^4\left(C_1C_5L_3L_5R_1 + C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_3\right) + s^3\left(C_1C_3L_3R_1R_3 + C_1C_5L_3R_1R_3 + C_1C_5L_5R_1R_3 + C_3C_5L_3R_1R_3 + C_5L_3L_5R_1g_m + C_5L_3L_5\right) + s^2\left(C_1L_3R_1 + C_3L_3R_1R_3g_m + C_3L_3R_3 + 2C_5L_3R_1R_3g_m + C_5L\right.}$$

10.331 INVALID-ORDER-331 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3L_5R_1R_3s^3 + L_3L_5R_1R_3g_ms^2 - L_3R_1R_3s}{R_1R_3 + s^4\left(C_1C_3L_3L_5R_1R_3 + C_1C_5L_3L_5R_1R_3 + C_3C_5L_3L_5R_1R_3\right) + s^3\left(C_1L_3L_5R_1 + C_3L_3L_5R_1R_3g_m + C_3L_3L_5R_3 + 2C_5L_3L_5R_1R_3g_m + C_5L_3L_5R_1 + C_5L_3L_5R_3\right) + s^2\left(C_1L_3R_1R_3 + C_1L_5R_1R_3 + C_3L_3R_1R_3 + C_5L_5R_1R_3 + L_3L_5R_1g_m + L_3L_5\right) + s\left(2L_3R_1R_3\right.}$$

10.332 INVALID-ORDER-332 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_3L_5R_1R_3g_ms^3 + L_3R_1R_3g_ms + s^2\left(C_5L_3R_1\right.}{C_1C_3C_5L_3L_5R_1R_3s^5 + R_1R_3g_m + R_3 + s^4\left(C_1C_3C_5L_3R_1R_3R_5 + C_1C_5L_3L_5R_1 + C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_3\right) + s^3\left(C_1C_3L_3R_1R_3 + C_1C_5L_3R_1R_3 + C_1C_5L_3R_1R_5 + C_1C_5L_5R_1R_3 + C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_3 + C_3C_5L_3R_3R_5 + C_5L_3L_5R_1g_m\right.}$$

10.333 INVALID-ORDER-333 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_3L_5R_1R_3R_5s^3 - L_3R_1R_3R_5s + s^2\left(L_3L_5R_1R_3R_5g_m - L_3L_5R_1R_3\right)}{R_1R_3R_5 + s^4\left(C_1C_3L_3L_5R_1R_3R_5 + C_1C_5L_3L_5R_1R_3R_5 + C_3C_5L_3L_5R_1R_3R_5\right) + s^3\left(C_1L_3L_5R_1R_3 + C_1L_3L_5R_1R_5 + C_3L_3L_5R_1R_3R_5g_m + C_3L_3L_5R_1R_3 + C_3L_3L_5R_3R_5 + 2C_5L_3L_5R_1R_3R_5g_m + C_5L_3L_5R_1R_5 + C_5L_3L_5R_3R_5\right) + s^2\left(C_1L_3R_1R_3R_5 + C_1L_5R_1R_3R_5\right.}$$

10.334 INVALID-ORDER-334 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{L_3R_1R_3g_ms + s^2\left(C_5L_3R_1R_3R_5g_m - C_5L_3R_1R_3\right)}{C_1C_3C_5L_3L_5R_1R_3R_5s^5 + R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^4\left(C_1C_3L_3L_5R_1R_3 + C_1C_5L_3L_5R_1R_3 + C_1C_5L_3L_5R_1R_5 + C_3C_5L_3L_5R_1R_3R_5g_m + C_3C_5L_3L_5R_1R_3 + C_3C_5L_3L_5R_3R_5\right) + s^3\left(C_1C_3L_3R_1R_3R_5 + C_1C_5L_5R_1R_3R_5 + C_1L_3L_5R_1 + C_3L_3L_5R_1R_3g_m + C_3L\right.}$$

10.335 INVALID-ORDER-335 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_3R_1R_3R_5}{C_1C_3C_5L_3L_5R_1R_3R_5s^5 + R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^4\left(C_1C_5L_3L_5R_1R_3 + C_1C_5L_3L_5R_1R_5 + C_3C_5L_3L_5R_1R_3R_5g_m + C_3C_5L_3L_5R_1R_3 + C_3C_5L_3L_5R_3R_5\right) + s^3\left(C_1C_3L_3R_1R_3R_5 + C_1C_5L_3R_1R_3R_5 + C_1C_5L_5R_1R_3R_5 + C_3C_5L_3R_1R_3R_5 + 2C_5L_3L_5R_1R_3g_m\right.}$$

10.336 INVALID-ORDER-336 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3\right) + s\left(L_3R_1R_5g_m - L_3R_1\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_5\right) + s^2\left(C_1L_3R_1 + 2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_3 + C_3L_3R_5\right) + s\left(C_1R_1R_3 + C_1R_1R_5 + 2L_3R_1g_m + L_3\right)}$$

10.337 INVALID-ORDER-337 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3s^3 + R_1R_3g_m + s^2\left(C_3L_3R_1R_3g_m - C_5L_3R_1\right) + s\left(-C_5R_1R_3 + L_3R_1g_m\right)}{C_1C_3C_5L_3R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_3R_1 + C_1C_5L_3R_1 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3\right) + s^2\left(C_1C_5R_1R_3 + C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3\right) + s\left(C_1R_1 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.338 INVALID-ORDER-338 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3R_5s^3 + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3 - C_5L_3R_1R_5\right) + s\left(-C_5R_1R_3R_5 + L_3R_1R_5g_m - L_3R_1\right)}{C_1C_3C_5L_3R_1R_3R_5s^4 + 2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_5 + C_1C_5L_3R_1R_5 + 2C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_5 + C_3C_5L_3R_3R_5\right) + s^2\left(C_1C_5R_1R_3R_5 + C_1L_3R_1 + 2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_3 + \right.$$

10.339 INVALID-ORDER-339 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1R_3g_m + s^3\left(C_3C_5L_3R_1R_3R_5g_m - C_3C_5L_3R_1R_3\right) + s^2\left(C_3L_3R_1R_3g_m + C_5L_3R_1R_5g_m - C_5L_3R_1\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_3 + C_1C_3C_5L_3R_1R_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_3R_1 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_3R_5\right) + s^2\left(C_1C_5R_1R_3 + C_1C_5R_1R_5 + C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3\right) + s\left(C_1R_1 + 2C_5R_1R_3\right.$$

10.340 INVALID-ORDER-340 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(-C_3C_5L_3R_1R_3 + C_5L_3L_5R_1g_m\right) + s^2\left(C_3L_3R_1R_3g_m - C_5L_3R_1 + C_5L_5R_1R_3g_m\right) + s\left(-C_5R_1R_3 + L_3R_1g_m\right)}{C_1C_3C_5L_3L_5R_1s^5 + R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_3 + C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_3R_1 + C_1C_5L_5R_1 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3\right) + s^2\left(C_1C_5R_1R_3 + C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3 + C_5L_5R_1g_m + C_5L_5\right.$$

10.341 INVALID-ORDER-341 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_3s^4 - R_1R_3 + s^3\left(C_3L_3L_5R_1R_3g_m - C_5L_3L_5R_1\right) + s^2\left(-C_3L_3R_1R_3 - C_5L_5R_1R_3 + L_3L_5R_1g_m\right) + s\left(-L_3R_1 + L_5R_1R_3g_m\right.$$

10.342 INVALID-ORDER-342 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_3C_5L_3R_1R_3R_5g_m - C_3C_5L_3R_1R_3 + C_5L_3L_5R_1g_m\right) + s^2\left(C_3L_3R_1R_3g_m + C_5L_3R_1R_5g_m - C_5L_3R_1 + C_5L_5R_1R_3g_m\right) + s$$
$$C_1C_3C_5L_3L_5R_1s^5 + R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_3 + C_1C_3C_5L_3R_1R_5 + C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_3R_1 + C_1C_5L_5R_1 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_3R_5\right) + s^2\left(C_1C_5R_1R_3 + C_1C_5R_1R_5 -\right.$$

10.343 INVALID-ORDER-343 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_3R_5s^4 - R_1R_3R_5 + s^3\left(C_3L_3L_5R_1R_3R_5\right.$$
$$C_1C_3C_5L_3L_5R_1R_3R_5s^5 + 2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^4\left(C_1C_3L_3L_5R_1R_3 + C_1C_3L_3L_5R_1R_5 + C_1C_5L_3L_5R_1R_5 + 2C_3C_5L_3L_5R_1R_3R_5g_m + C_3C_5L_3L_5R_1R_5 + C_3C_5L_3L_5R_3R_5\right) + s^3\left(C_1C_3L_3R_1R_3R_5 + C_1C_5L_5R_1R_3R_5 + C_1L_3L_5R_1 + 2C_3L_3L_5R_1R_3g_m +\right.$$

10.344 INVALID-ORDER-344 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_3C_5L_3L_5R_1R_3R_5g_m - C_3C_5L_3L_5R_1R_3\right) + s^3\left(C_3L_3L_5R_1R_3g_m + C_5L_3L_5R\right.$$
$$2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(C_1C_3C_5L_3L_5R_1R_3 + C_1C_3C_5L_3L_5R_1R_5\right) + s^4\left(C_1C_3L_3L_5R_1 + C_1C_5L_3L_5R_1 + 2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3 + C_3C_5L_3L_5R_5\right) + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_5 + C_1C_5\right.$$

10.345 INVALID-ORDER-345 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_3C_5L_3L_5R_1R_3R_5g_m -\right.$$
$$2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(C_1C_3C_5L_3L_5R_1R_3 + C_1C_3C_5L_3L_5R_1R_5\right) + s^4\left(C_1C_3C_5L_3R_1R_3R_5 + C_1C_5L_3L_5R_1 + 2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3 + C_3C_5L_3L_5R_5\right) + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_5 +\right.$$

10.346 INVALID-ORDER-346 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_5\right) + s^2\left(C_1C_3R_1R_3R_5 + 2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_3 + C_3L_3R_5\right) + s\left(C_1R_1R_3 + C_1R_1R_5 + C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5\right)}$$

10.347 INVALID-ORDER-347 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3s^3 + C_3L_3R_1R_3g_ms^2 - C_5R_1R_3s + R_1R_3g_m}{C_1C_3C_5L_3R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_3R_1 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3\right) + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_3C_5R_1R_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.348 INVALID-ORDER-348 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3R_1R_3R_5s^3 - C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_3L_3R_1R_3R_5g_m - C_3L_3R_1R_3\right)}{C_1C_3C_5L_3R_1R_3R_5s^4 + 2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_5 + 2C_3C_5L_3R_1R_3R_5g_m + C_3C_5L_3R_1R_5 + C_3C_5L_3R_3R_5\right) + s^2\left(C_1C_3R_1R_3R_5 + C_1C_5R_1R_3R_5 + C_3C_5R_1R_3R_5 + 2C_3L_3R_1R_3g_m + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3\right.}$$

10.349 INVALID-ORDER-349 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3L_3R_1R_3g_ms^2 + R_1R_3g_m + s^3\left(C_3C_5L_3R_1R_3R_5g_m - C_3C_5L_3R_1R_3\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_3 + C_1C_3C_5L_3R_1R_5\right) + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3L_3R_1 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_3R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_1C_5R_1R_5 + C_3C_5R_1R_3R_5g_m + C_3C_5R_1R_3 + C_3C_5R_3R_5 + \right.}$$

10.350 INVALID-ORDER-350 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1R_3g_ms^4 - C_3C_5L_3R_1R_3s^3 - C_5R_1R_3s + R_1R_3g_m + s^2\left(C_3L_3R_1R_3g_m + C_5L_5R_1R_3g_m\right)}{C_1C_3C_5L_3L_5R_1s^5 + R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_3 + C_1C_3C_5L_5R_1R_3 + C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_5R_1 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_3\right) + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_3C_5R_1R_3 - \right.}$$

10.351 INVALID-ORDER-351 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_3s^4 + C_3L_3L_5R_1R_3g_ms^3 + L_5R_1R_3g_ms - R_1R_3 + s^2\left(-C_3L_3R_1R_3 - C_5L_5R_1R_3\right)}{C_1C_3C_5L_3L_5R_1R_3s^5 + 2R_1R_3g_m + R_1 + R_3 + s^4\left(C_1C_3L_3L_5R_1 + 2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3\right) + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_5R_1R_3 + C_1C_5L_5R_1R_3 + C_3C_5L_5R_1R_3 + C_3L_3L_5R_1g_m + C_3L_3L_5\right) + s^2\left(C_1L_5R_1 + 2C_3L_3R_1R_3g_m + C_3L_3R\right.}$$

10.352 INVALID-ORDER-352 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_3L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_3C_5L_3R_1R_3R_5g_m - C_3C_5L_3R_1R_3\right)}{C_1C_3C_5L_3L_5R_1s^5 + R_1g_m + s^4\left(C_1C_3C_5L_3R_1R_3 + C_1C_3C_5L_3R_1R_5 + C_1C_3C_5L_5R_1R_3 + C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3L_3R_1 + C_1C_5L_5R_1 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + C_3C_5L_3R_3 + C_3C_5L_3R_5 + C_3C_5\right.}$$

10.353 INVALID-ORDER-353 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_3L_5R_1R_3R_5s^4 - R_1R_3R_5 + s^3\left(C\right.}{C_1C_3C_5L_3L_5R_1R_3R_5s^5 + 2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^4\left(C_1C_3L_3L_5R_1R_3 + C_1C_3L_3L_5R_1R_5 + 2C_3C_5L_3L_5R_1R_3R_5g_m + C_3C_5L_3L_5R_1R_5 + C_3C_5L_3L_5R_3R_5\right) + s^3\left(C_1C_3L_3R_1R_3R_5 + C_1C_3L_5R_1R_3R_5 + C_1C_5L_5R_1R_3R_5 + C_3C_5L_5R_1R_3R_5 + 2C_3L_3L_5R_1R_3\right.}$$

10.354 INVALID-ORDER-354 $Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{C_3L_3L_5R_1R_3g}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(C_1C_3C_5L_3L_5R_1R_3 + C_1C_3C_5L_3L_5R_1R_5\right) + s^4\left(C_1C_3C_5L_5R_1R_3R_5 + C_1C_3L_3L_5R_1 + 2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3 + C_3C_5L_3L_5R_5\right) + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_5 + \right.}$$

10.355 INVALID-ORDER-355 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(C_1C_3C_5L_3L_5R_1R_3 + C_1C_3C_5L_3L_5R_1R_5\right) + s^4\left(C_1C_3C_5L_3R_1R_3R_5 + C_1C_3C_5L_5R_1R_3R_5 + 2C_3C_5L_3L_5R_1R_3g_m + C_3C_5L_3L_5R_1R_5g_m + C_3C_5L_3L_5R_1 + C_3C_5L_3L_5R_3 + C_3C_5L_3L_5R_5\right) + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R\right.}{}$$

10.356 INVALID-ORDER-356 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3R_5g_m - R_3 + s\left(C_1R_1R_3R_5g_m - C_1R_1R_3\right)}{2R_3g_m + R_5g_m + s\left(2C_1R_1R_3g_m + C_1R_1R_5g_m + C_1R_1 + C_1R_3 + C_1R_5\right) + 1}$$

10.357 INVALID-ORDER-357 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_5R_1R_3g_ms^3 + R_3g_m + s^2\left(-C_1C_5R_1R_3 + C_5L_5R_3g_m\right) + s\left(C_1R_1R_3g_m - C_5R_3\right)}{g_m + s^3\left(C_1C_5L_5R_1g_m + C_1C_5L_5\right) + s^2\left(2C_1C_5R_1R_3g_m + C_1C_5R_1 + C_1C_5R_3 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_1 + 2C_5R_3g_m + C_5\right)}$$

10.358 INVALID-ORDER-358 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_5R_1R_3s^3 - R_3 + s^2\left(C_1L_5R_1R_3g_m - C_5L_5R_3\right) + s\left(-C_1R_1R_3 + L_5R_3g_m\right)}{2R_3g_m + s^3\left(2C_1C_5L_5R_1R_3g_m + C_1C_5L_5R_1 + C_1C_5L_5R_3\right) + s^2\left(C_1L_5R_1g_m + C_1L_5 + 2C_5L_5R_3g_m + C_5L_5\right) + s\left(2C_1R_1R_3g_m + C_1R_1 + C_1R_3 + L_5g_m\right) + 1}$$

10.359 INVALID-ORDER-359 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_5R_1R_3g_ms^3 + R_3g_m + s^2\left(C_1C_5R_1R_3R_5g_m - C_1C_5R_1R_3 + C_5L_5R_3g_m\right) + s\left(C_1R_1R_3g_m + C_5R_3R_5g_m - C_5R_3\right)}{g_m + s^3\left(C_1C_5L_5R_1g_m + C_1C_5L_5\right) + s^2\left(2C_1C_5R_1R_3g_m + C_1C_5R_1R_5g_m + C_1C_5R_1 + C_1C_5R_3 + C_1C_5R_5 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_1 + 2C_5R_3g_m + C_5R_5g_m + C_5\right)}$$

10.360 INVALID-ORDER-360 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_5R_1R_3R_5s^3 - R_3R_5 + s^2\left(C_1L_5R_1R_3R_5g_m - C_1L_5R_1R_3 - C_5L_5R_3R_5\right) + s\left(-C_1R_1R_3R_5 + L_5R_3R_5g_m - L_5R_3\right)}{2R_3R_5g_m + R_5 + s^3\left(2C_1C_5L_5R_1R_3R_5g_m + C_1C_5L_5R_1R_5 + C_1C_5L_5R_3R_5\right) + s^2\left(2C_1L_5R_1R_3g_m + C_1L_5R_1R_5g_m + C_1L_5R_1 + C_1L_5R_3 + C_1L_5R_5 + 2C_5L_5R_3R_5g_m + C_5L_5R_5\right) + s\left(2C_1R_1R_3R_5g_m + C_1R_1R_5 + C_1R_3R_5 + 2L_5R_3g_m + L_5R_5g_m + L_5\right)}$$

10.361 INVALID-ORDER-361 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{R_3R_5g_m - R_3 + s^3\left(C_1C_5L_5R_1R_3R_5g_m - C_1C_5L_5R_1R_3\right) + s^2\left(C_1L_5R_1R_3g_m + C_5L_5R_3R_5g_m - C_5L_5R_3\right) + s\left(C_1R_1R_3R_5g_m - C_1R_1R_3 + L_5R_3g_m\right)}{2R_3g_m + R_5g_m + s^3\left(2C_1C_5L_5R_1R_3g_m + C_1C_5L_5R_1R_5g_m + C_1C_5L_5R_1 + C_1C_5L_5R_3 + C_1C_5L_5R_5\right) + s^2\left(C_1L_5R_1g_m + C_1L_5 + 2C_5L_5R_3g_m + C_5L_5R_5g_m + C_5L_5\right) + s\left(2C_1R_1R_3g_m + C_1R_1R_5g_m + C_1R_1 + C_1R_3 + C_1R_5 + L_5g_m\right) + 1}$$

10.362 INVALID-ORDER-362 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{R_3R_5g_m - R_3 + s^3\left(C_1C_5L_5R_1R_3R_5g_m - C_1C_5L_5R_1R_3\right) + s^2\left(-C_1C_5R_1R_3R_5 + C_5L_5R_3R_5g_m - C_5L_5R_3\right) + s\left(C_1R_1R_3R_5g_m - C_1R_1R_3 - C_5R_3R_5\right)}{2R_3g_m + R_5g_m + s^3\left(2C_1C_5L_5R_1R_3g_m + C_1C_5L_5R_1R_5g_m + C_1C_5L_5R_1 + C_1C_5L_5R_3 + C_1C_5L_5R_5\right) + s^2\left(2C_1C_5R_1R_3R_5g_m + C_1C_5R_1R_5 + C_1C_5R_3R_5 + 2C_5L_5R_3g_m + C_5L_5R_5g_m + C_5L_5\right) + s\left(2C_1R_1R_3g_m + C_1R_1R_5g_m + C_1R_1 + C_1R_3 + C_1R_5 + 2C_5R_3R_5g_m\right.}{}$$

10.363 INVALID-ORDER-363 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5R_1s^2 + g_m + s\left(C_1R_1g_m - C_5\right)}{C_1C_3C_5R_1s^3 + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.364 INVALID-ORDER-364 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 R_1 R_5 s^2 + R_5 g_m + s\left(C_1 R_1 R_5 g_m - C_1 R_1 - C_5 R_5\right) - 1}{C_1 C_3 C_5 R_1 R_5 s^3 + 2g_m + s^2\left(C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_5 + 2C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_5 + C_3 C_5 R_5\right) + s\left(2C_1 R_1 g_m + C_1 + C_3 R_5 g_m + C_3 + 2C_5 R_5 g_m\right)}$$

10.365 INVALID-ORDER-365 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^2\left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1\right) + s\left(C_1 R_1 g_m + C_5 R_5 g_m - C_5\right)}{s^3\left(C_1 C_3 C_5 R_1 R_5 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_5\right) + s^2\left(C_1 C_3 R_1 g_m + C_1 C_3 + 2C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s\left(C_3 g_m + 2C_5 g_m\right)}$$

10.366 INVALID-ORDER-366 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_5 R_1 g_m s^3 + g_m + s^2\left(-C_1 C_5 R_1 + C_5 L_5 g_m\right) + s\left(C_1 R_1 g_m - C_5\right)}{s^4\left(C_1 C_3 C_5 L_5 R_1 g_m + C_1 C_3 C_5 L_5\right) + s^3\left(C_1 C_3 C_5 R_1 + C_3 C_5 L_5 g_m\right) + s^2\left(C_1 C_3 R_1 g_m + C_1 C_3 + 2C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5\right) + s\left(C_3 g_m + 2C_5 g_m\right)}$$

10.367 INVALID-ORDER-367 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_5 R_1 s^3 + s^2\left(C_1 L_5 R_1 g_m - C_5 L_5\right) + s\left(-C_1 R_1 + L_5 g_m\right) - 1}{C_1 C_3 C_5 L_5 R_1 s^4 + 2g_m + s^3\left(C_1 C_3 L_5 R_1 g_m + C_1 C_3 L_5 + 2C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5\right) + s^2\left(C_1 C_3 R_1 + C_3 L_5 g_m + 2C_5 L_5 g_m\right) + s\left(2C_1 R_1 g_m + C_1 + C_3\right)}$$

10.368 INVALID-ORDER-368 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_5 R_1 g_m s^3 + g_m + s^2\left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_5 L_5 g_m\right) + s\left(C_1 R_1 g_m + C_5 R_5 g_m - C_5\right)}{s^4\left(C_1 C_3 C_5 L_5 R_1 g_m + C_1 C_3 C_5 L_5\right) + s^3\left(C_1 C_3 C_5 R_1 R_5 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_5 + C_3 C_5 L_5 g_m\right) + s^2\left(C_1 C_3 R_1 g_m + C_1 C_3 + 2C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s\left(C_3 g_m + 2C_5 g_m\right)}$$

10.369 INVALID-ORDER-369 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_5 R_1 R_5 s^3 - R_5 + s^2\left(C_1 L_5 R_1 R_5 g_m - C_1 L_5 R_1 - C_5 L_5 R_5\right) + s\left(-C_1 R_1 R_5 + L_5 R_5 g_m - L_5\right)}{C_1 C_3 C_5 L_5 R_1 R_5 s^4 + 2R_5 g_m + s^3\left(C_1 C_3 L_5 R_1 R_5 g_m + C_1 C_3 L_5 R_1 + C_1 C_3 L_5 R_5 + 2C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_5 + C_3 C_5 L_5 R_5\right) + s^2\left(C_1 C_3 R_1 R_5 + 2C_1 L_5 R_1 g_m + C_1 L_5 + C_3 L_5 R_5 g_m + C_3 L_5 + 2C_5 L_5 R_5 g_m\right) + s\left(2C_1 R_1 R_5 g_m + C_1 R_5 + C_3 R_5 + 2L_5 g_m\right)}$$

10.370 INVALID-ORDER-370 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^3\left(C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1\right) + s^2\left(C_1 L_5 R_1 g_m + C_5 L_5 R_5 g_m - C_5 L_5\right) + s\left(C_1 R_1 R_5 g_m - C_1 R_1 + L_5 g_m\right) - 1}{2g_m + s^4\left(C_1 C_3 C_5 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_5\right) + s^3\left(C_1 C_3 L_5 R_1 g_m + C_1 C_3 L_5 + 2C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2\left(C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_5 + C_3 L_5 g_m + 2C_5 L_5 g_m\right) + s\left(2C_1 R_1 g_m + C_1 + C_3 R_5 g_m + C_3\right)}$$

10.371 INVALID-ORDER-371 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^3\left(C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1\right) + s^2\left(-C_1 C_5 R_1 R_5 + C_5 L_5 R_5 g_m - C_5 L_5\right) + s\left(C_1 R_1 R_5 g_m - C_1 R_1 - C_5 R_5\right) - 1}{2g_m + s^4\left(C_1 C_3 C_5 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_5\right) + s^3\left(C_1 C_3 C_5 R_1 R_5 + 2C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2\left(C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_5 + 2C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_5 + C_3 C_5 R_5 + 2C_5 L_5 g_m\right) + s\left(2C_1 R_1 g_m + C_1 + C_3\right.$$

10.372 INVALID-ORDER-372 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 R_1 R_3 s^2 + R_3 g_m + s\left(C_1 R_1 R_3 g_m - C_5 R_3\right)}{C_1 C_3 C_5 R_1 R_3 s^3 + g_m + s^2\left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + 2C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_3 C_5 R_3\right) + s\left(C_1 R_1 g_m + C_1 + C_3 R_3 g_m + 2C_5 R_3 g_m + C_5\right)}$$

10.373 INVALID-ORDER-373 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 R_1 R_3 R_5 s^2 + R_3 R_5 g_m - R_3 + s\left(C_1 R_1 R_3 R_5 g_m - C_1 R_1 R_3 - C_5 R_3 R_5\right)}{C_1 C_3 C_5 R_1 R_3 R_5 s^3 + 2R_3 g_m + R_5 g_m + s^2\left(C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5 + 2C_1 C_5 R_1 R_3 R_5 g_m + C_1 C_5 R_1 R_5 + C_1 C_5 R_3 R_5 + C_3 C_5 R_3 R_5\right) + s\left(2C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3 + 2C_5 R_3 R_5 g_m + C_5 R_5\right) + 1}$$

10.374 INVALID-ORDER-374 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^2\left(C_1 C_5 R_1 R_3 R_5 g_m - C_1 C_5 R_1 R_3\right) + s\left(C_1 R_1 R_3 g_m + C_5 R_3 R_5 g_m - C_5 R_3\right)}{g_m + s^3\left(C_1 C_3 C_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 R_1 R_3 + C_1 C_3 C_5 R_3 R_5\right) + s^2\left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + 2C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_1 C_5 R_5 + C_3 C_5 R_3 R_5 g_m + C_3 C_5 R_3\right) + s\left(C_1 R_1 g_m + C_1 + C_3 R_3 g_m + 2C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.375 INVALID-ORDER-375 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_5 R_1 R_3 g_m s^3 + R_3 g_m + s^2\left(-C_1 C_5 R_1 R_3 + C_5 L_5 R_3 g_m\right) + s\left(C_1 R_1 R_3 g_m - C_5 R_3\right)}{g_m + s^4\left(C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_3\right) + s^3\left(C_1 C_3 C_5 R_1 R_3 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5 R_3 g_m\right) + s^2\left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + 2C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_3 C_5 R_3 + C_5 L_5 g_m\right) + s\left(C_1 R_1 g_m + C_1 + C_3 R_3 g_m + 2C_5 R_3 g_m + C_5\right)}$$

10.376 INVALID-ORDER-376 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_5 R_1 R_3 s^3 - R_3 + s^2\left(C_1 L_5 R_1 R_3 g_m - C_5 L_5 R_3\right) + s\left(-C_1 R_1 R_3 + L_5 R_3 g_m\right)}{C_1 C_3 C_5 L_5 R_1 R_3 s^4 + 2R_3 g_m + s^3\left(C_1 C_3 L_5 R_1 R_3 g_m + C_1 C_3 L_5 R_3 + 2C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_3 + C_3 C_5 L_5 R_3\right) + s^2\left(C_1 C_3 R_1 R_3 + C_1 L_5 R_1 g_m + C_1 L_5 + C_3 L_5 R_3 g_m + 2C_5 L_5 R_3 g_m + C_5 L_5\right) + s\left(2C_1 R_1 R_3 g_m + C_1 R_1 + C_1 R_3 + C_3 R_3 + L_5 g_m\right) + 1}$$

10.377 INVALID-ORDER-377 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_5 R_1 R_3 g_m s^3 + R_3 g_m + s^2\left(C_1 C_5 R_1 R_3 R_5 g_m - C_1 C_5 R_1 R_3 + C_5 L_5 R_3 g_m\right) + s\left(C_1 R_1 R_3 g_m + C_5 R_3 R_5 g_m - C_5 R_3\right)}{g_m + s^4\left(C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_3\right) + s^3\left(C_1 C_3 C_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 R_1 R_3 + C_1 C_3 C_5 R_3 R_5 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5 R_3 g_m\right) + s^2\left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + 2C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_1 C_5 R_5 + C_3 C_5 R_3\right.$$

10.378 INVALID-ORDER-378 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_5 R_1 R_3 R_5 s^3 - R_3 R_5 + s^2\left(C_1 L_5 R_1 R_3 R_5 g_m - C_1 L_5 R_1 R_3 - C_5 L_5 R_3 R_5\right) + s\left(-C_1 R_1 R_3 R_5 + L_5 R_3 R_5 g_m - L_5 R_3\right)}{C_1 C_3 C_5 L_5 R_1 R_3 R_5 s^4 + 2R_3 R_5 g_m + R_5 + s^3\left(C_1 C_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 L_5 R_1 R_3 + C_1 C_3 L_5 R_3 R_5 + 2C_1 C_5 L_5 R_1 R_3 R_5 g_m + C_1 C_5 L_5 R_1 R_5 + C_1 C_5 L_5 R_3 R_5 + C_3 C_5 L_5 R_3 R_5\right) + s^2\left(C_1 C_3 R_1 R_3 R_5 + 2C_1 L_5 R_1 R_3 g_m + C_1 L_5 R_1 R_5 g_m + C_1 L_5 R_1 + C_1 L_5 R_3 + C_1 L_5 R_5 +\right.$$

10.379 INVALID-ORDER-379 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^3\left(C_1 C_5 L_5 R_1 R_3 R_5 g_m - C_1 C_5 L_5 R_1 R_3\right) + s^2\left(C_1 L_5 R_1 R_3 g_m + C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3\right) + s}{2R_3 g_m + R_5 g_m + s^4\left(C_1 C_3 C_5 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 C_5 L_5 R_3 R_5\right) + s^3\left(C_1 C_3 L_5 R_1 R_3 g_m + C_1 C_3 L_5 R_3 + 2C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_3 C_5 L_5 R_3 R_5 g_m + C_3 C_5 L_5 R_3\right) + s^2\left(C_1 C_3 R_1 R_3 R_5 g_m + C\right.$$

10.380 INVALID-ORDER-380 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^3\left(C_1 C_5 L_5 R_1 R_3 R_5 g_m - C_1 C_5 L_5 R_1 R_3\right) + s^2\left(-C_1 C_5 R_1 R_3 R_5 + C_5 L_5 R_3 R_5 g_m\right.$$
$$\overline{2R_3 g_m + R_5 g_m + s^4\left(C_1 C_3 C_5 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 C_5 L_5 R_3 R_5\right) + s^3\left(C_1 C_3 C_5 R_1 R_3 R_5 + 2C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_3 C_5 L_5 R_3 R_5 g_m + C_3 C_5 L_5 R_3\right) + s^2\left(C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1\right.}$$

10.381 INVALID-ORDER-381 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 R_1 R_3 s^3 + g_m + s^2\left(C_1 C_3 R_1 R_3 g_m - C_1 C_5 R_1 - C_3 C_5 R_3\right) + s\left(C_1 R_1 g_m + C_3 R_3 g_m - C_5\right)}{s^3\left(2C_1 C_3 C_5 R_1 R_3 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_3\right) + s^2\left(C_1 C_3 R_1 g_m + C_1 C_3 + 2C_1 C_5 R_1 g_m + C_1 C_5 + 2C_3 C_5 R_3 g_m + C_3 C_5\right) + s\left(C_3 g_m + 2C_5 g_m\right)}$$

10.382 INVALID-ORDER-382 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5R_1R_3R_5s^3 + R_5g_m + s^2\left(C_1C_3R_1R_3R_5g_m - C_1C_3R_1R_3 - C_1C_5R_1R_5 - C_3C_5R_3R_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_3R_3R_5g_m - C_3R_3 - C_5R_5\right) - 1}{2g_m + s^3\left(2C_1C_3C_5R_1R_3R_5g_m + C_1C_3C_5R_1R_5 + C_1C_3C_5R_3R_5\right) + s^2\left(2C_1C_3R_1R_3g_m + C_1C_3R_1R_5g_m + C_1C_3R_1 + C_1C_3R_3 + C_1C_3R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5 + 2C_3C_5R_3R_5g_m + C_3C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_3R_3g_m + C_3R_5g_m + C_3 + 2C_5R_5g_m\right)}$$

10.383 INVALID-ORDER-383 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^3\left(C_1C_3C_5R_1R_3R_5g_m - C_1C_3C_5R_1R_3\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_3C_5R_3R_5g_m - C_3C_5R_3\right) + s\left(C_1R_1g_m + C_3R_3g_m + C_5R_5g_m - C_5\right)}{s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1R_5g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_1C_3C_5R_5\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5R_5g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.384 INVALID-ORDER-384 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_5R_1R_3g_ms^4 + g_m + s^3\left(-C_1C_3C_5R_1R_3 + C_1C_5L_5R_1g_m + C_3C_5L_5R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m - C_1C_5R_1 - C_3C_5R_3 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_3R_3g_m - C_5\right)}{s^4\left(C_1C_3C_5L_5R_1g_m + C_1C_3C_5L_5\right) + s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_3C_5L_5g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.385 INVALID-ORDER-385 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_5R_1R_3s^4 + s^3\left(C_1C_3L_5R_1R_3g_m - C_1C_5L_5R_1 - C_3C_5L_5R_3\right) + s^2\left(-C_1C_3R_1R_3 + C_1L_5R_1g_m + C_3L_5R_3g_m - C_5L_5\right) + s\left(-C_1R_1 - C_3R_3 + L_5g_m\right) - 1}{2g_m + s^4\left(2C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_3\right) + s^3\left(C_1C_3L_5R_1g_m + C_1C_3L_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5 + 2C_3C_5L_5R_3g_m + C_3C_5L_5\right) + s^2\left(2C_1C_3R_1R_3g_m + C_1C_3R_1 + C_1C_3R_3 + C_3L_5g_m + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1 + 2C_3R_3g_m + C_3\right)}$$

10.386 INVALID-ORDER-386 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_5R_1R_3g_ms^4 + g_m + s^3\left(C_1C_3C_5R_1R_3R_5g_m - C_1C_3C_5R_1R_3 + C_1C_5L_5R_1g_m + C_3C_5L_5R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_3C_5R_3R_5g_m - C_3C_5R_3 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_3R_3g_m + C_5R_5g_m - C_5\right)}{s^4\left(C_1C_3C_5L_5R_1g_m + C_1C_3C_5L_5\right) + s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1R_5g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_3C_5L_5g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5R_5g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.387 INVALID-ORDER-387 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_5R_1R_3R_5s^4 - R_5 + s^3\left(C_1C_3L_5R_1R_3R_5g_m - C_1C_3L_5R_1R_3 - C_1C_5L_5R_1R_5 - C_3C_5L_5R_3R_5\right) + s^2\left(-C_1C_3R_1R_3R_5 + C_1L_5R_1R_5g_m - C_1L_5R_1 + C_3L_5R_3R_5g_m\right.}{2R_5g_m + s^4\left(2C_1C_3C_5L_5R_1R_3R_5g_m + C_1C_3C_5L_5R_1R_5 + C_1C_3C_5L_5R_3R_5\right) + s^3\left(2C_1C_3L_5R_1R_3g_m + C_1C_3L_5R_1R_5g_m + C_1C_3L_5R_1 + C_1C_3L_5R_3 + C_1C_3L_5R_5 + 2C_1C_5L_5R_1R_5g_m + C_1C_5L_5R_5 + 2C_3C_5L_5R_3R_5g_m + C_3C_5L_5R_5\right) + s^2\left(2C_1C_3R_1R_3R_5g_m + C_1C_3\right.}$$

10.388 INVALID-ORDER-388 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^4\left(C_1C_3C_5L_5R_1R_3R_5g_m - C_1C_3C_5L_5R_1R_3\right) + s^3\left(C_1C_3L_5R_1R_3g_m + C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1 + C_3C_5L_5R_3R_5g_m - C_3C_5L_5R_3\right) + s^2\left(C_1C_3R_1R_3R_5g_m - C_1C_3R_1R_3 + C_1L_5R_1g_m + C_3L_5R_3g_m + C_5L_5R_5g_m - C_5L_5\right.}{2g_m + s^4\left(2C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_1R_5g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_3 + C_1C_3C_5L_5R_5\right) + s^3\left(C_1C_3L_5R_1g_m + C_1C_3L_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5 + 2C_3C_5L_5R_3g_m + C_3C_5L_5R_5g_m + C_3C_5L_5\right) + s^2\left(2C_1C_3R_1R_3g_m + C_1C_3R_1R_5g_m + C_1C_3R_1 + C\right.}$$

10.389 INVALID-ORDER-389 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^4\left(C_1C_3C_5L_5R_1R_3R_5g_m - C_1C_3C_5L_5R_1R_3\right) + s^3\left(-C_1C_3C_5R_1R_3R_5 + C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1 + C_3C_5L_5R_3R_5g_m - C_3C_5L_5R_3\right) + s^2\left(C_1C_3R_1R_3R_5g_m - C_1C_3R_1R_3 - C\right.}{2g_m + s^4\left(2C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_1R_5g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_3 + C_1C_3C_5L_5R_5\right) + s^3\left(2C_1C_3C_5R_1R_3R_5g_m + C_1C_3C_5R_1R_5 + C_1C_3C_5R_3R_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5 + 2C_3C_5L_5R_3g_m + C_3C_5L_5R_5g_m + C_3C_5L_5\right) + s^2\left(2C_1C_3R_1R_3g_m + \right.}$$

10.390 INVALID-ORDER-390 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^3\left(C_1C_3L_3R_1R_5g_m - C_1C_3L_3R_1\right) + s^2\left(C_3L_3R_5g_m - C_3L_3\right) + s\left(C_1R_1R_5g_m - C_1R_1\right) - 1}{2g_m + s^3\left(2C_1C_3L_3R_1g_m + C_1C_3L_3\right) + s^2\left(C_1C_3R_1R_5g_m + C_1C_3R_1 + C_1C_3R_5 + 2C_3L_3g_m\right) + s\left(2C_1R_1g_m + C_1 + C_3R_5g_m + C_3\right)}$$

10.391 INVALID-ORDER-391 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 R_1 s^4 + g_m + s^3 \left(C_1 C_3 L_3 R_1 g_m - C_3 C_5 L_3\right) + s^2 \left(-C_1 C_5 R_1 + C_3 L_3 g_m\right) + s \left(C_1 R_1 g_m - C_5\right)}{s^4 \left(2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3\right) + s^3 \left(C_1 C_3 C_5 R_1 + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.392 INVALID-ORDER-392 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 R_1 R_5 s^4 + R_5 g_m + s^3 \left(C_1 C_3 L_3 R_1 R_5 g_m - C_1 C_3 L_3 R_1 - C_3 C_5 L_3 R_5\right) + s^2 \left(-C_1 C_5 R_1 R_5 + C_3 L_3 R_5 g_m - C_3 L_3\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 - C_5 R_5\right) - 1}{2 g_m + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_5\right) + s^3 \left(C_1 C_3 C_5 R_1 R_5 + 2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2 C_3 C_5 L_3 R_5 g_m\right) + s^2 \left(C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_5 + 2 C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_5 + C_3 C_5 R_5 + 2 C_3 L_3 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right)}$$

10.393 INVALID-ORDER-393 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_5 g_m - C_1 C_3 C_5 L_3 R_1\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_3 L_3 g_m\right) + s \left(C_1 R_1 g_m + C_5 R_5 g_m - C_5\right)}{s^4 \left(2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3\right) + s^3 \left(C_1 C_3 C_5 R_1 R_5 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_5 + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.394 INVALID-ORDER-394 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_3 L_5 R_1 g_m s^5 + g_m + s^4 \left(-C_1 C_3 C_5 L_3 R_1 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_5 L_5 R_1 g_m - C_3 C_5 L_3\right) + s^2 \left(-C_1 C_5 R_1 + C_3 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_1 R_1 g_m - C_5\right)}{s^4 \left(2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5 R_1 g_m + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 C_5 R_1 + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.395 INVALID-ORDER-395 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 L_5 R_1 s^5 + s^4 \left(C_1 C_3 L_3 L_5 R_1 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(-C_1 C_3 L_3 R_1 - C_1 C_5 L_5 R_1 + C_3 L_3 L_5 g_m\right) + s^2 \left(C_1 L_5 R_1 g_m - C_3 L_3 - C_5 L_5\right) + s \left(-C_1 R_1 + L_5 g_m\right) - 1}{2 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_3 L_5 R_1 g_m + C_1 C_3 L_5 + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_1 + 2 C_3 L_3 g_m + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + C\right.}$$

10.396 INVALID-ORDER-396 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_3 L_5 R_1 g_m s^5 + g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_5 g_m - C_1 C_3 C_5 L_3 R_1 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_5 L_5 R_1 g_m + C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_3 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_1 R_1 g_m + C_5 R_5 g_m - C_5\right)}{s^4 \left(2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5 R_1 g_m + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 C_5 R_1 R_5 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_5 + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.397 INVALID-ORDER-397 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 L_5 R_1 R_5 s^5 - R_5 + s^4 \left(C_1 C_3 L_3 L_5 R_1 R_5 g_m - C_1 C_3 L_3 L_5 R_1 - C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(-C_1 C_3 L_3 R_1 R_5 - C_1 C_5 L_5 R_1 R_5 + C_3 L_3 L_5 R_5 g_m - C_3 L_3 L_5\right) + s^2 \left(C_1 L_5 R_1 R_5\right.}{2 R_5 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_5 + 2 C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_5 g_m\right) + s^3 \left(2 C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_5 + C_1 C_3 L_5 R_1 R_5 g_m + C_1 C_3 L_5 R_1 + C_1 C_3 L_5 R_5 + 2 C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_5 + C_3 C_5\right.}$$

10.398 INVALID-ORDER-398 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m - C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_1 R_5 g_m - C_1 C_3 L_3 R_1 + C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 + C_3 L_3 L_5 g_m\right) + s^2 \left(C_1 L_5 R_1 g_m + C_3 L_3 R_5 g_m - C\right.}{2 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_5 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_3 L_5 R_1 g_m + C_1 C_3 L_5 + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_1 R_5 g_m\right.}$$

10.399 INVALID-ORDER-399 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m - C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_5 + C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_1 R_5 g_m - C_1 C_3 L_3 R_1 + C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 - C_3\right.}{2 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 C_5 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_5 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 C_5 R_1 R_5 + 2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + 2 C_3 C_5 L_3 R_5 g_m + C_3\right.}$$

10.400 INVALID-ORDER-400 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2\left(C_1 L_3 R_1 R_5 g_m - C_1 L_3 R_1\right) + s\left(L_3 R_5 g_m - L_3\right)}{R_5 g_m + s^3\left(C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_5\right) + s^2\left(2C_1 L_3 R_1 g_m + C_1 L_3 + C_3 L_3 R_5 g_m + C_3 L_3\right) + s\left(C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_5 + 2L_3 g_m\right) + 1}$$

10.401 INVALID-ORDER-401 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_3 R_1 s^3 + L_3 g_m s + s^2\left(C_1 L_3 R_1 g_m - C_5 L_3\right)}{C_1 C_3 C_5 L_3 R_1 s^4 + g_m + s^3\left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + C_3 C_5 L_3\right) + s^2\left(C_1 C_5 R_1 + C_3 L_3 g_m + 2C_5 L_3 g_m\right) + s\left(C_1 R_1 g_m + C_1 + C_5\right)}$$

10.402 INVALID-ORDER-402 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_3 R_1 R_5 s^3 + s^2\left(C_1 L_3 R_1 R_5 g_m - C_1 L_3 R_1 - C_5 L_3 R_5\right) + s\left(L_3 R_5 g_m - L_3\right)}{C_1 C_3 C_5 L_3 R_1 R_5 s^4 + R_5 g_m + s^3\left(C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_5 + 2C_1 C_5 L_3 R_1 R_5 g_m + C_1 C_5 L_3 R_5 + C_3 C_5 L_3 R_5\right) + s^2\left(C_1 C_5 R_1 R_5 + 2C_1 L_3 R_1 g_m + C_1 L_3 + C_3 L_3 R_5 g_m + C_3 L_3 + 2C_5 L_3 R_5 g_m\right) + s\left(C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_5 + C_5 R_5 + 2L_3 g_m\right) + 1}$$

10.403 INVALID-ORDER-403 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_3 g_m s + s^3\left(C_1 C_5 L_3 R_1 R_5 g_m - C_1 C_5 L_3 R_1\right) + s^2\left(C_1 L_3 R_1 g_m + C_5 L_3 R_5 g_m - C_5 L_3\right)}{g_m + s^4\left(C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_5\right) + s^3\left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2\left(C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_1 + C_1 C_5 R_5 + C_3 L_3 g_m + 2C_5 L_3 g_m\right) + s\left(C_1 R_1 g_m + C_1 + C_5 R_5 g_m + C_5\right)}$$

10.404 INVALID-ORDER-404 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_3 L_5 R_1 g_m s^4 + L_3 g_m s + s^3\left(-C_1 C_5 L_3 R_1 + C_5 L_3 L_5 g_m\right) + s^2\left(C_1 L_3 R_1 g_m - C_5 L_3\right)}{g_m + s^5\left(C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4\left(C_1 C_3 C_5 L_3 R_1 + C_3 C_5 L_3 L_5 g_m\right) + s^3\left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_3\right) + s^2\left(C_1 C_5 R_1 + C_3 L_3 g_m + 2C_5 L_3 g_m + C_5 L_5 g_m\right) + s\left(C_1 R_1 g_m + C_1 + C_5\right)}$$

10.405 INVALID-ORDER-405 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_3 L_5 R_1 s^4 - L_3 s + s^3\left(C_1 L_3 L_5 R_1 g_m - C_5 L_3 L_5\right) + s^2\left(-C_1 L_3 R_1 + L_3 L_5 g_m\right)}{C_1 C_3 C_5 L_3 L_5 R_1 s^5 + s^4\left(C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5\right) + s^3\left(C_1 C_3 L_3 R_1 + C_1 C_5 L_5 R_1 + C_3 L_3 L_5 g_m + 2C_5 L_3 L_5 g_m\right) + s^2\left(2C_1 L_3 R_1 g_m + C_1 L_3 + C_1 L_5 R_1 g_m + C_1 L_5 + C_3 L_3 + C_5 L_5\right) + s\left(C_1 R_1 + 2L_3 g_m + L_5 g_m\right) +$$

10.406 INVALID-ORDER-406 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_3 L_5 R_1 g_m s^4 + L_3 g_m s + s^3\left(C_1 C_5 L_3 R_1 R_5 g_m - C_1 C_5 L_3 R_1 + C_5 L_3 L_5 g_m\right) + s^2\left(C_1 L_3 R_1 g_m + C_5 L_3 R_5 g_m - C_5 L_3\right)}{g_m + s^5\left(C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4\left(C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_5 + C_3 C_5 L_3 L_5 g_m\right) + s^3\left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2\left(C_1 C_5 R_1 R_5 g_m + C$$

10.407 INVALID-ORDER-407 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_3 L_5 R_1 R_5 s^4 - L_3 R_5 s + s^3\left(C_1 L_3 L_5 R_1 R_5 g_m - C_1 L_3 L_5 R_1 - C_5 L_3 L_5 R_5\right) + s^2\left(-C_1 L_3 R_1 R_5 + L_3 L_5 R_5 g_m - L_3 L_5\right.}{C_1 C_3 C_5 L_3 L_5 R_1 R_5 s^5 + R_5 + s^4\left(C_1 C_3 L_3 L_5 R_1 R_5 g_m + C_1 C_3 L_3 L_5 R_1 + C_1 C_3 L_3 L_5 R_5 + 2C_1 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_5 L_3 L_5 R_5 + C_3 C_5 L_3 L_5 R_5\right) + s^3\left(C_1 C_3 L_3 R_1 R_5 + C_1 C_5 L_5 R_1 R_5 + 2C_1 L_3 L_5 R_1 g_m + C_1 L_3 L_5 + C_3 L_3 L_5 R_5 g_m + C_3 L_3 L_5 + 2C_5 L_3 L_5 R_5 g_m\right) + s^2\left(2C\right.$$

10.408 INVALID-ORDER-408 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{s^4\left(C_1 C_5 L_3 L_5 R_1 R_5 g_m - C_1 C_5 L_3 L_5 R_1\right) + s^3\left(C_1 L_3 L_5 R_1 g_m + C_5 L_3 L_5 R_5 g_m - C_5 L_3 L_5\right) + s^2\left(C_1 L_3 R_1 R_5 g_m -\right.}{R_5 g_m + s^5\left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4\left(C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3\left(C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_5 + C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_1 +\right.$$

10.409 INVALID-ORDER-409 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{s^4\left(C_1 C_5 L_3 L_5 R_1 R_5 g_m - C_1 C_5 L_3 L_5 R_1\right) + s^3\left(-C_1 C_5 L_3 R_1 R_5 + C_5 L_3 L_5 R_5 g_m - C_5 L_3 L_5\right) + s^2\left(C\right.}{R_5 g_m + s^5\left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4\left(C_1 C_3 C_5 L_3 R_1 R_5 + 2C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3\left(C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_5 + 2C_1 C_5 L_3 R_1 R_5 g_m + C_1 C_5 L_3 R_5 + C_1 C_5 L_5 R_1\right.$$

10.410 INVALID-ORDER-410 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_3 L_3 R_1 R_5 g_m - C_1 C_3 L_3 R_1\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m - C_1 C_3 R_1 R_3 + C_3 L_3 R_5 g_m - C_3 L_3\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_3 R_3 R_5 g_m - C_3 R_3\right) - 1}{2 g_m + s^3 \left(2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3\right) + s^2 \left(2 C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_3 + C_1 C_3 R_5 + 2 C_3 L_3 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3\right)}$$

10.411 INVALID-ORDER-411 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{- C_1 C_3 C_5 L_3 R_1 s^4 + g_m + s^3 \left(- C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_3 R_1 g_m - C_3 C_5 L_3\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m - C_1 C_5 R_1 - C_3 C_5 R_3 + C_3 L_3 g_m\right) + s \left(C_1 R_1 g_m + C_3 R_3 g_m - C_5\right)}{s^4 \left(2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3\right) + s^3 \left(2 C_1 C_3 C_5 R_1 R_3 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_3 + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.412 INVALID-ORDER-412 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{- C_1 C_3 C_5 L_3 R_1 R_5 s^4 + R_5 g_m + s^3 \left(- C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_3 L_3 R_1 R_5 g_m - C_1 C_3 L_3 R_1 - C_3 C_5 L_3 R_5\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m - C_1 C_3 R_1 R_3 - C_1 C_5 R_1 R_5 - C_3 C_5 R_3 R_5 + C_3 L_3 R_5 g_m - C_3 L_3\right) + s \left(C_1 R_1 R_5 g_m \cdots\right.}{2 g_m + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_5\right) + s^3 \left(2 C_1 C_3 C_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 R_1 R_5 + C_1 C_3 C_5 R_3 R_5 + 2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2 C_3 C_5 L_3 R_5 g_m\right) + s^2 \left(2 C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_3 + C_1 C_3 R_5 + 2 C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_5 + 2 C \cdots\right.}$$

10.413 INVALID-ORDER-413 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_5 g_m - C_1 C_3 C_5 L_3 R_1\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_3 R_1 g_m + C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_3 C_5 R_3 R_5 g_m - C_3 C_5 R_3 + C_3 L_3 g_m\right) + s \left(C_1 R_1 g_m + C_3 R_3 g_m + C_5 R_5 g_m - C \cdots\right.}{s^4 \left(2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3\right) + s^3 \left(2 C_1 C_3 C_5 R_1 R_3 g_m + C_1 C_3 C_5 R_1 R_5 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_3 + C_1 C_3 C_5 R_5 + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.414 INVALID-ORDER-414 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_3 L_5 R_1 g_m s^5 + g_m + s^4 \left(- C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(- C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_3 R_1 g_m + C_1 C_5 L_5 R_1 g_m - C_3 C_5 L_3 + C_3 C_5 L_5 R_3 g_m\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m - C_1 C_5 R_1 - C_3 C_5 R_3 + C_3 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_1 R_1 g_m + C_3 R_3 g_m \cdots\right.}{s^4 \left(2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5 R_1 g_m + C_1 C_3 C_5 L_5\right) + s^3 \left(2 C_1 C_3 C_5 R_1 R_3 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_3 + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.415 INVALID-ORDER-415 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{- C_1 C_3 C_5 L_3 L_5 R_1 s^5 + s^4 \left(- C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 L_3 L_5 R_1 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(- C_1 C_3 L_3 R_1 + C_1 C_3 L_5 R_1 R_3 g_m - C_1 C_5 L_5 R_1 - C_3 C_5 L_5 R_3 + C_3 L_3 L_5 g_m\right) + s^2 \left(- C_1 C_3 R_1 R_3 + C_1 L_5 R_1 g_m - C_3 L_3 + C_3 L_5 \cdots\right.}{2 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_3 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_3 L_5 R_1 g_m + C_1 C_3 L_5 + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + 2 C_3 C_5 L_5 R_3 g_m + C_3 C_5 L_5\right) + s^2 \left(2 C_1 C_3 R_1 R \cdots\right.}$$

10.416 INVALID-ORDER-416 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_3 L_5 R_1 g_m s^5 + g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_5 g_m - C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_3 R_1 g_m + C_1 C_5 L_5 R_1 g_m + C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3 + C_3 C_5 L_5 R_3 g_m\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_5 R_1 R \cdots\right.}{s^4 \left(2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5 R_1 g_m + C_1 C_3 C_5 L_5\right) + s^3 \left(2 C_1 C_3 C_5 R_1 R_3 g_m + C_1 C_3 C_5 R_1 R_5 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_3 + C_1 C_3 C_5 R_5 + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g \cdots\right.}$$

10.417 INVALID-ORDER-417 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{- C_1 C_3 C_5 L_3 L_5 R_1 R_5 s^5 - R_5 + s^4 \left(- C_1 C_3 C_5 L_5 R_1 R_3 R_5 + C_1 C_3 L_3 L_5 R_1 R_5 g_m - C_1 C_3 L_3 L_5 R_1 - C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(- C_1 C_3 L_3 R_1 R_5 + C_1 C_3 L_5 R_1 R_3 R_5 g_m - \cdots\right.}{2 R_5 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(2 C_1 C_3 C_5 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_5 R_1 R_5 + C_1 C_3 C_5 L_5 R_3 R_5 + 2 C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_5 g_m\right) + s^3 \left(2 C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_5 + 2 C_1 C_3 L_5 R_1 R_3 g_m + C_1 C_3 L_5 R_1 R_5 g_m + C \cdots\right.}$$

10.418 INVALID-ORDER-418 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m - C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_1 R_5 g_m - C_1 C_3 L_3 R_1 + C_1 C_3 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 + C_3 C_5 L_5 R_3 R_5 g \cdots\right.}{2 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_3 + C_1 C_3 C_5 L_5 R_5 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_3 L_5 R_1 g_m + C_1 C_3 L_5 + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + 2 C_3 \cdots\right.}$$

10.419 INVALID-ORDER-419 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m - C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(- C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 C_5 L_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_5 R_1 R_3 + C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(- C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_3 L_3 \cdots\right.}{2 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_5 + 2 C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_3 + C_1 C_3 C_5 L_5 R_5 + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(2 C_1 C_3 C_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 R_1 R_5 + C_1 C_3 C_5 R_3 \cdots\right.}$$

10.420 INVALID-ORDER-420 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2 \left(C_1 L_3 R_1 R_3 R_5 g_m - C_1 L_3 R_1 R_3\right) + s \left(L_3 R_3 R_5 g_m - L_3 R_3\right)}{R_3 R_5 g_m + R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m + C_1 C_3 L_3 R_1 R_3 + C_1 C_3 L_3 R_3 R_5\right) + s^2 \left(2 C_1 L_3 R_1 R_3 g_m + C_1 L_3 R_1 R_5 g_m + C_1 L_3 R_1 + C_1 L_3 R_3 + C_1 L_3 R_5 + C_3 L_3 R_3 R_5 g_m + C_3 L_3 R_3\right) + s \left(C_1 R_1 R_3 R_5 g_m + C_1 R_1 R_3 + C_1 R_3 R_5 + 2 L_3 R_3 g_m + L_3 R_5 g_m + L_3\right)}$$

10.421 INVALID-ORDER-421 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_3 R_1 R_3 s^3 + L_3 R_3 g_m s + s^2 \left(C_1 L_3 R_1 R_3 g_m - C_5 L_3 R_3\right)}{C_1 C_3 C_5 L_3 R_1 R_3 s^4 + R_3 g_m + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_3 + 2 C_1 C_5 L_3 R_1 R_3 g_m + C_1 C_5 L_3 R_1 + C_1 C_5 L_3 R_3 + C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 C_5 R_1 R_3 + C_1 L_3 R_1 g_m + C_1 L_3 + C_3 L_3 R_3 g_m + 2 C_5 L_3 R_3 g_m + C_5 L_3\right) + s \left(C_1 R_1 R_3 g_m + C_1 R_3 + C_5 R_3 + L_3 g_m\right)}$$

10.422 INVALID-ORDER-422 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_3 R_1 R_3 R_5 s^3 + s^2 \left(C_1 L_3 R_1 R_3 R_5 g_m - C_1 L_3 R_1 R_3 - C_5 L_3 R_3 R_5\right) + s \left(L_3 R_3 R_5 g_m - L_3 R_3\right)}{C_1 C_3 C_5 L_3 R_1 R_3 R_5 s^4 + R_3 R_5 g_m + R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m + C_1 C_3 L_3 R_1 R_3 + C_1 C_3 L_3 R_3 R_5 + 2 C_1 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_5 L_3 R_1 R_5 + C_1 C_5 L_3 R_3 R_5 + C_3 C_5 L_3 R_3 R_5\right) + s^2 \left(C_1 C_5 R_1 R_3 R_5 + 2 C_1 L_3 R_1 R_3 g_m + C_1 L_3 R_1 R_5 g_m + C_1 L_3 R_1 + C_1 L_3 R_3 + C_1 L_3 R_5 +\right.$$

10.423 INVALID-ORDER-423 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_3 R_3 g_m s + s^3 \left(C_1 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_5 L_3 R_1 R_3\right) + s^2 \left(C_1 L_3 R_1 R_3 g_m + C_5 L_3 R_3 R_5 g_m - C_5 L_3 R_3\right)}{R_3 g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 C_5 L_3 R_3 R_5\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_3 + 2 C_1 C_5 L_3 R_1 R_3 g_m + C_1 C_5 L_3 R_1 R_5 g_m + C_1 C_5 L_3 R_1 + C_1 C_5 L_3 R_3 + C_1 C_5 L_3 R_5 + C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 C_5 R_1 R_3 R_5 g_m + C_1 C_5 R_1 R_3\right.$$

10.424 INVALID-ORDER-424 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_3 L_5 R_1 R_3 g_m s^4 + L_3 R_3 g_m s + s^3 \left(-C_1 C_5 L_3 R_1 R_3 + C_5 L_3 L_5 R_3 g_m\right) + s^2 \left(C_1 L_3 R_1 R_3 g_m - C_5 L_3 R_3\right)}{R_3 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_3 + 2 C_1 C_5 L_3 R_1 R_3 g_m + C_1 C_5 L_3 R_1 + C_1 C_5 L_3 R_3 + C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_3 + C_3 C_5 L_3 R_3 +\right.$$

10.425 INVALID-ORDER-425 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_3 L_5 R_1 R_3 s^4 - L_3 R_3 s + s^3 \left(C_1 L_3 L_5 R_1 R_3 g_m - C_5 L_3 L_5 R_3\right) + s^2 \left(-C_1 L_3 R_1 R_3 + L_3 L_5 R_3 g_m\right)}{C_1 C_3 C_5 L_3 L_5 R_1 R_3 s^5 + R_3 + s^4 \left(C_1 C_3 L_3 L_5 R_1 R_3 g_m + C_1 C_3 L_3 L_5 R_3 + 2 C_1 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_5 L_3 L_5 R_1 + C_1 C_5 L_3 L_5 R_3 + C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 + C_1 C_5 L_5 R_1 R_3 + C_1 L_3 L_5 R_1 g_m + C_1 L_3 L_5 + C_3 L_3 L_5 R_3 g_m + 2 C_5 L_3 L_5 R_3 g_m + C_5 L_3 L_5\right) + s^2 \left(2 C_1\right.$$

10.426 INVALID-ORDER-426 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_3 L_5 R_1 R_3 g_m s^4 + L_3 R_3 g_m s + s^3 \left(C_1 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_5 L_3 R_1 R_3 R_5 - C_1 C_5 L_3 L_5 R_1 g_m - C_1 C_5 L_3 L_5 - C_3 C_5 L_3 L_5 R_3 g_m\right) + s^2 \left(C_1 L_3 R_1 R_3 g_m - C_5 L_3 R_3 R_5\right)}{R_3 g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_3 + 2 C_1 C_5 L_3 R_1 R_3 g_m + C_1 C_5 L_3 R_1 R_5 g_m + C_1 C_5 L_3\right.$$

10.427 INVALID-ORDER-427 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_3 L_5 R_1 R_3 R_5 s^4 - L_3 R_3 R$$
$$C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 s^5 + R_3 R_5 + s^4 \left(C_1 C_3 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 L_3 L_5 R_1 R_3 + C_1 C_3 L_3 L_5 R_3 R_5 + 2 C_1 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_5 L_3 L_5 R_1 R_5 + C_1 C_5 L_3 L_5 R_3 R_5 + C_3 C_5 L_3 L_5 R_3 R_5\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 + C_1 C_5 L_5 R_1 R_3 R_5 + 2 C_1 L_3 L_5 R_1 R_3 g_m + C_1 L_3 L_5 R_1 R$$

10.428 INVALID-ORDER-428 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m + R_3 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 R_5\right) + s^4 \left(C_1 C_3 L_3 L_5 R_1 R_3 g_m + C_1 C_3 L_3 L_5 R_3 + 2 C_1 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_5 L_3 L_5 R_1 + C_1 C_5 L_3 L_5 R_3 + C_1 C_5 L_3 L_5 R_5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_3 L_5$$

10.429 INVALID-ORDER-429 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{}{R_3 R_5 g_m + R_3 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 + 2 C_1 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_5 L_3 L_5 R_1 + C_1 C_5 L_3 L_5 R_3 + C_1 C_5 L_3 L_5 R_5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(C_1 C_3$$

10.430 INVALID-ORDER-430 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m - C_1 C_3 L_3 R_1 R_3\right) + s^2 \left(C_1 L_3 R_1 R_5 g_m - C_1 L_3 R_1 + C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right) + s \left(C_1 R_1 R_3 R_5 g_m - C_1 R_1 R_3 + L_3 R_5 g_m - L_3\right)}{2 R_3 g_m + R_5 g_m + s^3 \left(2 C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5\right) + s^2 \left(2 C_1 L_3 R_1 g_m + C_1 L_3 + 2 C_3 L_3 R_3 g_m + C_3 L_3 R_5 g_m + C_3 L_3\right) + s \left(2 C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_3 + C_1 R_5 + 2 L_3 g_m\right) + 1}$$

10.431 INVALID-ORDER-431 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 R_1 R_3 s^4 + R_3 g_m + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m - C_1 C_5 L_3 R_1 - C_3 C_5 L_3 R_3\right) + s^2 \left(-C_1 C_5 R_1 R_3 + C_1 L_3 R_1 g_m + C_3 L_3 R_3 g_m - C_5 L_3\right) + s \left(C_1 R_1 R_3 g_m - C_5 R_3 + L_3 g_m\right)}{g_m + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2 C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) + s^2 \left(2 C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_3 L_3 g_m + 2 C_5 L_3 g_m\right) + s \left(C_1 R_1 g_m + C_1 + 2 C_5 R_3 g_m + C_5\right)}$$

10.432 INVALID-ORDER-432 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 R_1 R_3 R_5 s^4 + R_3 R_5 g_m - R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m - C_1 C_3 L_3 R_1 R_3 - C_1 C_5 L_3 R_1 R_5 - C_3 C_5 L_3 R_3 R_5\right) + s^2 \left(-C_1 C_5 R_1 R_3 R_5 + C_1 L_3 R_1 R_5 g_m - C_1 L_3\right.}{2 R_3 g_m + R_5 g_m + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 C_5 L_3 R_3 R_5\right) + s^3 \left(2 C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + 2 C_1 C_5 L_3 R_1 R_5 g_m + C_1 C_5 L_3 R_5 + 2 C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_5\right) + s^2 \left(2 C_1 C_5 R_1 R_3 R_5 g_m\right.}$$

10.433 INVALID-ORDER-433 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 R_1 R_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_5 L_3 R_1 R_5 g_m - C_1 C_5 L_3 R_1 + C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 C_5 R_1 R_3 R_5 g_m - C_1 C_5 R_1 R_3 + C_1 L_3 R_1 g_m + C_3 L_3 R_3 g_m + C_5 L_3 R_5 g_m -\right.}{g_m + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2 C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3 R_5\right) + s^2 \left(2 C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_1 + C\right.}$$

10.434 INVALID-ORDER-434 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m s^5 + R_3 g_m + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m - C_1 C_5 L_3 R_1 + C_1 C_5 L_5 R_1 R_3 g_m - C_3 C_5 L_3 R_3 + C_5 L_3 L_5 g_m\right) + s^2 \left(-C_1 C_5 R_1 R_3 + C_1 L_3 R_1 g_m + C_3 L_3 R_3 g_m -\right.}{g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2 C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) + s^2 \left(2 C_1 C_5 R_1 R_3 g_m -\right.}$$

10.435 INVALID-ORDER-435 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 L_5 R_1 R_3 s^5 - R_3 + s^4 \left(C_1 C_3 L_3 L_5 R_1 R_3 g_m - C_1 C_5 L_3 L_5 R_1 - C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(-C_1 C_3 L_3 R_1 R_3 - C_1 C_5 L_5 R_1 R_3 + C_1 L_3 L_5 R_1 g_m + C_3 L_3 L_5 R_3 g_m - C_5 L\right.}{2 R_3 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3\right) + s^4 \left(C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2 C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(2 C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_3 + 2 C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L\right.}$$

10.436 INVALID-ORDER-436 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m s^5 + R_3 g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_5 L_3 R_1 R_5 g_m - C_1 C_5 L_3 R_1 + C_1 C_5 L_5 R_1 R_3 g_m + C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3 + C\right.}{g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2 C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + 2 C_3 C_5 L_3 R\right.}$$

10.437 INVALID-ORDER-437 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 s^5 - R_3 R_5 + s^4 \left(C_1 C_3 L_3 L_5 R_1 R_3 R_5 g_m - C_1 C_3 L_3 L_5 R_1 R_3 - C_1 C_5 L_3 L\right.}{2 R_3 R_5 g_m + R_5 + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 + C_1 C_3 C_5 L_3 L_5 R_3 R_5\right) + s^4 \left(2 C_1 C_3 L_3 L_5 R_1 R_3 g_m + C_1 C_3 L_3 L_5 R_1 R_5 g_m + C_1 C_3 L_3 L_5 R_1 + C_1 C_3 L_3 L_5 R_3 + C_1 C_3 L_3 L_5 R_5 + 2 C_1 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_5 L_3 L_5 R_5 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L\right.}$$

10.438 INVALID-ORDER-438 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 L_5 R_1 R_3\right) + s^4 \left(C_1 C_3 L_3 L_5 R_1 R_3 g_m + C_1 C_5 L_3 L_5 R_1 R_5 g_m - C_1 C_5 L_3 L_5 R_1 + C_3 C_5 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(C_1\right.}{2 R_3 g_m + R_5 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2 C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_5 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(2 C_1\right.}$$

10.439 INVALID-ORDER-439 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 L_5 R_1 R_3\right) + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_3 R_5 + C_1 C_5 L_3 L_5 R\right.}{2 R_3 g_m + R_5 g_m + s^5 \left(2 C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(2 C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 C_5 L_3 R_3 R_5 + 2 C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3\right.}$$

10.440 INVALID-ORDER-440 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m - C_1 C_3 L_3 R_1 R_3\right) + s^2 \left(C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right) + s \left(C_1 R_1 R_3 R_5 g_m - C_1 R_1 R_3\right)}{2R_3 g_m + R_5 g_m + s^3 \left(2C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5 + 2C_3 L_3 R_3 g_m + C_3 L_3 R_5 g_m + C_3 L_3\right) + s \left(2C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + \right.$$

10.441 INVALID-ORDER-441 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 R_1 R_3 s^4 + R_3 g_m + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(-C_1 C_5 R_1 R_3 + C_3 L_3 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m - C_5 R_3\right)}{g_m + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + 2C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_3 C_5 R_3 + C_3 L_3 g_m\right) + s \left(C_1 R_1 g_m + C_1 + C_3 R_3\right.$$

10.442 INVALID-ORDER-442 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 R_1 R_3 R_5 s^4 + R_3 R_5 g_m - R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m - C_1 C_3 L_3 R_1 R_3 - C_3 C_5 L_3 R_3 R_5\right) + s^2 \left(-C_1 C_5 R_1\right.}{2R_3 g_m + R_5 g_m + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 C_5 L_3 R_3 R_5\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 + 2C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + 2C_3 C_5 L_3 R_3 R_5 g_m + C_3 C_5 L_3 R_5\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 - \right.$$

10.443 INVALID-ORDER-443 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 R_1 R_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 C_5 R_1 R_3 R_5 g_m - C_1 C_5 R_1\right.}{g_m + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 R_1 R_3 + C_1 C_3 C_5 R_3 R_5 + C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C\right.$$

10.444 INVALID-ORDER-444 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m s^5 + R_3 g_m + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_3 + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_5 L_5 R_1 R_3 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(-C_1 C_5\right.}{g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_3 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5\right.$$

10.445 INVALID-ORDER-445 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 L_5 R_1 R_3 s^5 - R_3 + s^4 \left(C_1 C_3 L_3 L_5 R_1 R_3 g_m - C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(-C_1 C_3 L_3 R_1 R_3 - C_1 C_5 L_5 R_1 R_3 + C_3 L_3 L\right.}{2R_3 g_m + s^5 \left(2C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(2C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_3 + C_1 C_3 L_5 R_1 R_3 g_m + C_1 C_3 L_5 R_3 + 2C_1 C_5 L_5\right.$$

10.446 INVALID-ORDER-446 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m s^5 + R_3 g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 R_1 R_3 + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1\right.}{g_m + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_3 + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 R_1 R_3 + C_1 C_3 C_5 R_3 R_5 + C\right.$$

10.447 INVALID-ORDER-447 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 s^5 - R_3 R}{2R_3 R_5 g_m + R_5 + s^5 \left(2C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 + C_1 C_3 C_5 L_3 L_5 R_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 R_5 + 2C_1 C_3 L_3 L_5 R_1 R_3 g_m + C_1 C_3 L_3 L_5 R_1 R_5 g_m + C_1 C_3 L_3 L_5 R_1 + C_1 C_3 L_3 L_5 R_3 + C_1 C_3 L_3 L_5 R_5 + 2C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(2C\right.$$

10.448 INVALID-ORDER-448 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m\right.}{2R_3 g_m + R_5 g_m + s^5 \left(2C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 C_5 L_5 R_3 R_5 + C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right.$$

10.449 INVALID-ORDER-449 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m}{2R_3 g_m + R_5 g_m + s^5 \left(2C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_3 C_5 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 C_5 L_5 R_3 R_5 +$$

10.450 INVALID-ORDER-450 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_3 s^3 + C_1 L_1 R_3 g_m s^2 - C_5 R_3 s + R_3 g_m}{g_m + s^3 \left(2C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1\right) + s^2 \left(C_1 C_5 R_3 + C_1 L_1 g_m\right) + s\left(C_1 + 2C_5 R_3 g_m + C_5\right)}$$

10.451 INVALID-ORDER-451 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_3 R_5 s^3 - C_5 R_3 R_5 s + R_3 R_5 g_m - R_3 + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3\right)}{2R_3 g_m + R_5 g_m + s^3 \left(2C_1 C_5 L_1 R_3 R_5 g_m + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 C_5 R_3 R_5 + 2C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1\right) + s\left(C_1 R_3 + C_1 R_5 + 2C_5 R_3 R_5 g_m + C_5 R_5\right) + 1}$$

10.452 INVALID-ORDER-452 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 L_1 R_3 g_m s^2 + R_3 g_m + s^3 \left(C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3\right) + s\left(C_5 R_3 R_5 g_m - C_5 R_3\right)}{g_m + s^3 \left(2C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1\right) + s^2 \left(C_1 C_5 R_3 + C_1 C_5 R_5 + C_1 L_1 g_m\right) + s\left(C_1 + 2C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.453 INVALID-ORDER-453 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 R_3 g_m s^4 - C_1 C_5 L_1 R_3 s^3 - C_5 R_3 s + R_3 g_m + s^2 \left(C_1 L_1 R_3 g_m + C_5 L_5 R_3 g_m\right)}{C_1 C_5 L_1 L_5 g_m s^4 + g_m + s^3 \left(2C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 + C_1 C_5 L_5\right) + s^2 \left(C_1 C_5 R_3 + C_1 L_1 g_m + C_5 L_5 g_m\right) + s\left(C_1 + 2C_5 R_3 g_m + C_5\right)}$$

10.454 INVALID-ORDER-454 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 R_3 s^4 + C_1 L_1 L_5 R_3 g_m s^3 + L_5 R_3 g_m s - R_3 + s^2 \left(-C_1 L_1 R_3 - C_5 L_5 R_3\right)}{2R_3 g_m + s^4 \left(2C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(C_1 C_5 L_5 R_3 + C_1 L_1 L_5 g_m\right) + s^2 \left(2C_1 L_1 R_3 g_m + C_1 L_1 + C_1 L_5 + 2C_5 L_5 R_3 g_m + C_5 L_5\right) + s\left(C_1 R_3 + L_5 g_m\right) + 1}$$

10.455 INVALID-ORDER-455 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 R_3 g_m s^4 + R_3 g_m + s^3 \left(C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3\right) + s^2 \left(C_1 L_1 R_3 g_m + C_5 L_5 R_3 g_m\right) + s\left(C_5 R_3 R_5 g_m - C_5 R_3\right)}{C_1 C_5 L_1 L_5 g_m s^4 + g_m + s^3 \left(2C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1 + C_1 C_5 L_5\right) + s^2 \left(C_1 C_5 R_3 + C_1 C_5 R_5 + C_1 L_1 g_m + C_5 L_5 g_m\right) + s\left(C_1 + 2C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.456 INVALID-ORDER-456 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 R_3 R_5 s^4 - R_3 R_5 + s^3 \left(C_1 L_1 L_5 R_3 R_5 g_m - C_1 L_1 L_5 R_3\right) + s^2 \left(-C_1 L_1 R_3 R_5 - C_5 L_5 R_3 R_5\right) + s\left(L_5 R_3 R_5 g_m - L_5 R_3\right)}{2R_3 R_5 g_m + R_5 + s^4 \left(2C_1 C_5 L_1 L_5 R_3 R_5 g_m + C_1 C_5 L_1 L_5 R_5\right) + s^3 \left(C_1 C_5 L_5 R_3 R_5 + 2C_1 L_1 L_5 R_3 g_m + C_1 L_1 L_5 R_5 g_m + C_1 L_1 L_5\right) + s^2 \left(2C_1 L_1 R_3 R_5 g_m + C_1 L_1 R_5 + C_1 L_5 R_3 + C_1 L_5 R_5 + 2C_5 L_5 R_3 R_5 g_m + C_5 L_5 R_5\right) + s\left(C_1 R_3 R_5 + 2L_5 R_3 g_m + L_5 R_5 g_m + L_5\right)}$$

10.457 INVALID-ORDER-457 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1 L_1 L_5 R_3 g_m s^3 + L_5 R_3 g_m s + R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_5 L_1 L_5 R_3 R_5 g_m - C_1 C_5 L_1 L_5 R_3\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3\right)}{2R_3 g_m + R_5 g_m + s^4 \left(2C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_1 L_5 R_5 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_1 L_1 L_5 g_m\right) + s^2 \left(2C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1 + C_1 L_5 + 2C_5 L_5 R_3 g_m + C_5 L_5 R_5 g_m + C_5 L_5\right) + s\left(C_1 R_3 + C_1 R_5 + L_5 g_m\right) + 1}$$

10.458 INVALID-ORDER-458 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_3R_5s^3 - C_5R_3R_5s + R_3R_5g_m - R_3 + s^4\left(C_1C_5L_1L_5R_3R_5g_m - C_1C_5L_1L_5R_3\right) + s^2\left(C_1L_1R_3R_5g_m - C_1L_1R_3 + C_5L_5R_3R_5g_m - C_5L_5R_3\right)}{2R_3g_m + R_5g_m + s^4\left(2C_1C_5L_1L_5R_3g_m + C_1C_5L_1L_5R_5g_m + C_1C_5L_1L_5\right) + s^3\left(2C_1C_5L_1R_3R_5g_m + C_1C_5L_1R_5 + C_1C_5L_5R_3 + C_1C_5L_5R_5\right) + s^2\left(C_1C_5R_3R_5 + 2C_1L_1R_3g_m + C_1L_1R_5g_m + C_1L_1 + 2C_5L_5R_3g_m + C_5L_5R_5g_m + C_5L_5\right) + s\left(C_1R_3 + C_1R_5 + 2C_5R_3R\right.}$$

10.459 INVALID-ORDER-459 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^2\left(C_1L_1R_5g_m - C_1L_1\right) - 1}{2g_m + s^3\left(C_1C_3L_1R_5g_m + C_1C_3L_1\right) + s^2\left(C_1C_3R_5 + 2C_1L_1g_m\right) + s\left(C_1 + C_3R_5g_m + C_3\right)}$$

10.460 INVALID-ORDER-460 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1s^3 + C_1L_1g_ms^2 - C_5s + g_m}{C_1C_3C_5L_1s^4 + s^3\left(C_1C_3L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_3 + C_1C_5 + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.461 INVALID-ORDER-461 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_5s^3 - C_5R_5s + R_5g_m + s^2\left(C_1L_1R_5g_m - C_1L_1\right) - 1}{C_1C_3C_5L_1R_5s^4 + 2g_m + s^3\left(C_1C_3L_1R_5g_m + C_1C_3L_1 + 2C_1C_5L_1R_5g_m\right) + s^2\left(C_1C_3R_5 + C_1C_5R_5 + 2C_1L_1g_m + C_3C_5R_5\right) + s\left(C_1 + C_3R_5g_m + C_3 + 2C_5R_5g_m\right)}$$

10.462 INVALID-ORDER-462 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1L_1g_ms^2 + g_m + s^3\left(C_1C_5L_1R_5g_m - C_1C_5L_1\right) + s\left(C_5R_5g_m - C_5\right)}{s^4\left(C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1\right) + s^3\left(C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_3 + C_1C_5 + C_3C_5R_5g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.463 INVALID-ORDER-463 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5g_ms^4 - C_1C_5L_1s^3 - C_5s + g_m + s^2\left(C_1L_1g_m + C_5L_5g_m\right)}{C_1C_3C_5L_1L_5g_ms^5 + s^4\left(C_1C_3C_5L_1 + C_1C_3C_5L_5\right) + s^3\left(C_1C_3L_1g_m + 2C_1C_5L_1g_m + C_3C_5L_5g_m\right) + s^2\left(C_1C_3 + C_1C_5 + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.464 INVALID-ORDER-464 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5s^4 + C_1L_1L_5g_ms^3 + L_5g_ms + s^2\left(-C_1L_1 - C_5L_5\right) - 1}{C_1C_3C_5L_1L_5s^5 + 2g_m + s^4\left(C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1 + C_1C_3L_5 + C_1C_5L_5 + C_3C_5L_5\right) + s^2\left(2C_1L_1g_m + C_3L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + C_3\right)}$$

10.465 INVALID-ORDER-465 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5g_ms^4 + g_m + s^3\left(C_1C_5L_1R_5g_m - C_1C_5L_1\right) + s^2\left(C_1L_1g_m + C_5L_5g_m\right) + s\left(C_5R_5g_m - C_5\right)}{C_1C_3C_5L_1L_5g_ms^5 + s^4\left(C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + C_1C_3C_5L_5\right) + s^3\left(C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + C_3C_5L_5g_m\right) + s^2\left(C_1C_3 + C_1C_5 + C_3C_5R_5g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.466 INVALID-ORDER-466 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_5s^4 - R_5 + s^3\left(C_1L_1L_5R_5g_m - C_1L_1L_5\right) + s^2\left(-C_1L_1R_5 - C_5L_5R_5\right) + s\left(L_5R_5g_m - L_5\right)}{C_1C_3C_5L_1L_5R_5s^5 + 2R_5g_m + s^4\left(C_1C_3L_1L_5R_5g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_5g_m\right) + s^3\left(C_1C_3L_1R_5 + C_1C_3L_5R_5 + C_1C_5L_5R_5 + 2C_1L_1L_5g_m + C_3C_5L_5R_5\right) + s^2\left(2C_1L_1R_5g_m + C_1L_5 + C_3L_5R_5g_m + C_3L_5 + 2C_5L_5R_5g_m\right) + s\left(C_1R_5 + C_3R_5 + 2L_5g_m\right)}$$

10.467 INVALID-ORDER-467 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1L_1L_5g_ms^3 + L_5g_ms + R_5g_m + s^4\left(C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 + C_5L_5R_5g_m - C_5L_5\right) - 1}{2g_m + s^5\left(C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_5R_5 + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_5g_m + C_1C_3L_1 + C_1C_3L_5 + C_1C_5L_5 + C_3C_5L_5R_5g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_5 + 2C_1L_1g_m + C_3L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + C_3R_5g_m + C_3\right)}$$

10.468 INVALID-ORDER-468 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_5s^3 - C_5R_5s + R_5g_m + s^4\left(C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 + C_5L_5R_5g_m - C_5L_5\right) - 1}{2g_m + s^5\left(C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_5 + C_1C_3C_5L_5R_5 + 2C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_5g_m + C_1C_3L_1 + 2C_1C_5L_1R_5g_m + C_1C_5L_5 + C_3C_5L_5R_5g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_5 + C_1C_5R_5 + 2C_1L_1g_m + C_3C_5R_5 + 2C_5L_5g_m\right) + s\left(C_1 +\right.}$$

10.469 INVALID-ORDER-469 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3R_5g_m - R_3 + s^2\left(C_1L_1R_3R_5g_m - C_1L_1R_3\right)}{2R_3g_m + R_5g_m + s^3\left(C_1C_3L_1R_3R_5g_m + C_1C_3L_1R_3\right) + s^2\left(C_1C_3R_3R_5 + 2C_1L_1R_3g_m + C_1L_1R_5g_m + C_1L_1\right) + s\left(C_1R_3 + C_1R_5 + C_3R_3R_5g_m + C_3R_3\right) + 1}$$

10.470 INVALID-ORDER-470 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_3s^3 + C_1L_1R_3g_ms^2 - C_5R_3s + R_3g_m}{C_1C_3C_5L_1R_3s^4 + g_m + s^3\left(C_1C_3L_1R_3g_m + 2C_1C_5L_1R_3g_m + C_1C_5L_1\right) + s^2\left(C_1C_3R_3 + C_1C_5R_3 + C_1L_1g_m + C_3C_5R_3\right) + s\left(C_1 + C_3R_3g_m + 2C_5R_3g_m + C_5\right)}$$

10.471 INVALID-ORDER-471 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_3R_5s^3 - C_5R_3R_5s + R_3R_5g_m - R_3 + s^2\left(C_1L_1R_3R_5g_m - C_1L_1R_3\right)}{C_1C_3C_5L_1R_3R_5s^4 + 2R_3g_m + R_5g_m + s^3\left(C_1C_3L_1R_3R_5g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_3R_5g_m + C_1C_5L_1R_5\right) + s^2\left(C_1C_3R_3R_5 + C_1C_5R_3R_5 + 2C_1L_1R_3g_m + C_1L_1R_5g_m + C_1L_1 + C_3C_5R_3R_5\right) + s\left(C_1R_3 + C_1R_5 + C_3R_3R_5g_m + C_3R_3 + 2C_5R_3R_5g_m + C_5R_5\right) + 1}$$

10.472 INVALID-ORDER-472 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1L_1R_3g_ms^2 + R_3g_m + s^3\left(C_1C_5L_1R_3R_5g_m - C_1C_5L_1R_3\right) + s\left(C_5R_3R_5g_m - C_5R_3\right)}{g_m + s^4\left(C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_3\right) + s^3\left(C_1C_3C_5R_3R_5 + C_1C_3L_1R_3g_m + 2C_1C_5L_1R_3g_m + C_1C_5L_1R_5g_m + C_1C_5L_1\right) + s^2\left(C_1C_3R_3 + C_1C_5R_3 + C_1C_5R_5 + C_1L_1g_m + C_3C_5R_3R_5g_m + C_3C_5R_3\right) + s\left(C_1 + C_3R_3g_m + 2C_5R_3g_m + C_5R_5g_m + C_5\right)}$$

10.473 INVALID-ORDER-473 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_3g_ms^4 - C_1C_5L_1R_3s^3 - C_5R_3s + R_3g_m + s^2\left(C_1L_1R_3g_m + C_5L_5R_3g_m\right)}{C_1C_3C_5L_1L_5R_3g_ms^5 + g_m + s^4\left(C_1C_3C_5L_1R_3 + C_1C_3C_5L_5R_3 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_3g_m + 2C_1C_5L_1R_3g_m + C_1C_5L_1 + C_1C_5L_5 + C_3C_5L_5R_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_5R_3 + C_1L_1g_m + C_3C_5R_3 + C_5L_5g_m\right) + s\left(C_1 + C_3R_3g_m + 2C_5R_3g_m + C_5\right)}$$

10.474 INVALID-ORDER-474 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_3s^4 + C_1L_1L_5R_3g_ms^3 + L_5R_3g_ms - R_3 + s^2\left(-C_1L_1R_3 - C_5L_5R_3\right)}{C_1C_3C_5L_1L_5R_3s^5 + 2R_3g_m + s^4\left(C_1C_3L_1L_5R_3g_m + 2C_1C_5L_1L_5R_3g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_3 + C_1C_3L_5R_3 + C_1C_5L_5R_3 + C_1L_1L_5g_m + C_3C_5L_5R_3\right) + s^2\left(2C_1L_1R_3g_m + C_1L_1 + C_1L_5 + C_3L_5R_3g_m + 2C_5L_5R_3g_m + C_5L_5\right) + s\left(C_1R_3 + C_3R_3 + L_5g_m\right) +$$

10.475 INVALID-ORDER-475 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_3g_ms^4 + R_3g_m + s^3\left(C_1C_5L_1R_3R_5g_m - C_1C_5L_1R_3\right) + s^2\left(C_1L_1R_3g_m + C_5L_5R_3g_m\right) + s\left(C_5R_3R_5g_m - C_5R_3\right)}{C_1C_3C_5L_1L_5R_3g_ms^5 + g_m + s^4\left(C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_3 + C_1C_3C_5L_5R_3 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3C_5R_3R_5 + C_1C_3L_1R_3g_m + 2C_1C_5L_1R_3g_m + C_1C_5L_1R_5g_m + C_1C_5L_1 + C_1C_5L_5 + C_3C_5L_5R_3g_m\right) + s^2\left(C_1C_3R_3 + C_1C_5R_3 + C_1C_5R_5 + C_1L_1g_m\right.}$$

10.476 INVALID-ORDER-476 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_3R_5s^4 - R_3R_5 + s^3\left(C_1L_1L_5R_3R_5g_m - C_1L_1L_5R_3\right) + s^2\left(-C_1L_1R_3R_5 - C_5L_5R_3R_5\right) + s\left(L_5R_3R_5g_m - L_5\right.}{C_1C_3C_5L_1L_5R_3R_5s^5 + 2R_3R_5g_m + R_5 + s^4\left(C_1C_3L_1L_5R_3R_5g_m + C_1C_3L_1L_5R_3 + 2C_1C_5L_1L_5R_3R_5g_m + C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_3L_1R_3R_5 + C_1C_3L_5R_3R_5 + C_1C_5L_5R_3R_5 + 2C_1L_1L_5R_3g_m + C_1L_1L_5R_5g_m + C_1L_1L_5 + C_3C_5L_5R_3R_5\right) + s^2\left(2C_1L_1R_3R_5g_m + C\right.}$$

10.477 INVALID-ORDER-477 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1L_1L_5R_3g_ms^3 + L_5R_3g_ms + R_3R_5g_m - R_3 + s^4\left(C_1C_5L_1L_5R_3R_5g_m - C_1C_5L_1L_5R_3\right) + s^2\left(C_1L_1R_3R_5g_m\right.}{2R_3g_m + R_5g_m + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_5R_3R_5 + C_1C_3L_1L_5R_3g_m + 2C_1C_5L_1L_5R_3g_m + C_1C_5L_1L_5R_5g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_3R_5g_m + C_1C_3L_1R_3 + C_1C_3L_5R_3 + C_1C_5L_5R_3 + C_1C_5L_5R_5 + C_1L_1L_5g_m + C_3C_5L_5\right.}$$

10.478 INVALID-ORDER-478 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_3R_5s^3 - C_5R_3R_5s + R_3R_5g_m - R_3 + s^4\left(C_1C_5L_1L_5R_3R_5g_m - C_1C_5L_1L_5R_3\right) + s^2}{2R_3g_m + R_5g_m + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_1R_3R_5 + C_1C_3C_5L_5R_3R_5 + 2C_1C_5L_1L_5R_3g_m + C_1C_5L_1L_5R_5g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_3R_5g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_3R_5g_m + C_1C_5L_1R_5 + C_1C_5L_5R_3 + C_1C_5L_5R_5 + C\right.}$$

10.479 INVALID-ORDER-479 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^3\left(C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3\right) + s^2\left(C_1L_1R_5g_m - C_1L_1\right) + s\left(C_3R_3R_5g_m - C_3R_3\right) - 1}{2g_m + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1\right) + s^2\left(C_1C_3R_3 + C_1C_3R_5 + 2C_1L_1g_m\right) + s\left(C_1 + 2C_3R_3g_m + C_3R_5g_m + C_3\right)}$$

10.480 INVALID-ORDER-480 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1R_3s^4 + g_m + s^3\left(C_1C_3L_1R_3g_m - C_1C_5L_1\right) + s^2\left(C_1L_1g_m - C_3C_5R_3\right) + s\left(C_3R_3g_m - C_5\right)}{s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1\right) + s^3\left(C_1C_3C_5R_3 + C_1C_3L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_3 + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.481 INVALID-ORDER-481 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1R_3R_5s^4 + R_5g_m + s^3\left(C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3 - C_1C_5L_1R_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 - C_3C_5R_3R_5\right) + s\left(C_3R_3R_5g_m - C_3R_3 - C_5R_5\right) - 1}{2g_m + s^4\left(2C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_5\right) + s^3\left(C_1C_3C_5R_3R_5 + 2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1 + 2C_1C_5L_1R_5g_m\right) + s^2\left(C_1C_3R_3 + C_1C_3R_5 + C_1C_5R_5 + 2C_1L_1g_m + 2C_3C_5R_3R_5g_m + C_3C_5R_5\right) + s\left(C_1 + 2C_3R_3g_m + C_3R_5g_m + C_3 + 2C_5R_5g_m\right)}$$

10.482 INVALID-ORDER-482 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^4\left(C_1C_3C_5L_1R_3R_5g_m - C_1C_3C_5L_1R_3\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_5L_1R_5g_m - C_1C_5L_1\right) + s^2\left(C_1L_1g_m + C_3C_5R_3R_5g_m - C_3C_5R_3\right) + s\left(C_3R_3g_m + C_5R_5g_m - C_5\right)}{s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1\right) + s^3\left(C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_3 + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5R_5g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.483 INVALID-ORDER-483 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_5R_3g_ms^5 + g_m + s^4\left(-C_1C_3C_5L_1R_3 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_3g_m - C_1C_5L_1 + C_3C_5L_5R_3g_m\right) + s^2\left(C_1L_1g_m - C_3C_5R_3 + C_5L_5g_m\right) + s\left(C_3R_3g_m - C_5\right)}{C_1C_3C_5L_1L_5g_ms^5 + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1 + C_1C_3C_5L_5\right) + s^3\left(C_1C_3C_5R_3 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + C_3C_5L_5g_m\right) + s^2\left(C_1C_3 + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.484 INVALID-ORDER-484 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_5R_3s^5 + s^4\left(C_1C_3L_1L_5R_3g_m - C_1C_5L_1L_5\right) + s^3\left(-C_1C_3L_1R_3 + C_1L_1L_5g_m - C_3C_5L_5R_3\right) + s^2\left(-C_1L_1 + C_3L_5R_3g_m - C_5L_5\right) + s\left(-C_3R_3 + L_5g_m\right) - 1}{2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_5R_3 + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1 + C_1C_3L_5 + C_1C_5L_5 + 2C_3C_5L_5R_3g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_3 + 2C_1L_1g_m + C_3L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_3R_3g_m + C\right.}$$

10.485 INVALID-ORDER-485 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_5R_3g_ms^5 + g_m + s^4\left(C_1C_3C_5L_1R_3R_5g_m - C_1C_3C_5L_1R_3 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_3C_5L_5R_3g_m\right) + s^2\left(C_1L_1g_m + C_3C_5R_3R_5g_m - C_3C_5R_3 + C_5L_5g_m\right) + s\left(C_3R_3g_m + C_5R_5g_m - C_5\right)}{C_1C_3C_5L_1L_5g_ms^5 + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + C_1C_3C_5L_5\right) + s^3\left(C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + C_3C_5L_5g_m\right) + s^2\left(C_1C_3 + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5R_5g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.486 INVALID-ORDER-486 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_5R_3R_5s^5 - R_5 + s^4\left(C_1C_3L_1L_5R_3R_5g_m - C_1C_3L_1L_5R_3 - C_1C_5L_1L_5R_5\right) + s^3\left(-C_1C_3L_1R_3R_5 + C_1L_1L_5R_5g_m - C_1L_1L_5 - C_3C_5L_5R_3R_5\right) + s^2\left(-C_1L_1R_5 +\right.}{2R_5g_m + s^5\left(2C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_5\right) + s^4\left(C_1C_3C_5L_5R_3R_5 + 2C_1C_3L_1L_5R_3g_m + C_1C_3L_1L_5R_5g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_5g_m\right) + s^3\left(2C_1C_3L_1R_3R_5g_m + C_1C_3L_1R_5 + C_1C_3L_5R_3 + C_1C_3L_5R_5 + C_1C_5L_5R_5 + 2C_1L_1L_5g_m + 2C_3C_5L_5R_3\right.}$$

10.487 INVALID-ORDER-487 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m - C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3L_1L_5R_3g_m + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3 + C_1L_1L_5g_m + C_3C_5L_5R_3R_5g_m - C_3C_5L_5R_3\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 + C_3L_5R_3\right.}{2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_5R_3 + C_1C_3C_5L_5R_5 + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1 + C_1C_3L_5 + C_1C_5L_5 + 2C_3C_5L_5R_3g_m + C_3C_5L_5R_5g_m + C_3C_5L_5\right) + s^3\right.}$$

10.488 INVALID-ORDER-488 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_5 R_3\right) + s^4 \left(-C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_1 L_5\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 g_m - C_1 C_3 L_1 R_3 - C_1 C_5 L_1 R_5 + C_3 C_5 L_5 R_3 R_5 g_m - C_3 \right.}{2 g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_5 + C_1 C_3 C_5 L_5 R_3 + C_1 C_3 C_5 L_5 R_5 + 2 C_1 C_5 L_1 L_5 g_m\right) + s^3 \left(C_1 C_3 C_5 R_3 R_5 + 2 C_1 C_3 L_1 R_3 g_m + C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1 + 2 C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_5 + 2$$

10.489 INVALID-ORDER-489 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_5 g_m - C_1 C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1 + C_3 L_3 R_5 g_m - C_3 L_3\right) - 1}{2 C_1 C_3 L_1 L_3 g_m s^4 + 2 g_m + s^3 \left(C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1 + C_1 C_3 L_3\right) + s^2 \left(C_1 C_3 R_5 + 2 C_1 L_1 g_m + 2 C_3 L_3 g_m\right) + s \left(C_1 + C_3 R_5 g_m + C_3\right)}$$

10.490 INVALID-ORDER-490 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 s^5 + C_1 C_3 L_1 L_3 g_m s^4 - C_5 s + g_m + s^3 \left(-C_1 C_5 L_1 - C_3 C_5 L_3\right) + s^2 \left(C_1 L_1 g_m + C_3 L_3 g_m\right)}{2 C_1 C_3 C_5 L_1 L_3 g_m s^5 + s^4 \left(C_1 C_3 C_5 L_1 + C_1 C_3 C_5 L_3\right) + s^3 \left(C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.491 INVALID-ORDER-491 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_5 s^5 - C_5 R_5 s + R_5 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_5 g_m - C_1 C_3 L_1 L_3\right) + s^3 \left(-C_1 C_5 L_1 R_5 - C_3 C_5 L_3 R_5\right) + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1 + C_3 L_3 R_5 g_m - C_3 L_3\right) - 1}{2 C_1 C_3 C_5 L_1 L_3 R_5 g_m s^5 + 2 g_m + s^4 \left(C_1 C_3 C_5 L_1 R_5 + C_1 C_3 C_5 L_3 R_5 + 2 C_1 C_3 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1 + C_1 C_3 L_3 + 2 C_1 C_5 L_1 R_5 g_m + 2 C_3 C_5 L_3 R_5 g_m\right) + s^2 \left(C_1 C_3 R_5 + C_1 C_5 R_5 + 2 C_1 L_1 g_m + C_3 C_5 R_5 + 2 C_3 L_3 g_m\right) + s \left(C_1 + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right.}$$

10.492 INVALID-ORDER-492 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 L_1 L_3 g_m s^4 + g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3\right) + s^3 \left(C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1 + C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3\right) + s^2 \left(C_1 L_1 g_m + C_3 L_3 g_m\right) + s \left(C_5 R_5 g_m - C_5\right)}{2 C_1 C_3 C_5 L_1 L_3 g_m s^5 + s^4 \left(C_1 C_3 C_5 L_1 R_5 g_m + C_1 C_3 C_5 L_1 + C_1 C_3 C_5 L_3\right) + s^3 \left(C_1 C_3 C_5 R_5 + C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.493 INVALID-ORDER-493 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 - C_1 C_3 C_5 L_1 L_3 s^5 - C_5 s + g_m + s^4 \left(C_1 C_3 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(-C_1 C_5 L_1 - C_3 C_5 L_3\right) + s^2 \left(C_1 L_1 g_m + C_3 L_3 g_m + C_5 L_5 g_m\right)}{s^5 \left(2 C_1 C_3 C_5 L_1 L_3 g_m + C_1 C_3 C_5 L_1 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_1 + C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.494 INVALID-ORDER-494 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 s^6 + C_1 C_3 L_1 L_3 L_5 g_m s^5 + L_5 g_m s + s^4 \left(-C_1 C_3 L_1 L_3 - C_1 C_5 L_1 L_5 - C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 L_1 L_5 g_m + C_3 L_3 L_5 g_m\right) + s^2 \left(-C_1 L_1 - C_3 L_3 - C_5 L_5\right) - 1}{2 C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + 2 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_5 + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2 C_1 C_3 L_1 L_3 g_m + C_1 C_3 L_1 L_5 g_m + 2 C_1 C_5 L_1 L_5 g_m + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_1 + C_1 C_3 L_3 + C_1 C_3 L_5 + C_1 C_5 L_5 + C_3 C_5 L_5\right) + s^2 \left(2 C_1 L_1 g_m + 2 C_3 L_3 g_m + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + C\right.}$$

10.495 INVALID-ORDER-495 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(C_1 C_3 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1 + C_3 C_5 L_3 R_5 g_m - C_3 C_5 L_3\right) + s^2 \left(C_1 L_1 g_m + C_3 L_3 g_m + C_5 L_5 g_m\right) + s \left(C_5 R_5 g_m - C_5\right)}{s^5 \left(2 C_1 C_3 C_5 L_1 L_3 g_m + C_1 C_3 C_5 L_1 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_1 R_5 g_m + C_1 C_3 C_5 L_1 + C_1 C_3 C_5 L_3 + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 C_5 R_5 + C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m + 2 C_3 C_5 L_3 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.496 INVALID-ORDER-496 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_5 s^6 - R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_5 g_m - C_1 C_3 L_1 L_3 L_5\right) + s^4 \left(-C_1 C_3 L_1 L_3 R_5 - C_1 C_5 L_1 L_5 R_5 - C_3 C_5 L_3 L_5 R_5\right) + s^3 \left(C_1 L_1 L_5 R_5 g_m - C_1 L_1 L_5 + C_3 L_3 L_5 R_5 g_m\right.}{2 C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m s^6 + 2 R_5 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_5 + C_1 C_3 C_5 L_3 L_5 R_5 + 2 C_1 C_3 L_1 L_3 L_5 g_m\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_5 R_5 g_m + C_1 C_3 L_1 L_5 + C_1 C_3 L_3 L_5 + 2 C_1 C_5 L_1 L_5 R_5 g_m + 2 C_3 C_5 L_3 L_5 R_5 g_m\right) + s^3 \left(C_1 C_3 L_1 R_5 + C_1 C_3 L_3 R_5 + C_1 C_3 L_5 R_5 + C_1 C_5\right.}$$

10.497 INVALID-ORDER-497 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 L_1 L_3 L_5 g_m s^5 + L_5 g_m s + R_5 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_5 g_m - C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_1 L_5 + C_3 C_5 L_3 L_5 R_5 g_m - C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 L_1 L_5 g_m + C_3 L_3 L_5 g_m\right) + s^2 \left(C_1\right.}{2 C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + 2 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_5 + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_5 + 2 C_1 C_3 L_1 L_3 g_m + C_1 C_3 L_1 L_5 g_m + 2 C_1 C_5 L_1 L_5 g_m + 2 C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1 + C_1 C_3 L_3 + C_1 C_3 L_5 + C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C\right.}$$

10.498 INVALID-ORDER-498 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_5s^5 - C_5R_5s + R_5g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_5g_m - C_1C_3C_5L_1L_3L_5\right) + s^4\left(C_1C_3L_1L_3R_5g_m - C_1C_3L_1L_3 + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5 + C_3C_5L_3L_5R_5g_m - C_3C_5L_3L_5\right.}{2C_1C_3C_5L_1L_3L_5g_ms^6 + 2g_m + s^5\left(2C_1C_3C_5L_1L_3R_5g_m + C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5 + C_1C_3C_5L_3L_5\right) + s^4\left(C_1C_3C_5L_1R_5 + C_1C_3C_5L_3R_5 + C_1C_3C_5L_5R_5 + 2C_1C_3L_1L_3g_m + 2C_1C_5L_1L_5g_m + 2C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_1R_5g_m + C_1C_3L_1 + C_1C_3L_3 + \right.}$$

10.499 INVALID-ORDER-499 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_1L_1L_3R_5g_m - C_1L_1L_3\right) + s\left(L_3R_5g_m - L_3\right)}{R_5g_m + s^4\left(C_1C_3L_1L_3R_5g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_3R_5 + 2C_1L_1L_3g_m\right) + s^2\left(C_1L_1R_5g_m + C_1L_1 + C_1L_3 + C_3L_3R_5g_m + C_3L_3\right) + s\left(C_1R_5 + 2L_3g_m\right) + 1}$$

10.500 INVALID-ORDER-500 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3s^4 + C_1L_1L_3g_ms^3 - C_5L_3s^2 + L_3g_ms}{C_1C_3C_5L_1L_3s^5 + g_m + s^4\left(C_1C_3L_1L_3g_m + 2C_1C_5L_1L_3g_m\right) + s^3\left(C_1C_3L_3 + C_1C_5L_1 + C_1C_5L_3 + C_3C_5L_3\right) + s^2\left(C_1L_1g_m + C_3L_3g_m + 2C_5L_3g_m\right) + s\left(C_1 + C_5\right)}$$

10.501 INVALID-ORDER-501 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_5s^4 - C_5L_3R_5s^2 + s^3\left(C_1L_1L_3R_5g_m - C_1L_1L_3\right) + s\left(L_3R_5g_m - L_3\right)}{C_1C_3C_5L_1L_3R_5s^5 + R_5g_m + s^4\left(C_1C_3L_1L_3R_5g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_5g_m\right) + s^3\left(C_1C_3L_3R_5 + C_1C_5L_1R_5 + C_1C_5L_3R_5 + 2C_1L_1L_3g_m + C_3C_5L_3R_5\right) + s^2\left(C_1L_1R_5g_m + C_1L_1 + C_1L_3 + C_3L_3R_5g_m + C_3L_3 + 2C_5L_3R_5g_m\right) + s\left(C_1R_5 + C_5R_5 + 2L_3g_m\right) +}$$

10.502 INVALID-ORDER-502 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1L_1L_3g_ms^3 + L_3g_ms + s^4\left(C_1C_5L_1L_3R_5g_m - C_1C_5L_1L_3\right) + s^2\left(C_5L_3R_5g_m - C_5L_3\right)}{g_m + s^5\left(C_1C_3C_5L_1L_3R_5g_m + C_1C_3C_5L_1L_3\right) + s^4\left(C_1C_3C_5L_3R_5 + C_1C_3L_1L_3g_m + 2C_1C_5L_1L_3g_m\right) + s^3\left(C_1C_3L_3 + C_1C_5L_1R_5g_m + C_1C_5L_1 + C_1C_5L_3 + C_3C_5L_3R_5g_m + C_3C_5L_3\right) + s^2\left(C_1C_5R_5 + C_1L_1g_m + C_3L_3g_m + 2C_5L_3g_m\right) + s\left(C_1 + C_5R_5g_m + C_5\right)}$$

10.503 INVALID-ORDER-503 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_3L_5g_ms^5 - C_1C_5L_1L_3s^4 - C_5L_3s^2 + L_3g_ms + s^3\left(C_1L_1L_3g_m + C_5L_3L_5g_m\right)}{C_1C_3C_5L_1L_3L_5g_ms^6 + g_m + s^5\left(C_1C_3C_5L_1L_3 + C_1C_3C_5L_3L_5\right) + s^4\left(C_1C_3L_1L_3g_m + 2C_1C_5L_1L_3g_m + C_1C_5L_1L_5g_m + C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_3 + C_1C_5L_1 + C_1C_5L_3 + C_1C_5L_5 + C_3C_5L_3\right) + s^2\left(C_1L_1g_m + C_3L_3g_m + 2C_5L_3g_m + C_5L_5g_m\right) + s\left(C_1 + C_5\right)}$$

10.504 INVALID-ORDER-504 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3L_5s^5 + C_1L_1L_3L_5g_ms^4 + L_3L_5g_ms^2 - L_3s + s^3\left(-C_1L_1L_3 - C_5L_3L_5\right)}{C_1C_3C_5L_1L_3L_5s^6 + s^5\left(C_1C_3L_1L_3L_5g_m + 2C_1C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3 + C_1C_3L_3L_5 + C_1C_5L_1L_5 + C_1C_5L_3L_5 + C_3C_5L_3L_5\right) + s^3\left(2C_1L_1L_3g_m + C_1L_1L_5g_m + C_3L_3L_5g_m + 2C_5L_3L_5g_m\right) + s^2\left(C_1L_1 + C_1L_3 + C_1L_5 + C_3L_3 + C_5L_5\right) + s\left(2L_3g_m + L_5g_m\right)}$$

10.505 INVALID-ORDER-505 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_3L_5g_ms^5 + L_3g_ms + s^4\left(C_1C_5L_1L_3R_5g_m - C_1C_5L_1L_3\right) + s^3\left(C_1L_1L_3g_m + C_5L_3L_5g_m\right) + s^2\left(C_5L_3R_5g_m - C_5L_3\right)}{C_1C_3C_5L_1L_3L_5g_ms^6 + g_m + s^5\left(C_1C_3C_5L_1L_3R_5g_m + C_1C_3C_5L_1L_3 + C_1C_3C_5L_3L_5\right) + s^4\left(C_1C_3C_5L_3R_5 + C_1C_3L_1L_3g_m + 2C_1C_5L_1L_3g_m + C_1C_5L_1L_5g_m + C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_3 + C_1C_5L_1R_5g_m + C_1C_5L_1 + C_1C_5L_3 + C_1C_5L_5 + C_3C_5L_3R_5g_m + C_3C_5\right.}$$

10.506 INVALID-ORDER-506 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3L_5R_5s^5 - L_3R_5s + s^4\left(C_1L_1L_3L_5R_5g_m - C_1L_1L_3L_5\right) + s^3\left(-C_1L_1L_3R_5 - C_5L_3L_5R_5\right) + s^2\left(L_3L_5R_5g_m - L_3\right.}{C_1C_3C_5L_1L_3L_5R_5s^6 + R_5 + s^5\left(C_1C_3L_1L_3L_5R_5g_m + C_1C_3L_1L_3L_5 + 2C_1C_5L_1L_3L_5R_5g_m\right) + s^4\left(C_1C_3L_1L_3R_5 + C_1C_3L_3L_5R_5 + C_1C_5L_1L_5R_5 + C_1C_5L_3L_5R_5 + 2C_1L_1L_3L_5g_m + C_3C_5L_3L_5R_5\right) + s^3\left(2C_1L_1L_3R_5g_m + C_1L_1L_5R_5g_m + C_1L_1L_5 + C_1L_3L_5 + C_3L\right.}$$

10.507 INVALID-ORDER-507 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1L_1L_3L_5g_ms^4 + L_3L_5g_ms^2 + s^5\left(C_1C_5L_1L_3L_5R_5g_m - C_1C_5L_1L_3L_5\right) + s^3\left(C_1L_1L_3R_5g_m - C_1L_1L_3 + C_5L\right.}{R_5g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_5g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_3L_5R_5 + C_1C_3L_1L_3L_5g_m + 2C_1C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_5g_m + C_1C_3L_1L_3 + C_1C_3L_3L_5 + C_1C_5L_1L_5R_5g_m + C_1C_5L_1L_5 + C_1C_5L_3L_5 + C_3C_5L_3L_5R_5g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_3R\right.}$$

10.508 INVALID-ORDER-508 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_5s^4 - C_5L_3R_5s^2 + s^5\left(C_1C_5L_1L_3L_5R_5g_m - C_1C_5L_1L_3L_5\right) + s^3\left(C_1L_1L_3R_5g_m - C}{R_5g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_5g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_3R_5 + C_1C_3C_5L_3L_5R_5 + 2C_1C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_5g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_5g_m + C_1C_5L_1L_5R_5g_m + C_1C_5L_1L_5 + C_1C_5L_3L_5 + C_3C_5L_3L_5R_5g_m + C_3C_5L_3L_5\right) + s^3\left(C_1\right.}$$

10.509 INVALID-ORDER-509 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^4\left(C_1C_3L_1L_3R_5g_m - C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 + C_3L_3R_5g_m - C_3L_3\right) + s\left(C_3R_3R_5g_m - C_3R_3\right) - 1}{2C_1C_3L_1L_3g_ms^4 + 2g_m + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1 + C_1C_3L_3\right) + s^2\left(C_1C_3R_3 + C_1C_3R_5 + 2C_1L_1g_m + 2C_3L_3g_m\right) + s\left(C_1 + 2C_3R_3g_m + C_3R_5g_m + C_3\right)}$$

10.510 INVALID-ORDER-510 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3s^5 + g_m + s^4\left(-C_1C_3C_5L_1R_3 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_1R_3g_m - C_1C_5L_1 - C_3C_5L_3\right) + s^2\left(C_1L_1g_m - C_3C_5R_3 + C_3L_3g_m\right) + s\left(C_3R_3g_m - C_5\right)}{2C_1C_3C_5L_1L_3g_ms^5 + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1 + C_1C_3C_5L_3\right) + s^3\left(C_1C_3C_5R_3 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2C_3C_5L_3g_m\right) + s^2\left(C_1C_3 + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.511 INVALID-ORDER-511 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_5s^5 + R_5g_m + s^4\left(-C_1C_3C_5L_1R_3R_5 + C_1C_3L_1L_3R_5g_m - C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3 - C_1C_5L_1R_5 - C_3C_5L_3R_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 - C_3C_5R_3R_5 + C_3L_3R_5g_m -\right.}{2C_1C_3C_5L_1L_3R_5g_ms^5 + 2g_m + s^4\left(2C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_5 + C_1C_3C_5L_3R_5 + 2C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3C_5R_3R_5 + 2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1 + C_1C_3L_3 + 2C_1C_5L_1R_5g_m + 2C_3C_5L_3R_5g_m\right) + s^2\left(C_1C_3R_3 + C_1C_3R_5 + C_1C_5R_5 + 2C\right.}$$

10.512 INVALID-ORDER-512 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^5\left(C_1C_3C_5L_1L_3R_5g_m - C_1C_3C_5L_1L_3\right) + s^4\left(C_1C_3C_5L_1R_3R_5g_m - C_1C_3C_5L_1R_3 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_3C_5L_3R_5g_m - C_3C_5L_3\right) + s^2\left(C_1L_1g_m + C_3C_5R_3R_5g_m - C_3C_5R_3 + C_3L_3g_m\right) + s\left(C_3R_3g_m + C_5R_5g_m -\right.}{2C_1C_3C_5L_1L_3g_ms^5 + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + C_1C_3C_5L_3\right) + s^3\left(C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2C_3C_5L_3g_m\right) + s^2\left(C_1C_3 + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5R_5g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.513 INVALID-ORDER-513 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5g_ms^6 + g_m + s^5\left(-C_1C_3C_5L_1L_3 + C_1C_3C_5L_1L_5R_3g_m\right) + s^4\left(-C_1C_3C_5L_1R_3 + C_1C_3L_1L_3g_m + C_1C_5L_1L_5g_m + C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_1R_3g_m - C_1C_5L_1 - C_3C_5L_3 + C_3C_5L_5R_3g_m\right) + s^2\left(C_1L_1g_m - C_3C_5R_3 + C_3L_3g_m + C_5L_5g_m\right) + s\left(C_3R_3\right.}{s^5\left(2C_1C_3C_5L_1L_3g_m + C_1C_3C_5L_1L_5g_m\right) + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1 + C_1C_3C_5L_3 + C_1C_3C_5L_5\right) + s^3\left(C_1C_3C_5R_3 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2C_3C_5L_3g_m + C_3C_5L_5g_m\right) + s^2\left(C_1C_3 + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.514 INVALID-ORDER-514 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5s^6 + s^5\left(-C_1C_3C_5L_1L_5R_3 + C_1C_3L_1L_3L_5g_m\right) + s^4\left(-C_1C_3L_1L_3 + C_1C_3L_1L_5R_3g_m - C_1C_5L_1L_5 - C_3C_5L_3L_5\right) + s^3\left(-C_1C_3L_1R_3 + C_1L_1L_5g_m - C_3C_5L_5R_3 + C_3L_3L_5g_m\right) + s^2\left(-C_1L_1 - C_3\right.}{2C_1C_3C_5L_1L_3L_5g_ms^6 + 2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5 + C_1C_3C_5L_3L_5\right) + s^4\left(C_1C_3C_5L_5R_3 + 2C_1C_3L_1L_3g_m + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m + 2C_3C_5L_3L_5g_m\right) + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1 + C_1C_3L_3 + C_1C_3L_5 + C_1C_5L_5 + 2C_3C_5L_5R_3g_m\right.}$$

10.515 INVALID-ORDER-515 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5g_ms^6 + g_m + s^5\left(C_1C_3C_5L_1L_3R_5g_m - C_1C_3C_5L_1L_3 + C_1C_3C_5L_1L_5R_3g_m\right) + s^4\left(C_1C_3C_5L_1R_3R_5g_m - C_1C_3C_5L_1R_3 + C_1C_3L_1L_3g_m + C_1C_5L_1L_5g_m + C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_1R_3g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_3C_5L_3R_5g_m - C_3C_5L_3 + C\right.}{s^5\left(2C_1C_3C_5L_1L_3g_m + C_1C_3C_5L_1L_5g_m\right) + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + C_1C_3C_5L_3 + C_1C_3C_5L_5\right) + s^3\left(C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2C_3C_5L_3g_m + C_3C_5L_5g_m\right) + s^2\left(C\right.}$$

10.516 INVALID-ORDER-516 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5R_5s^6 - R_5 + s^5\left(-C_1C_3C_5L_1L_5R_3R_5 + C_1C_3L_1L_3L_5R_5g_m - C_1C_3L_1L_3L_5\right) + s^4\left(-C_1C_3L_1L_3R_5 + C_1C_3L_1L_5R_3R_5g_m - C_1C_3L_1L_5R_3 - C_1\right.}{2C_1C_3C_5L_1L_3L_5R_5g_ms^6 + 2R_5g_m + s^5\left(2C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_5 + C_1C_3C_5L_3L_5R_5 + 2C_1C_3L_1L_3L_5g_m\right) + s^4\left(C_1C_3C_5L_5R_3R_5 + 2C_1C_3L_1L_3R_5g_m + 2C_1C_3L_1L_5R_3g_m + C_1C_3L_1L_5R_5g_m + C_1C_3L_1L_5 + C_1C_3L_3L_5 + 2C_1C_5L_1L_5R_5g_m + 2C_3C\right.}$$

10.517 INVALID-ORDER-517 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_5g_m - C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m - C_1C_3C_5L_1L_5R_3 + C_1C_3L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_5g_m - C_1C_3L_1L_3 + C_1C_3L_1L_5R_3g_m + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5 + C_3C_5L_3L_5R_5g_m - C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_1R_3\right.}{2C_1C_3C_5L_1L_3L_5g_ms^6 + 2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5 + C_1C_3C_5L_3L_5\right) + s^4\left(C_1C_3C_5L_5R_3 + C_1C_3C_5L_5R_5 + 2C_1C_3L_1L_3g_m + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m + 2C_3C_5L_3L_5g_m\right) + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C\right.}$$

10.518 INVALID-ORDER-518 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_1 L_5 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_5 R_3\right) + s^4 \left(-C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_3 L_1 L_3 R_5 g_m - C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_5 \right.}{2C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + 2g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_5 g_m + 2C_1 C_3 C_5 L_1 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_5 + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2C_1 C_3 C_5 L_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_5 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 C_5 L_5 R_3 + C_1 C_3 C_5 L_5 R_5 + 2C_1 C_3 L_1 L_3 g_m + 2C_1 C_5 L_1 L_5 g_m\right.}$$

10.519 INVALID-ORDER-519 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_3 R_3 R_5 g_m - C_1 L_1 L_3 R_3\right) + s \left(L_3 R_3 R_5 g_m - L_3 R_3\right)}{R_3 R_5 g_m + R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_3\right) + s^3 \left(C_1 C_3 L_3 R_3 R_5 + 2C_1 L_1 L_3 R_3 g_m + C_1 L_1 L_3 R_5 g_m + C_1 L_1 L_3\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m + C_1 L_1 R_3 + C_1 L_3 R_3 + C_1 L_3 R_5 + C_3 L_3 R_3 R_5 g_m + C_3 L_3 R_3\right) + s \left(C_1 R_3 R_5 + 2L_3 R_3 g_m + L_3 R_5 g_m + L_3\right)}$$

10.520 INVALID-ORDER-520 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 R_3 s^4 + C_1 L_1 L_3 R_3 g_m s^3 - C_5 L_3 R_3 s^2 + L_3 R_3 g_m s}{C_1 C_3 C_5 L_1 L_3 R_3 s^5 + R_3 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_3 g_m + 2C_1 C_5 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_5 L_1 R_3 + C_1 C_5 L_3 R_3 + C_1 L_1 L_3 g_m + C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 L_1 R_3 g_m + C_1 L_3 + C_3 L_3 R_3 g_m + 2C_5 L_3 R_3 g_m + C_5 L_3\right) + s \left(C_1 R_3 + C_5 R_3 + L_3 g_m\right)}$$

10.521 INVALID-ORDER-521 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 R_3 R_5 s^4 - C_5 L_3 R_3 R_5 s^2 + s^3 \left(C_1 L_1 L_3 R_3 R_5 g_m - C_1 L_1 L_3 R_3\right) + s \left(L_3 R_3 R_5 g_m - L_3 R_3\right)}{C_1 C_3 C_5 L_1 L_3 R_3 R_5 s^5 + R_3 R_5 g_m + R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_3 + 2C_1 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_3 R_3 R_5 + C_1 C_5 L_1 R_3 R_5 + C_1 C_5 L_3 R_3 R_5 + 2C_1 L_1 L_3 R_3 g_m + C_1 L_1 L_3 R_5 g_m + C_1 L_1 L_3 + C_3 C_5 L_3 R_3 R_5\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m + C_1\right.}$$

10.522 INVALID-ORDER-522 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 L_1 L_3 R_3 g_m s^3 + L_3 R_3 g_m s + s^4 \left(C_1 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_5 L_1 L_3 R_3\right) + s^2 \left(C_5 L_3 R_3 R_5 g_m - C_5 L_3 R_3\right)}{R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_3 L_1 L_3 R_3 g_m + 2C_1 C_5 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 R_5 g_m + C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_5 L_1 R_3 R_5 g_m + C_1 C_5 L_1 R_3 + C_1 C_5 L_3 R_3 + C_1 C_5 L_3 R_5 + C_1 L_1 L_3 g_m + C_3 C_5 L_3 R_3 R_5 g_m\right.}$$

10.523 INVALID-ORDER-523 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_3 L_5 R_3 g_m s^5 - C_1 C_5 L_1 L_3 R_3 s^4 - C_5 L_3 R_3 s^2 + L_3 R_3 g_m s + s^3 \left(C_1 L_1 L_3 R_3 g_m + C_5 L_3 L_5 R_3 g_m\right)}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 g_m + 2C_1 C_5 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_5 L_1 R_3 + C_1 C_5 L_3 R_3 + C_1 C_5 L_5 R_3\right.}$$

10.524 INVALID-ORDER-524 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 L_5 R_3 s^5 + C_1 L_1 L_3 L_5 R_3 g_m s^4 + L_3 L_5 R_3 g_m s^2 - L_3 R_3 s + s^3 \left(-C_1 L_1 L_3 R_3 - C_5 L_3 L_5 R_3\right)}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 s^6 + R_3 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_3 g_m + 2C_1 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_3 L_5 R_3 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_3 L_5 R_3 + C_1 L_1 L_3 L_5 g_m + C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(2C_1 L_1 L_3 R_3 g_m + C_1 L_1 L_3 + C_1 L_1 L_5 R_3 g_m + C_1 L_3 L_5 + C_3 L_3\right.}$$

10.525 INVALID-ORDER-525 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_3 L_5 R_3 g_m s^5 + L_3 R_3 g_m s + s^4 \left(C_1 C_5 L_1 L_3\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_3 L_1 L_3 R_3 g_m + 2C_1 C_5 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 R_5 g_m + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R\right.}$$

10.526 INVALID-ORDER-526 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 L_5 R_3 R_5 s^5 - L_3 R_3 R_5}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^6 + R_3 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 L_1 L_3 L_5 R_3 + 2C_1 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 + C_1 C_3 L_3 L_5 R_3 R_5 + C_1 C_5 L_1 L_5 R_3 R_5 + C_1 C_5 L_3 L_5 R_3 R_5 + 2C_1 L_1 L_3 L_5 R_3 g_m + C_1 L_1 L_3 L_5 R_5 g_m + C_1 L_1 L_3 L_5 + C\right.}$$

10.527 INVALID-ORDER-527 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{}{R_3 R_5 g_m + R_3 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_3 R_5 + C_1 C_3 L_1 L_3 L_5 R_3 g_m + 2C_1 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_3 L_5 R_3 + C_1 C_5 L_1 L_5 R_3 R_5 g_m + C\right.}$$

10.528 INVALID-ORDER-528 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{}{R_3 R_5 g_m + R_3 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_3 R_5 + 2 C_1 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_3 + 2 C_1 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_5 L_1 L_3 R_5 + C\right.}$$

10.529 INVALID-ORDER-529 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3\right) + s^3 \left(C_1 L_1 L_3 R_5 g_m - C_1 L_1 L_3\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right) + s \left(L_3 R_5 g_m - L_3\right)}{2 R_3 g_m + R_5 g_m + s^4 \left(2 C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + 2 C_1 L_1 L_3 g_m\right) + s^2 \left(2 C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1 + C_1 L_3 + 2 C_3 L_3 R_3 g_m + C_3 L_3 R_5 g_m + C_3 L_3\right) + s \left(C_1 R_3 + C_1 R_5 + 2 L_3 g_m\right) + 1}$$

10.530 INVALID-ORDER-530 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_3 s^5 + R_3 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_3 g_m - C_1 C_5 L_1 L_3\right) + s^3 \left(-C_1 C_5 L_1 R_3 + C_1 L_1 L_3 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 L_1 R_3 g_m + C_3 L_3 R_3 g_m - C_5 L_3\right) + s \left(-C_5 R_3 + L_3 g_m\right)}{g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 L_1 L_3 g_m + 2 C_1 C_5 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 L_3 + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 + C_1 C_5 L_3 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_5 R_3 + C_1 L_1 g_m + C_3 L_3 g_m + 2 C_5 L_3 g_m\right) + s \left(C_1 + 2 C_5 R_3 g_m + C_5\right)}$$

10.531 INVALID-ORDER-531 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_3 R_5 s^5 + R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3 - C_1 C_5 L_1 L_3 R_5\right) + s^3 \left(-C_1 C_5 L_1 R_3 R_5 + C_1 L_1 L_3 R_5 g_m - C_1 L_1 L_3 - C_3 C_5 L_3 R_3 R_5\right.}{2 R_3 g_m + R_5 g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 R_5 + 2 C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3 + 2 C_1 C_5 L_1 L_3 R_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + 2 C_1 C_5 L_1 R_3 R_5 g_m + C_1 C_5 L_1 R_5 + C_1 C_5 L_3 R_5 + 2 C_1 L_1 L_3 g_m + 2 C\right.}$$

10.532 INVALID-ORDER-532 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_3\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 R_5 g_m - C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3 + C_1 L_1 L_3 g_m + C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 L_1 R_3 g_m + C_3 L_3 R_3 g_m\right.}{g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 L_1 L_3 g_m + 2 C_1 C_5 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 L_3 + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1 + C_1 C_5 L_3 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2\right.}$$

10.533 INVALID-ORDER-533 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 g_m - C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(-C_1 C_5 L_1 R_3 + C_1 L_1 L_3 g_m - C_3 C_5 L_3 R_3 + C_5 L_3 L_5 g_m\right) + s^2 \left(C_1 L_1 R_3\right.}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 L_1 L_3 g_m + 2 C_1 C_5 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 + C_1 C_5 L_3 + C_1 C_5 L_5 + 2 C_3 C_5 L_3 R_3 g_m + C\right.}$$

10.534 INVALID-ORDER-534 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_3 s^6 - R_3 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_3 g_m - C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(-C_1 C_3 L_1 L_3 R_3 - C_1 C_5 L_1 L_5 R_3 + C_1 L_1 L_3 L_5 g_m - C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(-C_1 L_1 L_3 + C_1 L_1\right.}{2 R_3 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 L_1 L_3 L_5 g_m + 2 C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_3 L_5 + 2 C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_1 L_5 + C_1 C_5 L_3 L_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1\right.}$$

10.535 INVALID-ORDER-535 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 R_5 g_m - C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3 +\right.}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 L_1 L_3 g_m + 2 C_1 C_5 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 R_5 g_m\right.}$$

10.536 INVALID-ORDER-536 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^6 - R_3 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_3 R_5 g_m - C_1 C_3 L_1 L_3 L_5 R_3 - C_1 C_5 L_1 L_3\right.}{2 R_3 R_5 g_m + R_5 + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_3 R_5 + 2 C_1 C_3 L_1 L_3 L_5 R_3 g_m + C_1 C_3 L_1 L_3 L_5 R_5 g_m + C_1 C_3 L_1 L_3 L_5 + 2 C_1 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_5 + C_1 C_3 L_3 L_5 R_3 + C_1 C_3 L_3 L_5 R_5 + 2 C\right.}$$

10.537 INVALID-ORDER-537 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_3 g_m + C_1 C_5 L_1 L_3 L_5 R_5 g_m - C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3 + C_1 C\right.}{2 R_3 g_m + R_5 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_5 + C_1 C_3 L_1 L_3 L_5 g_m + 2 C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_3 L_5 + 2 C_1 C_5 L_1 L_5 R_3 g_m\right.}$$

10.538 INVALID-ORDER-538 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_3 R_5 + C_1 C_5 L_1 L_3 L_5 \right.}{2 R_3 g_m + R_5 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5 + 2 C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_3 R_3 R_5 + 2 C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + \right.}$$

10.539 INVALID-ORDER-539 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right)}{2 R_3 g_m + R_5 g_m + s^4 \left(2 C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 g_m + C_1 C_3 L_1 R_3 + C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5\right) + s^2 \left(C_1 C_3 R_3 R_5 + 2 C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1 + 2 C_3 L_3 R_3 g_m + C_3 L_3 R_5 g_m + C_3 L_3\right) + s \left(C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m\right.}$$

10.540 INVALID-ORDER-540 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_3 s^5 + C_1 C_3 L_1 L_3 R_3 g_m s^4 - C_5 R_3 s + R_3 g_m + s^3 \left(-C_1 C_5 L_1 R_3 - C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 L_1 R_3 g_m + C_3 L_3 R_3 g_m\right)}{g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 L_1 R_3 g_m + C_1 C_3 L_3 + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 + 2 C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_3 R_3 + C_1 C_5 R_3 + C_1 L_1 g_m + C_3 C_5 R_3 + C_3 L_3 g_m\right) + s \left(C_1 + C\right.}$$

10.541 INVALID-ORDER-541 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_3 R_5 s^5 - C_5 R_3 R_5 s + R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3\right) + s^3 \left(-C_1 C_5 L_1 R_3 R_5\right.}{2 R_3 g_m + R_5 g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_3 C_5 L_3 R_3 R_5 + 2 C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 g_m + C_1 C_3 L_1 R_3 + C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + 2 C_1 C_5 L_1 R_3 R_5 g_m + C_1 C_5 L_1 R_5 + \right.}$$

10.542 INVALID-ORDER-542 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 L_1 L_3 R_3 g_m s^4 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_3\right) + s^3 \left(C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right.}{g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 C_5 R_3 R_5 + C_1 C_3 L_1 R_3 g_m + C_1 C_3 L_3 + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1 + 2 C_3 C\right.}$$

10.543 INVALID-ORDER-543 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 - C_1 C_3 C_5 L_1 L_3 R_3 s^5 - C_5 R_3 s + R_3 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(-C_1 C_5 L_1 R_3 - \right.}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5 R_3 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_5 R_3 + C_1 C_3 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_1 R_3 g_m + C_1 C_3 L_3 + 2 C_1 C_5 L_1 R_3 g_m + \right.}$$

10.544 INVALID-ORDER-544 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_3 s^6 + C_1 C_3 L_1 L_3 L_5 R_3 g_m s^5 + L_5 R_3 g_m s - R_3 + s^4 \left(-C_1 C_3 L_1 L_3 R_3 - C_1 C_5 L_1 L_5 R_3 - C_3 C_5 L_3 L_5 R\right.}{2 R_3 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 L_1 L_3 L_5 g_m\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 R_3 g_m + C_1 C_3 L_3 L_5 + 2 C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_1 L_5 + 2 C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left.\right.}$$

10.545 INVALID-ORDER-545 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_3\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_5\right.}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5 R_3 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 C_5 L_5 R_3 + C_1 C_3 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C\right.}$$

10.546 INVALID-ORDER-546 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^6 - R_3 R_5}{2 R_3 R_5 g_m + R_5 + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_3 R_5 + 2 C_1 C_3 L_1 L_3 L_5 R_3 g_m + C_1 C_3 L_1 L_3 L_5 R_5 g_m + C_1 C_3 L_1 L_3 L_5\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_5 + C_1 C_3 L_1 L_5 R_3 R_5 g_m + C_1 C_3 L_1 L_5 R_3 - \right.}$$

10.547 INVALID-ORDER-547 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 L_1 L_3 L_5 R_3 g_m s^5 + L_5 R_3 g_m s + R_3 R_5 g_m}{2R_3 g_m + R_5 g_m + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5 + C_1 C_3 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_5 R_3 R_5 + 2C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1\right.}$$

10.548 INVALID-ORDER-548 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C}{2R_3 g_m + R_5 g_m + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_3 C_5 L_3 R_3 R_5\right.}$$

10.549 INVALID-ORDER-549 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_1 C_5 L_1 R_3 s^3 + s^2 \left(C_1 L_1 + 2C_5 L_1 R_3 g_m + C_5 L_1\right) + s\left(C_5 R_3 + L_1 g_m\right) + 1}$$

10.550 INVALID-ORDER-550 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 R_5 s^2 + s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{C_1 C_5 L_1 R_3 R_5 s^3 + R_3 + R_5 + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_5 + 2C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5\right) + s\left(C_5 R_3 R_5 + 2L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

10.551 INVALID-ORDER-551 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_3 g_m s + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{s^3 \left(C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 L_1 + 2C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1\right) + s\left(C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

10.552 INVALID-ORDER-552 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_3 g_m s^3 - C_5 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_1 C_5 L_1 L_5 s^4 + s^3 \left(C_1 C_5 L_1 R_3 + C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + 2C_5 L_1 R_3 g_m + C_5 L_1 + C_5 L_5\right) + s\left(C_5 R_3 + L_1 g_m\right) + 1}$$

10.553 INVALID-ORDER-553 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_3 s^3 + L_1 L_5 R_3 g_m s^2 - L_1 R_3 s}{C_1 C_5 L_1 L_5 R_3 s^4 + R_3 + s^3 \left(C_1 L_1 L_5 + 2C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_3 + C_5 L_5 R_3 + L_1 L_5 g_m\right) + s\left(2L_1 R_3 g_m + L_1 + L_5\right)}$$

10.554 INVALID-ORDER-554 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_3 g_m s^3 + L_1 R_3 g_m s + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{C_1 C_5 L_1 L_5 s^4 + s^3 \left(C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5 + C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + 2C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1 + C_5 L_5\right) + s\left(C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

10.555 INVALID-ORDER-555 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_3 R_5 s^3 - L_1 R_3 R_5 s + s^2 \left(L_1 L_5 R_3 R_5 g_m - L_1 L_5 R_3\right)}{C_1 C_5 L_1 L_5 R_3 R_5 s^4 + R_3 R_5 + s^3 \left(C_1 L_1 L_5 R_3 + C_1 L_1 L_5 R_5 + 2C_5 L_1 L_5 R_3 R_5 g_m + C_5 L_1 L_5 R_5\right) + s^2 \left(C_1 L_1 R_3 R_5 + C_5 L_5 R_3 R_5 + 2L_1 L_5 R_3 g_m + L_1 L_5 R_5 g_m + L_1 L_5\right) + s\left(2L_1 R_3 R_5 g_m + L_1 R_5 + L_5 R_3 + L_5 R_5\right)}$$

10.556 INVALID-ORDER-556 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_1 L_5 R_3 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^4 \left(C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5\right) + s^3 \left(C_1 L_1 L_5 + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_5 + C_5 L_5 R_3 + C_5 L_5 R_5 + L_1 L_5 g_m\right) + s \left(2 L_1 R_3 g_m + L_1 R_5 g_m + L_1 + L_5\right)}$$

10.557 INVALID-ORDER-557 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 R_5 s^2 + s^3 \left(C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^4 \left(C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5\right) + s^3 \left(C_1 C_5 L_1 R_3 R_5 + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_5 + 2 C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5 + C_5 L_5 R_3 + C_5 L_5 R_5\right) + s \left(C_5 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

10.558 INVALID-ORDER-558 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s \left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 L_1 R_5 s^3 + s^2 \left(C_1 L_1 + C_3 L_1 R_5 g_m + C_3 L_1\right) + s \left(C_3 R_5 + 2 L_1 g_m\right) + 1}$$

10.559 INVALID-ORDER-559 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_5 s^2 + s \left(L_1 R_5 g_m - L_1\right)}{s^3 \left(C_1 C_3 L_1 R_5 + C_1 C_5 L_1 R_5 + C_3 C_5 L_1 R_5\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_5 g_m + C_3 L_1 + 2 C_5 L_1 R_5 g_m\right) + s \left(C_3 R_5 + C_5 R_5 + 2 L_1 g_m\right) + 1}$$

10.560 INVALID-ORDER-560 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 g_m + s \left(C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 R_5 s^3 + C_3 + C_5 + s^2 \left(C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1\right) + s \left(C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.561 INVALID-ORDER-561 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 g_m s^2 - C_5 L_1 s + L_1 g_m}{C_1 C_3 C_5 L_1 L_5 s^4 + C_3 C_5 L_1 L_5 g_m s^3 + C_3 + C_5 + s^2 \left(C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1 + C_3 C_5 L_5\right) + s \left(C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.562 INVALID-ORDER-562 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 s^3 + L_1 L_5 g_m s^2 - L_1 s}{2 L_1 g_m s + s^4 \left(C_1 C_3 L_1 L_5 + C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_5\right) + s^3 \left(C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 + C_3 L_5 + C_5 L_5\right) + 1}$$

10.563 INVALID-ORDER-563 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 g_m s^2 + L_1 g_m + s \left(C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 L_5 s^4 + C_3 + C_5 + s^3 \left(C_1 C_3 C_5 L_1 R_5 + C_3 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_5\right) + s \left(C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.564 INVALID-ORDER-564 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_5 s^3 - L_1 R_5 s + s^2 \left(L_1 L_5 R_5 g_m - L_1 L_5\right)}{R_5 + s^4 \left(C_1 C_3 L_1 L_5 R_5 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_1 L_5 R_5\right) + s^3 \left(C_1 L_1 L_5 + C_3 L_1 L_5 R_5 g_m + C_3 L_1 L_5 + 2 C_5 L_1 L_5 R_5 g_m\right) + s^2 \left(C_1 L_1 R_5 + C_3 L_1 R_5 + C_3 L_5 R_5 + C_5 L_5 R_5 + 2 L_1 L_5 g_m\right) + s \left(2 L_1 R_5 g_m + L_5\right)}$$

10.565 INVALID-ORDER-565 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_1 L_5 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s \left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 C_5 L_1 L_5 R_5 s^5 + s^4 \left(C_1 C_3 L_1 L_5 + C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5\right) + s^3 \left(C_1 C_3 L_1 R_5 + C_3 C_5 L_5 R_5 + C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_5 + C_5 L_5\right) + s \left(C_3 R_5 + 2 L_1 g_m\right) + 1}$$

10.566 INVALID-ORDER-566 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_5 s^2 + s^3\left(C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s\left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 C_5 L_1 L_5 R_5 s^5 + s^4\left(C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5\right) + s^3\left(C_1 C_3 L_1 R_5 + C_1 C_5 L_1 R_5 + C_3 C_5 L_1 R_5 + C_3 C_5 L_5 R_5 + 2 C_5 L_1 L_5 g_m\right) + s^2\left(C_1 L_1 + C_3 L_1 R_5 g_m + C_3 L_1 + 2 C_5 L_1 R_5 g_m + C_5 L_5\right) + s\left(C_3 R_5 + C_5 R_5 + 2 L_1 g_m\right) + 1}$$

10.567 INVALID-ORDER-567 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{C_1 C_3 L_1 R_3 R_5 s^3 + R_3 + R_5 + s^2\left(C_1 L_1 R_3 + C_1 L_1 R_5 + C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3\right) + s\left(C_3 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

10.568 INVALID-ORDER-568 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 s^2 + L_1 R_3 g_m s}{s^3\left(C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 + C_3 C_5 L_1 R_3\right) + s^2\left(C_1 L_1 + C_3 L_1 R_3 g_m + 2 C_5 L_1 R_3 g_m + C_5 L_1\right) + s\left(C_3 R_3 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.569 INVALID-ORDER-569 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 R_5 s^2 + s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^3\left(C_1 C_3 L_1 R_3 R_5 + C_1 C_5 L_1 R_3 R_5 + C_3 C_5 L_1 R_3 R_5\right) + s^2\left(C_1 L_1 R_3 + C_1 L_1 R_5 + C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3 + 2 C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5\right) + s\left(C_3 R_3 R_5 + C_5 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

10.570 INVALID-ORDER-570 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_3 g_m s + s^2\left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{C_1 C_3 C_5 L_1 R_3 R_5 s^4 + s^3\left(C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5 + C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_3\right) + s^2\left(C_1 L_1 + C_3 C_5 R_3 R_5 + C_3 L_1 R_3 g_m + 2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1\right) + s\left(C_3 R_3 + C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

10.571 INVALID-ORDER-571 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_3 g_m s^3 - C_5 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_1 C_3 C_5 L_1 L_5 R_3 s^5 + s^4\left(C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_5 R_3 g_m\right) + s^3\left(C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 + C_3 C_5 L_1 R_3 + C_3 C_5 L_5 R_3 + C_5 L_1 L_5 g_m\right) + s^2\left(C_1 L_1 + C_3 L_1 R_3 g_m + 2 C_5 L_1 R_3 g_m + C_5 L_1 + C_5 L_5\right) + s\left(C_3 R_3 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.572 INVALID-ORDER-572 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_3 s^3 + L_1 L_5 R_3 g_m s^2 - L_1 R_3 s}{R_3 + s^4\left(C_1 C_3 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_3 + C_3 C_5 L_1 L_5 R_3\right) + s^3\left(C_1 L_1 L_5 + C_3 L_1 L_5 R_3 g_m + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5\right) + s^2\left(C_1 L_1 R_3 + C_3 L_1 R_3 + C_3 L_5 R_3 + C_5 L_5 R_3 + L_1 L_5 g_m\right) + s\left(2 L_1 R_3 g_m + L_1 + L_5\right)}$$

10.573 INVALID-ORDER-573 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_3 g_m s^3 + L_1 R_3 g_m s + s^2\left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{C_1 C_3 C_5 L_1 L_5 R_3 s^5 + s^4\left(C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_5 R_3 g_m\right) + s^3\left(C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5 + C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_3 + C_3 C_5 L_5 R_3 + C_5 L_1 L_5 g_m\right) + s^2\left(C_1 L_1 + C_3 C_5 R_3 R_5 + C_3 L_1 R_3 g_m + 2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1 + C\right.$$

10.574 INVALID-ORDER-574 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_3 R_5 s^3 - L_1 R_3 R_5 s + s^2\left(L_1 L_5 R_3 R_5 g_m - L_1 L_5 R_3\right)}{R_3 R_5 + s^4\left(C_1 C_3 L_1 L_5 R_3 R_5 + C_1 C_5 L_1 L_5 R_3 R_5 + C_3 C_5 L_1 L_5 R_3 R_5\right) + s^3\left(C_1 L_1 L_5 R_3 + C_1 L_1 L_5 R_5 + C_3 L_1 L_5 R_3 R_5 g_m + C_3 L_1 L_5 R_3 + 2 C_5 L_1 L_5 R_3 R_5 g_m + C_5 L_1 L_5 R_5\right) + s^2\left(C_1 L_1 R_3 R_5 + C_3 L_1 R_3 R_5 + C_3 L_5 R_3 R_5 + C_5 L_5 R_3 R_5 + 2 L_1 L_5 R_3 g_m + L_1 L_5 R_5 g_m + L_1 L_5\right.$$

10.575 INVALID-ORDER-575 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_1 L_5 R_3 g_m s^2 + s^3\left(C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3\right) + s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{C_1 C_3 C_5 L_1 L_5 R_3 R_5 s^5 + R_3 + R_5 + s^4\left(C_1 C_3 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_3\right) + s^3\left(C_1 C_3 L_1 R_3 R_5 + C_1 L_1 L_5 + C_3 C_5 L_5 R_3 R_5 + C_3 L_1 L_5 R_3 g_m + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5\right) + s^2\left(C_1 L_1 R_3 + C_1 L_1 R_5 +\right.$$

10.576 INVALID-ORDER-576 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_3 R_5 s^2 + s^3\left(C_5 L_1 L_5 R_3 R_5 g_m - C_5 L_1 L_5 R_3\right) + s\left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{C_1 C_3 C_5 L_1 L_5 R_3 R_5 s^5 + R_3 + R_5 + s^4\left(C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_3\right) + s^3\left(C_1 C_3 L_1 R_3 R_5 + C_1 C_5 L_1 R_3 R_5 + C_3 C_5 L_1 R_3 R_5 + C_3 C_5 L_5 R_3 R_5 + 2C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_1 L_5\right) + s^2\left(C_1 L_1 R_3 + C_1 L_1 R_5 + C_3 L_1 R_3 R\right.}$$

10.577 INVALID-ORDER-577 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2\left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3\right) + s\left(L_1 R_5 g_m - L_1\right)}{s^3\left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5\right) + s^2\left(C_1 L_1 + 2C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1\right) + s\left(C_3 R_3 + C_3 R_5 + 2L_1 g_m\right) + 1}$$

10.578 INVALID-ORDER-578 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 R_3 s^2 + L_1 g_m + s\left(C_3 L_1 R_3 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 R_3 s^3 + C_3 + C_5 + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + 2C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1\right) + s\left(C_3 C_5 R_3 + C_3 L_1 g_m + 2C_5 L_1 g_m\right)}$$

10.579 INVALID-ORDER-579 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 R_3 R_5 s^3 + s^2\left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3 - C_5 L_1 R_5\right) + s\left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 C_5 L_1 R_3 R_5 s^4 + s^3\left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5 + C_1 C_5 L_1 R_5 + 2C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_5\right) + s^2\left(C_1 L_1 + C_3 C_5 R_3 R_5 + 2C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1 + 2C_5 L_1 R_5 g_m\right) + s\left(C_3 R_3 + C_3 R_5 + C_5 R_5 + 2L_1 g_m\right) + 1}$$

10.580 INVALID-ORDER-580 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 g_m + s^2\left(C_3 C_5 L_1 R_3 R_5 g_m - C_3 C_5 L_1 R_3\right) + s\left(C_3 L_1 R_3 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_3 + C_5 + s^3\left(C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_1 R_5\right) + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + 2C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1\right) + s\left(C_3 C_5 R_3 + C_3 C_5 R_5 + C_3 L_1 g_m + 2C_5 L_1 g_m\right)}$$

10.581 INVALID-ORDER-581 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_5 R_3 g_m s^3 + L_1 g_m + s^2\left(-C_3 C_5 L_1 R_3 + C_5 L_1 L_5 g_m\right) + s\left(C_3 L_1 R_3 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 L_5 s^4 + C_3 + C_5 + s^3\left(C_1 C_3 C_5 L_1 R_3 + C_3 C_5 L_1 L_5 g_m\right) + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + 2C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 + C_3 C_5 L_5\right) + s\left(C_3 C_5 R_3 + C_3 L_1 g_m + 2C_5 L_1 g_m\right)}$$

10.582 INVALID-ORDER-582 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_5 R_3 s^4 - L_1 s + s^3\left(C_3 L_1 L_5 R_3 g_m - C_5 L_1 L_5\right) + s^2\left(-C_3 L_1 R_3 + L_1 L_5 g_m\right)}{C_1 C_3 C_5 L_1 L_5 R_3 s^5 + s^4\left(C_1 C_3 L_1 L_5 + C_1 C_5 L_1 L_5 + 2C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5\right) + s^3\left(C_1 C_3 L_1 R_3 + C_3 C_5 L_5 R_3 + C_3 L_1 L_5 g_m + 2C_5 L_1 L_5 g_m\right) + s^2\left(C_1 L_1 + 2C_3 L_1 R_3 g_m + C_3 L_1 + C_3 L_5 + C_5 L_5\right) + s\left(C_3 R_3 + 2L_1 g_m\right) + 1}$$

10.583 INVALID-ORDER-583 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_5 R_3 g_m s^3 + L_1 g_m + s^2\left(C_3 C_5 L_1 R_3 R_5 g_m - C_3 C_5 L_1 R_3 + C_5 L_1 L_5 g_m\right) + s\left(C_3 L_1 R_3 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 L_5 s^4 + C_3 + C_5 + s^3\left(C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_1 R_5 + C_3 C_5 L_1 L_5 g_m\right) + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + 2C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_5\right) + s\left(C_3 C_5 R_3 + C_3 C_5 R_5 + C_3 L_1 g_m + 2C_5 L_1 g_m\right)}$$

10.584 INVALID-ORDER-584 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_5 R_3 R_5 s^4 - L_1 R_5 s + s^3\left(C_3 L_1 L_5 R_3 R_5 g_m - C_3 L_1 L_5 R_3 - C_5 L_1 L_5 R_5\right) + s^2\left(-C_3 L_1 R_3 R_5 + L_1 L_5 R_5 g_m - L_1 L_5\right)}{C_1 C_3 C_5 L_1 L_5 R_3 R_5 s^5 + R_5 + s^4\left(C_1 C_3 L_1 L_5 R_3 + C_1 C_3 L_1 L_5 R_5 + C_1 C_5 L_1 L_5 R_5 + 2C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_5\right) + s^3\left(C_1 C_3 L_1 R_3 R_5 + C_1 L_1 L_5 + C_3 C_5 L_5 R_3 R_5 + 2C_3 L_1 L_5 R_3 g_m + C_3 L_1 L_5 R_5 g_m + C_3 L_1 L_5 + 2C_5 L_1 L_5 R_5 g_m\right) + s^2\left(C_1 L_1 R_5 + 2C_3 L_1 R_3 R_5 g_m\right.}$$

10.585 INVALID-ORDER-585 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{s^4\left(C_3 C_5 L_1 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_5 R_3\right) + s^3\left(C_3 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2\left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3 + L_1 L_5 g_m\right) + s\left(L_1 R_5 g_m - L_1\right)}{s^5\left(C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_1 L_5 R_5\right) + s^4\left(C_1 C_3 L_1 L_5 + C_1 C_5 L_1 L_5 + 2C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5\right) + s^3\left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5 + C_3 C_5 L_5 R_3 + C_3 C_5 L_5 R_5 + C_3 L_1 L_5 g_m + 2C_5 L_1 L_5 g_m\right) + s^2\left(C_1 L_1 + 2C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1\right.}$$

10.586 INVALID-ORDER-586 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{s^4 \left(C_3 C_5 L_1 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_5 R_3\right) + s^3 \left(-C_3 C_5 L_1 R_3 R_5 + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3 - C_5 L_1 R_5\right) + s \left(L_1 R_5 g_m -}{s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_1 L_5 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_5 L_1 L_5 + 2 C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5\right) + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5 + C_1 C_5 L_1 R_5 + 2 C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_5 + C_3 C_5 L_5 R_3 + C_3 C_5 L_5 R_5 + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1}$$

10.587 INVALID-ORDER-587 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3\right) + s \left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 L_1 L_3 s^4 + s^3 \left(C_1 C_3 L_1 R_5 + 2 C_3 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_3\right) + s \left(C_3 R_5 + 2 L_1 g_m\right) + 1}$$

10.588 INVALID-ORDER-588 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 s^3 + C_3 L_1 L_3 g_m s^2 - C_5 L_1 s + L_1 g_m}{C_1 C_3 C_5 L_1 L_3 s^4 + 2 C_3 C_5 L_1 L_3 g_m s^3 + C_3 + C_5 + s^2 \left(C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1 + C_3 C_5 L_3\right) + s \left(C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.589 INVALID-ORDER-589 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_5 s^4 - C_5 L_1 R_5 s^2 + s^3 \left(C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3\right) + s \left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 C_5 L_1 L_3 R_5 s^5 + s^4 \left(C_1 C_3 L_1 L_3 + 2 C_3 C_5 L_1 L_3 R_5 g_m\right) + s^3 \left(C_1 C_3 L_1 R_5 + C_1 C_5 L_1 R_5 + C_3 C_5 L_1 R_5 + C_3 C_5 L_3 R_5 + 2 C_3 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_3 + 2 C_5 L_1 R_5 g_m\right) + s \left(C_3 R_5 + C_5 R_5 + 2 L_1 g_m\right) + 1}$$

10.590 INVALID-ORDER-590 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 L_1 L_3 g_m s^2 + L_1 g_m + s^3 \left(C_3 C_5 L_1 L_3 R_5 g_m - C_3 C_5 L_1 L_3\right) + s \left(C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 L_3 s^4 + C_3 + C_5 + s^3 \left(C_1 C_3 C_5 L_1 R_5 + 2 C_3 C_5 L_1 L_3 g_m\right) + s^2 \left(C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_3\right) + s \left(C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.591 INVALID-ORDER-591 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 g_m s^4 - C_3 C_5 L_1 L_3 s^3 - C_5 L_1 s + L_1 g_m + s^2 \left(C_3 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right)}{C_3 + C_5 + s^4 \left(C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5\right) + s^3 \left(2 C_3 C_5 L_1 L_3 g_m + C_3 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1 + C_3 C_5 L_3 + C_3 C_5 L_5\right) + s \left(C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.592 INVALID-ORDER-592 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 s^5 + C_3 L_1 L_3 L_5 g_m s^4 + L_1 L_5 g_m s^2 - L_1 s + s^3 \left(-C_3 L_1 L_3 - C_5 L_1 L_5\right)}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + 2 C_3 C_5 L_1 L_3 L_5 g_m s^5 + 2 L_1 g_m s + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 + C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_5 + C_3 C_5 L_3 L_5\right) + s^3 \left(2 C_3 L_1 L_3 g_m + C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 + C_3 L_3 + C_3 L_5 + C_5 L_5\right) + 1}$$

10.593 INVALID-ORDER-593 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 g_m s^4 + L_1 g_m + s^3 \left(C_3 C_5 L_1 L_3 R_5 g_m - C_3 C_5 L_1 L_3\right) + s^2 \left(C_3 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s \left(C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_3 + C_5 + s^4 \left(C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5\right) + s^3 \left(C_1 C_3 C_5 L_1 R_5 + 2 C_3 C_5 L_1 L_3 g_m + C_3 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 C_3 L_1 + C_1 C_5 L_1 + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_3 + C_3 C_5 L_5\right) + s \left(C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.594 INVALID-ORDER-594 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_5 s^5 - L_1 R_5 s + s^4 \left(C_3 L_1 L_3 L_5 R_5 g_m - C_3 L_1 L_3 L_5\right) + s^3 \left(-C_3 L_1 L_3 R_5 - C_5 L_1 L_5 R_5\right) + s^2 \left(L_1 L_5 R_5 g_m - L_1 L_5\right)}{C_1 C_3 C_5 L_1 L_3 L_5 R_5 s^6 + R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 + 2 C_3 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 R_5 + C_1 C_3 L_1 L_5 R_5 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_1 L_5 R_5 + C_3 C_5 L_3 L_5 R_5 + 2 C_3 L_1 L_3 L_5 g_m\right) + s^3 \left(C_1 L_1 L_5 + 2 C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_5 R_5 g_m + C_3 L_1 L_5 + C_3 L_3 L_5 + 2 C_5 L_1 L_5 R_5 g_m\right.}$$

10.595 INVALID-ORDER-595 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_3 L_1 L_3 L_5 g_m s^4 + L_1 L_5 g_m s^2 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_5 g_m - C_3 C_5 L_1 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3 + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s \left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_5 + 2 C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 + C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_1 R_5 + C_3 C_5 L_5 R_5 + 2 C_3 L_1 L_3 g_m + C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_5 g_m + C_3 L_1\right.}$$

10.596 INVALID-ORDER-596 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_5 s^4 - C_5 L_1 R_5 s^2 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_5 g_m - C_3 C_5 L_1 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3 + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s \left(L_1 R_5 g_m -}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_1 L_5 R_5 + 2 C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_5 + 2 C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_1 R_5 + C_1 C_5 L_1 R_5 + C_3 C_5 L_1 R_5 + C_3 C_5 L_3 R_5 + C_3 C_5 L_5 R_5 + 2 C_3 L_1 L$$

10.597 INVALID-ORDER-597 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2 \left(L_1 L_3 R_5 g_m - L_1 L_3\right)}{C_1 C_3 L_1 L_3 R_5 s^4 + R_5 + s^3 \left(C_1 L_1 L_3 + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_5 + C_3 L_3 R_5 + 2 L_1 L_3 g_m\right) + s \left(L_1 R_5 g_m + L_1 + L_3\right)}$$

10.598 INVALID-ORDER-598 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 s^3 + L_1 L_3 g_m s^2}{L_1 g_m s + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 + C_3 C_5 L_1 L_3\right) + s^3 \left(C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_3 + C_5 L_1 + C_5 L_3\right) + 1}$$

10.599 INVALID-ORDER-599 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_5 s^3 + s^2 \left(L_1 L_3 R_5 g_m - L_1 L_3\right)}{R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_5 + C_1 C_5 L_1 L_3 R_5 + C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 L_1 L_3 + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_5 g_m\right) + s^2 \left(C_1 L_1 R_5 + C_3 L_3 R_5 + C_5 L_1 R_5 + C_5 L_3 R_5 + 2 L_1 L_3 g_m\right) + s \left(L_1 R_5 g_m + L_1 + L_3\right)}$$

10.600 INVALID-ORDER-600 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 L_3 g_m s^2 + s^3 \left(C_5 L_1 L_3 R_5 g_m - C_5 L_1 L_3\right)}{C_1 C_3 C_5 L_1 L_3 R_5 s^5 + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3\right) + s^3 \left(C_1 C_5 L_1 R_5 + C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_3 + C_5 L_1 R_5 g_m + C_5 L_1 + C_5 L_3\right) + s \left(C_5 R_5 + L_1 g_m\right) + 1}$$

10.601 INVALID-ORDER-601 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_3 L_5 g_m s^4 - C_5 L_1 L_3 s^3 + L_1 L_3 g_m s^2}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + C_3 C_5 L_1 L_3 L_5 g_m s^5 + L_1 g_m s + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_3 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_3 + C_5 L_1 + C_5 L_3 + C_5 L_5\right) + 1}$$

10.602 INVALID-ORDER-602 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 L_5 s^3 + L_1 L_3 L_5 g_m s^2 - L_1 L_3 s}{L_1 + L_3 + L_5 + s^4 \left(C_1 C_3 L_1 L_3 L_5 + C_1 C_5 L_1 L_3 L_5 + C_3 C_5 L_1 L_3 L_5\right) + s^3 \left(C_3 L_1 L_3 L_5 g_m + 2 C_5 L_1 L_3 L_5 g_m\right) + s^2 \left(C_1 L_1 L_3 + C_1 L_1 L_5 + C_3 L_1 L_3 + C_3 L_3 L_5 + C_5 L_1 L_5 + C_5 L_3 L_5\right) + s \left(2 L_1 L_3 g_m + L_1 L_5 g_m\right)}$$

10.603 INVALID-ORDER-603 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_3 L_5 g_m s^4 + L_1 L_3 g_m s^2 + s^3 \left(C_5 L_1 L_3 R_5 g_m - C_5 L_1 L_3\right)}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_5 L_1 R_5 + C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m + 2 C_5 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_3 + C_5 L_1 R_5 g_m +$$

10.604 INVALID-ORDER-604 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 L_5 R_5 s^3 - L_1 L_3 R_5 s + s^2 \left(L_1 L_3 L_5 R_5 g_m - L_1 L_3 L_5\right)}{L_1 R_5 + L_3 R_5 + L_5 R_5 + s^4 \left(C_1 C_3 L_1 L_3 L_5 R_5 + C_1 C_5 L_1 L_3 L_5 R_5 + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^3 \left(C_1 L_1 L_3 L_5 + C_3 L_1 L_3 L_5 R_5 g_m + C_3 L_1 L_3 L_5 + 2 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^2 \left(C_1 L_1 L_3 R_5 + C_1 L_1 L_5 R_5 + C_3 L_1 L_3 R_5 + C_3 L_3 L_5 R_5 + C_5 L_1 L_5 R_5 + C_5 L_3 L_5 R_5 + 2 L_1 L_3 L_5 g_m\right) + s \left(2$$

10.605 INVALID-ORDER-605 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_1 L_3 L_5 g_m s^3 + s^4 \left(C_5 L_1 L_3 L_5 R_5 g_m - C_5 L_1 L_3 L_5\right) + s^2 \left(L_1 L_3 R_5 g_m - L_1 L_3\right)}{C_1 C_3 C_5 L_1 L_3 L_5 R_5 s^6 + R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 + C_1 C_5 L_1 L_3 L_5 + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_5 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_3 L_5 R_5 + C_3 L_1 L_3 L_5 g_m + 2 C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_1 L_1 L_3 + C_1 L_1 L_5 + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + C_3 L_3 L_5 + C_5 L_1 L$$

10.606 INVALID-ORDER-606 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_5 s^3 + s^4\left(C_5 L_1 L_3 L_5 R_5 g_m - C_5 L_1 L_3 L_5\right) + s^2\left(L_1 L_3 R_5 g_m - L_1 L_3\right)}{C_1 C_3 C_5 L_1 L_3 L_5 R_5 s^6 + R_5 + s^5\left(C_1 C_5 L_1 L_3 L_5 + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4\left(C_1 C_3 L_1 L_3 R_5 + C_1 C_5 L_1 L_3 R_5 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_3 L_5 R_5 + 2 C_5 L_1 L_3 L_5 g_m\right) + s^3\left(C_1 L_1 L_3 + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_5 g_m + C_5 L_1 L_5 R_5\right.$$

10.607 INVALID-ORDER-607 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3\right) + s^2\left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3\right) + s\left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 L_1 L_3 s^4 + s^3\left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5 + 2 C_3 L_1 L_3 g_m\right) + s^2\left(C_1 L_1 + 2 C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_3\right) + s\left(C_3 R_3 + C_3 R_5 + 2 L_1 g_m\right) + 1}$$

10.608 INVALID-ORDER-608 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 s^3 + L_1 g_m + s^2\left(-C_3 C_5 L_1 R_3 + C_3 L_1 L_3 g_m\right) + s\left(C_3 L_1 R_3 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 L_3 s^4 + C_3 + C_5 + s^3\left(C_1 C_3 C_5 L_1 R_3 + 2 C_3 C_5 L_1 L_3 g_m\right) + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + 2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 + C_3 C_5 L_3\right) + s\left(C_3 C_5 R_3 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.609 INVALID-ORDER-609 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_5 s^4 + s^3\left(-C_3 C_5 L_1 R_3 R_5 + C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3\right) + s^2\left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3 - C_5 L_1 R_5\right) + s\left(L_1 R_5 g_m - L_1\right)}{C_1 C_3 C_5 L_1 L_3 R_5 s^5 + s^4\left(C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_3 L_1 L_3 + 2 C_3 C_5 L_1 L_3 R_5 g_m\right) + s^3\left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5 + C_1 C_5 L_1 R_5 + 2 C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_5 + C_3 C_5 L_3 R_5 + 2 C_3 L_1 L_3 g_m\right) + s^2\left(C_1 L_1 + C_3 C_5 R_3 R_5 + 2 C_3 L_1 R_3 g_m + C_3 L_1 R_5 g_m + C_3 L_1 + C_3 L_3 + 2 C_5\right.$$

10.610 INVALID-ORDER-610 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 g_m + s^3\left(C_3 C_5 L_1 L_3 R_5 g_m - C_3 C_5 L_1 L_3\right) + s^2\left(C_3 C_5 L_1 R_3 R_5 g_m - C_3 C_5 L_1 R_3 + C_3 L_1 L_3 g_m\right) + s\left(C_3 L_1 R_3 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 L_3 s^4 + C_3 + C_5 + s^3\left(C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_1 R_5 + 2 C_3 C_5 L_1 L_3 g_m\right) + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + 2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_3\right) + s\left(C_3 C_5 R_3 + C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.611 INVALID-ORDER-611 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 g_m s^4 + L_1 g_m + s^3\left(-C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m\right) + s^2\left(-C_3 C_5 L_1 R_3 + C_3 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s\left(C_3 L_1 R_3 g_m - C_5 L_1\right)}{C_3 + C_5 + s^4\left(C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5\right) + s^3\left(C_1 C_3 C_5 L_1 R_3 + 2 C_3 C_5 L_1 L_3 g_m + C_3 C_5 L_1 L_5 g_m\right) + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + 2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 + C_3 C_5 L_3 + C_3 C_5 L_5\right) + s\left(C_3 C_5 R_3 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.612 INVALID-ORDER-612 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 s^5 - L_1 s + s^4\left(-C_3 C_5 L_1 L_5 R_3 + C_3 L_1 L_3 L_5 g_m\right) + s^3\left(-C_3 L_1 L_3 + C_3 L_1 L_5 R_3 g_m - C_5 L_1 L_5\right) + s^2\left(-C_3 L_1 R_3 + L_1 L_5 g_m\right)}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5\left(C_1 C_3 C_5 L_1 L_5 R_3 + 2 C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4\left(C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 + C_1 C_5 L_1 L_5 + 2 C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5 + C_3 C_5 L_3 L_5\right) + s^3\left(C_1 C_3 L_1 R_3 + C_3 C_5 L_5 R_3 + 2 C_3 L_1 L_3 g_m + C_3 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2\left(C_1 L_1 + 2 C_3 L_1 R_3 g_m + C_3\right.$$

10.613 INVALID-ORDER-613 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 g_m s^4 + L_1 g_m + s^3\left(C_3 C_5 L_1 L_3 R_5 g_m - C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m\right) + s^2\left(C_3 C_5 L_1 R_3 R_5 g_m - C_3 C_5 L_1 R_3 + C_3 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s\left(C_3 L_1 R_3 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_3 + C_5 + s^4\left(C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5\right) + s^3\left(C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_1 R_5 + 2 C_3 C_5 L_1 L_3 g_m + C_3 C_5 L_1 L_5 g_m\right) + s^2\left(C_1 C_3 L_1 + C_1 C_5 L_1 + 2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 R_5 g_m + C_3 C_5 L_1 + C_3 C_5 L_3 + C_3 C_5 L_5\right) + s\left(C_3 C_5 R_3 + C_3 C_5 R_5 + C_3 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.614 INVALID-ORDER-614 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_5 s^5 - L_1 R_5 s + s^4\left(-C_3 C_5 L_1 L_5 R_3 R_5 + C_3 L_1 L_3 L_5 R_5 g_m - C_3 L_1 L_3 L_5\right) + s^3\left(-C_3 L_1 L_3 R_5\right.$$

10.615 INVALID-ORDER-615 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{s^5\left(C_3 C_5 L_1 L_3 L_5 R_5 g_m - C_3 C_5 L_1 L_3 L_5\right) + s^4\left(C_3 C_5 L_1 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_5 R_3 + C_3 L_1 L_3 L_5 g_m\right) + s^3\left(C_3 L_1 L_3 R_5 g_m - C_3 L_1 L_3 + C_3 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2\left(C_3 L_1 R_3 R_5 g_m - C_3 L_1 R_3 + C_3 L_1 L_5 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right) + s\left(C_3 L_1 R_3 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5\left(C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_1 L_5 R_5 + 2 C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4\left(C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 + C_1 C_5 L_1 L_5 + 2 C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_1 L_5 + C_3 C_5 L_3 L_5\right) + s^3\left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5 + C_3 C_5 L_5 R_3 + C_3 C_5 L_5 R_5 + 2 C_3 L_1\right.$$

10.616 INVALID-ORDER-616 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{s^5\left(C_3C_5L_1L_3L_5R_5g_m - C_3C_5L_1L_3L_5\right) + s^4\left(-C_3C_5L_1L_3R_5 + C_3C_5L_1L_5R_3R_5g_m - C_3C_5L_1L_5R_3\right) + s^3\left(-C_3C_5L_1R_3\right.}{C_1C_3C_5L_1L_3L_5s^6 + s^5\left(C_1C_3C_5L_1L_3R_5 + C_1C_3C_5L_1L_5R_3 + C_1C_3C_5L_1L_5R_5 + 2C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3C_5L_1R_3R_5 + C_1C_3L_1L_3 + C_1C_5L_1L_5 + 2C_3C_5L_1L_3R_5g_m + 2C_3C_5L_1L_5R_3g_m + C_3C_5L_1L_5R_5g_m + C_3C_5L_1L_5 + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_1R_3 + C_1C\right.}$$

10.617 INVALID-ORDER-617 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2\left(L_1L_3R_3R_5g_m - L_1L_3R_3\right)}{C_1C_3L_1L_3R_3R_5s^4 + R_3R_5 + s^3\left(C_1L_1L_3R_3 + C_1L_1L_3R_5 + C_3L_1L_3R_3R_5g_m + C_3L_1L_3R_3\right) + s^2\left(C_1L_1R_3R_5 + C_3L_3R_3R_5 + 2L_1L_3R_3g_m + L_1L_3R_5g_m + L_1L_3\right) + s\left(L_1R_3R_5g_m + L_1R_3 + L_3R_3 + L_3R_5\right)}$$

10.618 INVALID-ORDER-618 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_3R_3s^3 + L_1L_3R_3g_ms^2}{R_3 + s^4\left(C_1C_3L_1L_3R_3 + C_1C_5L_1L_3R_3 + C_3C_5L_1L_3R_3\right) + s^3\left(C_1L_1L_3 + C_3L_1L_3R_3g_m + 2C_5L_1L_3R_3g_m + C_5L_1L_3\right) + s^2\left(C_1L_1R_3 + C_3L_3R_3 + C_5L_1R_3 + C_5L_3R_3 + L_1L_3g_m\right) + s\left(L_1R_3g_m + L_3\right)}$$

10.619 INVALID-ORDER-619 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_3R_3R_5s^3 + s^2\left(L_1L_3R_3R_5g_m - L_1L_3R_3\right)}{R_3R_5 + s^4\left(C_1C_3L_1L_3R_3R_5 + C_1C_5L_1L_3R_3R_5 + C_3C_5L_1L_3R_3R_5\right) + s^3\left(C_1L_1L_3R_3 + C_1L_1L_3R_5 + C_3L_1L_3R_3R_5g_m + C_3L_1L_3R_3 + 2C_5L_1L_3R_3R_5g_m + C_5L_1L_3R_5\right) + s^2\left(C_1L_1R_3R_5 + C_3L_3R_3R_5 + C_5L_1R_3R_5 + C_5L_3R_3R_5 + 2L_1L_3R_3g_m + L_1L_3R_5g_m + L_1L_3\right.}$$

10.620 INVALID-ORDER-620 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1L_3R_3g_ms^2 + s^3\left(C_5L_1L_3R_3R_5g_m - C_5L_1L_3R_3\right)}{C_1C_3C_5L_1L_3R_3R_5s^5 + R_3 + s^4\left(C_1C_3L_1L_3R_3 + C_1C_5L_1L_3R_3 + C_1C_5L_1L_3R_5 + C_3C_5L_1L_3R_3R_5g_m + C_3C_5L_1L_3R_3\right) + s^3\left(C_1C_5L_1R_3R_5 + C_1L_1L_3 + C_3C_5L_3R_3R_5 + C_3L_1L_3R_3g_m + 2C_5L_1L_3R_3g_m + C_5L_1L_3R_5g_m + C_5L_1L_3\right) + s^2\left(C_1L_1R_3 + C_3L_3R_3 + C_5L_1\right.}$$

10.621 INVALID-ORDER-621 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5L_1L_3L_5R_3g_ms^4 - C_5L_1L_3R_3s^3 + L_1L_3R_3g_ms^2}{C_1C_3C_5L_1L_3L_5R_3s^6 + R_3 + s^5\left(C_1C_5L_1L_3L_5 + C_3C_5L_1L_3L_5R_3g_m\right) + s^4\left(C_1C_3L_1L_3R_3 + C_1C_5L_1L_3R_3 + C_1C_5L_1L_5R_3 + C_3C_5L_1L_3R_3 + C_3C_5L_3L_5R_3 + C_5L_1L_3L_5g_m\right) + s^3\left(C_1L_1L_3 + C_3L_1L_3R_3g_m + 2C_5L_1L_3R_3g_m + C_5L_1L_3 + C_5L_1L_5R_3g_m + C_5L_3L_5\right) +}$$

10.622 INVALID-ORDER-622 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_3L_5R_3s^3 + L_1L_3L_5R_3g_ms^2 - L_1L_3R_3s}{L_1R_3 + L_3R_3 + L_5R_3 + s^4\left(C_1C_3L_1L_3L_5R_3 + C_1C_5L_1L_3L_5R_3 + C_3C_5L_1L_3L_5R_3\right) + s^3\left(C_1L_1L_3L_5 + C_3L_1L_3L_5R_3g_m + 2C_5L_1L_3L_5R_3g_m + C_5L_1L_3L_5\right) + s^2\left(C_1L_1L_3R_3 + C_1L_1L_5R_3 + C_3L_1L_3R_3 + C_3L_3L_5R_3 + C_5L_1L_5R_3 + C_5L_3L_5R_3 + L_1L_3L_5g_m\right) + s\left(2L\right.}$$

10.623 INVALID-ORDER-623 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5L_1L_3L_5R_3g_ms^4 + L_1L_3R_3g_ms^2 + s^3\left(C_5L_1L_3\right.}{C_1C_3C_5L_1L_3L_5R_3s^6 + R_3 + s^5\left(C_1C_3C_5L_1L_3R_3R_5 + C_1C_5L_1L_3L_5 + C_3C_5L_1L_3L_5R_3g_m\right) + s^4\left(C_1C_3L_1L_3R_3 + C_1C_5L_1L_3R_3 + C_1C_5L_1L_3R_5 + C_1C_5L_1L_5R_3 + C_3C_5L_1L_3R_3R_5g_m + C_3C_5L_1L_3R_3 + C_3C_5L_3L_5R_3 + C_5L_1L_3L_5g_m\right) + s^3\left(C_1C_5L_1R_3R_5 + C_1L_1L_2\right.}$$

10.624 INVALID-ORDER-624 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_3L_5R_3R_5s^3 - L_1L_3R_3R_5s + s^2\left(L_1L_3L_5R_3R_5g_m - L_1L_3L_5R_3\right)}{L_1R_3R_5 + L_3R_3R_5 + L_5R_3R_5 + s^4\left(C_1C_3L_1L_3L_5R_3R_5 + C_1C_5L_1L_3L_5R_3R_5 + C_3C_5L_1L_3L_5R_3R_5\right) + s^3\left(C_1L_1L_3L_5R_3 + C_1L_1L_3L_5R_5 + C_3L_1L_3L_5R_3R_5g_m + C_3L_1L_3L_5R_3 + 2C_5L_1L_3L_5R_3R_5g_m + C_5L_1L_3L_5R_5\right) + s^2\left(C_1L_1L_3R_3R_5 + C_1L_1L_5R_3R_5 + C_3L_1L_3\right.}$$

10.625 INVALID-ORDER-625 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{L_1L}{C_1C_3C_5L_1L_3L_5R_3R_5s^6 + R_3R_5 + s^5\left(C_1C_3L_1L_3L_5R_3 + C_1C_5L_1L_3L_5R_3 + C_1C_5L_1L_3L_5R_5 + C_3C_5L_1L_3L_5R_3R_5g_m + C_3C_5L_1L_3L_5R_3\right) + s^4\left(C_1C_3L_1L_3R_3R_5 + C_1C_5L_1L_5R_3R_5 + C_1L_1L_3L_5 + C_3C_5L_3L_5R_3R_5 + C_3L_1L_3L_5R_3g_m + 2C_5L_1L_3L_5R_3g_m + C_5L_1L_3\right.}$$

10.626 INVALID-ORDER-626 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_3 R_5 s}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^6 + R_3 R_5 + s^5 \left(C_1 C_5 L_1 L_3 L_5 R_3 + C_1 C_5 L_1 L_3 L_5 R_5 + C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 + C_1 C_5 L_1 L_3 R_3 R_5 + C_1 C_5 L_1 L_5 R_3 R_5 + C_3 C_5 L_1 L_3 R_3 R_5 + C_3 C_5 L_3 L_5 R_3 R_5 + 2C_5 L_1 L_3 L_5 R_3 g_m + C_5 L_1 L_3 L_5 R_5 g_m + C\right.}$$

10.627 INVALID-ORDER-627 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3\right) + s^2 \left(L_1 L_3 R_5 g_m - L_1 L_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5\right) + s^3 \left(C_1 L_1 L_3 + 2C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_5 + C_3 L_3 R_3 + C_3 L_3 R_5 + 2L_1 L_3 g_m\right) + s \left(2L_1 R_3 g_m + L_1 R_5 g_m + L_1 + L_3\right)}$$

10.628 INVALID-ORDER-628 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 s^4 + L_1 R_3 g_m s + s^3 \left(C_3 L_1 L_3 R_3 g_m - C_5 L_1 L_3\right) + s^2 \left(-C_5 L_1 R_3 + L_1 L_3 g_m\right)}{C_1 C_3 C_5 L_1 L_3 R_3 s^5 + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 + 2C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3\right) + s^3 \left(C_1 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 L_1 L_3 g_m + 2C_5 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_3 + 2C_5 L_1 R_3 g_m + C_5 L_1 + C_5 L_3\right) + s \left(C_5 R_3 + L_1 g_m\right) + 1}$$

10.629 INVALID-ORDER-629 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 R_5 s^4 + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3 - C_5 L_1 L_3 R_5\right) + s^2 \left(-C_5 L_1 R_3 R_5 + L_1 L_3 R_5 g_m - L_1 L_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right.}{C_1 C_3 C_5 L_1 L_3 R_3 R_5 s^5 + R_3 + R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5 + C_1 C_5 L_1 L_3 R_5 + 2C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_5 L_1 R_3 R_5 + C_1 L_1 L_3 + C_3 C_5 L_3 R_3 R_5 + 2C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3 + 2C_5 L_1 L_3 R_5 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_5\right.}$$

10.630 INVALID-ORDER-630 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_3 g_m s + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_3\right) + s^3 \left(C_3 L_1 L_3 R_3 g_m + C_5 L_1 L_3 R_5 g_m - C_5 L_1 L_3\right) + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3 + L_1 L_3 g_m\right)}{s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 + 2C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3\right) + s^3 \left(C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5 + C_3 C_5 L_3 R_3 + C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m + 2C_5 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_3 + 2C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m\right.}$$

10.631 INVALID-ORDER-631 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 + L_1 R_3 g_m s + s^4 \left(-C_3 C_5 L_1 L_3 R_3 + C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 L_1 L_3 R_3 g_m - C_5 L_1 L_3 + C_5 L_1 L_5 R_3 g_m\right) + s^2 \left(-C_5 L_1 R_3 + L_1 L_3 g_m\right)}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 + C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 + 2C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 L_1 L_3 g_m + 2C_5 L_1 L_3 g_m + C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_3 + 2C_5 L_1 R_3 g_m\right.}$$

10.632 INVALID-ORDER-632 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_3 s^5 - L_1 R_3 s + s^4 \left(C_3 L_1 L_3 L_5 R_3 g_m - C_5 L_1 L_3 L_5\right) + s^3 \left(-C_3 L_1 L_3 R_3 - C_5 L_1 L_5 R_3 + L_1 L_3 L_5 g_m\right) + s^2 \left(-L_1 L_3 + L_1 L_5 R_3 g\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 s^6 + R_3 + s^5 \left(C_1 C_3 L_1 L_3 L_5 + C_1 C_5 L_1 L_3 L_5 + 2C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_5 L_1 L_5 R_3 + C_3 C_5 L_3 L_5 R_3 + C_3 L_1 L_3 L_5 g_m + 2C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_1 L_1 L_3 + C_1 L_1 L_5 + 2C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 + C_3 L_3 L_5 + 2C_5\right.}$$

10.633 INVALID-ORDER-633 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 + L_1 R_3 g_m s + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_3 + C_5 L_1 L_3 L_5 g_m\right) + s^3 \left(C_3 L_1 L_3 R_3 g_m + C_5 L_1 L_3 R_5 g_m - C_5 L_1 L_3 + C_5 L_1 L_5 R_3 g_m\right) + s^2}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 + 2C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5 + C_3 C_5 L_3 R_3 + C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g\right.}$$

10.634 INVALID-ORDER-634 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^5 - L_1 R_3 R_5 s + s^4 \left(C_3 L_1 L_3 L_5 R_3 R_5\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^6 + R_3 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_3 + C_1 C_3 L_1 L_3 L_5 R_5 + C_1 C_5 L_1 L_3 L_5 R_5 + 2C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 + C_1 C_5 L_1 L_5 R_3 R_5 + C_1 L_1 L_3 L_5 + C_3 C_5 L_3 L_5 R_3 R_5 + 2C_3 L_1 L_3 L_5 R_3 g_m + C_3 L_1 L_3 L_5 R_5 g_m + C_3 L_1 L\right.}$$

10.635 INVALID-ORDER-635 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{s^5 \left(C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(C_3 L_1 L_3 L_5 R_3 g_m + C_5 L_1 L_3 L_5 R_5 g_m - C_5 L_1 L_3 L_5\right) + s}{R_3 + R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 L_1 L_3 L_5 + C_1 C_5 L_1 L_3 L_5 + 2C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_3 L_5 R_3 + C_3 C_5 L_3 L_5 R_5 + C_3\right.}$$

10.636 INVALID-ORDER-636 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{s^5 \left(C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(-\right.}{R_3 + R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 + C_1 C_5 L_1 L_3 L_5 + 2 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5 + C_1 C_5 L_1 L_3 R_5 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5 + 2 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_5^2 g_m + C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_1 L_5 R_5 g_m + C_3 C_5 L_3 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_5 g_m + C_3 L_1 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 + C_1 C_5 L_1 L_3 R_3 R_5 + C_1 C_5 L_1 L_3 R_5 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_1 L_3 R_3 R_5^2 g_m + C_3 C_5 L_1 L_3 R_5^2 g_m + C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_5^2 g_m + C_3 C_5 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_3 L_5 R_5^2 g_m + C_3 L_1 L_3 L_5 R_5 g_m + C_5 L_1 L_3 L_5 g_m\right) + s^2 \left(C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5 + C_1 C_5 L_1 R_3 R_5 + C_1 C_5 L_1 R_5^2 + C_3 C_5 L_1 R_3 R_5^2 g_m + C_3 C_5 L_1 R_5^3 g_m + C_3 C_5 L_3 R_3 R_5^2 g_m + C_3 C_5 L_3 R_5^3 g_m + C_3 L_1 L_3 R_5^2 g_m + C_5 L_1 L_3 R_5 g_m + C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5 R_5 g_m + C_5 L_3 L_5 R_3 g_m + C_5 L_3 L_5 R_5 g_m + L_1 L_3 g_m\right) + s \left(C_3 R_3 R_5^2 g_m + C_3 R_5^3 g_m + L_1 R_5^2 g_m + L_3 R_5 g_m + L_5 R_3 g_m + L_5 R_5 g_m\right) + 1}$$

10.637 INVALID-ORDER-637 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5,\ \infty \right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{R_3 + R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 + 2 C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_5 + C_3 L_1 R_3 R_5 g_m + C_3 L_1 R_3 + C_3 L_3 R_3 + C_3 L_3 R_5\right) + s \left(C_3 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R_5 g_m + L_1\right)}$$

10.638 INVALID-ORDER-638 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 s^4 + C_3 L_1 L_3 R_3 g_m s^3 - C_5 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_1 C_3 C_5 L_1 L_3 R_3 s^5 + s^4 \left(C_1 C_3 L_1 L_3 + 2 C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 + C_3 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_3 g_m + C_3 L_3 + 2 C_5 L_1 R_3 g_m + C_5 L_1\right) + s \left(C_3 R_3 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.639 INVALID-ORDER-639 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_3 R_5 s^4 - C_5 L_1 R_3 R_5 s^2 + s^3 \left(C_3 L_1 L_3 R_3 R_5 g_m - C_3 L_1 L_3 R_3\right) + s \left(L_1 R_3 R_5 g_m - L_1 R_3\right)}{C_1 C_3 C_5 L_1 L_3 R_3 R_5 s^5 + R_3 + R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5 + 2 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 + C_1 C_5 L_1 R_3 R_5 + C_3 C_5 L_1 R_3 R_5 + C_3 C_5 L_3 R_3 R_5 + 2 C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_5 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_3 + C_1 L_1 R_5 + C_3 L_1 R_3\right.}$$

10.640 INVALID-ORDER-640 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_3 L_1 L_3 R_3 g_m s^3 + L_1 R_3 g_m s + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_3\right) + s^2 \left(C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right)}{s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_3 L_1 L_3 + 2 C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5 + C_3 C_5 L_1 R_3 R_5 g_m + C_3 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 C_5 L_3 R_5 + C_3 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1\right.}$$

10.641 INVALID-ORDER-641 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 - C_3 C_5 L_1 L_3 R_3 s^4 - C_5 L_1 R_3 s^2 + L_1 R_3 g_m s + s^3 \left(C_3 L_1 L_3 R_3 g_m + C_5 L_1 L_5 R_3 g_m\right)}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_5 + 2 C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 + C_3 C_5 L_1 R_3 + C_3 C_5 L_3 R_3 + C_3 C_5 L_5 R_3 + C_3 L_1 L_3 g\right.}$$

10.642 INVALID-ORDER-642 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_3 s^5 + C_3 L_1 L_3 L_5 R_3 g_m s^4 + L_1 L_5 R_3 g_m s^2 - L_1 R_3 s + s^3 \left(-C_3 L_1 L_3 R_3 - C_5 L_1 L_5 R_3\right)}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 s^6 + R_3 + s^5 \left(C_1 C_3 L_1 L_3 L_5 + 2 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_3 + C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_3 L_5 R_3 + C_3 L_1 L_3 L_5 g_m\right) + s^3 \left(C_1 L_1 L_5 + 2 C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 + C_3 L_1 L_5 R_3 g_m + C_3 L_3 L_5 +\right.}$$

10.643 INVALID-ORDER-643 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_3 g_m s^5 + L_1 R_3 g_m s + s^4 \left(C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_3\right)}{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_5 + 2 C_3 C_5 L_1 L_3 R_3 g_m + C_3 C_5 L_1 L_3 R_5 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_5 L_1\right.}$$

10.644 INVALID-ORDER-644 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty \right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^5 - L_1 R_3 R_5 s + s^4 \left(C\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^6 + R_3 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_3 + C_1 C_3 L_1 L_3 L_5 R_5 + 2 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 + C_1 C_3 L_1 L_5 R_3 R_5 + C_1 C_5 L_1 L_5 R_3 R_5 + C_3 C_5 L_1 L_5 R_3 R_5 + C_3 C_5 L_3 L_5 R_3 R_5 + 2 C_3 L_1 L_3 L_5 R_3 g_m + C_3 L_1 L_3 L_5 R_5 g_m + C\right.}$$

10.645 INVALID-ORDER-645 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{C_3 L_1 L_3 L_5 R_3 g_m s^$$
$$R_3 + R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 R_5 + C_1 C_3 L_1 L_3 L_5 + 2 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5 + C_1 C_3 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5 + C_3 C_5 L_1 L_5 R_3$$

10.646 INVALID-ORDER-646 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{}{R_3 + R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 + C_1 C_3 C_5 L_1 L_5 R_3 R_5 + 2 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5 + C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_1 L_5 R_5 + 2 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C$$

10.647 INVALID-ORDER-647 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_3 s^3 + R_3 g_m + s^2 \left(-C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m - C_5 R_3\right)}{g_m + s^3 \left(2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1\right) + s^2 \left(2 C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m + C_1 + 2 C_5 R_3 g_m + C_5\right)}$$

10.648 INVALID-ORDER-648 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_3 R_5 s^3 + R_3 R_5 g_m - R_3 + s^2 \left(-C_1 C_5 R_1 R_3 R_5 + C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3\right) + s \left(C_1 R_1 R_3 R_5 g_m - C_1 R_1 R_3 - C_5 R_3 R_5\right)}{2 R_3 g_m + R_5 g_m + s^3 \left(2 C_1 C_5 L_1 R_3 R_5 g_m + C_1 C_5 L_1 R_5\right) + s^2 \left(2 C_1 C_5 R_1 R_3 R_5 g_m + C_1 C_5 R_1 R_5 + C_1 C_5 R_3 R_5 + 2 C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1\right) + s \left(2 C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_3 + C_1 R_5 + 2 C_5 R_3 R_5 g_m + C_5 R_5\right) + 1}$$

10.649 INVALID-ORDER-649 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^3 \left(C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3\right) + s^2 \left(C_1 C_5 R_1 R_3 R_5 g_m - C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m + C_5 R_3 R_5 g_m - C_5 R_3\right)}{g_m + s^3 \left(2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1\right) + s^2 \left(2 C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_1 C_5 R_5 + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m + C_1 + 2 C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.650 INVALID-ORDER-650 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 R_3 g_m s^4 + R_3 g_m + s^3 \left(-C_1 C_5 L_1 R_3 + C_1 C_5 L_5 R_1 R_3 g_m\right) + s^2 \left(-C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m + C_5 L_5 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m - C_5 R_3\right)}{C_1 C_5 L_1 L_5 g_m s^4 + g_m + s^3 \left(2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5\right) + s^2 \left(2 C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_1 L_1 g_m + C_5 L_5 g_m\right) + s \left(C_1 R_1 g_m + C_1 + 2 C_5 R_3 g_m + C_5\right)}$$

10.651 INVALID-ORDER-651 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 R_3 s^4 - R_3 + s^3 \left(-C_1 C_5 L_5 R_1 R_3 + C_1 L_1 L_5 R_3 g_m\right) + s^2 \left(-C_1 L_1 R_3 + C_1 L_5 R_1 R_3 g_m - C_5 L_5 R_3\right) + s \left(-C_1 R_1 R_3 + L_5 R_3 g_m\right)}{2 R_3 g_m + s^4 \left(2 C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(2 C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_3 + C_1 L_1 L_5 g_m\right) + s^2 \left(2 C_1 L_1 R_3 g_m + C_1 L_1 + C_1 L_5 R_1 g_m + C_1 L_5 + 2 C_5 L_5 R_3 g_m + C_5 L_5\right) + s \left(2 C_1 R_1 R_3 g_m + C_1 R_1 + C_1 R_3 + L_5 g_m\right) + 1}$$

10.652 INVALID-ORDER-652 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 R_3 g_m s^4 + R_3 g_m + s^3 \left(C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3 + C_1 C_5 L_5 R_1 R_3 g_m\right) + s^2 \left(C_1 C_5 R_1 R_3 R_5 g_m - C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m + C_5 L_5 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m + C_5 R_3 R_5 g_m - C_5 R_3\right)}{C_1 C_5 L_1 L_5 g_m s^4 + g_m + s^3 \left(2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5\right) + s^2 \left(2 C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_1 C_5 R_5 + C_1 L_1 g_m + C_5 L_5 g_m\right) + s \left(C_1 R_1 g_m + C_1 + 2 C_5 R_3 g_m + C_5 R_5 g_m + C_5\right)}$$

10.653 INVALID-ORDER-653 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 R_3 R_5 s^4 - R_3 R_5 + s^3 \left(-C_1 C_5 L_5 R_1 R_3 R_5 + C_1 L_1 L_5 R_3 R_5 g_m - C_1 L_1 L_5 R_3\right) + s^2 \left(-C_1 L_1 R_3 R_5 + C_1 L_5 R_1 R_3 R_5 g_m - C_1 L_5 R_1 R_3 - C_5 L_5 R_3 R_5\right) + s \left(-C_1 R_1 R_3 R_5 +$$
$$2 R_3 R_5 g_m + R_5 + s^4 \left(2 C_1 C_5 L_1 L_5 R_3 R_5 g_m + C_1 C_5 L_1 L_5 R_5\right) + s^3 \left(2 C_1 C_5 L_5 R_1 R_3 R_5 g_m + C_1 C_5 L_5 R_1 R_5 + C_1 C_5 L_5 R_3 R_5 + 2 C_1 L_1 L_5 R_3 g_m + C_1 L_1 L_5 R_5 g_m + C_1 L_1 L_5\right) + s^2 \left(2 C_1 L_1 R_3 R_5 g_m + C_1 L_1 R_5 + 2 C_1 L_5 R_1 R_3 g_m + C_1 L_5 R_1 R_5 g_m + C_1 L_5 R_1 + C_1 L_5 R_3 + C_1 L_5$$

10.654 INVALID-ORDER-654 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_5 L_1 L_5 R_3 R_5 g_m - C_1 C_5 L_1 L_5 R_3\right) + s^3 \left(C_1 C_5 L_5 R_1 R_3 R_5 g_m - C_1 C_5 L_5 R_1 R_3 + C_1 L_1 L_5 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_1 L_5 R_1 R_3 g_m + C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3\right) + s \left(C_1 R_1 R_3 R_5 g_m - C_1 R_1 R_3 + C_1 R_5 + C_5 R_3 R_5 g_m - C_5 R_3 + L_5 R_3 g_m\right)}{2 R_3 g_m + R_5 g_m + s^4 \left(2 C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_1 L_5 R_5 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(2 C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_1 L_1 L_5 g_m\right) + s^2 \left(2 C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1 + C_1 L_5 R_1 g_m + C_1 L_5 + 2 C_5 L_5 R_3 g_m + C_5 L_5 R_5 g_m + C_5 L_5 + L_5 R_3 g_m\right) + s \left(2 C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_5 g_m + C_1 R_5 + C_5 R_3 g_m + C_5 R_5 g_m + C_5 R_5 + L_5 g_m\right)}$$

10.655 INVALID-ORDER-655 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_5 L_1 L_5 R_3 R_5 g_m - C_1 C_5 L_1 L_5 R_3\right) + s^3 \left(-C_1 C_5 L_1 R_3 R_5 + C_1 C_5 L_5 R_1 R_3 R_5 g_m - C_1 C_5 L_5 R_1 R_3\right) + s^2 \left(-C_1 C_5 R_1 R_3 R_5 + C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_5 L_5 R_3 R_5 g_m - C_5 L_5 R_3 + L_5 R_3 g_m\right) + s \left(-C_1 C_5 R_1 R_3 + C_1 R_5 + C_5 R_3 R_5 g_m - C_5 R_3 + L_5 R_3 g_m\right)}{2 R_3 g_m + R_5 g_m + s^4 \left(2 C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_1 L_5 R_5 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(2 C_1 C_5 L_1 R_3 R_5 g_m + C_1 C_5 L_1 R_5 + 2 C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_3 + C_1 C_5 L_5 R_5 + C_1 L_1 L_5 g_m\right) + s^2 \left(2 C_1 C_5 R_1 R_3 R_5 g_m + C_1 C_5 R_1 R_5 + C_1 C_5 R_3 R_5 + 2 C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1 + C_1 L_5 R_1 g_m + C_1 L_5 + C_5 L_5 R_3 g_m + C_5 L_5 R_5 g_m + C_5 L_5 + L_5 R_3 g_m\right) + s \left(2 C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_5 g_m + C_1 R_5 + C_5 R_3 g_m + C_5 R_5 g_m + C_5 R_5 + L_5 g_m\right)}$$

10.656 INVALID-ORDER-656 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1\right) - 1}{2 g_m + s^3 \left(C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1\right) + s^2 \left(C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_5 + 2 C_1 L_1 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + C_3 R_5 g_m + C_3\right)}$$

10.657 INVALID-ORDER-657 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 s^3 + g_m + s^2 \left(-C_1 C_5 R_1 + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m - C_5\right)}{C_1 C_3 C_5 L_1 s^4 + s^3 \left(C_1 C_3 C_5 R_1 + C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.658 INVALID-ORDER-658 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_5 s^3 + R_5 g_m + s^2 \left(-C_1 C_5 R_1 R_5 + C_1 L_1 R_5 g_m - C_1 L_1\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 - C_5 R_5\right) - 1}{C_1 C_3 C_5 L_1 R_5 s^4 + 2 g_m + s^3 \left(C_1 C_3 C_5 R_1 R_5 + C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1 + 2 C_1 C_5 L_1 R_5 g_m\right) + s^2 \left(C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_5 + 2 C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_5 + 2 C_1 L_1 g_m + C_3 C_5 R_5\right) + s \left(2 C_1 R_1 g_m + C_1 + C_3 R_5 g_m + C_3 + 2 C_5 R_5 g_m\right)}$$

10.659 INVALID-ORDER-659 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^3 \left(C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1\right) + s^2 \left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m + C_5 R_5 g_m - C_5\right)}{s^4 \left(C_1 C_3 C_5 L_1 R_5 g_m + C_1 C_3 C_5 L_1\right) + s^3 \left(C_1 C_3 C_5 R_1 R_5 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_5 + C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.660 INVALID-ORDER-660 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 g_m s^4 + g_m + s^3 \left(-C_1 C_5 L_1 + C_1 C_5 L_5 R_1 g_m\right) + s^2 \left(-C_1 C_5 R_1 + C_1 L_1 g_m + C_5 L_5 g_m\right) + s \left(C_1 R_1 g_m - C_5\right)}{C_1 C_3 C_5 L_1 L_5 g_m s^5 + s^4 \left(C_1 C_3 C_5 L_1 + C_1 C_3 C_5 L_5 R_1 g_m + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 C_5 R_1 + C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5\right) + s \left(C_3 g_m + 2 C_5 g_m\right)}$$

10.661 INVALID-ORDER-661 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 s^4 + s^3 \left(-C_1 C_5 L_5 R_1 + C_1 L_1 L_5 g_m\right) + s^2 \left(-C_1 L_1 + C_1 L_5 R_1 g_m - C_5 L_5\right) + s \left(-C_1 R_1 + L_5 g_m\right) - 1}{C_1 C_3 C_5 L_1 L_5 s^5 + 2 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_1 + C_1 C_3 L_1 L_5 g_m + 2 C_1 C_5 L_1 L_5 g_m\right) + s^3 \left(C_1 C_3 L_1 + C_1 C_3 L_5 R_1 g_m + C_1 C_3 L_5 + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5\right) + s^2 \left(C_1 C_3 R_1 + 2 C_1 L_1 g_m + C_3 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + C_3\right)}$$

10.662 INVALID-ORDER-662 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 g_m s^4 + g_m + s^3 \left(C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1 + C_1 C_5 L_5 R_1 g_m\right) + s^2 \left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_1 L_1 g_m + C_5 L_5 g_m\right) + s \left(C_1 R_1 g_m + C_5 R_5 g_m - C_5\right)}{C_1 C_3 C_5 L_1 L_5 g_m s^5 + s^4 \left(C_1 C_3 C_5 L_1 R_5 g_m + C_1 C_3 C_5 L_1 + C_1 C_3 C_5 L_5 R_1 g_m + C_1 C_3 C_5 L_5\right) + s^3 \left(C_1 C_3 C_5 R_1 R_5 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_5 + C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m + C_3 C_5 L_5 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + C_3 C_5 R_5 g_m + C_3 C_5\right) + s \left(C\right.$$

10.663 INVALID-ORDER-663 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 R_5 s^4 - R_5 + s^3 \left(-C_1 C_5 L_5 R_1 R_5 + C_1 L_1 L_5 R_5 g_m - C_1 L_1 L_5\right) + s^2 \left(-C_1 L_1 R_5 + C_1 L_5 R_1 R_5 g_m - C_1 L_5 R_1 - C_5 L_5 R_5\right) + s \left(-C_1 R_1 R_5 + L_5 R_5 g_m -}{C_1 C_3 C_5 L_1 L_5 R_5 s^5 + 2 R_5 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_5 + C_1 C_3 L_1 L_5 R_5 g_m + C_1 C_3 L_1 L_5 + 2 C_1 C_5 L_1 L_5 R_5 g_m\right) + s^3 \left(C_1 C_3 L_1 R_5 + C_1 C_3 L_5 R_1 R_5 g_m + C_1 C_3 L_5 R_1 + C_1 C_3 L_5 R_5 + 2 C_1 C_5 L_5 R_1 R_5 g_m + C_1 C_5 L_5 R_5 + 2 C_1 L_1 L_5 g_m + C_3 C_5 L_5 R_5\right) + s^2 \left(C_1 C_3 R_1 R_5 + 2 C_1 L_1 R_5}$$

10.664 INVALID-ORDER-664 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_1 L_5\right) + s^3 \left(C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 + C_1 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1 + C_1 L_5 R_1 g_m + C_5 L_5 R_5 g_m - C_5 L_5\right) + s \left(C_1 R_1 R_5 g_m}{2 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_5 + C_1 C_3 L_1 L_5 g_m + 2 C_1 C_5 L_1 L_5 g_m\right) + s^3 \left(C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1 + C_1 C_3 L_5 R_1 g_m + C_1 C_3 L_5 + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right) + s^2 (}$$

10.665 INVALID-ORDER-665 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_1 L_5\right) + s^3 \left(-C_1 C_5 L_1 R_5 + C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1\right) + s^2 \left(-C_1 C_5 R_1 R_5 + C_1 L_1 R_5 g_m - C_1 L_1 + C_5 L_5 R_5 g_m}{2 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_5 + C_1 C_3 C_5 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_5 R_1 + C_1 C_3 C_5 L_5 R_5 + 2 C_1 C_5 L_1 L_5 g_m\right) + s^3 \left(C_1 C_3 C_5 R_1 R_5 + C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1 + 2 C_1 C_5 L_1 R_5 g_m + 2 C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5 R_5 g_m + C_3 C_5 L_5\right)}$$

10.666 INVALID-ORDER-666 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3\right) + s \left(C_1 R_1 R_3 R_5 g_m - C_1 R_1 R_3\right)}{2 R_3 g_m + R_5 g_m + s^3 \left(C_1 C_3 L_1 R_3 R_5 g_m + C_1 C_3 L_1 R_3\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5 + 2 C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1\right) + s \left(2 C_1 R_1 R_3 g_m + C_1 R_1 R_5 g_m + C_1 R_1 + C_1 R_3 + C_1 R_5 + C_3 R_3 R_5 g_m + C_3 R_3\right) + 1}$$

10.667 INVALID-ORDER-667 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_3 s^3 + R_3 g_m + s^2 \left(-C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m - C_5 R_3\right)}{C_1 C_3 C_5 L_1 R_3 s^4 + g_m + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_1 R_3 g_m + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + 2 C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_1 L_1 g_m + C_3 C_5 R_3\right) + s \left(C_1 R_1 g_m + C_1 + C_3 R_3 g_m + 2 C_5 R_3 g_m + C_5\right)}$$

10.668 INVALID-ORDER-668 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_3 R_5 s^3 + R_3 R_5 g_m - R_3 + s^2 \left(-C_1 C_5 R_1 R_3 R_5 + C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3\right) + s \left(C_1 R_1 R_3 R_5 g_m - C_1 R_1 R_3 - C_5 R_3 R_5\right)}{C_1 C_3 C_5 L_1 R_3 R_5 s^4 + 2 R_3 g_m + R_5 g_m + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_3 L_1 R_3 R_5 g_m + C_1 C_3 L_1 R_3 + 2 C_1 C_5 L_1 R_3 R_5 g_m + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5 + 2 C_1 C_5 R_1 R_3 R_5 g_m + C_1 C_5 R_1 R_5 + C_1 C_5 R_3 R_5 + 2 C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1}$$

10.669 INVALID-ORDER-669 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^3 \left(C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3\right) + s^2 \left(C_1 C_5 R_1 R_3 R_5 g_m - C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m + C_5 R_3 R_5 g_m - C_5 R_3\right)}{g_m + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_3\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 R_1 R_3 + C_1 C_3 C_5 R_3 R_5 + C_1 C_3 L_1 R_3 g_m + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + 2 C_1 C_5 R_1 R_3 g_m + C_1 C_5 R_1 R_5 g_m + C_1 C_5 R_1 + C_1 C_5 R_3 + C_1}$$

10.670 INVALID-ORDER-670 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 R_3 g_m s^4 + R_3 g_m + s^3 \left(-C_1 C_5 L_1 R_3 + C_1 C_5 L_5 R_1 R_3 g_m\right) + s^2 \left(-C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m + C_5 L_5 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m - C_5 R_3\right)}{C_1 C_3 C_5 L_1 L_5 R_3 g_m s^5 + g_m + s^4 \left(C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_3 + C_1 C_5 L_1 L_5 g_m\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_1 R_3 g_m + 2 C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 + C_1 C_5 L_5 R_1 g_m + C_1 C_5 L_5 + C_3 C_5 L_5 R_3 g_m\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_3 + 2 C_1 C_5 R_1 R_3 g_m}$$

10.671 INVALID-ORDER-671 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 R_3 s^4 - R_3 + s^3 \left(-C_1 C_5 L_5 R_1 R_3 + C_1 L_1 L_5 R_3 g_m\right) + s^2 \left(-C_1 L_1 R_3 + C_1 L_5 R_1 R_3 g_m - C_5 L_5 R_3\right) + s \left(-C_1 R_1 R_3 + L_5 R_3 g_m\right)}{C_1 C_3 C_5 L_1 L_5 R_3 s^5 + 2 R_3 g_m + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 L_1 L_5 R_3 g_m + 2 C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(C_1 C_3 L_1 R_3 + C_1 C_3 L_5 R_1 R_3 g_m + C_1 C_3 L_5 R_3 + 2 C_1 C_5 L_5 R_1 R_3 g_m + C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_3 + C_1 L_1 L_5 g_m + C_3 C_5 L_5 R_3\right) + s^2 \left(C_1 C_3 R_1 R_3 + 2 C_1 L_1 R_3 g_m\right)}$$

10.672 INVALID-ORDER-672 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_3g_ms^4 + R_3g_m + s^3\left(C_1C_5L_1R_3R_5g_m - C_1C_5L_1R_3 + C_1C_5L_5R_1R_3g_m\right) + s^2\left(C_1C_5R_1R_3R_5g_m\right.}{C_1C_3C_5L_1L_5R_3g_ms^5 + g_m + s^4\left(C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_3 + C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_3 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3C_5R_1R_3R_5g_m + C_1C_3C_5R_1R_3 + C_1C_3C_5R_3R_5 + C_1C_3L_1R_3g_m + 2C_1C_5L_1R_3g_m + C_1C_5L_1R_5g_m + C_1C_5L_1 + C_1C_5L_5R_1g_m\right.}$$

10.673 INVALID-ORDER-673 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_3R_5s^4 - R_3R_5 + s^3\left(-C_1C_5L_5R_1R_3R_5 + C_1L_1\right.}{C_1C_3C_5L_1L_5R_3R_5s^5 + 2R_3R_5g_m + R_5 + s^4\left(C_1C_3C_5L_5R_1R_3R_5 + C_1C_3L_1L_5R_3R_5g_m + C_1C_3L_1L_5R_3 + 2C_1C_5L_1L_5R_3R_5g_m + C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_3L_1R_3R_5 + C_1C_3L_5R_1R_3R_5g_m + C_1C_3L_5R_1R_3 + C_1C_3L_5R_3R_5 + 2C_1C_5L_5R_1R_3R_5g_m + C_1C_5L_5R_1R_5 + \right.}$$

10.674 INVALID-ORDER-674 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_3R_5g_m - R_3 + s^4\left(C_1C_5L_1L_5R_3R_5g_m - C_1C_5L_1\right.}{2R_3g_m + R_5g_m + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_5R_1R_3R_5g_m + C_1C_3C_5L_5R_1R_3 + C_1C_3C_5L_5R_3R_5 + C_1C_3L_1L_5R_3g_m + 2C_1C_5L_1L_5R_3g_m + C_1C_5L_1L_5R_5g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_3R_5g_m + C_1C_3L_1R_3 + C_1C_3L_5R_1R_3g_m + \right.}$$

10.675 INVALID-ORDER-675 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3}{C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_3R_5g_m - R_3 + s^4\left(C_1C_5L_1\right.}{2R_3g_m + R_5g_m + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_1R_3R_5 + C_1C_3C_5L_5R_1R_3R_5g_m + C_1C_3C_5L_5R_1R_3 + C_1C_3C_5L_5R_3R_5 + 2C_1C_5L_1L_5R_3g_m + C_1C_5L_1L_5R_5g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3L_1R_3R_5g_m + C_1C_3L_1R_3 + \right.}$$

10.676 INVALID-ORDER-676 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^3\left(C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3\right) + s^2\left(C_1C_3R_1R_3R_5g_m - C_1C_3R_1R_3 + C_1L_1R_5g_m - C_1L_1\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_3R_3R_5g_m - C_3R_3\right) - 1}{2g_m + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1\right) + s^2\left(2C_1C_3R_1R_3g_m + C_1C_3R_1R_5g_m + C_1C_3R_1 + C_1C_3R_3 + C_1C_3R_5 + 2C_1L_1g_m\right) + s\left(2C_1R_1g_m + C_1 + 2C_3R_3g_m + C_3R_5g_m + C_3\right)}$$

10.677 INVALID-ORDER-677 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1R_3s^4 + g_m + s^3\left(-C_1C_3C_5R_1R_3 + C_1C_3L_1R_3g_m - C_1C_5L_1\right) + s^2\left(C_1C_3R_1R_3g_m - C_1C_5R_1 + C_1L_1g_m - C_3C_5R_3\right) + s\left(C_1R_1g_m + C_3R_3g_m - C_5\right)}{s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1\right) + s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_1C_3L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.678 INVALID-ORDER-678 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1R_3R_5s^4 + R_5g_m + s^3\left(-C_1C_3C_5R_1R_3R_5 + C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3 - C_1C_5L_1R_5\right) + s^2\left(C_1C_3R_1R_3R_5g_m - C_1C_3R_1R_3 - C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 - C_3C_5R_3R_5\right) + s\left(C_1\right.}{2g_m + s^4\left(2C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_5\right) + s^3\left(2C_1C_3C_5R_1R_3R_5g_m + C_1C_3C_5R_1R_5 + C_1C_3C_5R_3R_5 + 2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1 + 2C_1C_5L_1R_5g_m\right) + s^2\left(2C_1C_3R_1R_3g_m + C_1C_3R_1R_5g_m + C_1C_3R_1 + C_1C_3R_3 + C_1C_3R_5 + 2C_1C_5R_1R_5g_m\right.}$$

10.679 INVALID-ORDER-679 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^4\left(C_1C_3C_5L_1R_3R_5g_m - C_1C_3C_5L_1R_3\right) + s^3\left(C_1C_3C_5R_1R_3R_5g_m - C_1C_3C_5R_1R_3 + C_1C_3L_1R_3g_m + C_1C_5L_1R_5g_m - C_1C_5L_1\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1L_1g_m + C_3C_5R_3R_5g_m - C_3C_5R_3\right) + s\left(C_1R_1g_m + C_3R_3g_m + C_5R_5\right.}{s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1\right) + s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1R_5g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5R_5g_m + C_3C_5\right) + s\left(\right.}$$

10.680 INVALID-ORDER-680 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_5R_3g_ms^5 + g_m + s^4\left(-C_1C_3C_5L_1R_3 + C_1C_3C_5L_5R_1R_3g_m + C_1C_5L_1L_5g_m\right) + s^3\left(-C_1C_3C_5R_1R_3 + C_1C_3L_1R_3g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m + C_3C_5L_5R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m - C_1C_5R_1 + C_1L_1g_m - C_3C_5R_3 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_3\right.}{C_1C_3C_5L_1L_5g_ms^5 + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1 + C_1C_3C_5L_5R_1g_m + C_1C_3C_5L_5\right) + s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + C_3C_5L_5g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + 2C_3C_5R_3g_m + C_3C_5\right) + s\right.}$$

10.681 INVALID-ORDER-681 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_5R_3s^5 + s^4\left(-C_1C_3C_5L_5R_1R_3 + C_1C_3L_1L_5R_3g_m - C_1C_5L_1L_5\right) + s^3\left(-C_1C_3L_1R_3 + C_1C_3L_5R_1R_3g_m - C_1C_5L_5R_1 + C_1L_1L_5g_m - C_3C_5L_5R_3\right) + s^2\left(-C_1C_3R_1R_3 - C_1L_1 + C_1L_5R_1g_m\right.}{2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5\right) + s^4\left(2C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_3 + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1 + C_1C_3L_5R_1g_m + C_1C_3L_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5 + 2C_3C_5L_5R_3g_m + C_3C_5L_5\right) +$$

10.682 INVALID-ORDER-682 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_5R_3g_ms^5 + g_m + s^4\left(C_1C_3C_5L_1R_3R_5g_m - C_1C_3C_5L_1R_3 + C_1C_3C_5L_5R_1R_3g_m + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_3C_5R_1R_3R_5g_m - C_1C_3C_5R_1R_3 + C_1C_3L_1R_3g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m + C_3C_5L_5R_3g_m\right) + s^2\left(C_1C_3R_1R_3g_m + C_1C_5R_1R\right.}{C_1C_3C_5L_1L_5g_ms^5 + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + C_1C_3C_5L_5R_1g_m + C_1C_3C_5L_5\right) + s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1R_5g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + C_3C_5L_5g_m\right) + s^2\left(C_1C_3\right.}$$

10.683 INVALID-ORDER-683 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_5R_3R_5s^5 - R_5 + s^4\left(-C_1C_3C_5L_5R_1R_3R_5 + C_1C_3L_1L_5R_3R_5g_m - C_1C_3L_1L_5R_3 - C_1C_5L_1L_5R_5\right) + s^3\left(-C_1C_3L_1R_3R_5 + C_1C_3L_5R_1\right.}{2R_5g_m + s^5\left(2C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_5\right) + s^4\left(2C_1C_3C_5L_5R_1R_3R_5g_m + C_1C_3C_5L_5R_1R_5 + C_1C_3C_5L_5R_3R_5 + 2C_1C_3L_1L_5R_3g_m + C_1C_3L_1L_5R_5g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_5g_m\right) + s^3\left(2C_1C_3L_1R_3R_5g_m + C_1C_3L_1R_5 + 2C_1C_3L_5R_1R_3g_m + C\right.}$$

10.684 INVALID-ORDER-684 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m - C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_5R_1R_3R_5g_m - C_1C_3C_5L_5R_1R_3 + C_1C_3L_1L_5R_3g_m + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3 + C_1C_3L_5R_1R_3g_m + C_1C_5L_5R_1R_5g_m - C_1C\right.}{2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5\right) + s^4\left(2C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_1R_5g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_3 + C_1C_3C_5L_5R_5 + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1 + C_1C_3L_5\right.}$$

10.685 INVALID-ORDER-685 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m - C_1C_3C_5L_1L_5R_3\right) + s^4\left(-C_1C_3C_5L_1R_3R_5 + C_1C_3C_5L_5R_1R_3R_5g_m - C_1C_3C_5L_5R_1R_3 + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5\right) + s^3\left(-C_1C_3C_5L_1R_3 + C_1C_3C_5R_1R_3R_5g_m + C_1C_3\right.}{2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5\right) + s^4\left(2C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_5 + 2C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_1R_5g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_3 + C_1C_3C_5L_5R_5 + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_3C_5R_1R_3R_5g_m + C_1C_3\right.}$$

10.686 INVALID-ORDER-686 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^4\left(C_1C_3L_1L_3R_5g_m - C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_3R_1R_5g_m - C_1C_3L_3R_1\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 + C_3L_3R_5g_m - C_3L_3\right) + s\left(C_1R_1R_5g_m - C_1R_1\right) - 1}{2C_1C_3L_1L_3g_ms^4 + 2g_m + s^3\left(C_1C_3L_1R_5g_m + C_1C_3L_1 + 2C_1C_3L_3R_1g_m + C_1C_3L_3\right) + s^2\left(C_1C_3R_1R_5g_m + C_1C_3R_1 + C_1C_3R_5 + 2C_1L_1g_m + 2C_3L_3g_m\right) + s\left(2C_1R_1g_m + C_1 + C_3R_5g_m + C_3\right)}$$

10.687 INVALID-ORDER-687 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3s^5 + g_m + s^4\left(-C_1C_3C_5L_3R_1 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_3R_1g_m - C_1C_5L_1 - C_3C_5L_3\right) + s^2\left(-C_1C_5R_1 + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m - C_5\right)}{2C_1C_3C_5L_1L_3g_ms^5 + s^4\left(C_1C_3C_5L_1 + 2C_1C_3C_5L_3R_1g_m + C_1C_3C_5L_3\right) + s^3\left(C_1C_3C_5R_1 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2C_3C_5L_3g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + C_3C_5\right) + s\left(C_3g_m + 2C_5g_m\right)}$$

10.688 INVALID-ORDER-688 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_5s^5 + R_5g_m + s^4\left(-C_1C_3C_5L_3R_1R_5 + C_1C_3L_1L_3R_5g_m - C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_3R_1R_5g_m - C_1C_3L_3R_1 - C_1C_5L_1R_5 - C_3C_5L_3R_5\right) + s^2\left(-C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 + C_3L\right.}{2C_1C_3C_5L_1L_3R_5g_ms^5 + 2g_m + s^4\left(C_1C_3C_5L_1R_5 + 2C_1C_3C_5L_3R_1R_5g_m + C_1C_3C_5L_3R_5 + 2C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3C_5R_1R_5 + C_1C_3L_1R_5g_m + C_1C_3L_1 + 2C_1C_3L_3R_1g_m + C_1C_3L_3 + 2C_1C_5L_1R_5g_m + 2C_3C_5L_3R_5g_m\right) + s^2\left(C_1C_3R_1R_5g_m + C_1C_3R_1 + C_1C_3R_5\right.}$$

10.689 INVALID-ORDER-689 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^5\left(C_1C_3C_5L_1L_3R_5g_m - C_1C_3C_5L_1L_3\right) + s^4\left(C_1C_3C_5L_3R_1R_5g_m - C_1C_3C_5L_3R_1 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_3C_5L_3R_5g_m - C_3C_5L_3\right) + s^2\left(C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_5\right.}{2C_1C_3C_5L_1L_3g_ms^5 + s^4\left(C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + 2C_1C_3C_5L_3R_1g_m + C_1C_3C_5L_3\right) + s^3\left(C_1C_3C_5R_1R_5g_m + C_1C_3C_5R_1 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2C_3C_5L_3g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + C_3C_5R_5g_m + C_3C_5\right) + s$$

10.690 INVALID-ORDER-690 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5g_m s^6 + g_m + s^5\left(-C_1C_3C_5L_1L_3 + C_1C_3C_5L_3L_5R_1g_m\right) + s^4\left(-C_1C_3C_5L_3R_1 + C_1C_3L_1L_3g_m + C_1C_5L_1L_5g_m + C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_3R_1g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m - C_3C_5L_3\right) + s^2\left(-C_1C_5R_1 + C_1L_1g_m + C_3L_3g_m + C_5L_5g_m\right) + s\,(}{s^5\left(2C_1C_3C_5L_1L_3g_m + C_1C_3C_5L_1L_5g_m\right) + s^4\left(C_1C_3C_5L_1 + 2C_1C_3C_5L_3R_1g_m + C_1C_3C_5L_3 + C_1C_3C_5L_5R_1g_m + C_1C_3C_5L_5\right) + s^3\left(C_1C_3C_5R_1 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2C_3C_5L_3g_m + C_3C_5L_5g_m\right) + s^2\left(C_1C_3R_1g_m + C_1C_3 + 2C_1C_5R_1g_m + C_1C_5 + C_3C_5\right) +$$

10.691 INVALID-ORDER-691 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5s^6 + s^5\left(-C_1C_3C_5L_3L_5R_1 + C_1C_3L_1L_3L_5g_m\right) + s^4\left(-C_1C_3L_1L_3 + C_1C_3L_3L_5R_1g_m - C_1C_5L_1L_5 - C_3C_5L_3L_5\right) + s^3\left(-C_1C_3L_3R_1 - C_1C_5L_5R_1 + C_1L_1L_5g_m + C_3L_3L_5g_m\right) + s^2\left(-C_1\right.}{2C_1C_3C_5L_1L_3L_5g_m s^6 + 2g_m + s^5\left(C_1C_3C_5L_1L_5 + 2C_1C_3C_5L_3L_5R_1g_m + C_1C_3C_5L_3L_5\right) + s^4\left(C_1C_3C_5L_5R_1 + 2C_1C_3L_1L_3g_m + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m + 2C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_1 + 2C_1C_3L_3R_1g_m + C_1C_3L_3 + C_1C_3L_5R_1g_m + C_1C_3L_5 + 2C_1C_5L_5\right.$$

10.692 INVALID-ORDER-692 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5g_m s^6 + g_m + s^5\left(C_1C_3C_5L_1L_3R_5g_m - C_1C_3C_5L_1L_3 + C_1C_3C_5L_3L_5R_1g_m\right) + s^4\left(C_1C_3C_5L_3R_1R_5g_m - C_1C_3C_5L_3R_1 + C_1C_3L_1L_3g_m + C_1C_5L_1L_5g_m + C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m + C_3C_5L_3R_5}{s^5\left(2C_1C_3C_5L_1L_3g_m + C_1C_3C_5L_1L_5g_m\right) + s^4\left(C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + 2C_1C_3C_5L_3R_1g_m + C_1C_3C_5L_3 + C_1C_3C_5L_5R_1g_m + C_1C_3C_5L_5\right) + s^3\left(C_1C_3C_5R_1R_5g_m + C_1C_3C_5R_1 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2C_3C_5L_3g_m + C_3C_5L\right.$$

10.693 INVALID-ORDER-693 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5R_5s^6 - R_5 + s^5\left(-C_1C_3C_5L_3L_5R_1R_5 + C_1C_3L_1L_3L_5R_5g_m - C_1C_3L_1L_3L_5\right) + s^4\left(-C_1C_3L_1L_3R_5 + C_1C_3L_3L_5R_1R_5g_m - C_1C_3L_3L\right.}{2C_1C_3C_5L_1L_3L_5R_5g_m s^6 + 2R_5g_m + s^5\left(C_1C_3C_5L_1L_5R_5 + 2C_1C_3C_5L_3L_5R_1R_5g_m + C_1C_3C_5L_3L_5R_5 + 2C_1C_3L_1L_3L_5g_m\right) + s^4\left(C_1C_3C_5L_5R_1R_5 + 2C_1C_3L_1L_3R_5g_m + C_1C_3L_1L_5R_5g_m + C_1C_3L_1L_5 + 2C_1C_3L_3L_5R_1g_m + C_1C_3L_3L_5 + 2C_1C_5L_1L_5R_5g_m + 2C_3C\right.$$

10.694 INVALID-ORDER-694 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_5g_m - C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_3L_5R_1R_5g_m - C_1C_3C_5L_3L_5R_1 + C_1C_3L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_5g_m - C_1C_3L_1L_3 + C_1C_3L_3L_5R_1g_m + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5 + C_3C_5L_3L_5R_5g_m - C_3C_5\right.}{2C_1C_3C_5L_1L_3L_5g_m s^6 + 2g_m + s^5\left(C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5 + 2C_1C_3C_5L_3L_5R_1g_m + C_1C_3C_5L_3L_5\right) + s^4\left(C_1C_3C_5L_5R_1R_5g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_5 + 2C_1C_3L_1L_3g_m + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m + 2C_3C_5L_3L_5g_m\right) + s^3\left(C_1C_3L_1R_5g_m +\right.$$

10.695 INVALID-ORDER-695 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_5g_m - C_1C_3C_5L_1L_3L_5\right) + s^5\left(-C_1C_3C_5L_1L_3R_5 + C_1C_3C_5L_3L_5R_1R_5g_m - C_1C_3C_5L_3L_5R_1\right) + s^4\left(-C_1C_3C_5L_3R_1R_5 + C_1C_3L_1L_3R_5g_m - C_1C_3\right.}{2C_1C_3C_5L_1L_3L_5g_m s^6 + 2g_m + s^5\left(2C_1C_3C_5L_1L_3R_5g_m + C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5 + 2C_1C_3C_5L_3L_5R_1g_m + C_1C_3C_5L_3L_5\right) + s^4\left(C_1C_3C_5L_1R_5 + 2C_1C_3C_5L_3R_1R_5g_m + C_1C_3C_5L_3R_5 + C_1C_3C_5L_5R_1R_5g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_5 + 2C_1C_3L_1\right.$$

10.696 INVALID-ORDER-696 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_1L_1L_3R_5g_m - C_1L_1L_3\right) + s^2\left(C_1L_3R_1R_5g_m - C_1L_3R_1\right) + s\left(L_3R_5g_m - L_3\right)}{R_5g_m + s^4\left(C_1C_3L_1L_3R_5g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_3R_1R_5g_m + C_1C_3L_3R_1 + C_1C_3L_3R_5 + 2C_1L_1L_3g_m\right) + s^2\left(C_1L_1R_5g_m + C_1L_1 + 2C_1L_3R_1g_m + C_1L_3 + C_3L_3R_5g_m + C_3L_3\right) + s\left(C_1R_1R_5g_m + C_1R_1 + C_1R_5 + 2L_3g_m\right) + 1}$$

10.697 INVALID-ORDER-697 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3s^4 + L_3g_m s + s^3\left(-C_1C_5L_3R_1 + C_1L_1L_3g_m\right) + s^2\left(C_1L_3R_1g_m - C_5L_3\right)}{C_1C_3C_5L_1L_3s^5 + g_m + s^4\left(C_1C_3C_5L_3R_1 + C_1C_3L_1L_3g_m + 2C_1C_5L_1L_3g_m\right) + s^3\left(C_1C_3L_3R_1g_m + C_1C_3L_3 + C_1C_5L_1 + 2C_1C_5L_3R_1g_m + C_1C_5L_3 + C_3C_5L_3\right) + s^2\left(C_1C_5R_1 + C_1L_1g_m + C_3L_3g_m + 2C_5L_3g_m\right) + s\left(C_1R_1g_m + C_1 + C_5\right)}$$

10.698 INVALID-ORDER-698 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_5s^4 + s^3\left(-C_1C_5L_3R_1R_5 + C_1L_1L_3R_5g_m - C_1L_1L_3\right) + s^2\left(C_1L_3R_1R_5g_m - C_1L_3R_1 - C_5L_3R_5\right) + s\left(L_3R_5g_m - L_3\right)}{C_1C_3C_5L_1L_3R_5s^5 + R_5g_m + s^4\left(C_1C_3C_5L_3R_1R_5 + C_1C_3L_1L_3R_5g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_5g_m\right) + s^3\left(C_1C_3L_3R_1R_5g_m + C_1C_3L_3R_1 + C_1C_3L_3R_5 + C_1C_5L_1R_5 + 2C_1C_5L_3R_1R_5g_m + C_1C_5L_3R_5 + 2C_1L_1L_3g_m + C_3C_5L_3R_5\right) + s^2\left(C_1C_5R_1R_5 + C_1L_1R_5g_m\right.}$$

10.699 INVALID-ORDER-699 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_3 g_m s + s^4 \left(C_1 C_5 L_1 L_3 R_5 g_m - C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_5 L_3 R_1 R_5 g_m - C_1 C_5 L_3 R_1 + C_1 L_1 L_3 g_m\right) + s^2 \left(C_1 L_3 R_1 g_m + C_5 L_3 R_5 g_m - C_5 L_3\right)}{g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 L_1 L_3 g_m + 2 C_1 C_5 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_5 L_1 R_5 g_m + C_1 C_5 L_1 + 2 C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + C_3 C_5 L_3 R_5 g_m + C_3 C_5 L_3\right) + s^2 \left(C$$

10.700 INVALID-ORDER-700 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_3 L_5 g_m s^5 + L_3 g_m s + s^4 \left(-C_1 C_5 L_1 L_3 + C_1 C_5 L_3 L_5 R_1 g_m\right) + s^3 \left(-C_1 C_5 L_3 R_1 + C_1 L_1 L_3 g_m + C_5 L_3 L_5 g_m\right) + s^2 \left(C_1 L_3 R_1 g_m - C_5 L_3\right)}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 + C_1 C_3 L_1 L_3 g_m + 2 C_1 C_5 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_1 C_5 L_1 + 2 C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + C_1 C_5 L_5 R_1 g_m +$$

10.701 INVALID-ORDER-701 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 L_5 s^5 - L_3 s + s^4 \left(-C_1 C_5 L_3 L_5 R_1 + C_1 L_1 L_3 L_5 g_m\right) + s^3 \left(-C_1 L_1 L_3 + C_1 L_3 L_5 R_1 g_m - C_5 L_3 L_5\right) + s^2 \left(-C_1 L_3 R_1 + L_3 L_5 g_m\right.$$
$$\overline{C_1 C_3 C_5 L_1 L_3 L_5 s^6 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 L_1 L_3 L_5 g_m + 2 C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 + C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + C_1 C_5 L_1 L_5 + 2 C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_1 + C_1 C_5 L_5 R_1 + 2 C_1 L_1 L_3 g_m + C_1 L_1 L_5 g_m + C_3 L_3 L$$

10.702 INVALID-ORDER-702 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_3 L_5 g_m s^5 + L_3 g_m s + s^4 \left(C_1 C_5 L_1 L_3 R_5 g_m - C_1 C_5 L_1 L_3 + C_1 C_5 L_3 L_5 R_1 g_m\right) + s^3 \left(C_1 C_5 L_3 R_1 R_5 g$$
$$\overline{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 L_1 L_3 g_m + 2 C_1 C_5 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3$$

10.703 INVALID-ORDER-703 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 L_5 R_5 s^5 - L_3 R_5 s + s^4 \left(-C_1 C_5 L_3 L_5 R_1 R_5 + C_1 L_1$$
$$\overline{C_1 C_3 C_5 L_1 L_3 L_5 R_5 s^6 + R_5 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 + C_1 C_3 L_1 L_3 L_5 R_5 g_m + C_1 C_3 L_1 L_3 L_5 + 2 C_1 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 R_5 + C_1 C_3 L_3 L_5 R_1 R_5 g_m + C_1 C_3 L_3 L_5 R_1 + C_1 C_3 L_3 L_5 R_5 + C_1 C_5 L_1 L_5 R_5 + 2 C_1 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_5 L_3 L_5 R_5 + 2 C_1 L_1 L_3 L_5 g_m$$

10.704 INVALID-ORDER-704 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{s^5 \left(C_1 C_5 L_1 L_3 L_5 R_5 g_m - C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_5$$
$$\overline{R_5 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_5 + C_1 C_3 L_1 L_3 L_5 g_m + 2 C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + C_1 C_5 L_1 L_5 R_5 g_m + C_1 C_5 L_1 L_5$$

10.705 INVALID-ORDER-705 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{s^5 \left(C_1 C_5 L_1 L_3 L_5 R_5 g_m - C_1 C$$
$$\overline{R_5 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_5 + 2 C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3 + 2 C_1 C_5 L_1 L_3 R_5 g_m + C_1 C_5 L_1 L_5 R_5 g_m + C_1 C$$

10.706 INVALID-ORDER-706 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_5 g_m - C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 g_m - C_1 C_3 L_1 R_3 + C_1 C_3 L_3 R_1 R_5 g_m - C_1 C_3 L_3 R_1\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m - C_1 C_3 R_1 R_3 + C_1 L_1 R_5 g_m - C_1 L_1 + C_3 L_3 R_5 g_m - C_3 L_3\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_3 R_3 R_5 g_m - C_3 R_3\right) - 1}{2 C_1 C_3 L_1 L_3 g_m s^4 + 2 g_m + s^3 \left(2 C_1 C_3 L_1 R_3 g_m + C_1 C_3 L_1 R_5 g_m + C_1 C_3 L_1 + 2 C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3\right) + s^2 \left(2 C_1 C_3 R_1 R_3 g_m + C_1 C_3 R_1 R_5 g_m + C_1 C_3 R_1 + C_1 C_3 R_3 + C_1 C_3 R_5 + 2 C_1 L_1 g_m + 2 C_3 L_3 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_3 R_3 g_m + C_3 R_5 g_m + C_3\right)}$

10.707 INVALID-ORDER-707 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 s^5 + g_m + s^4 \left(-C_1 C_3 C_5 L_1 R_3 - C_1 C_3 C_5 L_3 R_1 + C_1 C_3 L_1 L_3 g_m\right) + s^3 \left(-C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_1 R_3 g_m + C_1 C_3 L_3 R_1 g_m - C_1 C_5 L_1 - C_3 C_5 L_3\right) + s^2 \left(C_1 C_3 R_1 R_3 g_m - C_1 C_5 R_1 + C_1 L_1 g_m - C_3 C_5 R_3 + C_3 L_3 g_m\right) + s \left(C_1 R_1 g_m + C_3 R_3 g_m\right.$$
$$\overline{2 C_1 C_3 C_5 L_1 L_3 g_m s^5 + s^4 \left(2 C_1 C_3 C_5 L_1 R_3 g_m + C_1 C_3 C_5 L_1 + 2 C_1 C_3 C_5 L_3 R_1 g_m + C_1 C_3 C_5 L_3\right) + s^3 \left(2 C_1 C_3 C_5 R_1 R_3 g_m + C_1 C_3 C_5 R_1 + C_1 C_3 C_5 R_3 + C_1 C_3 L_1 g_m + 2 C_1 C_5 L_1 g_m + 2 C_3 C_5 L_3 g_m\right) + s^2 \left(C_1 C_3 R_1 g_m + C_1 C_3 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_3 C_5 R_3 g_m + C_3 C_5\right)}$$

10.708 INVALID-ORDER-708 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_5s^5 + R_5g_m + s^4\left(-C_1C_3C_5L_1R_3R_5 - C_1C_3C_5L_3R_1R_5 + C_1C_3L_1L_3R_5g_m - C_1C_3L_1\right) + s^3\left(-C_1C_3C_5R_1R_3R_5 + C_1C_3L_1R_3R_5g_m - C_1C_3L_1R_3 + C_1C_3L_3R_1R_5g_m - C_1C_3L_3R_1 - \right.}{2C_1C_3C_5L_1L_3R_5g_ms^5 + 2g_m + s^4\left(2C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_5 + 2C_1C_3C_5L_3R_1R_5g_m + C_1C_3C_5L_3R_5 + 2C_1C_3L_1L_3g_m\right) + s^3\left(2C_1C_3C_5R_1R_3R_5g_m + C_1C_3C_5R_1R_5 + C_1C_3C_5R_3R_5 + 2C_1C_3L_1R_3g_m + C_1C_3L_1R_5g_m + C_1C_3L_1 + 2C_1C_3L_3R_1g_m + C_1C_3\right.}$$

10.709 INVALID-ORDER-709 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{g_m + s^5\left(C_1C_3C_5L_1L_3R_5g_m - C_1C_3C_5L_1L_3\right) + s^4\left(C_1C_3C_5L_1R_3R_5g_m - C_1C_3C_5L_1R_3 + C_1C_3C_5L_3R_1R_5g_m - C_1C_3C_5L_3R_1 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_3C_5R_1R_3R_5g_m - C_1C_3C_5R_1R_3 + C_1C_3L_1R_3g_m + C_1C_3L_3R_1g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_3C_5L_3R_5g_m\right.}{2C_1C_3C_5L_1L_3g_ms^5 + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + 2C_1C_3C_5L_3R_1g_m + C_1C_3C_5L_3\right) + s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1R_5g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_1C_3C_5R_5 + C_1C_3L_1g_m + 2C_1C_5L_1g_m + 2\right.}$$

10.710 INVALID-ORDER-710 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5g_ms^6 + g_m + s^5\left(-C_1C_3C_5L_1L_3 + C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_3L_5R_1g_m\right) + s^4\left(-C_1C_3C_5L_1R_3 - C_1C_3C_5L_3R_1 + C_1C_3C_5L_5R_1R_3g_m + C_1C_3L_1L_3g_m + C_1C_5L_1L_5g_m + C_3C_5L_3L_5g_m\right) + s^3\left(-C_1C_3C_5R_1R_3 + C_1C_3L_1R_3g_m + C_1C_3L_3R_1g_m - C\right.}{s^5\left(2C_1C_3C_5L_1L_3g_m + C_1C_3C_5L_1L_5g_m\right) + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1 + 2C_1C_3C_5L_3R_1g_m + C_1C_3C_5L_3 + C_1C_3C_5L_5R_1g_m + C_1C_3C_5L_5\right) + s^3\left(2C_1C_3C_5R_1R_3g_m + C_1C_3C_5R_1 + C_1C_3C_5R_3 + C_1C_3L_1g_m + 2C_1C_5L_1g_m\right.}$$

10.711 INVALID-ORDER-711 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5s^6 + s^5\left(-C_1C_3C_5L_1L_5R_3 - C_1C_3C_5L_3L_5R_1 + C_1C_3L_1L_3L_5g_m\right) + s^4\left(-C_1C_3C_5L_5R_1R_3 - C_1C_3L_1L_3 + C_1C_3L_1L_5R_3g_m + C_1C_3L_3L_5R_1g_m - C_1C_5L_1L_5 - C_3C_5L_3L_5\right) + s^3\left(-C_1C_3L\right.}{2C_1C_3C_5L_1L_3L_5g_ms^6 + 2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5 + 2C_1C_3C_5L_3L_5R_1g_m + C_1C_3C_5L_3L_5\right) + s^4\left(2C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_3 + 2C_1C_3L_1L_3g_m + C_1C_3L_1L_5g_m + 2C_1C_5L_1L_5g_m + 2C_3C_5L_3L_5g_m\right) + s^3\left(2C_1C_3L_1R_3g_m\right.}$$

10.712 INVALID-ORDER-712 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5g_ms^6 + g_m + s^5\left(C_1C_3C_5L_1L_3R_5g_m - C_1C_3C_5L_1L_3 + C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_3L_5R_1g_m\right) + s^4\left(C_1C_3C_5L_1R_3R_5g_m - C_1C_3C_5L_1R_3 + C_1C_3C_5L_3R_1R_5g_m - C_1C_3C_5L_3R_1 + C_1C_3C_5L_5R_1R_3g_m + C_1C_3L_1L_3g_m + C_1C_5L_1L_5g_m + C_3C_5L_3L_5\right.}{s^5\left(2C_1C_3C_5L_1L_3g_m + C_1C_3C_5L_1L_5g_m\right) + s^4\left(2C_1C_3C_5L_1R_3g_m + C_1C_3C_5L_1R_5g_m + C_1C_3C_5L_1 + 2C_1C_3C_5L_3R_1g_m + C_1C_3C_5L_3 + C_1C_3C_5L_5R_1g_m + C_1C_3C_5L_5\right) + s^3\left(2C_1C_3\right.}$$

10.713 INVALID-ORDER-713 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5R_5s^6 - R_5 + s^5\left(-C_1C_3C_5L_1L_5R_3R_5 - C_1C_3C_5L_3L_5R_1R_5 + C_1C_3L_1L_3L_5R_5g_m - C_1C_3L_1L_3L_5\right) + s^4\left(-C_1C_3C_5L_5R_1\right.}{2C_1C_3C_5L_1L_3L_5R_5g_ms^6 + 2R_5g_m + s^5\left(2C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_5 + 2C_1C_3C_5L_3L_5R_1R_5g_m + C_1C_3C_5L_3L_5R_5 + 2C_1C_3L_1L_3L_5g_m\right) + s^4\left(2C_1C_3C_5L_5R_1R_3R_5g_m + C_1C_3C_5L_5R_1R_5 + C_1C_3C_5L_5R_3R_5 + 2C_1C_3L_1L_3R_5g_m + 2C_1C_3L_1L_5R_3g_m + C\right.}$$

10.714 INVALID-ORDER-714 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_5g_m - C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_5R_3R_5g_m - C_1C_3C_5L_1L_5R_3 + C_1C_3C_5L_3L_5R_1R_5g_m - C_1C_3C_5L_3L_5R_1 + C_1C_3L_1L_3L_5g_m\right) + s^4\left(C_1C_3C_5L_5R_1R_3R_5g_m - C_1C_3C_5L_5R_1R_3 + C_1C_3L_1L_3R_5g_m - C_1C_3L_1L_3 + C_1C_3L_1L_5R_3g\right.}{2C_1C_3C_5L_1L_3L_5g_ms^6 + 2g_m + s^5\left(2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5 + 2C_1C_3C_5L_3L_5R_1g_m + C_1C_3C_5L_3L_5\right) + s^4\left(2C_1C_3C_5L_5R_1R_3g_m + C_1C_3C_5L_5R_1R_5g_m + C_1C_3C_5L_5R_1 + C_1C_3C_5L_5R_3 + C_1C_3C\right.}$$

10.715 INVALID-ORDER-715 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_5g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_5g_m - C_1C_3C_5L_1L_3L_5\right) + s^5\left(-C_1C_3C_5L_1L_3R_5 + C_1C_3C_5L_1L_5R_3R_5g_m - C_1C_3C_5L_1L_5R_3 - C_1C_3C_5L_3L_5R_1R_5g_m - C_1C_3C_5L_3L_5R_1\right) + s^4\left(-C_1C_3C_5L_1R_3R_5 - C_1\right.}{2C_1C_3C_5L_1L_3L_5g_ms^6 + 2g_m + s^5\left(2C_1C_3C_5L_1L_3R_5g_m + 2C_1C_3C_5L_1L_5R_3g_m + C_1C_3C_5L_1L_5R_5g_m + C_1C_3C_5L_1L_5 + 2C_1C_3C_5L_3L_5R_1g_m + C_1C_3C_5L_3L_5\right) + s^4\left(2C_1C_3C_5L_1R_3R_5g_m + C_1C_3C_5L_1R_5 + 2C_1C_3C_5L_3R_1R_5g_m + C_1C_3C_5L_3R_5 + 2C_1C_3C_5L_5R_1R_3g\right.}$$

10.716 INVALID-ORDER-716 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_1L_1L_3R_3R_5g_m - C_1L_1L_3R_3\right) + s^2\left(C_1L_3R_1R_3R_5g_m - C_1L_3R_1R_3\right) + s\left(L_3R_3R_5g_m - L_3R_3\right)}{R_3R_5g_m + R_3 + s^4\left(C_1C_3L_1L_3R_3R_5g_m + C_1C_3L_1L_3R_3\right) + s^3\left(C_1C_3L_3R_1R_3R_5g_m + C_1C_3L_3R_1R_3 + C_1C_3L_3R_3R_5 + 2C_1L_1L_3R_3g_m + C_1L_1L_3R_5g_m + C_1L_1L_3\right) + s^2\left(C_1L_1R_3R_5g_m + C_1L_1R_3 + 2C_1L_3R_1R_3g_m + C_1L_3R_1R_5g_m + C_1L_3R_1 + C_1L_3R_3 + C_1L_3R_5 +\right.}$$

10.717 INVALID-ORDER-717 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 R_3 s^4 + L_3 R_3 g_m s + s^3 \left(-C_1 C_5 L_3 R_1 R_3 + C_1 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_3 R_1 R_3 g_m - C_5 L_3 R_3\right)}{C_1 C_3 C_5 L_1 L_3 R_3 s^5 + R_3 g_m + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 g_m + 2 C_1 C_5 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_3 + C_1 C_5 L_1 R_3 + 2 C_1 C_5 L_3 R_1 R_3 g_m + C_1 C_5 L_3 R_1 + C_1 C_5 L_3 R_3 + C_1 L_1 L_3 g_m + C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m\right.$$

10.718 INVALID-ORDER-718 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 R_3 R_5 s^4 + s^3 \left(-C_1 C_5 L_3 R_1 R_3 R\right.}{C_1 C_3 C_5 L_1 L_3 R_3 R_5 s^5 + R_3 R_5 g_m + R_3 + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_3 + 2 C_1 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m + C_1 C_3 L_3 R_1 R_3 + C_1 C_3 L_3 R_3 R_5 + C_1 C_5 L_1 R_3 R_5 + 2 C_1 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_5 L_3 R_1 R_5 + C\right.$$

10.719 INVALID-ORDER-719 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_3 R_3 g_m s + s^4 \left(C_1 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_5 L_1 L_3\right.}{R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_3 L_1 L_3 R_3 g_m + 2 C_1 C_5 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 R_5 g_m + C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_3 + C_1 C_5 L_1 R_3 R_5 g_m + C_1 C_5 L_1\right.$$

10.720 INVALID-ORDER-720 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_3 L_5 R_3 g_m s^5 + L_3 R_3 g_m s + s^4 \left(-C_1 C_5 L_1\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 g_m + 2 C_1 C_5 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_3 L_5 R_1 g_m + C_1 C_5 L_3 L_5 + C_3 C_5 L_3 L_5 R\right.$$

10.721 INVALID-ORDER-721 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 L_5 R_3 s^5 - L_3 R_3 s + s^4 \left(-C_1 C_5 L_3\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 s^6 + R_3 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_3 g_m + 2 C_1 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_3 L_5 R_1 R_3 g_m + C_1 C_3 L_3 L_5 R_3 + C_1 C_5 L_1 L_5 R_3 + 2 C_1 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_5 L_3 L_5 R_1 + C_1 C_5 L_3 L_5 R_3 + C_1 L_1 L_3 L_5 g_m\right.$$

10.722 INVALID-ORDER-722 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 C_5 L_3 R_3 R_5 + C_1 C_3 L_1 L_3 R_3 g_m + 2 C_1 C_5 L_1 L_3 R_3 g_m + C_1 C_5 L_1\right.$$

10.723 INVALID-ORDER-723 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{}{C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^6 + R_3 R_5 + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 L_1 L_3 L_5 R_3 + 2 C_1 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 + C_1 C_3 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 L_3 L_5 R_1 R_3 + C_1 C_3 L_3 L_5 R_3 R_5 + C_1 C_5 L_1 L_5 R_3 R_5 + 2 C_1\right.$$

10.724 INVALID-ORDER-724 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{}{R_3 R_5 g_m + R_3 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 R_5 + C_1 C_3 L_1 L_3 L_5 R_3 g_m + 2 C_1 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m + C_1 C_3 L\right.$$

10.725 INVALID-ORDER-725 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{}{R_3 R_5 g_m + R_3 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_3 L_5 R_3 R_5 + 2 C_1 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 + C_1 C_3\right.$$

10.726 INVALID-ORDER-726 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m - C_1 C_3 L_3 R_1 R_3 + C_1 L_1 L_3 R_5 g_m - C_1 L_1 L_3\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_1 L_3 R_1 R_5 g_m - C_1 L_3 R_1 + C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right) + s \left(\right.}{2R_3 g_m + R_5 g_m + s^4 \left(2C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(2C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5 + 2C_1 L_1 L_3 g_m\right) + s^2 \left(2C_1 L_1 R_3 g_m + C_1 L_1 R_5 g_m + C_1 L_1 + 2C_1 L_3 R_1 g_m + C_1 L_3 + 2C_3 L_3 R_3 g_m + C_3 L_3 R$$

10.727 INVALID-ORDER-727 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_3 s^5 + R_3 g_m + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 g_m - C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m - C_1 C_5 L_1 R_3 - C_1 C_5 L_3 R_1 + C_1 L_1 L_3 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(-C_1 C_5 R_1 R_3 + C_1 L_1 R_3 g_m + C_1 L_3 R\right.}{g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 L_1 L_3 g_m + 2C_1 C_5 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 + 2C_1 C_5 L_3 R_1 g_m + C_1 C_5 L_3 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3\right) +$$

10.728 INVALID-ORDER-728 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_3 R_5 s^5 + R_3 R_5 g_m - R_3 + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3 - C_1 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m - C_1 C_3 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_5 g_m - C_1 C_3 L_1 L_3 + C_1 C_5 L_1 L_3 R_5 g_m - C_1 C_5 L_1 L_3\right) + s^2 \left(C_1 C_3 L_1 R_3 R_5 g_m - C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3 + C_1 C_5 L_3 R_1 R_5 g_m - C_1 C_5 L_3 R_1 + C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right) + s \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_1 L_3 R_1 R_5 g_m - C_1 L_3 R_1 + C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right) + R_5 g_m - R_3}{2R_3 g_m + R_5 g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 C_5 L_3 R_3 R_5 + 2C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3 + 2C_1 C_5 L_1 L_3 R_5 g_m\right) + s^3 \left(2C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3$$

10.729 INVALID-ORDER-729 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 R_5 g_m - C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3 + C_1 C_5 L_3 R_1 R_5 g\right.}{g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 L_1 L_3 g_m + 2C_1 C_5 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1$$

10.730 INVALID-ORDER-730 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 g_m - C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5 R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1\right.}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 L_1 L_3 g_m + 2C_1 C_5 L_1 L_3 g_m + C_1 C_5 L_1 L_5 g_m + C_3 C_5 L_3 L_5 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_1$$

10.731 INVALID-ORDER-731 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_3 s^6 - R_3 + s^5 \left(-C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_3 g_m - C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(-C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_3 L_5 R_1 R_3 g_m -\right.}{2R_3 g_m + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 L_1 L_3 L_5 g_m + 2C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(2C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_3 L_5 R_1 g_m + C_1 C_3 L_3 L_5 + 2C_1 C_5 L_1 L_5 R_3 g_m + C_1 C_5$$

10.732 INVALID-ORDER-732 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_5 L_1 L_3 R_5 g_m - C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_3 g_m + C_1\right.}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 L_1 L_3 g_m + 2C_1 C_5 L_1 L_3 g_m\right.$

10.733 INVALID-ORDER-733 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 s^6 - R_3 R_5 + s^5 \left(-C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 L_5 R_3 R_5 g_m - C_1 C_3 L_1 L_3 L_5 R_3 - C_1 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(-C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3 - C_1 C_5 L_1 L_3 R_5 + C_1 C_5 L_1 L_5 R_3 R_5 g_m - C_1 C_5 L_1 L_5 R_3 + C_1 C_5 L_3 L_5 R_1 R_5 g_m - C_1 C_5 L_3 L_5 R_1 + C_3 C_5 L_3 L_5 R_3 R_5 g_m - C_3 C_5 L_3 L_5 R_3\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 g_m - C_1 C_3 L_1 R_3 + C_1 C_5 L_1 R_3 R_5 g_m - C_1 C_5 L_1 R_3 + C_1 C_5 L_3 R_1 R_5 g_m - C_1 C_5 L_3 R_1 + C_3 C_5 L_3 R_3 R_5 g_m - C_3 C_5 L_3 R_3\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_1 L_3 R_1 R_5 g_m - C_1 L_3 R_1 + C_3 L_3 R_3 R_5 g_m - C_3 L_3 R_3\right) + s \left(C_1 L_1 R_5 g_m - C_1 L_1 + C_1 L_3 R_5 g_m - C_1 L_3 + C_3 L_3 R_5 g_m - C_3 L_3\right) + R_5 g_m - R_3}{2R_3 g_m + R_5 g_m + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(2C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 + C_1 C_3 C_5 L_3 L_5 R_3 R_5 + 2C_1 C_3 L_1 L_3 L_5 R_3 g_m + C_1 C_3 L_1 L_3 L_5 R_5 g_m + C_1 C_3 L_1 L_3 L_5 + 2C_1 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^4 \left(2C_1 C_3 L_1 L_3 R_3 R_5 g_m + C\right.$

10.734 INVALID-ORDER-734 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_3 g_m + C_1 C_5 L_1 L_3 L_5 R_5 g_m - C_1 C_5 L_1 L_3\right.}{2R_3 g_m + R_5 g_m + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5 + C_1 C_3 L_1 L_3 L_5 g_m + 2C_1 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(2C_1 C_3 L_1 L_3 R_3\right.$

10.735 INVALID-ORDER-735 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{C_3 L_3 R_3 s^2 + L_3 s + R_3}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(-\right.}{2R_3 g_m + R_5 g_m + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5 + 2C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5 + 2C_1 C_5 L_1 L_3$

10.736 INVALID-ORDER-736 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_3 R_5 g_m - R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 g_m - C_1 C_3 L_3 R_1 R_3\right) + s^2 \left(C_1 L_1 R_3 R_5 g_m - C_1 L_1 R_3 + C_3 L_3 R_3 R_5 g_m - C_3 L_3}{2R_3 g_m + R_5 g_m + s^4 \left(2C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_3 R_5 g_m + C_1 C_3 L_1 R_3 + 2C_1 C_3 L_3 R_1 R_3 g_m + C_1 C_3 L_3 R_1 R_5 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_3 + C_1 C_3 L_3 R_5\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_3 R_5 + 2C_1 L_1 R_3 g_m + C}$$

10.737 INVALID-ORDER-737 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_3 s^5 + R_3 g_m + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 g_m\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 g_m - C_1 C_5 L_1 R_3 - C_3 C_5 L_3 R_3\right) + s^2 \left(-C_1 C_5 R_1 R_3 + C_1 L_1}{g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 + 2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_1 R_3 g_m + C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + 2C_1 C_5 L_1 R_3 g_m + C_1 C_5 L_1 + 2C_3 C_5 L_3 R_3 g_m + C_3 C_5 L_3}$$

10.738 INVALID-ORDER-738 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_3 R_5 s^5 + R_3 R_5 g_m - R_3 + s^4 \left(-C_1 C_3 C_5 L_3}{2R_3 g_m + R_5 g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 + 2C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 C_5 L_3 R_3 R_5 + 2C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 R_5 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 + C_1 C_3 L_1 R_3 R_5 g_m + C_1 C_3 L_1 R_3}$$

10.739 INVALID-ORDER-739 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_3 R_1 R_3 + C}{g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_3 + 2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_3 R_5 + C_1 C_3 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 R_1}$$

10.740 INVALID-ORDER-740 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m\right) + s^4 \left(-C_1 C_3 C_5 L_3 R_1 R_3 +}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 + 2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_3 R_3 + C_1 C_3 C_5 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_5 R_3 + C_1 C_3 L_1 L_3 g_m}$$

10.741 INVALID-ORDER-741 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_3 s^6 - R_3 + s^5 \left(-C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3}{2R_3 g_m + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 + 2C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 + 2C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 R_3 g_m + C_1 C_3 L_3 L_5 R_1 g_m + C}$$

10.742 INVALID-ORDER-742 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m s^6 + R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_3 R_5 g_m -}{C_1 C_3 C_5 L_1 L_3 L_5 g_m s^6 + g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_3 + 2C_1 C_3 C_5 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_3 R_1 + C_1}$$

10.743 INVALID-ORDER-743 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{2R_3 R_5 g_m + R_5 + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 R_5 + 2C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 + C_1 C_3 C_5 L_3 L_5 R_3 R_5 + 2C_1 C_3 L_1 L_3 L_5 R_3 g_m + C_1 C_3 L_1 L_3 L_5 R_5 g_m + C_1 C_3 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 R_5 + 2C_1}$$

10.744 INVALID-ORDER-744 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{2R_3 g_m + R_5 g_m + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_3 + 2C_1 C_3 C_5 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_3 L_5 R_1 + C_1 C_3 C_5 L_3 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_5 + C_1 C_3 L_1 L_3 L_5 g_m}$$

10.745 INVALID-ORDER-745 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{}{2R_3 g_m + R_5 g_m + s^6 \left(2C_1C_3C_5L_1L_3L_5R_3g_m + C_1C_3C_5L_1L_3L_5R_5g_m + C_1C_3C_5L_1L_3L_5\right) + s^5 \left(2C_1C_3C_5L_1L_3R_3R_5g_m + C_1C_3C_5L_1L_3R_5 + C_1C_3C_5L_1L_5R_3R_5g_m + C_1C_3C_5L_1L_5R_3 + 2C_1C_3C_5L_3L_5R_1R_3g_m + C_1C_3C_5L_3L_5R_1R_5g_m + C_1C_3C_5L_3L_5R_1 + C_1C_3C_5\right.}$$

10.746 INVALID-ORDER-746 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_5L_1R_1R_3s^2 + L_1R_1R_3g_ms}{C_1C_5L_1R_1R_3s^3 + R_1 + s^2\left(C_1L_1R_1 + 2C_5L_1R_1R_3g_m + C_5L_1R_1 + C_5L_1R_3\right) + s\left(C_5R_1R_3 + L_1R_1g_m + L_1\right)}$$

10.747 INVALID-ORDER-747 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1R_1R_3R_5s^2 + s\left(L_1R_1R_3R_5g_m - L_1R_1R_3\right)}{C_1C_5L_1R_1R_3R_5s^3 + R_1R_3 + R_1R_5 + s^2\left(C_1L_1R_1R_3 + C_1L_1R_1R_5 + 2C_5L_1R_1R_3R_5g_m + C_5L_1R_1R_5 + C_5L_1R_3R_5\right) + s\left(C_5R_1R_3R_5 + 2L_1R_1R_3g_m + L_1R_1R_5g_m + L_1R_1 + L_1R_3 + L_1R_5\right)}$$

10.748 INVALID-ORDER-748 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{L_1R_1R_3g_ms + s^2\left(C_5L_1R_1R_3R_5g_m - C_5L_1R_1R_3\right)}{R_1 + s^3\left(C_1C_5L_1R_1R_3 + C_1C_5L_1R_1R_5\right) + s^2\left(C_1L_1R_1 + 2C_5L_1R_1R_3g_m + C_5L_1R_1R_5g_m + C_5L_1R_1 + C_5L_1R_3 + C_5L_1R_5\right) + s\left(C_5R_1R_3 + C_5R_1R_5 + L_1R_1g_m + L_1\right)}$$

10.749 INVALID-ORDER-749 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ R_3,\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_1L_5R_1R_3g_ms^3 - C_5L_1R_1R_3s^2 + L_1R_1R_3g_ms}{C_1C_5L_1L_5R_1s^4 + R_1 + s^3\left(C_1C_5L_1R_1R_3 + C_5L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + 2C_5L_1R_1R_3g_m + C_5L_1R_1 + C_5L_1R_3 + C_5L_5R_1\right) + s\left(C_5R_1R_3 + L_1R_1g_m + L_1\right)}$$

10.750 INVALID-ORDER-750 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ R_3,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_1R_3s^3 + L_1L_5R_1R_3g_ms^2 - L_1R_1R_3s}{C_1C_5L_1L_5R_1R_3s^4 + R_1R_3 + s^3\left(C_1L_1L_5R_1 + 2C_5L_1L_5R_1R_3g_m + C_5L_1L_5R_1 + C_5L_1L_5R_3\right) + s^2\left(C_1L_1R_1R_3 + C_5L_5R_1R_3 + L_1L_5R_1g_m + L_1L_5\right) + s\left(2L_1R_1R_3g_m + L_1R_1 + L_1R_3 + L_5R_1\right)}$$

10.751 INVALID-ORDER-751 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ R_3,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_1L_5R_1R_3g_ms^3 + L_1R_1R_3g_ms + s^2\left(C_5L_1R_1R_3R_5g_m - C_5L_1R_1R_3\right)}{C_1C_5L_1L_5R_1s^4 + R_1 + s^3\left(C_1C_5L_1R_1R_3 + C_1C_5L_1R_1R_5 + C_5L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + 2C_5L_1R_1R_3g_m + C_5L_1R_1R_5g_m + C_5L_1R_1 + C_5L_1R_3 + C_5L_1R_5 + C_5L_5R_1\right) + s\left(C_5R_1R_3 + C_5R_1R_5 + L_1R_1g_m + L_1\right)}$$

10.752 INVALID-ORDER-752 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ R_3,\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_1R_3R_5s^3 - L_1R_1R_3R_5s + s^2\left(L_1L_5R_1R_3R_5g_m - L_1L_5R_1R_3\right)}{C_1C_5L_1L_5R_1R_3R_5s^4 + R_1R_3R_5 + s^3\left(C_1L_1L_5R_1R_3 + C_1L_1L_5R_1R_5 + 2C_5L_1L_5R_1R_3R_5g_m + C_5L_1L_5R_1R_5 + C_5L_1L_5R_3R_5\right) + s^2\left(C_1L_1R_1R_3R_5 + C_5L_5R_1R_3R_5 + 2L_1L_5R_1R_3g_m + L_1L_5R_1R_5g_m + L_1L_5R_1 + L_1L_5R_3 + L_1L_5R_5\right) + s\left(2L_1R_1R_3R_5g_m + L_1R_1R_5\right.}$$

10.753 INVALID-ORDER-753 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ R_3,\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{L_1L_5R_1R_3g_ms^2 + s^3\left(C_5L_1L_5R_1R_3R_5g_m - C_5L_1L_5R_1R_3\right) + s\left(L_1R_1R_3R_5g_m - L_1R_1R_3\right)}{R_1R_3 + R_1R_5 + s^4\left(C_1C_5L_1L_5R_1R_3 + C_1C_5L_1L_5R_1R_5\right) + s^3\left(C_1L_1L_5R_1 + 2C_5L_1L_5R_1R_3g_m + C_5L_1L_5R_1R_5g_m + C_5L_1L_5R_1 + C_5L_1L_5R_3 + C_5L_1L_5R_5\right) + s^2\left(C_1L_1R_1R_3 + C_1L_1R_1R_5 + C_5L_5R_1R_3 + C_5L_5R_1R_5 + L_1L_5R_1g_m + L_1L_5\right) + s\left(2L_1R_1R_3g_m + L_1R\right.}$$

10.754 INVALID-ORDER-754 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_1 R_3 R_5 s^2 + s^3 \left(C_5 L_1 L_5 R_1 R_3 R_5 g_m - C_5 L_1 L_5 R_1 R_3\right) + s\left(L_1 R_1 R_3 R_5 g_m - L_1 R_1 R_3\right)}{R_1 R_3 + R_1 R_5 + s^4 \left(C_1 C_5 L_1 L_5 R_1 R_3 + C_1 C_5 L_1 L_5 R_1 R_5\right) + s^3 \left(C_1 C_5 L_1 R_1 R_3 R_5 + 2 C_5 L_1 L_5 R_1 R_3 g_m + C_5 L_1 L_5 R_1 R_5 g_m + C_5 L_1 L_5 R_1 + C_5 L_1 L_5 R_3 + C_5 L_1 L_5 R_5\right) + s^2 \left(C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_5 + 2 C_5 L_1 R_1 R_3 R_5 g_m + C_5 L_1 R_1 R_5 + C_5 L_1 R_3 R_5 + C_5 L_5 R_1 R_3 + C_5 L\right.$$

10.755 INVALID-ORDER-755 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{C_1 C_3 L_1 R_1 R_5 s^3 + R_1 + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 R_5 g_m + C_3 L_1 R_1 + C_3 L_1 R_5\right) + s\left(C_3 R_1 R_5 + 2 L_1 R_1 g_m + L_1\right)}$$

10.756 INVALID-ORDER-756 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_1 R_5 s^2 + s\left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{R_1 + s^3 \left(C_1 C_3 L_1 R_1 R_5 + C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 R_1 R_5\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 R_5 g_m + C_3 L_1 R_1 + C_3 L_1 R_5 + 2 C_5 L_1 R_1 R_5 g_m + C_5 L_1 R_5\right) + s\left(C_3 R_1 R_5 + C_5 R_1 R_5 + 2 L_1 R_1 g_m + L_1\right)}$$

10.757 INVALID-ORDER-757 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_1 g_m + s\left(C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_1 C_3 C_5 L_1 R_1 R_5 s^3 + C_3 R_1 + C_5 R_1 + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_1 R_5 g_m + C_3 C_5 L_1 R_1 + C_3 C_5 L_1 R_5\right) + s\left(C_3 C_5 R_1 R_5 + C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.758 INVALID-ORDER-758 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_1 g_m s^2 - C_5 L_1 R_1 s + L_1 R_1 g_m}{C_1 C_3 C_5 L_1 L_5 R_1 s^4 + C_3 R_1 + C_5 R_1 + s^3 \left(C_3 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_1 L_5\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_1 + C_3 C_5 L_5 R_1\right) + s\left(C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.759 INVALID-ORDER-759 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_1 s^3 + L_1 L_5 R_1 g_m s^2 - L_1 R_1 s}{R_1 + s^4 \left(C_1 C_3 L_1 L_5 R_1 + C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_1\right) + s^3 \left(C_3 L_1 L_5 R_1 g_m + C_3 L_1 L_5 + 2 C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 + C_3 L_5 R_1 + C_5 L_5 R_1\right) + s\left(2 L_1 R_1 g_m + L_1\right)}$$

10.760 INVALID-ORDER-760 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_1 g_m s^2 + L_1 R_1 g_m + s\left(C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_1 C_3 C_5 L_1 L_5 R_1 s^4 + C_3 R_1 + C_5 R_1 + s^3 \left(C_1 C_3 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_1 L_5\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_1 R_5 g_m + C_3 C_5 L_1 R_1 + C_3 C_5 L_1 R_5 + C_3 C_5 L_5 R_1\right) + s\left(C_3 C_5 R_1 R_5 + C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.761 INVALID-ORDER-761 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_1 R_5 s^3 - L_1 R_1 R_5 s + s^2 \left(L_1 L_5 R_1 R_5 g_m - L_1 L_5 R_1\right)}{R_1 R_5 + s^4 \left(C_1 C_3 L_1 L_5 R_1 R_5 + C_1 C_5 L_1 L_5 R_1 R_5 + C_3 C_5 L_1 L_5 R_1 R_5\right) + s^3 \left(C_1 L_1 L_5 R_1 + C_3 L_1 L_5 R_1 R_5 g_m + C_3 L_1 L_5 R_1 + C_3 L_1 L_5 R_5 + 2 C_5 L_1 L_5 R_1 R_5 g_m + C_5 L_1 L_5 R_5\right) + s^2 \left(C_1 L_1 R_1 R_5 + C_3 L_1 R_1 R_5 + C_3 L_5 R_1 R_5 + C_5 L_5 R_1 R_5 + 2 L_1 L_5 R_1 g_m + L_1 L_5\right) + s\left(2 L_1 R_1\right.$$

10.762 INVALID-ORDER-762 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_1 L_5 R_1 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_1 R_5 g_m - C_5 L_1 L_5 R_1\right) + s\left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{C_1 C_3 C_5 L_1 L_5 R_1 R_5 s^5 + R_1 + s^4 \left(C_1 C_3 L_1 L_5 R_1 + C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_5 + C_3 C_5 L_5 R_1 R_5 + C_3 L_1 L_5 R_1 g_m + C_3 L_1 L_5 + 2 C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 R_5 g_m + C_3 L_1 R_1 + C_3 L_1\right.$

10.763 INVALID-ORDER-763 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_1 R_5 s^2 + s^3\left(C_5 L_1 L_5 R_1 R_5 g_m - C_5 L_1 L_5 R_1\right) + s\left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{C_1 C_3 C_5 L_1 L_5 R_1 R_5 s^5 + R_1 + s^4\left(C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_5\right) + s^3\left(C_1 C_3 L_1 R_1 R_5 + C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 R_1 R_5 + C_3 C_5 L_5 R_1 R_5 + 2 C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right) + s^2\left(C_1 L_1 R_1 + C_3 L_1 R_1 R_5 g_m + C_3 L_1 R_1 + C_3 L_1 R_5 + 2 C_5 \right.}$$

10.764 INVALID-ORDER-764 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s\left(L_1 R_1 R_3 R_5 g_m - L_1 R_1 R_3\right)}{C_1 C_3 L_1 R_1 R_3 R_5 s^3 + R_1 R_3 + R_1 R_5 + s^2\left(C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_5 + C_3 L_1 R_1 R_3 R_5 g_m + C_3 L_1 R_1 R_3 + C_3 L_1 R_3 R_5\right) + s\left(C_3 R_1 R_3 R_5 + 2 L_1 R_1 R_3 g_m + L_1 R_1 R_5 g_m + L_1 R_1 + L_1 R_3 + L_1 R_5\right)}$$

10.765 INVALID-ORDER-765 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_1 R_3 s^2 + L_1 R_1 R_3 g_m s}{R_1 + s^3\left(C_1 C_3 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_3 + C_3 C_5 L_1 R_1 R_3\right) + s^2\left(C_1 L_1 R_1 + C_3 L_1 R_1 R_3 g_m + C_3 L_1 R_3 + 2 C_5 L_1 R_1 R_3 g_m + C_5 L_1 R_1 + C_5 L_1 R_3\right) + s\left(C_3 R_1 R_3 + C_5 R_1 R_3 + L_1 R_1 g_m + L_1\right)}$$

10.766 INVALID-ORDER-766 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_1 R_3 R_5 s^2 + s\left(L_1 R_1 R_3 R_5 g_m - L_1 R_1 R_3\right)}{R_1 R_3 + R_1 R_5 + s^3\left(C_1 C_3 L_1 R_1 R_3 R_5 + C_1 C_5 L_1 R_1 R_3 R_5 + C_3 C_5 L_1 R_1 R_3 R_5\right) + s^2\left(C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_5 + C_3 L_1 R_1 R_3 R_5 g_m + C_3 L_1 R_1 R_3 + C_3 L_1 R_3 R_5 + 2 C_5 L_1 R_1 R_3 R_5 g_m + C_5 L_1 R_1 R_5 + C_5 L_1 R_3 R_5\right) + s\left(C_3 R_1 R_3 R_5 + C_5 R_1 R_3 R_5 + 2 L_1 R_1 R_3 g_m + L_1 R_1 R_5 g\right.}$$

10.767 INVALID-ORDER-767 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_1 R_3 g_m s + s^2\left(C_5 L_1 R_1 R_3 R_5 g_m - C_5 L_1 R_1 R_3\right)}{C_1 C_3 C_5 L_1 R_1 R_3 R_5 s^4 + R_1 + s^3\left(C_1 C_3 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 R_1 R_3 R_5 g_m + C_3 C_5 L_1 R_1 R_3 + C_3 C_5 L_1 R_3 R_5\right) + s^2\left(C_1 L_1 R_1 + C_3 C_5 R_1 R_3 R_5 + C_3 L_1 R_1 R_3 g_m + C_3 L_1 R_3 + 2 C_5 L_1 R_1 R_3 g_m + C_5 L_1 R_1 R_5 g_m + C_5 L_1 R_1 + C_5 L_1 R_3 + C_5 L_1 R\right.}$$

10.768 INVALID-ORDER-768 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_1 R_3 g_m s^3 - C_5 L_1 R_1 R_3 s^2 + L_1 R_1 R_3 g_m s}{C_1 C_3 C_5 L_1 L_5 R_1 R_3 s^5 + R_1 + s^4\left(C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_5 R_3\right) + s^3\left(C_1 C_3 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_3 + C_3 C_5 L_1 R_1 R_3 + C_3 C_5 L_5 R_1 R_3 + C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right) + s^2\left(C_1 L_1 R_1 + C_3 L_1 R_1 R_3 g_m + C_3 L_1 R_3 + 2 C_5 L_1 R_1 R_3 g_m + C_5 L_1 R_1 + C_5 L\right.}$$

10.769 INVALID-ORDER-769 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_1 R_3 s^3 + L_1 L_5 R_1 R_3 g_m s^2 - L_1 R_1 R_3 s}{R_1 R_3 + s^4\left(C_1 C_3 L_1 L_5 R_1 R_3 + C_1 C_5 L_1 L_5 R_1 R_3 + C_3 C_5 L_1 L_5 R_1 R_3\right) + s^3\left(C_1 L_1 L_5 R_1 + C_3 L_1 L_5 R_1 R_3 g_m + C_3 L_1 L_5 R_3 + 2 C_5 L_1 L_5 R_1 R_3 g_m + C_5 L_1 L_5 R_1 + C_5 L_1 L_5 R_3\right) + s^2\left(C_1 L_1 R_1 R_3 + C_3 L_1 R_1 R_3 + C_3 L_5 R_1 R_3 + C_5 L_5 R_1 R_3 + L_1 L_5 R_1 g_m + L_1 L_5\right) + s\left(2 L_1 R_1 R_3\right.}$$

10.770 INVALID-ORDER-770 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_1 R_3 g_m s^3 + L_1 R_1 R_3 g_m s + s^2\left(C_5 L_1 R_1 R_3 R_5 g_m - C_5 L_1 R_1 R_3\right.}{C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 s^5 + R_1 + s^4\left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 + C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_5 R_3\right) + s^3\left(C_1 C_3 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 R_1 R_3 R_5 g_m + C_3 C_5 L_1 R_1 R_3 + C_3 C_5 L_1 R_3 R_5 + C_3 C_5 L_5 R_1 R_3 + C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right)}$$

10.771 INVALID-ORDER-771 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 R_1 R_3 R_5 s^3 - L_1 R_1 R_3 R_5 s + s^2\left(L_1 L_5 R_1 R_3 R_5 g_m - L_1 L_5 R_1 R_3\right)}{R_1 R_3 R_5 + s^4\left(C_1 C_3 L_1 L_5 R_1 R_3 R_5 + C_1 C_5 L_1 L_5 R_1 R_3 R_5 + C_3 C_5 L_1 L_5 R_1 R_3 R_5\right) + s^3\left(C_1 L_1 L_5 R_1 R_3 + C_1 L_1 L_5 R_1 R_5 + C_3 L_1 L_5 R_1 R_3 R_5 g_m + C_3 L_1 L_5 R_1 R_3 + C_3 L_1 L_5 R_3 R_5 + 2 C_5 L_1 L_5 R_1 R_3 R_5 g_m + C_5 L_1 L_5 R_1 R_5 + C_5 L_1 L_5 R_3 R_5\right) + s^2\left(C_1 L_1 R_1 R_3 R_5 + C_3 L_1 R_1 R_3 R_5\right.}$$

10.772 INVALID-ORDER-772 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_1 L_5 R_1 R_3 g_m s^2 + s^3\left(C_5 L_1\right.}{C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 s^5 + R_1 R_3 + R_1 R_5 + s^4\left(C_1 C_3 L_1 L_5 R_1 R_3 + C_1 C_5 L_1 L_5 R_1 R_3 + C_1 C_5 L_1 L_5 R_1 R_5 + C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_1 R_3 + C_3 C_5 L_1 L_5 R_3 R_5\right) + s^3\left(C_1 C_3 L_1 R_1 R_3 R_5 + C_1 L_1 L_5 R_1 + C_3 C_5 L_5 R_1 R_3 R_5 + C_3 L_1 L_5 R_1 R_3 g_m + C_3 L_1 L_5 R_3 + 2 C_5\right.}$$

10.773 INVALID-ORDER-773 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_1 R_3 R_5 s^2 + s^3 \left(C_5 L_1 L_5 \right.}{C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 s^5 + R_1 R_3 + R_1 R_5 + s^4 \left(C_1 C_5 L_1 L_5 R_1 R_3 + C_1 C_5 L_1 L_5 R_1 R_5 + C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_1 R_3 + C_3 C_5 L_1 L_5 R_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 R_5 + C_1 C_5 L_1 R_1 R_3 R_5 + C_3 C_5 L_1 R_1 R_3 R_5 + C_3 C_5 L_5 R_1 R_3 R_5 + 2 C_5 L_1 L_5 R_1 R_3 g_m + C_5 L_1 L_5 R_1 \right.}$$

10.774 INVALID-ORDER-774 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2 \left(C_3 L_1 R_1 R_3 R_5 g_m - C_3 L_1 R_1 R_3\right) + s \left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{R_1 + s^3 \left(C_1 C_3 L_1 R_1 R_3 + C_1 C_3 L_1 R_1 R_5\right) + s^2 \left(C_1 L_1 R_1 + 2 C_3 L_1 R_1 R_3 g_m + C_3 L_1 R_1 R_5 g_m + C_3 L_1 R_1 + C_3 L_1 R_3 + C_3 L_1 R_5\right) + s \left(C_3 R_1 R_3 + C_3 R_1 R_5 + 2 L_1 R_1 g_m + L_1\right)}$$

10.775 INVALID-ORDER-775 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 R_1 R_3 s^2 + L_1 R_1 g_m + s \left(C_3 L_1 R_1 R_3 g_m - C_5 L_1 R_1\right)}{C_1 C_3 C_5 L_1 R_1 R_3 s^3 + C_3 R_1 + C_5 R_1 + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + 2 C_3 C_5 L_1 R_1 R_3 g_m + C_3 C_5 L_1 R_1 + C_3 C_5 L_1 R_3\right) + s \left(C_3 C_5 R_1 R_3 + C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.776 INVALID-ORDER-776 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 R_1 R_3 R_5 s^3 + s^2 \left(C_3 L_1 R_1 R_3 R_5 g_m - C_3 L_1 R_1 R_3 - C_5 L_1 R_1 R_5\right) + s \left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{C_1 C_3 C_5 L_1 R_1 R_3 R_5 s^4 + R_1 + s^3 \left(C_1 C_3 L_1 R_1 R_3 + C_1 C_3 L_1 R_1 R_5 + C_1 C_5 L_1 R_1 R_5 + 2 C_3 C_5 L_1 R_1 R_3 R_5 g_m + C_3 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 R_3 R_5\right) + s^2 \left(C_1 L_1 R_1 + C_3 C_5 R_1 R_3 R_5 + 2 C_3 L_1 R_1 R_3 g_m + C_3 L_1 R_1 R_5 g_m + C_3 L_1 R_1 + C_3 L_1 R_3 + C_3 L_1 R_5 + 2 C_5 L_1 R_1 R_5 g_m + C_5 L_1 \right.}$$

10.777 INVALID-ORDER-777 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_1 g_m + s^2 \left(C_3 C_5 L_1 R_1 R_3 R_5 g_m - C_3 C_5 L_1 R_1 R_3\right) + s \left(C_3 L_1 R_1 R_3 g_m + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_3 R_1 + C_5 R_1 + s^3 \left(C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 C_5 L_1 R_1 R_5\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + 2 C_3 C_5 L_1 R_1 R_3 g_m + C_3 C_5 L_1 R_1 R_5 g_m + C_3 C_5 L_1 R_1 + C_3 C_5 L_1 R_3 + C_3 C_5 L_1 R_5\right) + s \left(C_3 C_5 R_1 R_3 + C_3 C_5 R_1 R_5 + C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.778 INVALID-ORDER-778 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_5 R_1 R_3 g_m s^3 + L_1 R_1 g_m + s^2 \left(-C_3 C_5 L_1 R_1 R_3 + C_5 L_1 L_5 R_1 g_m\right) + s \left(C_3 L_1 R_1 R_3 g_m - C_5 L_1 R_1\right)}{C_1 C_3 C_5 L_1 L_5 R_1 s^4 + C_3 R_1 + C_5 R_1 + s^3 \left(C_1 C_3 C_5 L_1 R_1 R_3 + C_3 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_1 L_5\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + 2 C_3 C_5 L_1 R_1 R_3 g_m + C_3 C_5 L_1 R_1 + C_3 C_5 L_1 R_3 + C_3 C_5 L_5 R_1\right) + s \left(C_3 C_5 R_1 R_3 + C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.779 INVALID-ORDER-779 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_5 R_1 R_3 s^4 - L_1 R_1 s + s^3 \left(C_3 L_1 L_5 R_1 R_3 g_m - C_5 L_1 L_5 R_1\right) + s^2 \left(-C_3 L_1 R_1 R_3 + L_1 L_5 R_1 g_m\right)}{C_1 C_3 C_5 L_1 L_5 R_1 R_3 s^5 + R_1 + s^4 \left(C_1 C_3 L_1 L_5 R_1 + C_1 C_5 L_1 L_5 R_1 + 2 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_3\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 + C_3 C_5 L_5 R_1 R_3 + C_3 L_1 L_5 R_1 g_m + C_3 L_1 L_5 + 2 C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_1 + 2 C_3 L_1 R_1 R_3 g_m + C_3 L_1 R_1 + C_3\right.}$$

10.780 INVALID-ORDER-780 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_5 R_1 R_3 g_m s^3 + L_1 R_1 g_m + s^2 \left(C_3 C_5 L_1 R_1 R_3 R_5 g_m - C_3 C_5 L_1 R_1 R_3 + C_5 L_1 L_5 R_1 g_m\right) + s \left(C_3 L_1 R_1 R_3 g_m + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_1 C_3 C_5 L_1 L_5 R_1 s^4 + C_3 R_1 + C_5 R_1 + s^3 \left(C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_1 L_5\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + 2 C_3 C_5 L_1 R_1 R_3 g_m + C_3 C_5 L_1 R_1 R_5 g_m + C_3 C_5 L_1 R_1 + C_3 C_5 L_1 R_3 + C_3 C_5 L_1 R_5 + C_3 C_5 L_5 R_1\right) + s \left(C_3 C_5 R_1 R_3 + C_3 C_5\right.}$$

10.781 INVALID-ORDER-781 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_5 R_1 R_3 R_5 s^4 - L_1 R_1 R_5 s + s^3 \left(C_3 L_1 L_5 R_1 R_3 R_5 g_m - C_3 L_1 L_5 R_1 R_3 - \right.}{C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 s^5 + R_1 R_5 + s^4 \left(C_1 C_3 L_1 L_5 R_1 R_3 + C_1 C_3 L_1 L_5 R_1 R_5 + C_1 C_5 L_1 L_5 R_1 R_5 + 2 C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m + C_3 C_5 L_1 L_5 R_1 R_5 + C_3 C_5 L_1 L_5 R_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 R_5 + C_1 L_1 L_5 R_1 + C_3 C_5 L_5 R_1 R_3 R_5 + 2 C_3 L_1 L_5 R_1 R_3 g_m + C_3 L_1 L_5 R_1 R_5 g_m + C_3 L_1 \right.}$$

10.782 INVALID-ORDER-782 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{s^4 \left(C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m - C_3 C_5 L_1 L_5 R_1 R_3\right) + s^3 \left(C_3 L_1 L_5 R_1 R_3 g_m + C_5 L_1 L_5 R_1 R_5 g_m - C_5 L_1 L_5 R_1\right) + s^2 \left(C_3 L_1 R_1 R_3 R_5 \right.}{R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_1 C_3 C_5 L_1 L_5 R_1 R_5\right) + s^4 \left(C_1 C_3 L_1 L_5 R_1 + C_1 C_5 L_1 L_5 R_1 + 2 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_1 L_5 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 + C_1 C_3 L_1 R_1 R_5 + C_3 C_5 L_5 R_1 R_3 + C_3 C_5 L_5 R_1 R_5 + C_3 L_1 L \right.}$$

10.783 INVALID-ORDER-783 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{s^4 \left(C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m - C_3 C_5 L_1 L_5 R_1 R_3\right) + s^3 \left(-C_3 C_5 L_1 R_1 R_3 R_5 + C_5}{R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_1 C_3 C_5 L_1 L_5 R_1 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 + C_1 C_5 L_1 L_5 R_1 + 2 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_1 L_5 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 + C_1 C_3 L_1 R_1 R_5 + C_1 C_5 L_1 R_1 R_5 + 2 C_3 C_5 L_1 R_1 R_3 R_5}$$

10.784 INVALID-ORDER-784 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_1 R_5 g_m - C_3 L_1 L_3 R_1\right) + s \left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{C_1 C_3 L_1 L_3 R_1 s^4 + R_1 + s^3 \left(C_1 C_3 L_1 R_1 R_5 + 2 C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 R_5 g_m + C_3 L_1 R_1 + C_3 L_1 R_5 + C_3 L_3 R_1\right) + s \left(C_3 R_1 R_5 + 2 L_1 R_1 g_m + L_1\right)}$$

10.785 INVALID-ORDER-785 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_1 s^3 + C_3 L_1 L_3 R_1 g_m s^2 - C_5 L_1 R_1 s + L_1 R_1 g_m}{C_1 C_3 C_5 L_1 L_3 R_1 s^4 + C_3 R_1 + C_5 R_1 + s^3 \left(2 C_3 C_5 L_1 L_3 R_1 g_m + C_3 C_5 L_1 L_3\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_1 + C_3 C_5 L_3 R_1\right) + s \left(C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.786 INVALID-ORDER-786 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_1 R_5 s^4 - C_5 L_1 R_1 R_5 s^2 + s^3 \left(C_3 L_1 L_3 R_1 R_5 g_m - C_3 L_1 L_3 R_1\right) + s \left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{C_1 C_3 C_5 L_1 L_3 R_1 R_5 s^5 + R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_5 + C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 R_1 R_5 + C_3 C_5 L_3 R_1 R_5 + 2 C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 R_5 g_m + C_3 L_1 R_1 + C_3 L_1 R_5 + C_3 L_3 R_1 + 2 C_5 L_1 R_1}$$

10.787 INVALID-ORDER-787 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 L_1 L_3 R_1 g_m s^2 + L_1 R_1 g_m + s^3 \left(C_3 C_5 L_1 L_3 R_1 R_5 g_m - C_3 C_5 L_1 L_3 R_1\right) + s \left(C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_1 C_3 C_5 L_1 L_3 R_1 s^4 + C_3 R_1 + C_5 R_1 + s^3 \left(C_1 C_3 C_5 L_1 R_1 R_5 + 2 C_3 C_5 L_1 L_3 R_1 g_m + C_3 C_5 L_1 L_3\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_1 R_5 g_m + C_3 C_5 L_1 R_1 + C_3 C_5 L_1 R_5 + C_3 C_5 L_3 R_1\right) + s \left(C_3 C_5 R_1 R_5 + C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.788 INVALID-ORDER-788 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_1 g_m s^4 - C_3 C_5 L_1 L_3 R_1 s^3 - C_5 L_1 R_1 s + L_1 R_1 g_m + s^2 \left(C_3 L_1 L_3 R_1 g_m + C_5 L_1 L_5 R_1 g_m\right)}{C_3 R_1 + C_5 R_1 + s^4 \left(C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_5 R_1\right) + s^3 \left(2 C_3 C_5 L_1 L_3 R_1 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_1 L_5\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_1 + C_3 C_5 L_3 R_1 + C_3 C_5 L_5 R_1\right) + s \left(C_3 L_1 R_1 g_m + C_3 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1\right)}$$

10.789 INVALID-ORDER-789 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_1 s^5 + C_3 L_1 L_3 L_5 R_1 g_m s^4 + L_1 L_5 R_1 g_m s^2 - L_1 R_1 s + s^3 \left(-C_3 L_1 L_3 R_1 - C_5 L_1 L_5 R_1\right)}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(2 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_5 R_1 + C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_1 + C_3 C_5 L_3 L_5 R_1\right) + s^3 \left(2 C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3 + C_3 L_1 L_5 R_1 g_m + C_3 L_1 L_5 + 2 C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_1 +}$$

10.790 INVALID-ORDER-790 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_1 g_m s^4 + L_1 R_1 g_m + s^3 \left(C_3 C_5 L_1 L_3 R_1 R_5 g_m - C_3 C_5 L_1 L_3 R_1\right) + s^2 \left(C_3 L_1 L_3 R_1 g_m + C_5 L_1 L_5 R_1 g_m\right) + s \left(C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)}{C_3 R_1 + C_5 R_1 + s^4 \left(C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_5 R_1\right) + s^3 \left(C_1 C_3 C_5 L_1 R_1 R_5 + 2 C_3 C_5 L_1 L_3 R_1 g_m + C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_1 L_5\right) + s^2 \left(C_1 C_3 L_1 R_1 + C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_1 R_5 g_m + C_3 C_5 L_1 R_1 + C_3 C_5 L_1 R_5 + C_3 C_5 L_3 R_1 + C_3 C_5 L_5 R_1\right) + s \left(C_3 C}$$

10.791 INVALID-ORDER-791 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_1 R_5 s^5 - L_1 R_1 R_5 s + s^4 \left(C_3 L_1 L_3 L_5 R_1 R_5 g_m - C_3 L_1 L_3 L_5 R_1\right) +}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 s^6 + R_1 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_5 + C_1 C_3 L_1 L_5 R_1 R_5 + C_1 C_5 L_1 L_5 R_1 R_5 + C_3 C_5 L_1 L_5 R_1 R_5 + C_3 C_5 L_3 L_5 R_1 R_5 + 2 C_3 L_1 L_3 L_5 R_1 g_m + C_3 L_1 L_3 L_5\right) + s^3 \left(C_1 L_1 L_5 R_1 + 2 C_3 L_1}$$

10.792 INVALID-ORDER-792 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{C_3 L_1 L_3 L_5 R_1 g_m s^4 + L_1 L_5 R_1 g_m s^2 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m - C_3 C_5 L_1 L_3 L_5 R_1\right) + s^3 \left(C_3 L_1 L_3 R_1 R_5 g_m - C_3 L_1 L_3 R_1 + C}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_5 + 2 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_5 R_1 + C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_5 R_5 + C_3 C_5 L_3 L_5 R_1\right) + s^3 \left(C_1 C_3 L_1 R_1 R_5 + C_3 C_5 L_5 R_1 R_5 + 2 C_3 L_1}$$

10.793 INVALID-ORDER-793 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_1 R_5 s^4 - C_5 L_1 R_1 R_5 s^2 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m - C_3 C_5 L_1 \right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_1 C_3 C_5 L_1 L_5 R_1 R_5 + 2 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_5 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_5 R_1 + C_3 C_5 L_3 L_5 R_1\right)}$$

10.794 INVALID-ORDER-794 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2 \left(L_1 L_3 R_1 R_5 g_m - L_1 L_3 R_1\right)}{C_1 C_3 L_1 L_3 R_1 R_5 s^4 + R_1 R_5 + s^3 \left(C_1 L_1 L_3 R_1 + C_3 L_1 L_3 R_1 R_5 g_m + C_3 L_1 L_3 R_1 + C_3 L_1 L_3 R_5\right) + s^2 \left(C_1 L_1 R_1 R_5 + C_3 L_3 R_1 R_5 + 2 L_1 L_3 R_1 g_m + L_1 L_3\right) + s \left(L_1 R_1 R_5 g_m + L_1 R_1 + L_1 R_5 + L_3 R_1\right)}$$

10.795 INVALID-ORDER-795 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_1 s^3 + L_1 L_3 R_1 g_m s^2}{R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_1\right) + s^3 \left(C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_1 g_m + C_5 L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_3 R_1 + C_5 L_1 R_1 + C_5 L_3 R_1\right) + s \left(L_1 R_1 g_m + L_1\right)}$$

10.796 INVALID-ORDER-796 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 R_1 R_5 s^3 + s^2 \left(L_1 L_3 R_1 R_5 g_m - L_1 L_3 R_1\right)}{R_1 R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_5 + C_1 C_5 L_1 L_3 R_1 R_5 + C_3 C_5 L_1 L_3 R_1 R_5\right) + s^3 \left(C_1 L_1 L_3 R_1 + C_3 L_1 L_3 R_1 R_5 g_m + C_3 L_1 L_3 R_1 + C_3 L_1 L_3 R_5 + 2 C_5 L_1 L_3 R_1 R_5 g_m + C_5 L_1 L_3 R_5\right) + s^2 \left(C_1 L_1 R_1 R_5 + C_3 L_3 R_1 R_5 + C_5 L_1 R_1 R_5 + C_5 L_3 R_1 R_5 + 2 L_1 L_3 R_1 g_m + L_1 L_3\right) + s \left(L_1 R_1 R_5\right.}$$

10.797 INVALID-ORDER-797 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 L_3 R_1 g_m s^2 + s^3 \left(C_5 L_1 L_3 R_1 R_5 g_m - C_5 L_1 L_3 R_1\right)}{C_1 C_3 C_5 L_1 L_3 R_1 R_5 s^5 + R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_3 R_1 R_5 + C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_1 g_m + C_5 L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_3 R_1 + C_5 L_1 R_1 R_5 g_m + C_5 L_1\right.}$$

10.798 INVALID-ORDER-798 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_3 L_5 R_1 g_m s^4 - C_5 L_1 L_3 R_1 s^3 + L_1 L_3 R_1 g_m s^2}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_1 + C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_3 L_5 R_1\right) + s^3 \left(C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_1 g_m + C_5 L_1 L_3 + C_5 L_1 L_5 R_1 g_m + C_5 L_1 L_5\right) + s^2 \left(C_1 L_1 R_1 + C\right.}$$

10.799 INVALID-ORDER-799 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 L_5 R_1 s^3 + L_1 L_3 L_5 R_1 g_m s^2 - L_1 L_3 R_1 s}{L_1 R_1 + L_3 R_1 + L_5 R_1 + s^4 \left(C_1 C_3 L_1 L_3 L_5 R_1 + C_1 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_1\right) + s^3 \left(C_3 L_1 L_3 L_5 R_1 g_m + C_3 L_1 L_3 L_5 + 2 C_5 L_1 L_3 L_5 R_1 g_m + C_5 L_1 L_3 L_5\right) + s^2 \left(C_1 L_1 L_3 R_1 + C_1 L_1 L_5 R_1 + C_3 L_1 L_3 R_1 + C_3 L_3 L_5 R_1 + C_5 L_1 L_5 R_1 + C_5 L_3 L_5 R_1\right) + s \left(2 L_1 L_3 R_1 g_m + L\right.}$$

10.800 INVALID-ORDER-800 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_5 L_1 L_3 L_5 R_1 g_m s^4 + L_1 L_3 R_1 g_m s^2 + s^3 \left(C_5 L_1 L_3 R_1 R_5 g_m - C_5 L_1 L_3 R_1\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_1 + C_1 C_5 L_1 L_5 R_1 + C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_5 + C_3 C_5 L_3 L_5 R_1\right) + s^3 \left(C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_3 R_1 R_5 + C_3 L_1 L\right.}$$

10.801 INVALID-ORDER-801 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_3 L_5 R_1 R_5 s^3 - L_1 L_3 R_1 R_5 s + s^2 \left(L_1 L_3 L_5 R_1 R_5 g_m - L_1 L_3 L_5 R_1\right)}{L_1 R_1 R_5 + L_3 R_1 R_5 + L_5 R_1 R_5 + s^4 \left(C_1 C_3 L_1 L_3 L_5 R_1 R_5 + C_1 C_5 L_1 L_3 L_5 R_1 R_5 + C_3 C_5 L_1 L_3 L_5 R_1 R_5\right) + s^3 \left(C_1 L_1 L_3 L_5 R_1 + C_3 L_1 L_3 L_5 R_1 R_5 g_m + C_3 L_1 L_3 L_5 R_1 + C_3 L_1 L_3 L_5 R_5 + 2 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_5 L_1 L_3 L_5 R_5\right) + s^2 \left(C_1 L_1 L_3 R_1 R_5 + C_1 L_1 L_5 R_1 R_5 + C_3 L_1 L_3\right.}$$

10.802 INVALID-ORDER-802 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2 + 1},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{L_1 L_3 L_5 R_1 g_m s^3 + s^4 \left(C_5 L_1\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 s^6 + R_1 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 + C_1 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_5 + C_1 C_5 L_1 L_5 R_1 R_5 + C_3 C_5 L_3 L_5 R_1 R_5 + C_3 L_1 L_3 L_5 R_1 g_m + C_3 L_1 L_3 L_5 + 2 C_5 L_1 L_3 L_5 R_1 g_m + C_5 L_1 L_3\right.}$$

10.803 INVALID-ORDER-803 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_3R_1R_5s^3 + s^4\left(C_5L_1L_3\right.}{C_1C_3C_5L_1L_3L_5R_1R_5s^6 + R_1R_5 + s^5\left(C_1C_5L_1L_3L_5R_1 + C_3C_5L_1L_3L_5R_1R_5g_m + C_3C_5L_1L_3L_5R_1 + C_3C_5L_1L_3L_5R_5\right) + s^4\left(C_1C_3L_1L_3R_1R_5 + C_1C_5L_1L_3R_1R_5 + C_1C_5L_1L_5R_1R_5 + C_3C_5L_1L_3R_1R_5 + C_3C_5L_3L_5R_1R_5 + 2C_5L_1L_3L_5R_1g_m + C_5L_1L_3L_5\right) + s^3\left(C_1\right.}$$

10.804 INVALID-ORDER-804 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_3L_1L_3R_1R_5g_m - C_3L_1L_3R_1\right) + s^2\left(C_3L_1R_1R_3R_5g_m - C_3L_1R_1R_3\right) + s\left(L_1R_1R_5g_m - L_1R_1\right)}{C_1C_3L_1L_3R_1s^4 + R_1 + s^3\left(C_1C_3L_1R_1R_3 + C_1C_3L_1R_1R_5 + 2C_3L_1L_3R_1g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1 + 2C_3L_1R_1R_3g_m + C_3L_1R_1R_5g_m + C_3L_1R_1 + C_3L_1R_3 + C_3L_1R_5 + C_3L_3R_1\right) + s\left(C_3R_1R_3 + C_3R_1R_5 + 2L_1R_1g_m + L_1\right)}$$

10.805 INVALID-ORDER-805 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3R_1s^3 + L_1R_1g_m + s^2\left(-C_3C_5L_1R_1R_3 + C_3L_1L_3R_1g_m\right) + s\left(C_3L_1R_1R_3g_m - C_5L_1R_1\right)}{C_1C_3C_5L_1L_3R_1s^4 + C_3R_1 + C_5R_1 + s^3\left(C_1C_3C_5L_1R_1R_3 + 2C_3C_5L_1L_3R_1g_m + C_3C_5L_1L_3\right) + s^2\left(C_1C_3L_1R_1 + C_1C_5L_1R_1 + 2C_3C_5L_1R_1R_3g_m + C_3C_5L_1R_1 + C_3C_5L_1R_3 + C_3C_5L_3R_1\right) + s\left(C_3C_5R_1R_3 + C_3L_1R_1g_m + C_3L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}$$

10.806 INVALID-ORDER-806 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3R_1R_5s^4 + s^3\left(-C_3C_5L_1R_1R_3R_5 + C_3L_1L_3R_1R_5g_m - C_3L_1L_3R_1\right) + s^2\left(C_3L_1R_1R_3R_5g_m - C_3L_1\right.}{C_1C_3C_5L_1L_3R_1R_5s^5 + R_1 + s^4\left(C_1C_3C_5L_1R_1R_3R_5 + C_1C_3L_1L_3R_1 + 2C_3C_5L_1L_3R_1R_5g_m + C_3C_5L_1L_3R_5\right) + s^3\left(C_1C_3L_1R_1R_3 + C_1C_3L_1R_1R_5 + C_1C_5L_1R_1R_5 + 2C_3C_5L_1R_1R_3R_5g_m + C_3C_5L_1R_1R_5 + C_3C_5L_1R_3R_5 + C_3C_5L_3R_1R_5 + 2C_3L_1L_3R_1g_m + C_3L_1\right.}$$

10.807 INVALID-ORDER-807 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{L_1R_1g_m + s^3\left(C_3C_5L_1L_3R_1R_5g_m - C_3C_5L_1L_3R_1\right) + s^2\left(C_3C_5L_1R_1R_3R_5g_m - C_3C_5L_1R_1R_3 + C_3L_1L_3R_1g_m\right) + s\left(C_3L_1R_1R_3g_m + C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{C_1C_3C_5L_1L_3R_1s^4 + C_3R_1 + C_5R_1 + s^3\left(C_1C_3C_5L_1R_1R_3 + C_1C_3C_5L_1R_1R_5 + 2C_3C_5L_1L_3R_1g_m + C_3C_5L_1L_3\right) + s^2\left(C_1C_3L_1R_1 + C_1C_5L_1R_1 + 2C_3C_5L_1R_1R_3g_m + C_3C_5L_1R_1R_5g_m + C_3C_5L_1R_1 + C_3C_5L_1R_3 + C_3C_5L_1R_5 + C_3C_5L_3R_1\right) + s\left(C_3C_5R_1R_3 + C_3C\right.}$$

10.808 INVALID-ORDER-808 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_1L_3L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(-C_3C_5L_1L_3R_1 + C_3C_5L_1L_5R_1R_3g_m\right) + s^2\left(-C_3C_5L_1R_1R_3 + C_3L_1L_3R_1g_m + C_5L_1L_5R_1g_m\right) + s\left(C_3L_1R_1R_3g_m - C_5L_1R_1\right)}{C_3R_1 + C_5R_1 + s^4\left(C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_5R_1\right) + s^3\left(C_1C_3C_5L_1R_1R_3 + 2C_3C_5L_1L_3R_1g_m + C_3C_5L_1L_3 + C_3C_5L_1L_5R_1g_m + C_3C_5L_1L_5\right) + s^2\left(C_1C_3L_1R_1 + C_1C_5L_1R_1 + 2C_3C_5L_1R_1R_3g_m + C_3C_5L_1R_1 + C_3C_5L_1R_3 + C_3C_5L_3R_1 + C_3C_5L_5R_1\right) + s\left(C_3\right.}$$

10.809 INVALID-ORDER-809 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3L_5R_1s^5 - L_1R_1s + s^4\left(-C_3C_5L_1L_5R_1R_3 + C_3L_1L_3L_5R_1g_m\right) + s^3\left(-C_3L_1L_3R_1 + C_3L_1L_5R_1R_3g_m\right.}{C_1C_3C_5L_1L_3L_5R_1s^6 + R_1 + s^5\left(C_1C_3C_5L_1L_5R_1R_3 + 2C_3C_5L_1L_3L_5R_1g_m + C_3C_5L_1L_3L_5\right) + s^4\left(C_1C_3L_1L_3R_1 + C_1C_3L_1L_5R_1 + C_1C_5L_1L_5R_1 + 2C_3C_5L_1L_5R_1R_3g_m + C_3C_5L_1L_5R_1 + C_3C_5L_1L_5R_3 + C_3C_5L_3L_5R_1\right) + s^3\left(C_1C_3L_1R_1R_3 + C_3C_5L_5R_1R_3 + 2C_3\right.}$$

10.810 INVALID-ORDER-810 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_3C_5L_1L_3L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(C_3C_5L_1L_3R_1R_5g_m - C_3C_5L_1L_3R_1 + C_3C_5L_1L_5R_1R_3g_m\right) + s^2\left(C_3C_5L_1R_1R_3R_5g_m - C_3C_5L_1R_1R_3 + C_3L_1L_3R_1g_m + C_5L_1L_5R_1g_m\right) + s\left(C_3\right.}{C_3R_1 + C_5R_1 + s^4\left(C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_5R_1\right) + s^3\left(C_1C_3C_5L_1R_1R_3 + C_1C_3C_5L_1R_1R_5 + 2C_3C_5L_1L_3R_1g_m + C_3C_5L_1L_3 + C_3C_5L_1L_5R_1g_m + C_3C_5L_1L_5\right) + s^2\left(C_1C_3L_1R_1 + C_1C_5L_1R_1 + 2C_3C_5L_1R_1R_3g_m + C_3C_5L_1R_1R_5g_m + C_3C_5L_1R_1 + C_3C_5L_1\right.}$$

10.811 INVALID-ORDER-811 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_3C_5L_1L_3L_5R_1R_5s^5 + s^4\left(-C_3C_5L_1L_3R_1R_5 + C_3C_5L_1L_5R_1R_3R_5g_m - C_3C_5L_1L_5R_1R_3 + C_3L_1L_3R_1R_5g_m - C_3L_1L_3R_1\right) + s^3\left(C_3L_1R_1R_3R_5g_m - C_3L_1R_1R_3R_5 + C_3L_1R_1R_3g_m - C_3L_1R_1R_5 + C_3L_1R_3R_5g_m - C_3L_1R_3 + C_3L_3R_1R_5g_m - C_3L_3R_1 + C_5L_1R_1R_5g_m - C_5L_1R_1\right) + s^2\left(C_3L_1R_1R_5 + C_3L_1R_3R_5g_m - C_3L_1R_3 + C_3L_3R_1R_5g_m - C_3L_3R_1 + C_5L_1R_1R_5g_m - C_5L_1R_1\right) + s\left(C_3L_1R_3R_5g_m - C_3L_1R_5 + C_3L_3R_1R_5g_m - C_3L_3R_1 + C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{C_1C_3C_5L_1L_3L_5R_1R_5s^6 + R_1R_5 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5 + C_1C_3L_1L_3L_5R_1 + 2C_3C_5L_1L_3L_5R_1R_5g_m + C_3C_5L_1L_3L_5R_5\right) + s^4\left(C_1C_3L_1L_3R_1R_5 + C_1C_3L_1L_5R_1R_3 + C_1C_3L_1L_5R_1R_5 + C_1C_5L_1L_5R_1R_5 + 2C_3C_5L_1L_5R_1R_3R_5g_m + C_3C_5L_1L_5R_1R_5 + C_3C_5L_1\right.}$$

10.812 INVALID-ORDER-812 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s + R_3 + \frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{s^5\left(C_3C_5L_1L_3L_5R_1R_5g_m - C_3C_5L_1L_3L_5R_1\right) + s^4\left(C_3C_5L_1L_5R_1R_3R_5g_m - C_3C_5L_1L_5R_1R_3 + C_3L_1L_3L_5R_1R_5g_m - C_3L_1L_3L_5R_1\right) + s^3\left(C_3C_5L_1L_5R_1R_3g_m + C_5L_1R_1R_5g_m - C_5L_1R_1\right) + s^2\left(C_3L_1R_1R_3g_m + C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{C_1C_3C_5L_1L_3L_5R_1s^6 + R_1 + s^5\left(C_1C_3C_5L_1L_5R_1R_3 + C_1C_3C_5L_1L_5R_1R_5 + 2C_3C_5L_1L_3L_5R_1g_m + C_3C_5L_1L_3L_5\right) + s^4\left(C_1C_3L_1L_3R_1 + C_1C_3L_1L_5R_1 + C_1C_5L_1L_5R_1 + 2C_3C_5L_1L_5R_1R_3g_m + C_3C_5L_1L_5R_1R_5g_m + C_3C_5L_1L_5R_1 + C_3C_5L_1L_5R_3 + C_3C_5L_1L_5R_5\right.}$$

10.813 INVALID-ORDER-813 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{s^5\left(C_3C_5L_1L_3L_5R_1\right.}{C_1C_3C_5L_1L_3L_5R_1s^6 + R_1 + s^5\left(C_1C_3C_5L_1L_3R_1R_5 + C_1C_3C_5L_1L_5R_1R_3 + C_1C_3C_5L_1L_5R_1R_5 + 2C_3C_5L_1L_3L_5R_1g_m + C_3C_5L_1L_3L_5\right) + s^4\left(C_1C_3C_5L_1R_1R_3R_5 + C_1C_3L_1L_3R_1 + C_1C_5L_1L_5R_1 + 2C_3C_5L_1L_3R_1R_5g_m + C_3C_5L_1L_3R_5 + 2C_3C_5L_1L_5R_1R_3g_m + C_3C_5L_1L_5R_1R_5 + C_3C_5L_3L_5R_1R_3 + C_5L_1L_3L_5R_1g_m + C_5L_1L_3L_5\right) + s^3\left(C_1C_3L_1L_3R_1R_3 + C_1C_5L_1L_3R_1R_5 + C_1C_5L_1L_5R_1R_3 + C_1C_5L_1L_5R_1R_5 + C_3C_5L_1L_3R_1R_3 + C_3C_5L_1L_3R_1R_5g_m + C_3C_5L_1L_3R_5 + C_3C_5L_1L_5R_1R_3 + C_3C_5L_1L_5R_1R_5 + C_3C_5L_3L_5R_1R_3 + C_5L_1L_3L_5R_1g_m + C_5L_1L_3L_5\right) + s^2\left(C_1C_3L_1L_3R_1R_3R_5 + C_1C_5L_1L_3R_1R_3R_5 + C_1C_5L_1L_5R_1R_3R_5 + C_3C_5L_1L_3R_1R_3R_5 + C_3C_5L_1L_3R_1R_5g_m + C_3C_5L_1L_3R_5 + C_3C_5L_1L_5R_1R_3R_5 + C_3C_5L_3L_5R_1R_3R_5 + C_5L_1L_3L_5R_1R_3g_m + C_5L_1L_3L_5R_1g_m + C_5L_1L_3L_5R_1 + C_5L_1L_3L_5R_3\right) + s\left(C_1C_5L_1L_3R_1R_3R_5g_m + C_1C_5L_1L_3R_1R_5 + C_1C_5L_1L_5R_1R_3R_5 + C_3C_5L_1L_3R_1R_3R_5g_m + C_3C_5L_1L_3R_1R_5 + C_3C_5L_1L_5R_1R_3R_5 + C_3C_5L_3L_5R_1R_3R_5 + C_5L_1L_3L_5R_1R_3g_m + C_5L_1L_3L_5R_1R_3 + C_5L_1L_3L_5R_1R_5 + C_5L_1L_3L_5R_3R_5\right)}$$

10.814 INVALID-ORDER-814 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^2\left(L_1L_3R_1R_3R_5g_m - L_1L_3R_1R_3\right)}{C_1C_3L_1L_3R_1R_3R_5s^4 + R_1R_3R_5 + s^3\left(C_1L_1L_3R_1R_3 + C_1L_1L_3R_1R_5 + C_3L_1L_3R_1R_3R_5g_m + C_3L_1L_3R_1R_3 + C_3L_1L_3R_3R_5\right) + s^2\left(C_1L_1R_1R_3R_5 + C_3L_3R_1R_3R_5 + 2L_1L_3R_1R_3g_m + L_1L_3R_1R_5g_m + L_1L_3R_1 + L_1L_3R_3 + L_1L_3R_5\right) + s\left(L_1R_1R_3R_5g_m + L_1R_1R_3 + \right.}$$

10.815 INVALID-ORDER-815 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_3R_1R_3s^3 + L_1L_3R_1R_3g_ms^2}{R_1R_3 + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_5L_1L_3R_1R_3 + C_3C_5L_1L_3R_1R_3\right) + s^3\left(C_1L_1L_3R_1 + C_3L_1L_3R_1R_3g_m + C_3L_1L_3R_3 + 2C_5L_1L_3R_1R_3g_m + C_5L_1L_3R_1 + C_5L_1L_3R_3\right) + s^2\left(C_1L_1R_1R_3 + C_3L_3R_1R_3 + C_5L_1R_1R_3 + C_5L_3R_1R_3 + L_1L_3R_1g_m + L_1L_3\right) + s\left(L_1R_1R_3g_m\right.}$$

10.816 INVALID-ORDER-816 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_3R_1R_3R_5s^3 + s^2\left(L_1L_3R_1R_3R_5g_m - L_1L_3R_1R_3\right)}{R_1R_3R_5 + s^4\left(C_1C_3L_1L_3R_1R_3R_5 + C_1C_5L_1L_3R_1R_3R_5 + C_3C_5L_1L_3R_1R_3R_5\right) + s^3\left(C_1L_1L_3R_1R_3 + C_1L_1L_3R_1R_5 + C_3L_1L_3R_1R_3R_5g_m + C_3L_1L_3R_1R_3 + C_3L_1L_3R_3R_5 + 2C_5L_1L_3R_1R_3R_5g_m + C_5L_1L_3R_1R_5 + C_5L_1L_3R_3R_5\right) + s^2\left(C_1L_1R_1R_3R_5 + C_3L_3R_1R_3\right.}$$

10.817 INVALID-ORDER-817 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{L_1L_3R_1R_3g_ms^2 + s^3\left(C_5L_1L_3R_1R_3R_5\right.}{C_1C_3C_5L_1L_3R_1R_3R_5s^5 + R_1R_3 + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_5L_1L_3R_1R_3 + C_1C_5L_1L_3R_1R_5 + C_3C_5L_1L_3R_1R_3R_5g_m + C_3C_5L_1L_3R_1R_3 + C_3C_5L_1L_3R_3R_5\right) + s^3\left(C_1C_5L_1R_1R_3R_5 + C_1L_1L_3R_1 + C_3C_5L_3R_1R_3R_5 + C_3L_1L_3R_1R_3g_m + C_3L_1L_3R_3 + 2C_5L_1L_3R_1\right.}$$

10.818 INVALID-ORDER-818 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_5L_1L_3L_5R_1R_3g_ms^4 - C_5L_1L_3R_1R_3}{C_1C_3C_5L_1L_3L_5R_1R_3s^6 + R_1R_3 + s^5\left(C_1C_5L_1L_3L_5R_1 + C_3C_5L_1L_3L_5R_1R_3g_m + C_3C_5L_1L_3L_5R_3\right) + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_5L_1L_3R_1R_3 + C_1C_5L_1L_5R_1R_3 + C_3C_5L_1L_3R_1R_3 + C_3C_5L_3L_5R_1R_3 + C_5L_1L_3L_5R_1g_m + C_5L_1L_3L_5\right) + s^3\left(C_1L_1L_3R_1 + C_3L_1L_3R\right.}$$

10.819 INVALID-ORDER-819 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_5L_1L_3L_5R_1R_3s^3 + L_1L_3L_5R_1R_3g_ms^2 - L_1L_3R_1R_3s}{L_1R_1R_3 + L_3R_1R_3 + L_5R_1R_3 + s^4\left(C_1C_3L_1L_3L_5R_1R_3 + C_1C_5L_1L_3L_5R_1R_3 + C_3C_5L_1L_3L_5R_1R_3\right) + s^3\left(C_1L_1L_3L_5R_1 + C_3L_1L_3L_5R_1R_3g_m + C_3L_1L_3L_5R_3 + 2C_5L_1L_3L_5R_1R_3g_m + C_5L_1L_3L_5R_1 + C_5L_1L_3L_5R_3\right) + s^2\left(C_1L_1L_3R_1R_3 + C_1L_1L_5R_1R_3 + C_3L_1L_3\right.}$$

10.820 INVALID-ORDER-820 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{}{C_1C_3C_5L_1L_3L_5R_1R_3s^6 + R_1R_3 + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5 + C_1C_5L_1L_3L_5R_1 + C_3C_5L_1L_3L_5R_1R_3g_m + C_3C_5L_1L_3L_5R_3\right) + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_5L_1L_3R_1R_3 + C_1C_5L_1L_3R_1R_5 + C_1C_5L_1L_5R_1R_3 + C_3C_5L_1L_3R_1R_3R_5g_m + C_3C_5L_1L_3R_1R_3 + C_3C_5L_1L_3\right.}$$

10.821 INVALID-ORDER-821 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{}{L_1R_1R_3R_5 + L_3R_1R_3R_5 + L_5R_1R_3R_5 + s^4\left(C_1C_3L_1L_3L_5R_1R_3R_5 + C_1C_5L_1L_3L_5R_1R_3R_5 + C_3C_5L_1L_3L_5R_1R_3R_5\right) + s^3\left(C_1L_1L_3L_5R_1R_3 + C_1L_1L_3L_5R_1R_5 + C_3L_1L_3L_5R_1R_3R_5g_m + C_3L_1L_3L_5R_1R_3 + C_3L_1L_3L_5R_3R_5 + 2C_5L_1L_3L_5R_1R_3R_5g_m + C_5L_1L_3L_5\right.}$$

10.822 INVALID-ORDER-822 $Z(s) = \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{}{C_1C_3C_5L_1L_3L_5R_1R_3R_5s^6 + R_1R_3R_5 + s^5\left(C_1C_3L_1L_3L_5R_1R_3 + C_1C_5L_1L_3L_5R_1R_3 + C_1C_5L_1L_3L_5R_1R_5 + C_3C_5L_1L_3L_5R_1R_3R_5g_m + C_3C_5L_1L_3L_5R_1R_3 + C_3C_5L_1L_3L_5R_3R_5\right) + s^4\left(C_1C_3L_1L_3R_1R_3R_5 + C_1C_5L_1L_5R_1R_3R_5 + C_1L_1L_3L_5R_1 + C_3C_5L_3L_5R_1R_3\right.}$$

10.823 INVALID-ORDER-823 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 R_5 s^6 + R_1 R_3 R_5 + s^5 \left(C_1 C_5 L_1 L_3 L_5 R_1 R_3 + C_1 C_5 L_1 L_3 L_5 R_1 R_5 + C_3 C_5 L_1 L_3 L_5 R_1 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_1 R_3 + C_3 C_5 L_1 L_3 L_5 R_3 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_5 + C_1 C_5 L_1 L_3 R_1 R_3 R_5 + C_1 C_5 L_1 L_5 R_1 R_3 R_5 + C_3 C_5 L_1 L_3 R_1 R_3 R_5 + C_3 C_5 L_3 L_5}$$

10.824 INVALID-ORDER-824 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_1 R_3 R_5 g_m - C_3 L_1 L_3 R_1 R_3\right) + s^2 \left(L_1 L_3 R_1 R_5 g_m - L_1 L_3 R_1\right) + s \left(L_1 R_1 R_3 R_5 g_m - L_1 R_1 R_3\right)}{R_1 R_3 + R_1 R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 R_5\right) + s^3 \left(C_1 L_1 L_3 R_1 + 2 C_3 L_1 L_3 R_1 R_3 g_m + C_3 L_1 L_3 R_1 R_5 g_m + C_3 L_1 L_3 R_1 + C_3 L_1 L_3 R_3 + C_3 L_1 L_3 R_5\right) + s^2 \left(C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_5 + C_3 L_3 R_1 R_3 + C_3 L_3 R_1 R_5 + 2 L_1 L_3 R_1 g_m + L_1 L_3\right) + s \left(2 L_1 R_1 R_3 g_m + L_1\right.}$$

10.825 INVALID-ORDER-825 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_1 R_3 s^4 + L_1 R_1 R_3 g_m s + s^3 \left(C_3 L_1 L_3 R_1 R_3 g_m - C_5 L_1 L_3 R_1\right) + s^2 \left(-C_5 L_1 R_1 R_3 + L_1 L_3 R_1 g_m\right)}{C_1 C_3 C_5 L_1 L_3 R_1 R_3 s^5 + R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_3\right) + s^3 \left(C_1 C_5 L_1 R_1 R_3 + C_3 C_5 L_3 R_1 R_3 + C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3 + 2 C_5 L_1 L_3 R_1 g_m + C_5 L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_3 R_1 + 2 C_5 L_1 R_1 R_3 g_m + C_5\right.}$$

10.826 INVALID-ORDER-826 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_1 R_3 R_5 s^4 + s^3 \left(C_3 L_1 L_3 R_1 R_3 R_5 g_m - C_3 L_1 L_3 R_1\right.}{C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 s^5 + R_1 R_3 + R_1 R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 R_5 + C_1 C_5 L_1 L_3 R_1 R_5 + 2 C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_1 R_5 + C_3 C_5 L_1 L_3 R_3 R_5\right) + s^3 \left(C_1 C_5 L_1 R_1 R_3 R_5 + C_1 L_1 L_3 R_1 + C_3 C_5 L_3 R_1 R_3 R_5 + 2 C_3 L_1 L_3 R_1 R_3 g_m + C_3 L_1 L_3 R_1 R_5 g_m\right.}$$

10.827 INVALID-ORDER-827 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{L_1 R_1 R_3 g_m s + s^4 \left(C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_1 R_3\right) + s^3 \left(C_3 L_1 L_3 R_1 R_3 g_m + C_5 L_1 L_3 R_1 R_5 g_m - C_5 L_1 L_3 R_1\right) +}{R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 + C_1 C_3 C_5 L_1 L_3 R_1 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_3 + C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_5 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_3 R_1 R_3 + C_3 C_5 L_3 R_1 R_5 + C_3 L_1 L\right.}$$

10.828 INVALID-ORDER-828 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m s^5 + L_1 R_1 R_3 g_m s + s^4 \left(-C_3 C_5 L_1 L_3 R_1 R_3 + C_5 L_1 L_3 L_5 R_1 g_m\right) + s^3 \left(C_3 L_1 L_3 R_1 R_3 g_m - C_5 L_1 L_3 R_1\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 + C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_1 + C_1 C_5 L_1 L_5 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_3 + C_3 C_5 L_3 L_5 R_1\right) + s^3 \left(C_1 C_5 L_1 R_1 R_3 + C_3 C_5 L_3 R_1 R_3 + C_3 L_1\right.}$$

10.829 INVALID-ORDER-829 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_1 R_3 s^5 - L_1 R_1 R_3 s + s^4 \left(C_3 L_1 L_3 L_5 R_1 R_3 g_m -\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 s^6 + R_1 R_3 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 + C_1 C_5 L_1 L_3 L_5 R_1 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_5 L_1 L_5 R_1 R_3 + C_3 C_5 L_3 L_5 R_1 R_3 + C_3 L_1 L_3 L_5 R_1 g_m + C_3 L_1 L_3 L_5 + 2 C_5 L_1 L_3 L_5 R_1 g_m + C_5 L_1 L\right.}$$

10.830 INVALID-ORDER-830 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m s^5 + L_1 R_1 R_3 g_m s + s^4 \left(C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m - C_3 C_5 L_1 L_3 R_1\right.}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 + C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_1 + C_1 C_5 L_1 L_5 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_3 + C_3 C_5 L_1 L_3 R_5 +\right.}$$

10.831 INVALID-ORDER-831 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 R_5 s^6 + R_1 R_3 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_1 R_5 + C_1 C_5 L_1 L_3 L_5 R_1 R_5 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_1 R_5 + C_3 C_5 L_1 L_3 L_5 R_3 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_5 + C_1 C_5 L_1 L_5 R_1 R_3 R_5 + C_1 L_1 L_3 L_5 R_1 + C_3 C_5 L_3 L_5 R_1 R\right.}$$

10.832 INVALID-ORDER-832 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{}{R_1 R_3 + R_1 R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5\right) + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 + C_1 C_5 L_1 L_3 L_5 R_1 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_3 + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 R_5 +\right.}$$

10.833 INVALID-ORDER-833 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{}{R_1 R_3 + R_1 R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 + C_1 C_5 L_1 L_3 L_5 R_1 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_3 + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1}$$

10.834 INVALID-ORDER-834 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_1 R_3 R_5 g_m - C_3 L_1 L_3 R_1 R_3\right) + s \left(L_1 R_1 R_3 R_5 g_m - L_1 R_1 R_3\right)}{R_1 R_3 + R_1 R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 R_5 + 2 C_3 L_1 L_3 R_1 R_3 g_m + C_3 L_1 L_3 R_1 R_5 g_m + C_3 L_1 L_3 R_1 + C_3 L_1 L_3 R_3 + C_3 L_1 L_3 R_5\right) + s^2 \left(C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_5 + C_3 L_1 R_1 R_3 R_5 g_m + C_3 L_1 R_1 R_3 + C_3 L_1 R_3 R_5 + C_3 L_3 R_1 R_3 + C_3 L_3}$$

10.835 INVALID-ORDER-835 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_1 R_3 s^4 + C_3 L_1 L_3 R_1 R_3 g_m s^3 - C_5 L_1 R_1 R_3 s^2 + L_1 R_1 R_3 g_m s}{C_1 C_3 C_5 L_1 L_3 R_1 R_3 s^5 + R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_3\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_3 + C_3 C_5 L_1 R_1 R_3 + C_3 C_5 L_3 R_1 R_3 + C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 + C_3 L_1 R_1 R_3 g_m + C_3 L_1 R_3 + C_3 L_3 R_1 + 2 C_5}$$

10.836 INVALID-ORDER-836 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 R_1 R_3 R_5 s^4 - C_5 L_1 R_1 R_3 R_5 s^2 +}{C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 s^5 + R_1 R_3 + R_1 R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 R_5 + 2 C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m + C_3 C_5 L_1 L_3 R_1 R_5 + C_3 C_5 L_1 L_3 R_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 R_5 + C_1 C_5 L_1 R_1 R_3 R_5 + C_3 C_5 L_1 R_1 R_3 R_5 + C_3 C_5 L_3 R_1 R_3 R_5 + 2 C_3 L_1 L_3 R_1 R_3 g_m + C_3 L_1 L_3 R}$$

10.837 INVALID-ORDER-837 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 L_1 L_3 R_1 R_3 g_m s^3 + L_1 R_1 R_3 g_m s + s^4 \left(C_3 C_5 L}{R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 + C_1 C_3 C_5 L_1 L_3 R_1 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_3 + C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_3 + C_1 C_5 L_1 R_1 R_5 + C_3 C_5 L_1 R_1 R_3 R_5 g}$$

10.838 INVALID-ORDER-838 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m s^5 - C_3 C_5 L_1 L_3 R_1 R_3 s^4 -}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_5 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C_5 L_1 L_3 R_3 + C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_5 R_3 + C_3 C_5 L_3 L_5 R_1\right) -}$$

10.839 INVALID-ORDER-839 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_3 C_5 L_1 L_3 L_5 R_1 R_3 s^5 + C_3 L_1 L_3 L_5 R_1 R_3 g_m}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 s^6 + R_1 R_3 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_3\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_5 R_1 R_3 + C_1 C_5 L_1 L_5 R_1 R_3 + C_3 C_5 L_1 L_5 R_1 R_3 + C_3 C_5 L_3 L_5 R_1 R_3 + C_3 L_1 L_3 L_5 R_1 g_m + C_3 L_1 L_3 L_5\right) + s^3 \left(C_1}$$

10.840 INVALID-ORDER-840 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 + C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 R_1 + C_1 C_5 L_1 L_5 R_1 + 2 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_3 C_5 L_1 L_3 R_1 + C_3 C}$$

10.841 INVALID-ORDER-841 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 R_5 s^6 + R_1 R_3 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_1 R_5 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_3 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_1 R_5 + C_3 C_5 L_1 L_3 L_5 R_3 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_5 + C_1 C_3 L_1 L_5 R_1 R_3 R_5 + C_1 C_5 L_1 L_5 R_1 R_3 R_5 + C_3 C_5 L_1 L_5 R_1 R_3 R_5 + C_3 C_5 L_3 L}$$

10.842 INVALID-ORDER-842 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{}{R_1 R_3 + R_1 R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 L_5 R_1 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_3 + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1}$$

10.843 INVALID-ORDER-843 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2+L_1 s+R_1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{}{R_1 R_3 + R_1 R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 + 2 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_3 C_5 L_1 L_3 L_5 R_1 + C_3 C_5 L_1 L_3 L_5 R_3 + C_3 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1}$$

10.844 INVALID-ORDER-844 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2+L_1 s+R_1}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_1 R_3 s^3 + R_1 R_3 g_m + s^2 \left(C_1 L_1 R_1 R_3 g_m - C_5 L_1 R_3\right) + s \left(-C_5 R_1 R_3 + L_1 R_3 g_m\right)}{R_1 g_m + s^3 \left(2 C_1 C_5 L_1 R_1 R_3 g_m + C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_3\right) + s^2 \left(C_1 L_1 R_1 g_m + C_1 L_1 + 2 C_5 L_1 R_3 g_m + C_5 L_1\right) + s \left(2 C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.845 INVALID-ORDER-845 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2+L_1 s+R_1}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 R_1 R_3 R_5 s^3 + R_1 R_3 R_5 g_m - R_1 R_3 + s^2 \left(C_1 L_1 R_1 R_3 R_5 g_m - C_1 L_1 R_1 R_3 - C_5 L_1 R_3 R_5\right) + s \left(-C_5 R_1 R_3 R_5 + L_1 R_3 R_5 g_m - L_1 R_3\right)}{2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^3 \left(2 C_1 C_5 L_1 R_1 R_3 R_5 g_m + C_1 C_5 L_1 R_1 R_5 + C_1 C_5 L_1 R_3 R_5\right) + s^2 \left(2 C_1 L_1 R_1 R_3 g_m + C_1 L_1 R_1 R_5 g_m + C_1 L_1 R_1 + C_1 L_1 R_3 + C_1 L_1 R_5 + 2 C_5 L_1 R_3 R_5 g_m + C_5 L_1 R_5\right) + s \left(2 C_5 R_1 R_3 R_5 g_m + C_5 R_1 R_5 + C_5 R_3 R_5 + 2 L_1 R_3 g_m + L_1 R}$$

10.846 INVALID-ORDER-846 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2+L_1 s+R_1}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_1 R_3 g_m + s^3 \left(C_1 C_5 L_1 R_1 R_3 R_5 g_m - C_1 C_5 L_1 R_1 R_3\right) + s^2 \left(C_1 L_1 R_1 R_3 g_m + C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3\right) + s \left(C_5 R_1 R_3 R_5 g_m - C_5 R_1 R_3 + L_1 R_3 g_m\right)}{R_1 g_m + s^3 \left(2 C_1 C_5 L_1 R_1 R_3 g_m + C_1 C_5 L_1 R_1 R_5 g_m + C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5\right) + s^2 \left(C_1 L_1 R_1 g_m + C_1 L_1 + 2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1\right) + s \left(2 C_5 R_1 R_3 g_m + C_5 R_1 R_5 g_m + C_5 R_1 + C_5 R_3 + C_5 R_5 + L_1 g_m\right) + 1}$$

10.847 INVALID-ORDER-847 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2+L_1 s+R_1}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 R_1 R_3 g_m s^4 + R_1 R_3 g_m + s^3 \left(-C_1 C_5 L_1 R_1 R_3 + C_5 L_1 L_5 R_3 g_m\right) + s^2 \left(C_1 L_1 R_1 R_3 g_m - C_5 L_1 R_3 + C_5 L_5 R_1 R_3 g_m\right) + s \left(-C_5 R_1 R_3 + L_1 R_3 g_m\right)}{R_1 g_m + s^4 \left(C_1 C_5 L_1 L_5 R_1 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(2 C_1 C_5 L_1 R_1 R_3 g_m + C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_3 + C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_1 L_1 + 2 C_5 L_1 R_3 g_m + C_5 L_1 + C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(2 C_5 R_1 R_3 g_m + C_5 R_1 + C_5 R_3 + L_1 g_m\right) + 1}$$

10.848 INVALID-ORDER-848 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2+L_1 s+R_1}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 R_1 R_3 s^4 - R_1 R_3 + s^3 \left(C_1 L_1 L_5 R_1 R_3 g_m - C_5 L_1 L_5 R_3\right) + s^2 \left(-C_1 L_1 R_1 R_3 - C_5 L_5 R_1 R_3 + L_1 L_5 R_3 g_m\right) + s \left(-L_1 R_3 + L_5 R_1 R_3 g_m\right)}{2 R_1 R_3 g_m + R_1 + R_3 + s^4 \left(2 C_1 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_5 L_1 L_5 R_1 + C_1 C_5 L_1 L_5 R_3\right) + s^3 \left(C_1 L_1 L_5 R_1 g_m + C_1 L_1 L_5 + 2 C_5 L_1 L_5 R_3 g_m + C_5 L_1 L_5\right) + s^2 \left(2 C_1 L_1 R_1 R_3 g_m + C_1 L_1 R_1 + C_1 L_1 R_3 + 2 C_5 L_5 R_1 R_3 g_m + C_5 L_5 R_1 + C_5 L_5 R_3 + L_1 L_5 g_m\right) + s \left(2 L_1 R_3 g_m + L_1 + L_5}$$

10.849 INVALID-ORDER-849 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2+L_1 s+R_1}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_5 L_1 L_5 R_1 R_3 g_m s^4 + R_1 R_3 g_m + s^3 \left(C_1 C_5 L_1 R_1 R_3 R_5 g_m - C_1 C_5 L_1 R_1 R_3 + C_5 L_1 L_5 R_3 g_m\right) + s^2 \left(C_1 L_1 R_1 R_3 g_m + C_5 L_1 R_3 R_5 g_m - C_5 L_1 R_3 + C_5 L_5 R_1 R_3 g_m\right) + s \left(C_5 R_1 R_3 R_5 g_m - C_5 R_1 R_3 + L_1 R_3 g_m\right)}{R_1 g_m + s^4 \left(C_1 C_5 L_1 L_5 R_1 g_m + C_1 C_5 L_1 L_5\right) + s^3 \left(2 C_1 C_5 L_1 R_1 R_3 g_m + C_1 C_5 L_1 R_1 R_5 g_m + C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_3 + C_1 C_5 L_1 R_5 + C_5 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_1 L_1 + 2 C_5 L_1 R_3 g_m + C_5 L_1 R_5 g_m + C_5 L_1 + C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(2 C_5 R_1 R_3 g_m + C_5 R_1 R_5 g_m +}$$

10.850 INVALID-ORDER-850 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2+L_1 s+R_1}{C_1 L_1 s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_5 R_1 R_3 R_5 s^4 - R_1 R_3 R_5 + s^3 \left(C_1 L_1 L_5 R_1 R_3 R_5 g_m - C_1 L_1 L_5 R_1 R_3 - C_5 L_1 L_5 R_3 R_5\right) + s^2 \left(-C_1 L_1 R_1 R_3 R_5 - C_5 L_5 R_1 R_3 R_5 + L_1 L_5 R_3 R_5\right.}{2 R_1 R_3 R_5 g_m + R_1 R_5 + R_3 R_5 + s^4 \left(2 C_1 C_5 L_1 L_5 R_1 R_3 R_5 g_m + C_1 C_5 L_1 L_5 R_1 R_5 + C_1 C_5 L_1 L_5 R_3 R_5\right) + s^3 \left(2 C_1 L_1 L_5 R_1 R_3 g_m + C_1 L_1 L_5 R_1 R_5 g_m + C_1 L_1 L_5 R_1 + C_1 L_1 L_5 R_3 + C_1 L_1 L_5 R_5 + 2 C_5 L_1 L_5 R_3 R_5 g_m + C_5 L_1 L_5 R_5\right) + s^2 \left(2 C_1 L_1 R_1 R_3 R_5 g_m + C_1 L_1 R_1 R_5 + C_1 L}$$

10.851 INVALID-ORDER-851 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_1C_5L_1L_5R_1R_3R_5g_m - C_1C_5L_1L_5R_1R_3\right) + s^3\left(C_1L_1L_5R_1R_3g_m + C_5L_1L_5R_3R_5g_m - C_5L_1L_5R_3\right) + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3 + C_5L_5R_1R_3R_5g_m\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_1C_5L_1L_5R_5\right) + s^3\left(C_1L_1L_5R_1g_m + C_1L_1L_5 + 2C_5L_1L_5R_3g_m + C_5L_1L_5R_5g_m + C_5L_1L_5\right) + s^2\left(2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R\right.}$$

10.852 INVALID-ORDER-852 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_1C_5L_1L_5R_1R_3R_5g_m - C_1C_5L_1L_5R_1R_3\right) + s^3\left(-C_1C_5L_1R_1R_3R_5 + C_5L_1L_5R_3R_5g_m - C_5L_1L_5R_3\right) + s^2\left(C_1L_1R_1R_3R_5\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_1C_5L_1L_5R_5\right) + s^3\left(2C_1C_5L_1R_1R_3R_5g_m + C_1C_5L_1R_1R_5 + C_1C_5L_1R_3R_5 + 2C_5L_1L_5R_3g_m + C_5L_1L_5R_5g_m + C_5L_1L_5\right) + s^2\left(2C_1L_1R_1R_3g\right.}$$

10.853 INVALID-ORDER-853 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1\right) + s\left(L_1R_5g_m - L_1\right)}{2R_1g_m + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + C_3L_1R_5g_m + C_3L_1\right) + s\left(C_3R_1R_5g_m + C_3R_1 + C_3R_5 + 2L_1g_m\right) + 1}$$

10.854 INVALID-ORDER-854 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1s^3 + R_1g_m + s^2\left(C_1L_1R_1g_m - C_5L_1\right) + s\left(-C_5R_1 + L_1g_m\right)}{C_1C_3C_5L_1R_1s^4 + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_1\right) + s^2\left(C_3C_5R_1 + C_3L_1g_m + 2C_5L_1g_m\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.855 INVALID-ORDER-855 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_5L_1R_5\right) + s\left(-C_5R_1R_5 + L_1R_5g_m - L_1\right)}{C_1C_3C_5L_1R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5 + C_3C_5L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + C_3C_5R_1R_5 + C_3L_1R_5g_m + C_3L_1 + 2C_5L_1R_5g_m\right) + s\left(C_3R_1R_5g_m + C_3R_1 + C_3R_5 + 2C_5R_1R_5g_m + C_5R\right.}$$

10.856 INVALID-ORDER-856 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1g_m + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1\right) + s^2\left(C_1L_1R_1g_m + C_5L_1R_5g_m - C_5L_1\right) + s\left(C_5R_1R_5g_m - C_5R_1 + L_1g_m\right)}{s^4\left(C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_5\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_1R_5g_m + C_3C_5L_1\right) + s^2\left(C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_5 + C_3L_1g_m + 2C_5L_1g_m\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.857 INVALID-ORDER-857 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_1C_5L_1R_1 + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m - C_5L_1 + C_5L_5R_1g_m\right) + s\left(-C_5R_1 + L_1g_m\right)}{s^5\left(C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_1 + C_3C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_1 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_3C_5R_1 + C_3L_1g_m + 2C_5L_1g_m\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.858 INVALID-ORDER-858 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1s^4 - R_1 + s^3\left(C_1L_1L_5R_1g_m - C_5L_1L_5\right) + s^2\left(-C_1L_1R_1 - C_5L_5R_1 + L_1L_5g_m\right) + s\left(-L_1 + L_5R_1g_m\right)}{C_1C_3C_5L_1L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_1 + C_3C_5L_5R_1 + C_3L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + C_3L_1 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_3\right.}$$

10.859 INVALID-ORDER-859 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1g_ms^4 + R_1g_m + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m + C_5L_1R_5g_m - C_5L_1 + C_5L_5R_1g_m\right) + s\left(C_5R_1R_5g_m - C_5R_1 + L_1g_m\right)}{s^5\left(C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_5 + C_3C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_1R_5g_m + C_3C_5L_1 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_3C_5R_1R_5g_m + C_3C_5R_1\right.}$$

10.860 INVALID-ORDER-860 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_5s^4 - R_1R_5 + s^3\left(C_1L_1L_5R_1R_5g_m - C_1L_1L_5R_1 - C_5L_1L_5R_5\right) + s^2\left(-C_1L_1R_1R_5 - C_5L_5R_1R_5 + L_1L_5R_5g_m - L\right.}{C_1C_3C_5L_1L_5R_1R_5s^5 + 2R_1R_5g_m + R_5 + s^4\left(C_1C_3L_1L_5R_1R_5g_m + C_1C_3L_1L_5R_1 + C_1C_3L_1L_5R_5 + 2C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_5 + C_3C_5L_1L_5R_5\right) + s^3\left(C_1C_3L_1R_1R_5 + 2C_1L_1L_5R_1g_m + C_1L_1L_5 + C_3C_5L_5R_1R_5 + C_3L_1L_5R_5g_m + C_3L_1L_5 + 2C_5L_1L_5R_5\right.}$$

10.861 INVALID-ORDER-861 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1\right) + s^3\left(C_1L_1L_5R_1g_m + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_5\right.}{2R_1g_m + s^5\left(C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_5\right) + s^4\left(C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_5R_5g_m + C_3C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + C_3C_5L_5R_1R_5g_m + C_3C_5L_5R_1\right.}$$

10.862 INVALID-ORDER-862 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1\right) + s^3\left(-C_1C_5L_1R_1R_5 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s^2\left(C_1L\right.}{2R_1g_m + s^5\left(C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_5\right) + s^4\left(C_1C_3C_5L_1R_1R_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_5R_5g_m + C_3C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5 + C_3C_5L_1R\right.}$$

10.863 INVALID-ORDER-863 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3\right) + s\left(L_1R_3R_5g_m - L_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_1R_1R_3R_5g_m + C_1C_3L_1R_1R_3 + C_1C_3L_1R_3R_5\right) + s^2\left(2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R_3 + C_1L_1R_5 + C_3L_1R_3R_5g_m + C_3L_1R_3\right) + s\left(C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5 + 2L_1R_3g_m + L_1R_5g_m\right.}$$

10.864 INVALID-ORDER-864 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_3s^3 + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m - C_5L_1R_3\right) + s\left(-C_5R_1R_3 + L_1R_3g_m\right)}{C_1C_3C_5L_1R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_3C_5L_1R_3\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3C_5R_1R_3g_m + 2C_5L_1R_3g_m + C_5L_1\right) + s\left(C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right.}$$

10.865 INVALID-ORDER-865 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_3R_5s^3 + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3 - C_5L_1R_3R_5\right) + s\left(-C_5\right.}{C_1C_3C_5L_1R_1R_3R_5s^4 + 2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_1R_1R_3R_5g_m + C_1C_3L_1R_1R_3 + C_1C_3L_1R_3R_5 + 2C_1C_5L_1R_1R_3R_5g_m + C_1C_5L_1R_1R_5 + C_1C_5L_1R_3R_5 + C_3C_5L_1R_3R_5\right) + s^2\left(2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R_3 + C_1L\right.}$$

10.866 INVALID-ORDER-866 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1R_3g_m + s^3\left(C_1C_5L_1R_1R_3R_5g_m - C_1C_5L_1R_1R_3\right) + s^2\left(C_1L_1R_1R_3g_m + C_5L_1R_3R_5g_m - C_5L_1R_3\right) + s\left(C_5R_1R\right.}{R_1g_m + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_3 + C_1C_3C_5L_1R_3R_5\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_1R_5 + C_3C_5L_1R_3R_5g_m + C_3C_5L_1R_3\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3C_5R_1\right.}$$

10.867 INVALID-ORDER-867 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(-C_1C_5L_1R_1R_3 + C_5L_1L_5R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m - C_5L_1R_3 + C_5L_5R\right.}{R_1g_m + s^5\left(C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_1R_1R_3 + C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_5R_3g_m\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_3C_5L_1R_3 + C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_3\right.}$$

10.868 INVALID-ORDER-868 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_3s^4 - R_1R_3 + s^3\left(C_1L_1L_5R_1R_3g_m - C_5L_1L_5R_3\right) + s^2\left(-C_1L_1R_1R_3 - C_5L_5R_1R_3 + L_1L\right.}{C_1C_3C_5L_1L_5R_1R_3s^5 + 2R_1R_3g_m + R_1 + R_3 + s^4\left(C_1C_3L_1L_5R_1R_3g_m + C_1C_3L_1L_5R_3 + 2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_3C_5L_1L_5R_3\right) + s^3\left(C_1C_3L_1R_1R_3 + C_1L_1L_5R_1g_m + C_1L_1L_5 + C_3C_5L_5R_1R_3 + C_3L_1L_5R_3g_m + 2C_5L_1L_5R_3g_m + C\right.}$$

10.869 INVALID-ORDER-869 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_1C_5L_1R_1R_3R_5}{R_1g_m + s^5\left(C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_3 + C_1C_3C_5L_1R_3R_5 + C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_5R_3g_m\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m + C_1C_5L_1\right.}$$

10.870 INVALID-ORDER-870 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_3}{C_1C_3C_5L_1L_5R_1R_3R_5s^5 + 2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^4\left(C_1C_3L_1L_5R_1R_3R_5g_m + C_1C_3L_1L_5R_1R_3 + C_1C_3L_1L_5R_3R_5 + 2C_1C_5L_1L_5R_1R_3R_5g_m + C_1C_5L_1L_5R_1R_5 + C_1C_5L_1L_5R_3R_5 + C_3C_5L_1L_5R_3R_5\right) + s^3\left(C_1C_3L_1R_1R_3R_5 + 2C_1L_1L_5R_1R_3g_m + C_1L_1L_5.}$$

10.871 INVALID-ORDER-871 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_5R_1R_3 + C_1C_3C_5L_1L_5R_3R_5\right) + s^4\left(C_1C_3L_1L_5R_1R_3g_m + C_1C_3L_1L_5R_3 + 2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_1C_5L_1L_5R_5 + C_3C_5L_1L_5R_3R_5g_m + C_3C_5L_1L_5R_3 + C_3C_5L_1L_5R_5\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_1R_5 + C_3C_5L_1R_3R_5g_m + C_3C_5L_1R_3 + C_3C_5L_1R_5\right) + s^2\left(C_1C_3L_1R_1R_5 + 2C_1L_1L_5R_1R_3g_m + C_1L_1L_5R_1R_5g_m + C_1L_1L_5R_1 + C_1L_1L_5R_3 + C_1L_1L_5R_5 + C_3L_1L_5R_3R_5g_m + C_3L_1L_5R_3 + C_3L_1L_5R_5\right) + s\left(C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_1R_5 + C_3C_5L_1R_3R_5g_m + C_3C_5L_1R_3 + C_3C_5L_1R_5\right)}$$

10.872 INVALID-ORDER-872 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_5R_1R_3 + C_1C_3C_5L_1L_5R_3R_5\right) + s^4\left(C_1C_3C_5L_1R_1R_3R_5 + 2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_1C_5L_1L_5R_5 + C_3C_5L_1L_5R_3R_5g_m + C_3C_5L_1L_5R_3 + C_3C_5L_1L_5R_5\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_1R_5 + C_3C_5L_1R_3R_5g_m + C_3C_5L_1R_3 + C_3C_5L_1R_5\right) + s^2\left(C_1C_3L_1R_1R_5 + 2C_1L_1L_5R_1R_3g_m + C_1L_1L_5R_1R_5g_m + C_1L_1L_5R_1 + C_1L_1L_5R_3 + C_1L_1L_5R_5 + C_3L_1L_5R_3R_5g_m + C_3L_1L_5R_3 + C_3L_1L_5R_5\right) + s\left(C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_1R_5 + C_3C_5L_1R_3R_5g_m + C_3C_5L_1R_3 + C_3C_5L_1R_5\right)}$$

10.873 INVALID-ORDER-873 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^3\left(C_1C_3L_1R_1R_3R_5g_m - C_1C_3L_1R_1R_3\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_3L_1R_3R_5g_m - C_3L_1R_3\right) + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3 + L_1R_5g_m - L_1\right)}{2R_1g_m + s^3\left(2C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + C_1C_3L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_3L_1R_3g_m + C_3L_1R_5g_m + C_3L_1\right) + s\left(2C_3R_1R_3g_m + C_3R_1R_5g_m + C_3R_1 + C_3R_3 + C_3R_5 + 2L_1g_m\right) + 1}$$

10.874 INVALID-ORDER-874 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m - C_1C_5L_1R_1 - C_3C_5L_1R_3\right) + s^2\left(C_1L_1R_1g_m - C_3C_5R_1R_3 + C_3L_1R_3g_m - C_5L_1\right) + s\left(C_3R_1R_3g_m - C_5R_1 + L_1g_m\right)}{s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_1R_3g_m + C_3C_5L_1\right) + s^2\left(2C_3C_5R_1R_3g_m + C_3C_5R_1 + C_3C_5R_3 + C_3L_1g_m + 2C_5L_1g_m\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.875 INVALID-ORDER-875 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1R_1R_3R_5s^4 + R_1R_5g_m - R_1 + s^3\left(C_1C_3L_1R_1R_3R_5g_m - C_1C_3L_1R_1R_3 - C_1C_5L_1R_1R_5 - C_3C_5L_1R_3R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_3C_5R_1R_3R_5 +}{2R_1g_m + s^4\left(2C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_5 + C_1C_3C_5L_1R_3R_5\right) + s^3\left(2C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5 + 2C_3C_5L_1R_3R_5g_m + C_3C_5L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C\right.}$$

10.876 INVALID-ORDER-876 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1g_m + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m - C_1C_3C_5L_1R_1R_3\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_3C_5L_1R_3R_5g_m - C_3C_5L_1R_3\right) + s^2\left(C_1L_1R_1g_m + C_3C_5R_1R_3R_5g_m - C_3C_5R_1R_3 + C_3L_1R_3g_m + C_5L_1R_5g_m - C_5L_1\right) +}{s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3 + C_1C_3C_5L_1R_5\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_1R_3g_m + C_3C_5L_1R_5g_m + C_3C_5L_1\right) + s^2\left(2C_3C_5R_1R_3g_m + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_3\right.}$$

10.877 INVALID-ORDER-877 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_5R_1R_3g_ms^5 + R_1g_m + s^4\left(-C_1C_3C_5L_1R_1R_3 + C_1C_5L_1L_5R_1g_m + C_3C_5L_1L_5R_3g_m\right) + s^3\left(C_1C_3L_1R_1R_3g_m - C_1C_5L_1R_1 - C_3C_5L_1R_3 + C_3C_5L_5R_1R_3g_m + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m - C_3C_5R_1R_3 + C_3L_1R_3g_m - C_5L_1\right.}{s^5\left(C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3 + C_3C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_1R_3g_m + C_3C_5L_1 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(2C_3C_5R_1R_3g_m + C_3C\right.}$$

10.878 INVALID-ORDER-878 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_5R_1R_3s^5 - R_1 + s^4\left(C_1C_3L_1L_5R_1R_3g_m - C_1C_5L_1L_5R_1 - C_3C_5L_1L_5R_3\right) + s^3\left(-C_1C_3L_1R_1R_3 + C_1L_1L_5R_1g_m - C_3C_5L_5R_1R_3 + C_3L_1L_5R_3g_m - C_5L_1L_5\right.}{2R_1g_m + s^5\left(2C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + 2C_3C_5L_1L_5R_3g_m + C_3C_5L_1L_5\right) + s^3\left(2C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + 2C_3C_5L_5R_1R_3g_m + C_3C_5L\right.}$$

10.879 INVALID-ORDER-879 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_5R_1R_3g_ms^5 + R_1g_m + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m - C_1C_3C_5L_1R_1R_3 + C_1C_5L_1L_5R_1g_m + C_3C_5L_1L_5R_3g_m\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_3C_5L_1R_3R_5g_m - C_3C_5L_1R_3 + C_3C_5L_5R_1R_3g_m + C_5L_1L_5g_m\right) + s}{s^5\left(C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3 + C_1C_3C_5L_1R_5 + C_3C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_1R_3g_m + C_3C_5L_1R_5g_m + C_3C_5L_1 +\right.}$$

10.880 INVALID-ORDER-880 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_5R_1R_3R_5s^5 - R_1R_5 + s^4\left(C_1C_3L_1L_5R_1R_3R_5g_m - C_1C_3L_1L_5R_1R_3 - C_1C_5L_1L_5R_1R\right.}{2R_1R_5g_m + R_5 + s^5\left(2C_1C_3C_5L_1L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_5R_1R_5 + C_1C_3C_5L_1L_5R_3R_5\right) + s^4\left(2C_1C_3L_1L_5R_1R_3g_m + C_1C_3L_1L_5R_1R_5g_m + C_1C_3L_1L_5R_1 + C_1C_3L_1L_5R_3 + C_1C_3L_1L_5R_5 + 2C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_5 + 2C_3C_5L_1L_5R_3R_5g_m + C_3C_5L\right.}$$

10.881 INVALID-ORDER-881 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m - C_1C_3C_5L_1L_5R_1R_3\right) + s^4\left(C_1C_3L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1 + C_3C_5L_1L_5R_3R_5g_m - C_3C_5L_1L_5R_3\right) + s^3\left(C_1C_3L_1R_1R_3R_5g_m\right.}{2R_1g_m + s^5\left(2C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_3 + C_1C_3C_5L_1L_5R_5\right) + s^4\left(C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + 2C_3C_5L_1L_5R_3g_m + C_3C_5L_1L_5R_5g_m + C_3C_5L_1L_5\right) + s^3\left(2C_1C_3L_1R_1\right.}$$

10.882 INVALID-ORDER-882 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m - C_1C_3C_5L_1L_5R_1R_3\right) + s^4\left(-C_1C_3C_5L_1R_1R_3R_5 + C_1C_5L_1L_5R_1R_5g_m - C\right.}{2R_1g_m + s^5\left(2C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_3 + C_1C_3C_5L_1L_5R_5\right) + s^4\left(2C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_5 + C_1C_3C_5L_1R_3R_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + 2C_3C_5L_1L_5R_3g_m + C_3C_5L_1L_5R_5g_m\right.}$$

10.883 INVALID-ORDER-883 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_1C_3L_1L_3R_1R_5g_m - C_1C_3L_1L_3R_1\right) + s^3\left(C_3L_1L_3R_5g_m - C_3L_1L_3\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_3L_3R_1R_5g_m - C_3L_3R_1\right) + s\left(L_1R_5g_m - L_1\right)}{2R_1g_m + s^4\left(2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + 2C_3L_1L_3g_m\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + C_3L_1R_5g_m + C_3L_1 + 2C_3L_3R_1g_m + C_3L_3\right) + s\left(C_3R_1R_5g_m + C_3R_1 + C_3R_5 + 2L_1g_m\right) + 1}$$

10.884 INVALID-ORDER-884 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m - C_3C_5L_1L_3\right) + s^3\left(-C_1C_5L_1R_1 - C_3C_5L_3R_1 + C_3L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m - C_5L_1\right) + s\left(-C_5R_1 + L_1g_m\right)}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3\right) + s^4\left(C_1C_3C_5L_1R_1 + 2C_3C_5L_1L_3g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_1 + 2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(C_3C_5R_1 + C_3L_1g_m + 2C_5L_1g_m\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.885 INVALID-ORDER-885 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(C_1C_3L_1L_3R_1R_5g_m - C_1C_3L_1L_3R_1 - C_3C_5L_1L_3R_5\right) + s^3\left(-C_1C_5L_1R_1R_5 - C_3C_5L_3R_1R_5 + C_3L_1L_3R_5g_m - C_3L_1L_3\right) +}{2R_1g_m + s^5\left(2C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_5\right) + s^4\left(C_1C_3C_5L_1R_1R_5 + 2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_3C_5L_1L_3R_5g_m\right) + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5 + C_3C_5L_1R_5 + 2C_3C_5L_3R_1R_5g_m + C_3C_5\right.}$$

10.886 INVALID-ORDER-886 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_5g_m - C_1C_3C_5L_1L_3R_1\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_3C_5L_1L_3R_5g_m - C_3C_5L_1L_3\right) + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_3C_5L_3R_1R_5g_m - C_3C_5L_3R_1 + C_3L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m + C_5L_1\right.}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3\right) + s^4\left(C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_5 + 2C_3C_5L_1L_3g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_1R_5g_m + C_3C_5L_1 + 2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(C_3C_5R_1R_5g_m + C_3C\right.}$$

10.887 INVALID-ORDER-887 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5R_1g_ms^6 + R_1g_m + s^5\left(-C_1C_3C_5L_1L_3R_1 + C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_5L_1L_5R_1g_m - C_3C_5L_1L_3 + C_3C_5L_3L_5R_1g_m\right) + s^3\left(-C_1C_5L_1R_1 - C_3C_5L_3R_1 + C_3L_1L_3g_m + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m + C_3L\right.}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3 + C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_1 + 2C_3C_5L_1L_3g_m + C_3C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_1 + 2C_3C_5L_3R_1g_m + C_3C_5L_3 + C_3C_5L_5R_1g_m + C_3C_5L_5\right)}$$

10.888 INVALID-ORDER-888 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5R_1s^6 - R_1 + s^5\left(C_1C_3L_1L_3L_5R_1g_m - C_3C_5L_1L_3L_5\right) + s^4\left(-C_1C_3L_1L_3R_1 - C_1C_5L_1L_5R_1 - C_3C_5L_3L_5R_1 + C_3L_1L_3L_5g_m\right) + s^3\left(C_1L_1L_5R_1g_m - C_3L_\right.}{2R_1g_m + s^6\left(2C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_5R_1 + 2C_3C_5L_1L_3L_5g_m\right) + s^4\left(2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_5 + 2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C\right.}$$

10.889 INVALID-ORDER-889 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_5g_m - C_1C_3C_5L_1L_3R_1 + C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_5L_1L_5R_1g_m + C_3C_5L_1L_3R_5g_m - C_3C_5L_1L_3 + C_3C_5L_3L_5R_1g_m\right) + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_3C_5L_3R_1R_5g\right.}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3 + C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_5 + 2C_3C_5L_1L_3g_m + C_3C_5L_1L_5g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_1R_5g_m + C_3C_5L_1 + \right.}$$

10.890 INVALID-ORDER-890 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5R_1R_5s^6 - R_1R_5 + s^5\left(C_1C_3L_1L_3L_5R_1R_5g_m - C_1C_3L_1L_3L_5R_1 - C_3C_5L_1L_3L_5R_\right.}{2R_1R_5g_m + R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(C_1C_3C_5L_1L_5R_1R_5 + 2C_1C_3L_1L_3L_5R_1g_m + C_1C_3L_1L_3L_5 + 2C_3C_5L_1L_3L_5R_5g_m\right) + s^4\left(2C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_5 + C_1C_3L_1L_5R_1R_5g_m + C_1C_3L_1L_5R_1 + C_1C_3L_1L_5R_5 + 2C\right.}$$

10.891 INVALID-ORDER-891 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_5g_m - C_1C_3C_5L_1L_3L_5R_1\right) + s^5\left(C_1C_3L_1L_3L_5R_1g_m + C_3C_5L_1L_3L_5R_5g_m - C_3C_5L_1L_3L_5\right) + s^4\left(C_1C_3L_1L_3R_1R_5g_m - C_1C_3L_1L_3R_1 + C_1C_5L_1L_5R_1R_5g_m\right.}{2R_1g_m + s^6\left(2C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_5 + 2C_3C_5L_1L_3L_5g_m\right) + s^4\left(2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_5R\right.}$$

10.892 INVALID-ORDER-892 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_5g_m - C_1C_3C_5L_1L_3L_5R_1\right) + s^5\left(-C_1C_3C_5L_1L_3R_1R_5 + C_3C_5L_1L_3L_5R_5g_m - C_3C\right.}{2R_1g_m + s^6\left(2C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_5 + C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_5 + 2C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3C_5L_1R_1R_5 + 2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_5R\right.}$$

10.893 INVALID-ORDER-893 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_1L_1L_3R_1R_5g_m - C_1L_1L_3R_1\right) + s^2\left(L_1L_3R_5g_m - L_1L_3\right) + s\left(L_3R_1R_5g_m - L_3R_1\right)}{R_1R_5g_m + R_1 + R_5 + s^4\left(C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_5\right) + s^3\left(2C_1L_1L_3R_1g_m + C_1L_1L_3 + C_3L_1L_3R_5g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R_5 + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_5 + 2L_1L_3g_m\right) + s\left(L_1R_5g_m + L_1 + 2L_3R_1\right.}$$

10.894 INVALID-ORDER-894 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_1s^4 + L_3R_1g_ms + s^3\left(C_1L_1L_3R_1g_m - C_5L_1L_3\right) + s^2\left(-C_5L_3R_1 + L_1L_3g_m\right)}{C_1C_3C_5L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3 + C_3C_5L_1L_3\right) + s^3\left(C_1C_5L_1R_1 + C_3C_5L_3R_1 + C_3L_1L_3g_m + 2C_5L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_3R_1g_m + C_3L_3 + C_5L_1 + 2C_5L_3R_1g_m + C_5L_3\right) + s\left(C_5R\right.}$$

10.895 INVALID-ORDER-895 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_1R_5s^4 + s^3\left(C_1L_1L_3R_1R_5g_m - C_1L_1L_3R_1 - C_5L_1L_3R_5\right) + s^2\left(-C_5L_3R_1R_5 + L_1L_3R_5g_m\right.}{C_1C_3C_5L_1L_3R_1R_5s^5 + R_1R_5g_m + R_1 + R_5 + s^4\left(C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_5 + 2C_1C_5L_1L_3R_1R_5g_m + C_1C_5L_1L_3R_5 + C_3C_5L_1L_3R_5\right) + s^3\left(C_1C_5L_1R_1R_5 + 2C_1L_1L_3R_1g_m + C_1L_1L_3 + C_3C_5L_3R_1R_5 + C_3L_1L_3R_5g_m + C_3L_1L_3 + 2C_5L_1L\right.}$$

10.896 INVALID-ORDER-896 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{L_3R_1g_ms + s^4\left(C_1C_5L_1L_3R_1R_5g_m - C_1C_5L_1L_3R_1\right) + s^3\left(C_1L_1L_3R_1g_m + C_5L_1L_3R_5g_m - C_5L_1L_3\right) + s^2\left(C_5L_3\right.}{R_1g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_5\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3 + C_3C_5L_1L_3R_5g_m + C_3C_5L_1L_3\right) + s^3\left(C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_5 + C_3C_5L_3R_1R_5g_m + C_3C_5L_3R_1 + \right.}$$

10.897 INVALID-ORDER-897 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_3L_5R_1g_ms^5 + L_3R_1g_ms + s^4\left(-C_1C_5L_1L_3R_1 + C_5L_1L_3L_5g_m\right) + s^3\left(C_1L_1L_3R_1g_m - C_5L_1L_3 + C_5L_3L\right.}{R_1g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_3R_1 + C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3 + C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_3 + C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_5L_1R\right.}$$

10.898 INVALID-ORDER-898 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3L_5R_1s^5 - L_3R_1s + s^4\left(C_1L_1L_3L_5R_1g_m - C_5L_1L_3L_5\right) + s^3\left(-C_1L_1L_3R_1 - C_5L_3L_5R_1 + L_1L\right.}{C_1C_3C_5L_1L_3L_5R_1s^6 + R_1 + s^5\left(C_1C_3L_1L_3L_5R_1g_m + C_1C_3L_1L_3L_5 + 2C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5 + C_3C_5L_1L_3L_5\right) + s^4\left(C_1C_3L_1L_3R_1 + C_1C_5L_1L_5R_1 + C_3C_5L_3L_5R_1 + C_3L_1L_3L_5g_m + 2C_5L_1L_3L_5g_m\right) + s^3\left(2C_1L_1L_3R_1g_m + C_1L_1L_3 + C_1L_1L_5R_1g_m + \right.}$$

10.899 INVALID-ORDER-899 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_3L_5R_1g_ms^5 + L_3R_1g_ms + s^4\left(C_1C_5L_1L_3R_1R_5\right.}{R_1g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_5 + C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3 + C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + C_3C_5L_1L_3R_5g_m\right.}$$

10.900 INVALID-ORDER-900 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3L_5R_1R_5s^6 + R_1R_5 + s^5\left(C_1C_3L_1L_3L_5R_1R_5g_m + C_1C_3L_1L_3L_5R_1 + C_1C_3L_1L_3L_5R_5 + 2C_1C_5L_1L_3L_5R_1R_5g_m + C_1C_5L_1L_3L_5R_5 + C_3C_5L_1L_3L_5R_5\right) + s^4\left(C_1C_3L_1L_3R_1R_5 + C_1C_5L_1L_5R_1R_5 + 2C_1L_1L_3L_5R_1g_m + C_1L_1L_3L_5 + C_3C_5L_3L_5R_1R_5 + C\right.}{}$$

10.901 INVALID-ORDER-901 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{}{R_1R_5g_m + R_1 + R_5 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(C_1C_3L_1L_3L_5R_1g_m + C_1C_3L_1L_3L_5 + 2C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5 + C_3C_5L_1L_3L_5R_5g_m + C_3C_5L_1L_3L_5\right) + s^4\left(C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1\right.}$$

10.902 INVALID-ORDER-902 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{}{R_1R_5g_m + R_1 + R_5 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(C_1C_3C_5L_1L_3R_1R_5 + 2C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5 + C_3C_5L_1L_3L_5R_5g_m + C_3C_5L_1L_3L_5\right) + s^4\left(C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_5 + 2C\right.}$$

10.903 INVALID-ORDER-903 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_1C_3L_1L_3R_1R_5g_m - C_1C_3L_1L_3R_1\right) + s^3\left(C_1C_3L_1R_1R_3R_5g_m - C_1C_3L_1R_1R_3 + C_3L_1L_3R_5g_m - C_3L_1L_3\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_3L_1R_3R_5g_m - C_3L_1R_3 + C_3L_3R_1R_5g_m - C_3L_3R_1\right) + s\left(C_3R_1R_3R_5g_m - C_3R\right.}{2R_1g_m + s^4\left(2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3\right) + s^3\left(2C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + C_1C_3L_1R_5 + 2C_3L_1L_3g_m\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_3L_1R_3g_m + C_3L_1R_5g_m + C_3L_1 + 2C_3L_3R_1g_m + C_3L_3\right) + s\left(2C_3R_1R_3g_m + C_3R_1R_5\right.}$$

10.904 INVALID-ORDER-904 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1s^5 + R_1g_m + s^4\left(-C_1C_3C_5L_1R_1R_3 + C_1C_3L_1L_3R_1g_m - C_3C_5L_1L_3\right) + s^3\left(C_1C_3L_1R_1R_3g_m - C_1C_5L_1R_1 - C_3C_5L_1R_3 - C_3C_5L_3R_1 + C_3L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m - C_3C_5R_1R_3 + C_3L_1R_3g_m + C_3L_3R_1g_m\right.}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3\right) + s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3 + 2C_3C_5L_1L_3g_m\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_1R_3g_m + C_3C_5L_1 + 2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(2C_3C_5R_1R_3g_m + C\right.}$$

10.905 INVALID-ORDER-905 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_1 R_5 s^5 + R_1 R_5 g_m - R_1 + s^4 \left(-C_1 C_3 C_5 L_1 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 R_1 R_5 g_m - C_1 C_3 L_1 L_3 R_1 - C_3 C_5 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 R_5 g_m - C_1 C}{2 R_1 g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_1 R_5 + C_1 C_3 C_5 L_1 R_3 R_5 + 2 C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + 2 C_3 C_5 L_1 L_3 R_5 g_m\right) + s^3 \left(2 C_1 C_3 L_1 R_1 R_3 g_m + C_1 C_3 L_1 R_1 R_5 g_m + C_1 C_3 L_1 R_1 + C_1 C_3 L_1 R_3 + C_1 C_3 L_1 L_{4}\right)}$$

10.906 INVALID-ORDER-906 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_1\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m + C_3 C_5 L_1 L_3 R_5 g_m - C_3 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m + C_1 C_5 L_1 R_1 R_5 g_m - C_1 C_5 L_1 R_1 + C_3 C_5 L_1 R_3 R_5 g_m - C_3 C_5 L_1 R_3 + C_3 C_5 L_3 R_1 R_5 g_{m}\right)}{s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 g_m + C_1 C_3 C_5 L_1 R_1 R_5 g_m + C_1 C_3 C_5 L_1 R_1 + C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_1 R_5 + 2 C_3 C_5 L_1 L_3 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 g_m + C_1 C_3 L_1 + 2 C_1 C_5 L_1 R_1 g_m + C_1 C_5 L_1 + 2 C_3 C_5 L_1 R_3 g_m + C_3 C_5 L_1 R_5 g_m + {}\right.}$$

10.907 INVALID-ORDER-907 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m s^6 + R_1 g_m + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(-C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_5 R_1 g_m - C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_m + C_3 C_5 L_3 L_5 R_1 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m - C_1 C_5 L_1 R_1 - C_3 C_5}{s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 g_m + C_1 C_3 C_5 L_1 R_1 + C_1 C_3 C_5 L_1 R_3 + 2 C_3 C_5 L_1 L_3 g_m + C_3 C_5 L_1 L_5 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 g_m + C_1 C_3 L_1 + 2 C_1 C_5 L_1 R_1 g_m + C_1 C_5 L_1 + 2 C_3 C_5 L_1 R_3 g_m\right.}$$

10.908 INVALID-ORDER-908 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 - R_1 + s^5 \left(-C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_1 g_m - C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(-C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_5 R_1 R_3 g_m - C_1 C_5 L_1 L_5 R_1 - C_3}{2 R_1 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_1 + C_1 C_3 C_5 L_1 L_5 R_3 + 2 C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 R_1 g_m + C_1 C_3 L_1 L_5 + 2 C_1 C_5 L_1 L_5 R_1 g_m + C_1 C_5 L_1 L_5 + 2 C_3 C_5 L_1 L}$$

10.909 INVALID-ORDER-909 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty\right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m s^6 + R_1 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_1 L_3 R_5 g_m - C_3 C_5 L_1 L_3 + C_3 C_5 L_1 L_5 R_3 g_{m}\right)}{s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 g_m + C_1 C_3 C_5 L_1 R_1 R_5 g_m + C_1 C_3 C_5 L_1 R_1 + C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_1 R_5 + 2 C_3 C_5 L_1 L_3 g_m + C_3 C_5 L_1 L_{5}\right)}$$

10.910 INVALID-ORDER-910 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 s^6 - R_1 R_5 + s^5 \left(-C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 + C\right.}{2 R_1 R_5 g_m + R_5 + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_1 R_5 + C_1 C_3 C_5 L_1 L_5 R_3 R_5 + 2 C_1 C_3 L_1 L_3 L_5 R_1 g_m + C_1 C_3 L_1 L_3 L_5 + 2 C_3 C_5 L_1 L_3 L_5 R_5 g_m\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_1 R_5 g_m + C_1 C_3 L_1 L_3 R_5 + 2 C_1 C_{3}\right.}$$

10.911 INVALID-ORDER-911 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5 R_1\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_1 g_m + C_3 C_5 L_1 L_3 L_5 R_5 g_m - C_3 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_5 g_m - C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_5 R_1 R_3 g_m +}{2 R_1 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_1 + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_1 L_5 R_5 + 2 C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 R_1 g_m + C_1 C_3 L_1 L_5 + 2}$$

10.912 INVALID-ORDER-912 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5 R_1\right) + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m -}{2 R_1 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5 + 2 C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_1 + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_1 L_5 R_5 + 2 C_3 C_5 L_1 L_3 L_5 g_m\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_{m}\right.}$$

10.913 INVALID-ORDER-913 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_3 R_1 R_3 R_5 g_m - C_1 L_1 L_3 R_1 R_3\right) + s^2 \left(L_1 L_3 R_3 R_5 g_m - L_1 L_3 R_3\right) + s \left(L_3 R_1 R_3 R_5 g_m - L_3 R}{R_1 R_3 R_5 g_m + R_1 R_3 + R_3 R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 R_5\right) + s^3 \left(2 C_1 L_1 L_3 R_1 R_3 g_m + C_1 L_1 L_3 R_1 R_5 g_m + C_1 L_1 L_3 R_1 + C_1 L_1 L_3 R_3 + C_1 L_1 L_3 R_5 + C_3 L_1 L_3 R_3 R_5 g_m + C_3 L_1 L_3 R_3\right) + s^2 \left(C_1 L_1 R_1 R_3 R_5 g_m + C_1 L_1 R_1 R_3 + C_1 L_1 R_3}$$

10.914 INVALID-ORDER-914 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_1R_3s^4 + L_3R_1R_3g_ms + s^3\left(C_1L_1L_3R_1R_3g_m - C_5L_1L_3R_3\right) + s^2\left(-C_5L_3R_1R_3 + L_1L_3R}{C_1C_3C_5L_1L_3R_1R_3s^5 + R_1R_3g_m + R_3 + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_3 + 2C_1C_5L_1L_3R_1R_3g_m + C_1C_5L_1L_3R_1 + C_1C_5L_1L_3R_3 + C_3C_5L_1L_3R_3\right) + s^3\left(C_1C_5L_1R_1R_3 + C_1L_1L_3R_1g_m + C_1L_1L_3 + C_3C_5L_3R_1R_3 + C_3L_1L_3R_3g_m + 2C_5L_1L_3R_3g_m + C_5L_1L_3\right.}$$

10.915 INVALID-ORDER-915 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{}{C_1C_3C_5L_1L_3R_1R_3R_5s^5 + R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^4\left(C_1C_3L_1L_3R_1R_3R_5g_m + C_1C_3L_1L_3R_1R_3 + C_1C_3L_1L_3R_3R_5 + 2C_1C_5L_1L_3R_1R_3R_5g_m + C_1C_5L_1L_3R_1R_5 + C_1C_5L_1L_3R_3R_5 + C_3C_5L_1L_3R_3R_5\right) + s^3\left(C_1C_5L_1R_1R_3R_5 + 2C_1L_1L_3R_1R_3g_m + C_1L_1L_3R\right.}$$

10.916 INVALID-ORDER-916 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{}{R_1R_3g_m + R_3 + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_3 + C_1C_3C_5L_1L_3R_3R_5\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_3 + 2C_1C_5L_1L_3R_1R_3g_m + C_1C_5L_1L_3R_1R_5g_m + C_1C_5L_1L_3R_1 + C_1C_5L_1L_3R_3 + C_1C_5L_1L_3R_5 + C_3C_5L_1L_3R_3R_5g_m + C_3C_5L_1L_3\right.}$$

10.917 INVALID-ORDER-917 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{}{R_1R_3g_m + R_3 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_3\right) + s^5\left(C_1C_3C_5L_1L_3R_1R_3 + C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5 + C_3C_5L_1L_3L_5R_3g_m\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_3 + 2C_1C_5L_1L_3R_1R_3g_m + C_1C_5L_1L_3R_1 + C_1C_5L_1L_3R_3 + C_1C_5L_1\right.}$$

10.918 INVALID-ORDER-918 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-}{C_1C_3C_5L_1L_3L_5R_1R_3s^6 + R_1R_3 + s^5\left(C_1C_3L_1L_3L_5R_1R_3g_m + C_1C_3L_1L_3L_5R_3 + 2C_1C_5L_1L_3L_5R_1R_3g_m + C_1C_5L_1L_3L_5R_1 + C_1C_5L_1L_3L_5R_3 + C_3C_5L_1L_3L_5R_3\right) + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_5L_1L_5R_1R_3 + C_1L_1L_3L_5R_1g_m + C_1L_1L_3L_5 + C_3C_5L_3L_5R_1R_3 + C\right.}$$

10.919 INVALID-ORDER-919 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{}{R_1R_3g_m + R_3 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_3\right) + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_3 + C_1C_3C_5L_1L_3R_3R_5 + C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5 + C_3C_5L_1L_3L_5R_3g_m\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_3 + 2C_1C_5L_1L_3R\right.}$$

10.920 INVALID-ORDER-920 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{}{C_1C_3C_5L_1L_3L_5R_1R_3R_5s^6 + R_1R_3R_5 + s^5\left(C_1C_3L_1L_3L_5R_1R_3R_5g_m + C_1C_3L_1L_3L_5R_1R_3 + C_1C_3L_1L_3L_5R_3R_5 + 2C_1C_5L_1L_3L_5R_1R_3R_5g_m + C_1C_5L_1L_3L_5R_1R_5 + C_1C_5L_1L_3L_5R_3R_5 + C_3C_5L_1L_3L_5R_3R_5\right) + s^4\left(C_1C_3L_1L_3R_1R_3R_5 + C_1C_5L_1L_5R_1R_3R_5 + 2C_1\right.}$$

10.921 INVALID-ORDER-921 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{}{R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_3L_5R_1R_3 + C_1C_3C_5L_1L_3L_5R_3R_5\right) + s^5\left(C_1C_3L_1L_3L_5R_1R_3g_m + C_1C_3L_1L_3L_5R_3 + 2C_1C_5L_1L_3L_5R_1R_3g_m + C_1C_5L_1L_3L_5R_1R_5g_m + C_1C_5L_1L_3L_5R_1 + C_1C_5L_1L_3L_5R_3 + C_1C_5L_1L_3\right.}$$

10.922 INVALID-ORDER-922 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{}{R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_3L_5R_1R_3 + C_1C_3C_5L_1L_3L_5R_3R_5\right) + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5 + 2C_1C_5L_1L_3L_5R_1R_3g_m + C_1C_5L_1L_3L_5R_1R_5g_m + C_1C_5L_1L_3L_5R_1 + C_1C_5L_1L_3L_5R_3 + C_1C_5L_1L_3L_5R_5 + C_3C_5L_1L_3\right.}$$

10.923 INVALID-ORDER-923 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_1C_3L_1L_3R_1R_3R_5g_m - C_1C_3L_1L_3R_1R_3\right) + s^3\left(C_1L_1L_3R_1R_5g_m - C_1L_1L_3R_1 + C_3L_1L_3R_3R_5g_m - C_3L_1L_3R_3\right) + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3 + C_3L_3R_1R_3R_5g\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_5\right) + s^3\left(2C_1L_1L_3R_1g_m + C_1L_1L_3 + 2C_3L_1L_3R_3g_m + C_3L_1L_3R_5g_m + C_3L_1L_3\right) + s^2\left(2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R\right.}$$

10.924 INVALID-ORDER-924 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1R_3s^5 + R_1R_3g_m + s^4\left(C_1C_3L_1L_3R_1R_3g_m - C_1C_5L_1L_3R_1 - C_3C_5L_1L_3R_3\right) + s^3\left(-C_1C_5L_1R_1R_3 + C_1L_1L_3R_1g_m - C_3C_5L_3R_1R_3 + C_3L_1L_3R_3g_m - C_5L_1L_3\right) +}{R_1g_m + s^5\left(2C_1C_3C_5L_1L_3R_1R_3g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_3\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3 + 2C_3C_5L_1L_3R_3g_m + C_3C_5L_1L_3\right) + s^3\left(2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + 2C_3C_5L_3R_1R_3g_m + C_3C_5L_3\right.}$$

10.925 INVALID-ORDER-925 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1R_3R_5s^5 + R_1R_3R_5g_m - R_1R_3 + s^4\left(C_1C_3L_1L_3R_1R_3R_5g_m - C_1C_3\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(2C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_5 + C_1C_3C_5L_1L_3R_3R_5\right) + s^4\left(2C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_5 + 2C_1C_5L_1L_3R_1R_5g_m + C_1C_5L_1L_3R_5 + 2C_3C_5\right.}$$

10.926 INVALID-ORDER-926 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1R_3g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5g_m - C_1C_3C_5L_1L_3R_1R_3\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_5L_1L_3R_1R_5g_m - C_1C_5L_1L_3R_1 + C_3C_5L_1L_3R_3R_5g_m - C_3C_5L_1L_3R_3\right) + s^3\left(C_1C_5L_1R_1R_3\right.}{R_1g_m + s^5\left(2C_1C_3C_5L_1L_3R_1R_3g_m + C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_3 + C_1C_3C_5L_1L_3R_5\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3 + 2C_3C_5L_1L_3R_3g_m + C_3C_5L_1L_3R_5g_m + C_3C_5L_1L_3\right) + s^3\left(2C_1C_5L_1R_1R\right.}$$

10.927 INVALID-ORDER-927 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5R_1R_3g_ms^6 + R_1R_3g_m + s^5\left(-C_1C_3C_5L_1L_3R_1R_3 + C_1C_5L_1L_3L_5R_1g_m + C_3C_5L_1L_3L_5R_3g_m\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m - C_1C_5L_1L_3R_1 + C_1C_5L_1L_5R_1R_3g_m - C_3C_5L_1L_3\right.}{R_1g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_3g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_3 + C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3 + C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + 2C_3C_5L_1L_3R_3\right.}$$

10.928 INVALID-ORDER-928 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5R_1R_3s^6 - R_1R_3 + s^5\left(C_1C_3L_1L_3L_5R_1R_3g_m - C_1C_5L_1L_3L_5R_1 - C_3\right.}{2R_1R_3g_m + R_1 + R_3 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_3\right) + s^5\left(C_1C_3L_1L_3L_5R_1g_m + C_1C_3L_1L_3L_5 + 2C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5 + 2C_3C_5L_1L_3L_5R_3g_m + C_3C_5L_1L_3L_5\right) + s^4\left(2C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1\right.}$$

10.929 INVALID-ORDER-929 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5R_1R_3g_ms^6 + R_1R_3g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5g_m - C_1C_3C_5L_1L_3R_1R_3 + C_1C_5L_1L_3L_5R_1g_m + C_3C_5L_1L_3L_5R_3g_m\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_5L_1L_3R_1R_5g_m - C_1C_5L_1\right.}{R_1g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_3g_m + C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_3 + C_1C_3C_5L_1L_3R_5 + C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3 + C_1C\right.}$$

10.930 INVALID-ORDER-930 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_3L_5R_1R_5 + C_1C_3C_5L_1L_3L_5R_3R_5\right) + s^5\left(2C_1C_3L_1L_3L_5R_1R_3g_m + C_1C_3L_1L_3L_5R_1R_5g_m + C_1C_3L_1L_3L_5R_1 + C_1C_3L_1L_3L_5R_3 + C_1C_3L_1L_3L_5R_5 + 2C_1C_5L_1L_3L_5R_1R_5g_m + C_1C_5L_1}$$

10.931 INVALID-ORDER-931 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3R_5g_m - C_1C_3C_5L_1L_3L_5R_1R_3\right) + s^5\left(C_1C_3L_1L_3L_5R\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_3 + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(C_1C_3L_1L_3L_5R_1g_m + C_1C_3L_1L_3L_5 + 2C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5 + 2C_3C_5L_1L_3L_5\right.}$$

10.932 INVALID-ORDER-932 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_3 + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_5 + C_1C_3C_5L_1L_3R_3R_5 + 2C_1C_5L_1L_3L_5R_1g_m\right.}$$

10.933 INVALID-ORDER-933 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_1C_3L_1L_3R_1R_3R_5g_m - C_1C_3L_1L_3R_1R_3\right) + s^3\left(C_3L_1L_3R_3R_5g_m - C_3L_1L_3R_3\right) + s^2\left(C_1L_1R_1R_3\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_5\right) + s^3\left(C_1C_3L_1R_1R_3R_5g_m + C_1C_3L_1R_1R_3 + C_1C_3L_1R_3R_5 + 2C_3L_1L_3R_3g_m + C_3L_1L_3R_5g_m + C_3L_1L_3\right) + s^2\left(2C_1L_1R_1R_3g_m\right.}$$

10.934 INVALID-ORDER-934 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1R_3s^5 + R_1R_3g_m + s^4\left(C_1C_3L_1L_3R_1R_3g_m - C_3C_5L_1L_3R_3\right) + s^3\left(-C_1C_5L_1R_1R_3 - C_3C_5L_3R_1R_3 + C\right.}{R_1g_m + s^5\left(2C_1C_3C_5L_1L_3R_1R_3g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_3\right) + s^4\left(C_1C_3C_5L_1R_1R_3 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_3C_5L_1L_3R_3g_m + C_3C_5L_1L_3\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_3C_5L_1R\right.}$$

10.935 INVALID-ORDER-935 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(2C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_5 + C_1C_3C_5L_1L_3R_3R_5\right) + s^4\left(C_1C_3C_5L_1R_1R_3R_5 + 2C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_5 + 2C_3C_5L_1L_3R_3R_5g_m + C\right.}$$

10.936 INVALID-ORDER-936 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1R_3g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5g_m - C_1C_3C\right.}{R_1g_m + s^5\left(2C_1C_3C_5L_1L_3R_1R_3g_m + C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_3 + C_1C_3C_5L_1L_3R_5\right) + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_3 + C_1C_3C_5L_1R_3R_5 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_3C_5L_1L_3R_3g_m + C_3C_5L_1L_3R_5g_m + C\right.}$$

10.937 INVALID-ORDER-937 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5R_1R_3g_ms^6 + R_1R_3g_m + s^5\left(-C_1C_3\right.}{R_1g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_3g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_3 + C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_3 + C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3C_5L_1R_1R_3 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + C_1C_5L_1L_5R_1g_m +\right.}$$

10.938 INVALID-ORDER-938 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3}{2R_1R_3g_m + R_1 + R_3 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_3\right) + s^5\left(C_1C_3C_5L_1L_5R_1R_3 + C_1C_3L_1L_3L_5R_1g_m + C_1C_3L_1L_3L_5 + 2C_3C_5L_1L_3L_5R_3g_m + C_3C_5L_1L_3L_5\right) + s^4\left(2C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_3 +\right.}$$

10.939 INVALID-ORDER-939 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{}{R_1g_m + s^6\left(C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_3g_m + C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_3 + C_1C_3C_5L_1L_3R_5 + C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_3 + C_3C_5L_1L_3L_5g_m\right) + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m + C\right.}$$

10.940 INVALID-ORDER-940 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_3L_5R_1R_5 + C_1C_3C_5L_1L_3L_5R_3R_5\right) + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5 + 2C_1C_3L_1L_3L_5R_1R_3g_m + C_1C_3L_1L_3L_5R_1R_5g_m + C_1C_3L_1L_3L_5R_1 + C_1C_3L_1L_3L_5R_3 + C_1C_3L_1L_3L_5R_5 + 2C_3C_5L_1\right.}$$

10.941 INVALID-ORDER-941 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_3 + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_5R_1R_3 + C_1C_3C_5L_1L_5R_3R_5 + C_1C_3L_1L_3L_5R_1g_m +\right.}$$

10.942 INVALID-ORDER-942 $Z(s) = \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1},\ \infty,\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_3 + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_5 + C_1C_3C_5L_1L_3R_3R_5 + C_1C_3C_5L_1L_5R_1R_3}$$

10.943 INVALID-ORDER-943 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_3s^3 + C_1L_1R_1R_3g_ms^2 - C_5R_1R_3s + R_1R_3g_m}{R_1g_m + s^3\left(2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3\right) + s^2\left(C_1C_5R_1R_3 + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.944 INVALID-ORDER-944 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_3R_5s^3 - C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(2C_1C_5L_1R_1R_3R_5g_m + C_1C_5L_1R_1R_5 + C_1C_5L_1R_3R_5\right) + s^2\left(C_1C_5R_1R_3R_5 + 2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R_3 + C_1L_1R_5\right) + s\left(C_1R_1R_3 + C_1R_1R_5 + 2C_5R_1R_3R_5g_m + C_5R_1R_5 + C_5R_3R_5\right)}$$

10.945 INVALID-ORDER-945 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1L_1R_1R_3g_ms^2 + R_1R_3g_m + s^3\left(C_1C_5L_1R_1R_3R_5g_m - C_1C_5L_1R_1R_3\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^3\left(2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_1R_5\right) + s^2\left(C_1C_5R_1R_3 + C_1C_5R_1R_5 + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + 2C_5R_1R_3g_m + C_5R_1R_5g_m + C_5R_1 + C_5R_3 + C_5R_5\right) + 1}$$

10.946 INVALID-ORDER-946 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_3g_ms^4 - C_1C_5L_1R_1R_3s^3 - C_5R_1R_3s + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_5L_5R_1R_3g_m\right)}{R_1g_m + s^4\left(C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_5R_1\right) + s^2\left(C_1C_5R_1R_3 + C_1L_1R_1g_m + C_1L_1 + C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.947 INVALID-ORDER-947 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_3s^4 + C_1L_1L_5R_1R_3g_ms^3 + L_5R_1R_3g_ms - R_1R_3 + s^2\left(-C_1L_1R_1R_3 - C_5L_5R_1R_3\right)}{2R_1R_3g_m + R_1 + R_3 + s^4\left(2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3\right) + s^3\left(C_1C_5L_5R_1R_3 + C_1L_1L_5R_1g_m + C_1L_1L_5\right) + s^2\left(2C_1L_1R_1R_3g_m + C_1L_1R_1 + C_1L_1R_3 + C_1L_5R_1 + 2C_5L_5R_1R_3g_m + C_5L_5R_1 + C_5L_5R_3\right) + s\left(C_1R_1R_3 + L_5R_1g_m + L_5\right)}$$

10.948 INVALID-ORDER-948 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_1C_5L_1R_1R_3R_5g_m - C_1C_5L_1R_1R_3\right) + s^2\left(C_1L_1R_1R_3g_m + C_5L_5R_1R_3g_m\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^4\left(C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_1R_5 + C_1C_5L_5R_1\right) + s^2\left(C_1C_5R_1R_3 + C_1C_5R_1R_5 + C_1L_1R_1g_m + C_1L_1 + C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_5R_1R_3g_m + C_5R_1R_5g_m + C}$$

10.949 INVALID-ORDER-949 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_3R_5s^4 - R_1R_3R_5 + s^3\left(C_1L_1L_5R_1R_3R_5g_m - C_1L_1L_5R_1R_3\right) + s^2\left(-C_1L_1R_1R_3R_5 - C_5L_5R_1R_3R_5\right) + s\left(L_5R_1R_3R_5g}{2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^4\left(2C_1C_5L_1L_5R_1R_3R_5g_m + C_1C_5L_1L_5R_1R_5 + C_1C_5L_1L_5R_3R_5\right) + s^3\left(C_1C_5L_5R_1R_3R_5 + 2C_1L_1L_5R_1R_3g_m + C_1L_1L_5R_1R_5g_m + C_1L_1L_5R_1 + C_1L_1L_5R_3 + C_1L_1L_5R_5\right) + s^2\left(2C_1L_1R_1R_3R_5g_m + C_1L_1R_1R_5 + C_1L_1R_3R_5 + C_1L}$$

10.950 INVALID-ORDER-950 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1L_1L_5R_1R_3g_ms^3 + L_5R_1R_3g_ms + R_1R_3R_5g_m - R_1R_3 + s^4\left(C_1C_5L_1L_5R_1R_3R_5g_m - C_1C_5L_1L_5R_1R_3\right) + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3 + C_5L_5R_1}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_5L_5R_1R_3 + C_1C_5L_5R_1R_5 + C_1L_1L_5R_1g_m + C_1L_1L_5\right) + s^2\left(2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R_3}$$

10.951 INVALID-ORDER-951 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3,\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_3R_5s^3 - C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^4\left(C_1C_5L_1L_5R_1R_3R_5g_m - C_1C_5L_1L_5R_1R_3\right) + s^2\left(C_1L_1R_1R_3\right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_1C_5L_1L_5R_5\right) + s^3\left(2C_1C_5L_1R_1R_3R_5g_m + C_1C_5L_1R_1R_5 + C_1C_5L_1R_3R_5 + C_1C_5L_5R_1R_3 + C_1C_5L_5R_1R_5\right) + s^2\left(C_1C_5R_1R_3R_5 + 2C_1L_1R\right.}$$

10.952 INVALID-ORDER-952 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1\right)}{2R_1g_m + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5\right) + s^2\left(C_1C_3R_1R_5 + 2C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_3R_1R_5g_m + C_3R_1 + C_3R_5\right) + 1}$$

10.953 INVALID-ORDER-953 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1s^3 + C_1L_1R_1g_ms^2 - C_5R_1s + R_1g_m}{C_1C_3C_5L_1R_1s^4 + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.954 INVALID-ORDER-954 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_5s^3 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1\right)}{C_1C_3C_5L_1R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5\right) + s^2\left(C_1C_3R_1R_5 + C_1C_5R_1R_5 + 2C_1L_1R_1g_m + C_1L_1 + C_3C_5R_1R_5\right) + s\left(C_1R_1 + C_3R_1R_5g_m + C_3R_1 + C_3R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.955 INVALID-ORDER-955 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1L_1R_1g_ms^2 + R_1g_m + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1\right) + s\left(C_5R_1R_5g_m - C_5R_1\right)}{s^4\left(C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_5\right) + s^3\left(C_1C_3C_5R_1R_5 + C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1R_5g_m + C_3C_5R_1 + C_3C_5R_5\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.956 INVALID-ORDER-956 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1g_ms^4 - C_1C_5L_1R_1s^3 - C_5R_1s + R_1g_m + s^2\left(C_1L_1R_1g_m + C_5L_5R_1g_m\right)}{s^5\left(C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_1 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.957 INVALID-ORDER-957 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1s^4 + C_1L_1L_5R_1g_ms^3 + L_5R_1g_ms - R_1 + s^2\left(-C_1L_1R_1 - C_5L_5R_1\right)}{C_1C_3C_5L_1L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_1 + C_1C_3L_5R_1 + C_1C_5L_5R_1 + C_3C_5L_5R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + C_3L_5R_1g_m + C_3L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + C_3R_1\right) + 1}$$

10.958 INVALID-ORDER-958 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1g_ms^4 + R_1g_m + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1\right) + s^2\left(C_1L_1R_1g_m + C_5L_5R_1g_m\right) + s\left(C_5R_1R_5g_m - C_5R_1\right)}{s^5\left(C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_5 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3C_5R_1R_5 + C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1R_5g_m\right.}$$

10.959 INVALID-ORDER-959 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_5s^4 - R_1R_5 + s^3\left(C_1L_1L_5R_1R_5g_m - C_1L_1L_5R_1\right) + s^2\left(-C_1L_1R_1R_5 - C_5L_5R_1R_5\right) + s\left(L_5R_1R_5g_m - L_5R_1\right)}{C_1C_3C_5L_1L_5R_1R_5s^5 + 2R_1R_5g_m + R_5 + s^4\left(C_1C_3L_1L_5R_1R_5g_m + C_1C_3L_1L_5R_1 + C_1C_3L_1L_5R_5 + 2C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_3L_1R_1R_5 + C_1C_3L_5R_1R_5 + C_1C_5L_5R_1R_5 + 2C_1L_1L_5R_1g_m + C_1L_1L_5 + C_3C_5L_5R_1R_5\right) + s^2\left(2C_1L_1R_1R_5g_m + C\right.}$$

10.960 INVALID-ORDER-960 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1L_1L_5R_1g_ms^3 + L_5R_1g_ms + R_1R_5g_m - R_1 + s^4\left(C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_5\right.}{2R_1g_m + s^5\left(C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_5\right) + s^4\left(C_1C_3C_5L_5R_1R_5 + C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + C_1C_3L_5R_1 + C_1C_5L_5R_1 + C_3C_5L_5R_1R_5g_m\right.}$$

10.961 INVALID-ORDER-961 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_5s^3 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^4\left(C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1\right) + s^2\left(C_1L_1R_1R_5\right.}{2R_1g_m + s^5\left(C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_5\right) + s^4\left(C_1C_3C_5L_1R_1R_5 + C_1C_3C_5L_5R_1R_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5 + C_1C_5L_5R_1 + C_3C_5L_5R\right.}$$

10.962 INVALID-ORDER-962 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3\right)}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_1R_1R_3R_5g_m + C_1C_3L_1R_1R_3 + C_1C_3L_1R_3R_5\right) + s^2\left(C_1C_3R_1R_3R_5 + 2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R_3 + C_1L_1R_5\right) + s\left(C_1R_1R_3 + C_1R_1R_5 + C_3R_1R_3R_5g_m + C_3R_1R_3 + C_3R_3R_5\right)}$$

10.963 INVALID-ORDER-963 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_3s^3 + C_1L_1R_1R_3g_ms^2 - C_5R_1R_3s + R_1R_3g_m}{C_1C_3C_5L_1R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3\right) + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_1L_1R_1g_m + C_1L_1 + C_3C_5R_1R_3\right) + s\left(C_1R_1 + C_3R_1R_3g_m + C_3R_3 + 2C_5R_1R_3g_m + C_5R_1 + C_5R_3\right) + 1}$$

10.964 INVALID-ORDER-964 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_1R_3R_5s^3 - C_5R_1R_3R_5s + R_1R_3R_5g_m - R_1R_3 + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3\right)}{C_1C_3C_5L_1R_1R_3R_5s^4 + 2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^3\left(C_1C_3L_1R_1R_3R_5g_m + C_1C_3L_1R_1R_3 + C_1C_3L_1R_3R_5 + 2C_1C_5L_1R_1R_3R_5g_m + C_1C_5L_1R_1R_5 + C_1C_5L_1R_3R_5\right) + s^2\left(C_1C_3R_1R_3R_5 + C_1C_5R_1R_3R_5 + 2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R_1\right.}$$

10.965 INVALID-ORDER-965 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1L_1R_1R_3g_ms^2 + R_1R_3g_m + s^3\left(C_1C_5L_1R_1R_3R_5g_m - C_1C_5L_1R_1R_3\right) + s\left(C_5R_1R_3R_5g_m - C_5R_1R_3\right)}{R_1g_m + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_3 + C_1C_3C_5L_1R_3R_5\right) + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_1R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_5R_1R_3 + C_1C_5R_1R_5 + C_1\right.}$$

10.966 INVALID-ORDER-966 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_3g_ms^4 - C_1C_5L_1R_1R_3s^3 - C_5R_1R_3s + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_5L_5R_1R_3g_m\right)}{R_1g_m + s^5\left(C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_1R_1R_3 + C_1C_3C_5L_5R_1R_3 + C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1R_1 + C_1C_5L_1R_3 + C_1C_5L_5R_1 + C_3C_5L_5R_1R_3g_m + C_3C_5L_5R_3\right)}$$

10.967 INVALID-ORDER-967 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_3s^4 + C_1L_1L_5R_1R_3g_ms^3 + L_5R_1R_3g_ms - R_1R_3 + s^2\left(-C_1L_1R_1R_3 - C_5L_5R_1R_3\right)}{C_1C_3C_5L_1L_5R_1R_3s^5 + 2R_1R_3g_m + R_1 + R_3 + s^4\left(C_1C_3L_1L_5R_1R_3g_m + C_1C_3L_1L_5R_3 + 2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3\right) + s^3\left(C_1C_3L_1R_1R_3 + C_1C_3L_5R_1R_3 + C_1C_5L_5R_1R_3 + C_1L_1L_5R_1g_m + C_1L_1L_5 + C_3C_5L_5R_1R_3\right) + s^2\left(2C_1L_1R_1R_3g_m\right.}$$

10.968 INVALID-ORDER-968 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C\right.}{R_1g_m + s^5\left(C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_3 + C_1C_3C_5L_1R_3R_5 + C_1C_3C_5L_5R_1R_3 + C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(C_1C_3C_5R_1R_3R_5 + C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3 + 2C_1C_5L_1R_1R_3g_m + C_1C_5L_1\right.}$$

10.969 INVALID-ORDER-969 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_3R_5s^4 - R_1R}{C_1C_3C_5L_1L_5R_1R_3R_5s^5 + 2R_1R_3R_5g_m + R_1R_5 + R_3R_5 + s^4\left(C_1C_3L_1L_5R_1R_3R_5g_m + C_1C_3L_1L_5R_1R_3 + C_1C_3L_1L_5R_3R_5 + 2C_1C_5L_1L_5R_1R_3R_5g_m + C_1C_5L_1L_5R_1R_5 + C_1C_5L_1L_5R_3R_5\right) + s^3\left(C_1C_3L_1R_1R_3R_5 + C_1C_3L_5R_1R_3R_5 + C_1C_5L_5R_1R_3R_5 + 2C_1L_1L_5}$$

10.970 INVALID-ORDER-970 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_5R_1R_3 + C_1C_3C_5L_1L_5R_3R_5\right) + s^4\left(C_1C_3C_5L_5R_1R_3R_5 + C_1C_3L_1L_5R_1R_3g_m + C_1C_3L_1L_5R_3 + 2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_1C}$$

10.971 INVALID-ORDER-971 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_5R_1R_3 + C_1C_3C_5L_1L_5R_3R_5\right) + s^4\left(C_1C_3C_5L_1R_1R_3R_5 + C_1C_3C_5L_5R_1R_3R_5 + 2C_1C_5L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_1 + C_1C_5L_1L_5R_3 + C_1C_5L_1L_5R_5\right) + s^3}$$

10.972 INVALID-ORDER-972 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^3\left(C_1C_3L_1R_1R_3R_5g_m - C_1C_3L_1R_1R_3\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1\right) + s\left(C_3R_1R_3R_5g_m - C_3R_1R_3\right)}{2R_1g_m + s^3\left(2C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + C_1C_3L_1R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_5 + 2C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + 2C_3R_1R_3g_m + C_3R_1R_5g_m + C_3R_1 + C_3R_3 + C_3R_5\right) + 1}$$

10.973 INVALID-ORDER-973 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_1R_1R_3g_m - C_1C_5L_1R_1\right) + s^2\left(C_1L_1R_1g_m - C_3C_5R_1R_3\right) + s\left(C_3R_1R_3g_m - C_5R_1\right)}{s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3\right) + s^3\left(C_1C_3C_5R_1R_3 + C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1 + C_3C_5R_3\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.974 INVALID-ORDER-974 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1R_1R_3R_5s^4 + R_1R_5g_m - R_1 + s^3\left(C_1C_3L_1R_1R_3R_5g_m - C_1C_3L_1R_1R_3 - C_1C_5L_1R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_3C_5R_1R}{2R_1g_m + s^4\left(2C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_5 + C_1C_3C_5L_1R_3R_5\right) + s^3\left(C_1C_3C_5R_1R_3R_5 + 2C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + C_1C_3L_1R_5 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5\right) + s^2\left(C_1C_3R_1R_3 + C_1C_3R_1R_5 + C_1C_5R_1R_5 +}$$

10.975 INVALID-ORDER-975 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{R_1g_m + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m - C_1C_3C_5L_1R_1R_3\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1\right) + s^2\left(C_1L_1R_1g_m + C_3C_5R_1R_3R_5g_m - C_3C_5R_1R_3\right) + s\left(C_3R_1R_3g_m + C_5R_1R_5g_m - C_5R_1}{s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3 + C_1C_3C_5L_1R_5\right) + s^3\left(C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3g_m + C_3C_5R_1R_5g_m + C_3C_5R_1}$$

10.976 INVALID-ORDER-976 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_5R_1R_3g_ms^5 + R_1g_m + s^4\left(-C_1C_3C_5L_1R_1R_3 + C_1C_5L_1L_5R_1g_m\right) + s^3\left(C_1C_3L_1R_1R_3g_m - C_1C_5L_1R_1 + C_3C_5L_5R_1R_3g_m\right) + s^2\left(C_1L_1R_1g_m - C_3C_5R_1R_3 + C_5L_5R_1g_m\right) + s\left(C_3R_1R_3g_m - C_5}{s^5\left(C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3C_5R_1R_3 + C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + 2C_3C_5R_1R_3}$$

10.977 INVALID-ORDER-977 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3 + \frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_5R_1R_3s^5 - R_1 + s^4\left(C_1C_3L_1L_5R_1R_3g_m - C_1C_5L_1L_5R_1\right) + s^3\left(-C_1C_3L_1R_1R_3 + C_1L_1L_5R_1g_m - C_3C_5L_5R_1R_3\right) + s^2\left(-C_1L_1R_1 + C}{2R_1g_m + s^5\left(2C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_3\right) + s^4\left(C_1C_3C_5L_5R_1R_3 + C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(2C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_1 + C_1C_3L_1R_3 + C_1C_3L_5R_1 + C_1C_5L_5R_1 + 2C_3C_5L_5R_1R_3}$$

10.978 INVALID-ORDER-978 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_5R_1R_3g_ms^5 + R_1g_m + s^4\left(C_1C_3C_5L_1R_1R_3R_5g_m - C_1C_3C_5L_1R_1R_3 + C_1C_5L_1L_5R_1g_m\right) + s^3\left(C_1C_3L_1R_1R_3g_m + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_3C_5L_5R_1R_3g_m\right) + s^2\left(C_1L_1R_1g_m + C\right.}{s^5\left(C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(2C_1C_3C_5L_1R_1R_3g_m + C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_3 + C_1C_3C_5L_1R_5 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3C_5R_1R_3 + C_1C_3C_5R_1R_5 + C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + C_3C_5L_5R_1\right.}$$

10.979 INVALID-ORDER-979 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_5R_1R_3R_5s^5 - R_1R_5 + s^4\left(C_1C_3L_1L_5R_1R_3R_5g_m - C\right.}{2R_1R_5g_m + R_5 + s^5\left(2C_1C_3C_5L_1L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_5R_1R_5 + C_1C_3C_5L_1L_5R_3R_5\right) + s^4\left(C_1C_3C_5L_5R_1R_3R_5 + 2C_1C_3L_1L_5R_1R_3g_m + C_1C_3L_1L_5R_1R_5g_m + C_1C_3L_1L_5R_1 + C_1C_3L_1L_5R_3 + C_1C_3L_1L_5R_5 + 2C_1C_5L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_5\right) + s^3\left(2C\right.}$$

10.980 INVALID-ORDER-980 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m - C_1C_3C_5L_1L_5R_1R_3\right) + s^4\left(C_1C_3L_1L_5R_1R_3g_m + C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1\right) + s^3\left(C\right.}{2R_1g_m + s^5\left(2C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_3 + C_1C_3C_5L_1L_5R_5\right) + s^4\left(C_1C_3C_5L_5R_1R_3 + C_1C_3C_5L_5R_1R_5 + C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(2C_1C_3L_1R_1R_3g_m + C_1C_3\right.}$$

10.981 INVALID-ORDER-981 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ R_3+\frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^5\left(C_1C_3C_5L_1L_5R_1R_3R_5g_m - C_1C_3C_5L_1L_5R_1R_3\right) + s^4\right.}{2R_1g_m + s^5\left(2C_1C_3C_5L_1L_5R_1R_3g_m + C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_3 + C_1C_3C_5L_1L_5R_5\right) + s^4\left(2C_1C_3C_5L_1R_1R_3R_5g_m + C_1C_3C_5L_1R_1R_5 + C_1C_3C_5L_1R_3R_5 + C_1C_3C_5L_5R_1R_3 + C_1C_3C_5L_5R_1R_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) -\right.$$

10.982 INVALID-ORDER-982 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_1C_3L_1L_3R_1R_5g_m - C_1C_3L_1L_3R_1\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_3L_3R_1R_5g_m - C_3L_3R_1\right)}{2R_1g_m + s^4\left(2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + C_1C_3L_3R_1\right) + s^2\left(C_1C_3R_1R_5 + 2C_1L_1R_1g_m + C_1L_1 + 2C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_3R_1R_5g_m + C_3R_1 + C_3R_5\right) + 1}$$

10.983 INVALID-ORDER-983 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1s^5 + C_1C_3L_1L_3R_1g_ms^4 - C_5R_1s + R_1g_m + s^3\left(-C_1C_5L_1R_1 - C_3C_5L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m\right)}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3\right) + s^4\left(C_1C_3C_5L_1R_1 + C_1C_3C_5L_3R_1\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1\right) + s\left(C_3R_1g_m + C_3 + 2C_5R_1g_m + C_5\right)}$$

10.984 INVALID-ORDER-984 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1R_5s^5 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^4\left(C_1C_3L_1L_3R_1R_5g_m - C_1C_3L_1L_3R_1\right) + s^3\left(-C_1C_5L_1R_1R_5 - C_3C_5L_3R_1R_5\right) + s^2\left(C_1\right.}{2R_1g_m + s^5\left(2C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_5\right) + s^4\left(C_1C_3C_5L_1R_1R_5 + C_1C_3C_5L_3R_1R_5 + 2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_3L_1R_1R_5g_m + C_1C_3L_1R_1 + C_1C_3L_1R_5 + C_1C_3L_3R_1 + 2C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_5 + 2C_3C_5L_3R_1R_5g_m + C_3C_5L\right.}$$

10.985 INVALID-ORDER-985 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3L_1L_3R_1g_ms^4 + R_1g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_5g_m - C_1C_3C_5L_1L_3R_1\right) + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_3C_5L_3R_1R_5g_m - C_3C_5L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m\right) + s\left(C_5R_1R_5g_m - C_5\right.}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3\right) + s^4\left(C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_5 + C_1C_3C_5L_3R_1\right) + s^3\left(C_1C_3C_5R_1R_5 + C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_3R_1g_m + C_3C_5L_3\right) + s^2\left(C_1C_3R_1 + C_1C_5R_1 + C_3C_5R_1R_5\right.}$$

10.986 INVALID-ORDER-986 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ L_5s+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5R_1g_ms^6 - C_1C_3C_5L_1L_3R_1s^5 - C_5R_1s + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_5L_1L_5R_1g_m + C_3C_5L_3L_5R_1g_m\right) + s^3\left(-C_1C_5L_1R_1 - C_3C_5L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m + C_5L_5R_1g\right.}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3 + C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_1 + C_1C_3C_5L_3R_1 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_3R_1g_m + C_3C_5L_3 + C_3C_5L_5R_1g_m + C_3C_5L_5\right) + s^2\left(C_1C_3\right.}$$

10.987 INVALID-ORDER-987 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5R_1s^6 + C_1C_3L_1L_3L_5R_1g_ms^5 + L_5R_1g_ms - R_1 + s^4\left(-C_1C_3L_1L_3R_1 - C_1C_5L_1L_5R_1 - C_3C_5L_3L_5R_1\right) + s^3\left(C_1L_1L_5R_1g_m + C_3\right.}{2R_1g_m + s^6\left(2C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_3L_5R_1\right) + s^4\left(2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5 + 2C_3C_5L_3L_5R_1g_m + C_3C_5L_3L_5\right) + s^3\left(C_1C_3L_1R_1 + C_1C\right.}$$

10.988 INVALID-ORDER-988 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ L_5s+R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1C_3C_5L_1L_3L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_5g_m - C_1C_3C_5L_1L_3R_1\right) + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_5L_1L_5R_1g_m + C_3C_5L_3L_5R_1g_m\right) + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_3C_5L_3R_1R_5g_m -\right.}{s^5\left(2C_1C_3C_5L_1L_3R_1g_m + C_1C_3C_5L_1L_3 + C_1C_3C_5L_1L_5R_1g_m + C_1C_3C_5L_1L_5\right) + s^4\left(C_1C_3C_5L_1R_1R_5g_m + C_1C_3C_5L_1R_1 + C_1C_3C_5L_1R_5 + C_1C_3C_5L_3R_1 + C_1C_3C_5L_5R_1\right) + s^3\left(C_1C_3C_5R_1R_5 + C_1C_3L_1R_1g_m + C_1C_3L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_3C_5L_3R_1\right.}$$

10.989 INVALID-ORDER-989 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3L_5R_1R_5s^6 - R_1R_5 + s^5\left(C_1C_3L_1L_3L_5R_1R_5g_m - C\right.}{2R_1R_5g_m + R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(C_1C_3C_5L_1L_5R_1R_5 + C_1C_3C_5L_3L_5R_1R_5 + 2C_1C_3L_1L_3L_5R_1g_m + C_1C_3L_1L_3L_5\right) + s^4\left(2C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_5 + C_1C_3L_1L_5R_1R_5g_m + C_1C_3L_1L_5R_1 + C_1C_3L_1L_5R_5 + C_1C\right.}$$

10.990 INVALID-ORDER-990 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty\right)$

$$H(s) = \frac{C_1C_3L_1L_3L_5R_1g_ms^5 + L_5R_1g_ms + R_1R_5g_m - R_1 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_5g_m - C_1C_3C_5L_1L_3L_5R_1\right) + s^4\left(C_1C_3L_1L_3R_1R_5g_m - C_1C_3\right.}{2R_1g_m + s^6\left(2C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_5 + C_1C_3C_5L_3L_5R_1\right) + s^4\left(C_1C_3C_5L_5R_1R_5 + 2C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + C_1C_3L_1L_5R_1g_m + C_1C_3L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L\right.}$$

10.991 INVALID-ORDER-991 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ L_3s+\frac{1}{C_3s},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_3C_5L_1L_3R_1R_5s^5 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^6\left(C_1C_3C_5L_1L_3\right.}{2R_1g_m + s^6\left(2C_1C_3C_5L_1L_3L_5R_1g_m + C_1C_3C_5L_1L_3L_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_5 + C_1C_3C_5L_1L_5R_1R_5g_m + C_1C_3C_5L_1L_5R_1 + C_1C_3C_5L_1L_5R_5 + C_1C_3C_5L_3L_5R_1\right) + s^4\left(C_1C_3C_5L_1R_1R_5 + C_1C_3C_5L_3R_1R_5 + C_1C_3C_5L_5R_1R_5 + 2C_1C_3L_1L\right.}$$

10.992 INVALID-ORDER-992 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ R_5,\ \infty\right)$

$$H(s) = \frac{s^3\left(C_1L_1L_3R_1R_5g_m - C_1L_1L_3R_1\right) + s\left(L_3R_1R_5g_m - L_3R_1\right)}{R_1R_5g_m + R_1 + R_5 + s^4\left(C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_5\right) + s^3\left(C_1C_3L_3R_1R_5 + 2C_1L_1L_3R_1g_m + C_1L_1L_3\right) + s^2\left(C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R_5 + C_1L_3R_1 + C_3L_3R_1R_5g_m + C_3L_3R_1 + C_3L_3R_5\right) + s\left(C_1R_1R_5 + 2L_3R_1g_m + L_3\right)}$$

10.993 INVALID-ORDER-993 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_1s^4 + C_1L_1L_3R_1g_ms^3 - C_5L_3R_1s^2 + L_3R_1g_ms}{C_1C_3C_5L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_1R_1 + C_1C_5L_3R_1 + C_3C_5L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_3L_3R_1g_m + C_3L_3 + 2C_5L_3R_1g_m + C_5L_3\right) + s\left(C_1R_1 + C_5R_1\right) + 1}$$

10.994 INVALID-ORDER-994 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_1R_5s^4 - C_5L_3R_1R_5s^2 + s^3\left(C_1L_1L_3R_1R_5g_m - C_1L_1L_3R_1\right) + s\left(L_3R_1R_5g_m - L_3R_1\right)}{C_1C_3C_5L_1L_3R_1R_5s^5 + R_1R_5g_m + R_1 + R_5 + s^4\left(C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_5 + 2C_1C_5L_1L_3R_1R_5g_m + C_1C_5L_1L_3R_5\right) + s^3\left(C_1C_3L_3R_1R_5 + C_1C_5L_1R_1R_5 + C_1C_5L_3R_1R_5 + 2C_1L_1L_3R_1g_m + C_1L_1L_3 + C_3C_5L_3R_1R_5\right) + s^2\left(C_1L_1R_1R_5g_m\right.}$$

10.995 INVALID-ORDER-995 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ R_5+\frac{1}{C_5s},\ \infty\right)$

$$H(s) = \frac{C_1L_1L_3R_1g_ms^3 + L_3R_1g_ms + s^4\left(C_1C_5L_1L_3R_1R_5g_m - C_1C_5L_1L_3R_1\right) + s^2\left(C_5L_3R_1R_5g_m - C_5L_3R_1\right)}{R_1g_m + s^5\left(C_1C_3C_5L_1L_3R_1R_5g_m + C_1C_3C_5L_1L_3R_1 + C_1C_3C_5L_1L_3R_5\right) + s^4\left(C_1C_3C_5L_3R_1R_5 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3 + 2C_1C_5L_1L_3R_1g_m + C_1C_5L_1L_3\right) + s^3\left(C_1C_3L_3R_1 + C_1C_5L_1R_1R_5g_m + C_1C_5L_1R_1 + C_1C_5L_1R_5 + C_1C_5L_3R_1 + C_3C_5L_3R_1R_5g_m -\right.}$$

10.996 INVALID-ORDER-996 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_1 C_5 L_1 L_3 L_5 R_1 g_m s^5 - C_1 C_5 L_1 L_3 R_1 s^4 - C_5 L_3 R_1 s^2 + L_3 R_1 g_m s + s^3 \left(C_1 L_1 L_3 R_1 g_m + C_5 L_3 L_5 R_1 g_m\right.}{R_1 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + 2 C_1 C_5 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_1 g_m + C_1 C_5 L_1 L_5 + C_3 C_5 L_3 L_5 R_1 g_m + C_3 C_5 L_3 L_5\right) + s^3 \left(C_1 C_3 L_3 R_1 + C_1 C_5 L_1 R$$

10.997 INVALID-ORDER-997 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 L_5 R_1 s^5 + C_1 L_1 L_3 L_5 R_1 g_m s^4 + L_3 L_5 R_1 g_m s^2 - L_3 R_1 s + s^3 \left(-C_1 L_1 L_3 R_1 - C_5 L_3 L_5 R_1\right)}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 g_m + C_1 C_3 L_1 L_3 L_5 + 2 C_1 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_3 L_5 R_1 + C_1 C_5 L_1 L_5 R_1 + C_1 C_5 L_3 L_5 R_1 + C_3 C_5 L_3 L_5 R_1\right) + s^3 \left(2 C_1 L_1 L_3 R_1 g_m + C_1 L_1 L_3 + C_1 L_1 L_5 R_1 g_m + C_1 L_1 L_5 + C_3 L_3$$

10.998 INVALID-ORDER-998 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_1 C_5 L_1 L_3 L_5 R_1 g_m s^5 + L_3 R_1 g_m s + s^4 \left(\right.}{R_1 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + 2 C_1 C_5 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_1 g_m + C_1 C_5 L_1 L_5$$

10.999 INVALID-ORDER-999 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty \right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 L_5 R_1 R_5 s^5 - L_3 R}{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 s^6 + R_1 R_5 + s^5 \left(C_1 C_3 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 L_1 L_3 L_5 R_1 + C_1 C_3 L_1 L_3 L_5 R_5 + 2 C_1 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_5 L_1 L_3 L_5 R_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_5 + C_1 C_3 L_3 L_5 R_1 R_5 + C_1 C_5 L_1 L_5 R_1 R_5 + C_1 C_5 L_3 L_5 R_1 R_5 + 2 C_1 L_1 L_3 L_5 R_1 g_m + C_1 L_1 L_3 L_5 + C$$

10.1000 INVALID-ORDER-1000 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{R_1 R_5 g_m + R_1 + R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_5 + C_1 C_3 L_1 L_3 L_5 R_1 g_m + C_1 C_3 L_1 L_3 L_5 + 2 C_1 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_5 g_m + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_5 + C$$

10.1001 INVALID-ORDER-1001 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{L_3 s}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{R_1 R_5 g_m + R_1 + R_5 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_1 C_3 C_5 L_3 L_5 R_1 R_5 + 2 C_1 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_5 g_m + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_5 + 2 C_1 C_5 L_1 L_3 R_1 R_5 g$$

10.1002 INVALID-ORDER-1002 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5,\ \infty \right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_5 g_m - C_1 C_3 L_1 L_3 R_1\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 R_5 g_m - C_1 C_3 L_1 R_1 R_3\right) + s^2 \left(C_1 L_1 R_1 R_5 g_m - C_1 L_1 R_1 + C_3 L_3 R_1 R_5 g_m - C_3 L_3 R_1\right) + s \left(C_3 R_1 R_3 R_5 g_m - C_3 R_1 R_3\right)}{2 R_1 g_m + s^4 \left(2 C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(2 C_1 C_3 L_1 R_1 R_3 g_m + C_1 C_3 L_1 R_1 R_5 g_m + C_1 C_3 L_1 R_1 + C_1 C_3 L_1 R_3 + C_1 C_3 L_1 R_5 + C_1 C_3 L_3 R_1\right) + s^2 \left(C_1 C_3 R_1 R_3 + C_1 C_3 R_1 R_5 + 2 C_1 L_1 R_1 g_m + C_1 L_1 + 2 C_3 L_3 R_1 g_m + C_3 L_3\right) + s \left(C_1 R_1 + 2 C_3 R_1 R_3 g_m + C_3 R_1 R_5 g$$

10.1003 INVALID-ORDER-1003 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_1 s^5 + R_1 g_m + s^4 \left(-C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m - C_1 C_5 L_1 R_1 - C_3 C_5 L_3 R_1\right) + s^2 \left(C_1 L_1 R_1 g_m - C_3 C_5 R_1 R_3 + C_3 L_3 R_1 g_m\right) + s \left(C_3 R_1 R_3 g_m - C_5 R_1\right.}{s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 g_m + C_1 C_3 C_5 L_1 R_1 + C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_3 R_1\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_1 R_1 g_m + C_1 C_3 L_1 + 2 C_1 C_5 L_1 R_1 g_m + C_1 C_5 L_1 + 2 C_3 C_5 L_3 R_1 g_m + C_3 C_5 L_3\right) + s^2 \left(C_1 C_3 R_1 + C_1 C_5 R_1 + 2 C_3 C_5 R_1$$

10.1004 INVALID-ORDER-1004 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_1 R_5 s^5 + R_1 R_5 g_m - R_1 + s^4 \left(-C_1 C_3 C_5 L_1 R_1 R_3 R_5 + C_1 C_3 L_1 L_3 R_1 R_5 g_m - C_1 C_3 L_1 L_3 R_1\right) + s^3 \left(\right.}{2 R_1 g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_1 R_5 + C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_3 C_5 L_3 R_1 R_5 + 2 C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 R_5 + 2 C_1 C_3 L_1 R_1 R_3 g_m + C_1 C_3 L_1 R_1 R_5 g_m + C_1 C_3 L_1 R_1 + C_1 C$$

10.1005 INVALID-ORDER-1005 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_1\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m + C_1 C_5 L_1 R_1 R_5 g_m - C_1 C_5 L_1 R_1 + C_3 C_5 L_3 R_1 R_5 g_m - C_3 C_5 L_3 R_1\right) +$$
$$s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 g_m + C_1 C_3 C_5 L_1 L_3\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 g_m + C_1 C_3 C_5 L_1 R_1 R_5 g_m + C_1 C_3 C_5 L_1 R_1 + C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_1 R_5 + C_1 C_3 C_5 L_3 R_1\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 C_5 R_1 R_5 + C_1 C_3 L_1 R_1 g_m + C_1 C_3 L_1 + 2 C_1 C_5 L_1 R_1 g_m + C_1 C_5 L_1 + 2 C_3 C_5 L_3$$

10.1006 INVALID-ORDER-1006 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m s^6 + R_1 g_m + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m\right) + s^4 \left(-C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_3 L_5 R_1 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m - C_1 C_5 L_1 R_1 - C_3 C_5 L_3 R_1 +$$
$$s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 g_m + C_1 C_3 C_5 L_1 R_1 + C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_5 R_1\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 L_1 R_1 g_m + C_1 C_3 L_1 + 2 C_1 C_5 L_1 R_1 g_m + C_1 C_5 L_1 + 2 C_3 C_5 L_3 R$$

10.1007 INVALID-ORDER-1007 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_1 s^6 - R_1 + s^5 \left(-C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_1 g_m\right) + s^4 \left(-C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_5 R_1 \right.$$
$$2 R_1 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_1 + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 + 2 C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + C_1 C_3 L_1 L_5 R_1 g_m + C_1 C_3 L_1 L_5 + 2 C_1 C_5 L_1 L_5 R_1 g_m + C_1 C_5$$

10.1008 INVALID-ORDER-1008 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m s^6 + R_1 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_5 R_1 g_m + C_3 C_5 L_3 L_5 R_1 g_m\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m\right.$$
$$s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 g_m + C_1 C_3 C_5 L_1 L_3 + C_1 C_3 C_5 L_1 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_5\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 g_m + C_1 C_3 C_5 L_1 R_1 R_5 g_m + C_1 C_3 C_5 L_1 R_1 + C_1 C_3 C_5 L_1 R_3 + C_1 C_3 C_5 L_1 R_5 + C_1 C_3 C_5 L_3 R_1 + C_1 C_3 C_5 L_5 R_1\right) + s^3 \left(C_1 C_3 C_5 R_1 R_3 + C_1 C_3 C_5 R_1 R_5 + C_1 C_3 L_1 R_1$$

10.1009 INVALID-ORDER-1009 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty \right)$

$$H(s) = \frac{-C_1$$
$$2 R_1 R_5 g_m + R_5 + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_1 R_5 + C_1 C_3 C_5 L_1 L_5 R_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_1 R_5 + 2 C_1 C_3 L_1 L_3 L_5 R_1 g_m + C_1 C_3 L_1 L_3 L_5\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 R_5 + 2 C_1 C_3 L_1 L_3 R_1 R_5 g_m + C_1$$

10.1010 INVALID-ORDER-1010 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m - C_1 C_3 C_5 L_1 L_3 L_5 R_1\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_1 g_m\right) + s^4 \left(C_1$$
$$2 R_1 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_1 + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_1 L_5 R_5 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 C_5 L_5 R_1 R_5 + 2 C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L$$

10.1011 INVALID-ORDER-1011 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5$$
$$2 R_1 g_m + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_5 + 2 C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_1 + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_1 L_5 R_5 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(2 C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m$$

10.1012 INVALID-ORDER-1012 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ R_5,\ \infty \right)$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_3 R_1 R_3 R_5 g_m - C_1 L_1 L_3 R_1 R_3\right) + s \left(L_3 R_1 R_3 R_5 g_m - L_3 R_1 R_3\right)}{R_1 R_3 R_5 g_m + R_1 R_3 + R_3 R_5 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_5 g_m + C_1 C_3 L_1 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_3 R_5\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 R_5 + 2 C_1 L_1 L_3 R_1 R_3 g_m + C_1 L_1 L_3 R_1 R_5 g_m + C_1 L_1 L_3 R_1 + C_1 L_1 L_3 R_3 + C_1 L_1 L_3 R_5\right) + s^2 \left(C_1 L_1 R_1 R_3 R_5 g_m + C_1 L_1 R_1 R_3 + C_1 L_1 R_3 R_5 + C_1 L_3 R_1$$

10.1013 INVALID-ORDER-1013 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2+L_3 s+R_3},\ \infty,\ \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{-C_1 C_5 L_1 L_3 R_1 R_3 s^4 + C_1 L_1 L_3 R_1 R_3 g_m s^3 - C_5 L_3 R_1 R_3 s^2 + L_3 R_1 R_3 g_m s}{C_1 C_3 C_5 L_1 L_3 R_1 R_3 s^5 + R_1 R_3 g_m + R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_3 L_1 L_3 R_3 + 2 C_1 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_5 L_1 L_3 R_1 + C_1 C_5 L_1 L_3 R_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_3 + C_1 C_5 L_1 R_1 R_3 + C_1 C_5 L_3 R_1 R_3 + C_1 L_1 L_3 R_1 g_m + C_1 L_1 L_3 + C_3 C_5 L_3 R_1 R_3\right) + s^2 \left(C_1 L_1 R_1 R_3 g_m + C_1 L$$

10.1014 INVALID-ORDER-1014 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5}{C_5R_5s+1},\ \infty \right)$

$$H(s) = \frac{-C_1C_5L_1L_3R_1}{C_1C_3C_5L_1L_3R_1R_3R_5s^5 + R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^4\left(C_1C_3L_1L_3R_1R_3R_5g_m + C_1C_3L_1L_3R_1R_3 + C_1C_3L_1L_3R_3R_5 + 2C_1C_5L_1L_3R_1R_3R_5g_m + C_1C_5L_1L_3R_1R_5 + C_1C_5L_1L_3R_3R_5\right) + s^3\left(C_1C_3L_3R_1R_3R_5 + C_1C_5L_1R_1R_3R_5 + C_1C_5L_3R_1R_3R_5 + 2C_1L_1L_3R\right.}$$

10.1015 INVALID-ORDER-1015 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ R_5 + \frac{1}{C_5s},\ \infty \right)$

$$H(s) = \frac{}{R_1R_3g_m + R_3 + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_3 + C_1C_3C_5L_1L_3R_3R_5\right) + s^4\left(C_1C_3C_5L_3R_1R_3R_5 + C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_3 + 2C_1C_5L_1L_3R_1R_3g_m + C_1C_5L_1L_3R_1R_5g_m + C_1C_5L_1L_3R_1 + C_1C_5L_1L_3R_3 + C_1C_5L_1L_3R_5\right) + s^3\left(C_1C_3L\right.}$$

10.1016 INVALID-ORDER-1016 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s + \frac{1}{C_5s},\ \infty \right)$

$$H(s) = \frac{}{R_1R_3g_m + R_3 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_3\right) + s^5\left(C_1C_3C_5L_1L_3R_1R_3 + C_1C_3C_5L_3L_5R_1R_3 + C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_3 + 2C_1C_5L_1L_3R_1R_3g_m + C_1C_5L_1L_3R_1 + C_1C_5L_1L_3R_3 + C_1C_5L\right.}$$

10.1017 INVALID-ORDER-1017 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty \right)$

$$H(s) = \frac{-C_1C_5L_1L_3L_5}{C_1C_3C_5L_1L_3L_5R_1R_3s^6 + R_1R_3 + s^5\left(C_1C_3L_1L_3L_5R_1R_3g_m + C_1C_3L_1L_3L_5R_3 + 2C_1C_5L_1L_3L_5R_1R_3g_m + C_1C_5L_1L_3L_5R_1 + C_1C_5L_1L_3L_5R_3\right) + s^4\left(C_1C_3L_1L_3R_1R_3 + C_1C_3L_3L_5R_1R_3 + C_1C_5L_1L_5R_1R_3 + C_1C_5L_3L_5R_1R_3 + C_1L_1L_3L_5R_1g_m + C_1L_1L_3L_5 + C\right.}$$

10.1018 INVALID-ORDER-1018 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ L_5s + R_5 + \frac{1}{C_5s},\ \infty \right)$

$$H(s) = \frac{}{R_1R_3g_m + R_3 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_3\right) + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_3 + C_1C_3C_5L_1L_3R_3R_5 + C_1C_3C_5L_3L_5R_1R_3 + C_1C_5L_1L_3L_5R_1g_m + C_1C_5L_1L_3L_5\right) + s^4\left(C_1C_3C_5L_3R_1R_3R_5 + C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1\right.}$$

10.1019 INVALID-ORDER-1019 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\ \infty \right)$

$$H(s) = \frac{}{C_1C_3C_5L_1L_3L_5R_1R_3R_5s^6 + R_1R_3R_5 + s^5\left(C_1C_3L_1L_3L_5R_1R_3R_5g_m + C_1C_3L_1L_3L_5R_1R_3 + C_1C_3L_1L_3L_5R_3R_5 + 2C_1C_5L_1L_3L_5R_1R_3R_5g_m + C_1C_5L_1L_3L_5R_1R_5 + C_1C_5L_1L_3L_5R_3R_5\right) + s^4\left(C_1C_3L_1L_3R_1R_3R_5 + C_1C_3L_3L_5R_1R_3R_5 + C_1C_5L_1L_5R_1R_3R_5 + C_1C\right.}$$

10.1020 INVALID-ORDER-1020 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1},\ \infty \right)$

$$H(s) = \frac{}{R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_3L_5R_1R_3 + C_1C_3C_5L_1L_3L_5R_3R_5\right) + s^5\left(C_1C_3C_5L_3L_5R_1R_3R_5 + C_1C_3L_1L_3L_5R_1R_3g_m + C_1C_3L_1L_3L_5R_3 + 2C_1C_5L_1L_3L_5R_1R_3g_m + C_1C_5L_1L_3L_5R_1R_5g_m + C_1C_5L_1L_3L_5R_1 + C_1C_5\right.}$$

10.1021 INVALID-ORDER-1021 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3},\ \infty,\ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1},\ \infty \right)$

$$H(s) = \frac{}{R_1R_3R_5g_m + R_1R_3 + R_3R_5 + s^6\left(C_1C_3C_5L_1L_3L_5R_1R_3R_5g_m + C_1C_3C_5L_1L_3L_5R_1R_3 + C_1C_3C_5L_1L_3L_5R_3R_5\right) + s^5\left(C_1C_3C_5L_1L_3R_1R_3R_5 + C_1C_3C_5L_3L_5R_1R_3R_5 + 2C_1C_5L_1L_3L_5R_1R_3g_m + C_1C_5L_1L_3L_5R_1R_5g_m + C_1C_5L_1L_3L_5R_1 + C_1C_5L_1L_3L_5R_3 + C_1C_5\right.}$$

10.1022 INVALID-ORDER-1022 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \infty,\ \frac{C_3L_3R_3s^2+L_3s+R_3}{C_3L_3s^2+1},\ \infty,\ R_5,\ \infty \right)$

$$H(s) = \frac{R_1R_3R_5g_m - R_1R_3 + s^4\left(C_1C_3L_1L_3R_1R_3R_5g_m - C_1C_3L_1L_3R_1R_3\right) + s^3\left(C_1L_1L_3R_1R_5g_m - C_1L_1L_3R_1\right) + s^2\left(C_1L_1R_1R_3R_5g_m - C_1L_1R_1R_3 + C_3L_3R_1R_3R_5g_m - \right.}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^4\left(2C_1C_3L_1L_3R_1R_3g_m + C_1C_3L_1L_3R_1R_5g_m + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_3 + C_1C_3L_1L_3R_5\right) + s^3\left(C_1C_3L_3R_1R_3 + C_1C_3L_3R_1R_5 + 2C_1L_1L_3R_1g_m + C_1L_1L_3\right) + s^2\left(2C_1L_1R_1R_3g_m + C_1L_1R_1R_5g_m + C_1L_1R_1 + C_1L_1R\right.}$$

10.1023 INVALID-ORDER-1023 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_1 R_3 s^5 + R_1 R_3 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 g_m - C_1 C_5 L_1 L_3 R_1\right) + s^3 \left(-C_1 C_5 L_1 R_1 R_3 + C_1 L_1 L_3 R_1 g_m - C_3 C_5 L_3 R_1 R_3\right) + s^2 \left(C_1 L_1 R_1 R_3 g_m}{R_1 g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_3\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + 2 C_1 C_5 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_1 + 2 C_1 C_5 L_1 R_1 R_3 g_m + C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_3 + C_1 C_5 L_3 R_1 + 2 C_3 C_5 L_3 R_1 R_3 g_m}$$

10.1024 INVALID-ORDER-1024 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 s^5 + R_1 R_3 R_5 g_m - R_1 \left.}{2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_1 C_3 C_5 L_1 L_3 R_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 R_5 + 2 C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_3 L_1 L_3 R_1 R_5 g_m + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5 + 2 C_1 C_5 L_1 L_3 R_1 R_5 g_m + C\right.}$$

10.1025 INVALID-ORDER-1025 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{R_1 R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_1 R_3\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_5 L_1 L_3 R_1 R_5 g_m - C_1 C_5 L_1 L_3 R_1\right) + s^3 \left.}{R_1 g_m + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + 2 C_1 C_5 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_1 + 2 C_1 C_5 L_1 R_1 R_3\right.}$$

10.1026 INVALID-ORDER-1026 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m s^6 + R_1 R_3 g_m + s^5 \left(-C_1 C_3 C_5 L_1 L_3 R_1 R_3 + C_1 C_5 L_1 L_3 L_5 R_1 g_m\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 g_m - C_1 C_5 L_1 L_3 R_1 + C_1\right.}{R_1 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 + 2 C_1 C_5 L_1 L_3 R_1 g_m + C_1 C_5 L_1 L_3 + C_1 C_5 L_1 L_5 R_1 g_m + C_1 C_5 L_1\right.}$$

10.1027 INVALID-ORDER-1027 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 s^6 - R_1 R_3 + s^5 \left(C_1 C_3 L_1\right.}{2 R_1 R_3 g_m + R_1 + R_3 + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 + C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_1 g_m + C_1 C_3 L_1 L_3 L_5 + 2 C_1 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_5 L_1 L_3 L_5\right) + s^4 \left(2 C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_3 +\right.}$$

10.1028 INVALID-ORDER-1028 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m s^6 + R_1 R_3 g_m + s^5 \left(C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m - C_1 C_3 C_5 L_1 L_3 R_1 R_3 + C_1 C_5 L_1 L_3 L_5 R_1 g_m\right.}{R_1 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3 +\right.}$$

10.1029 INVALID-ORDER-1029 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty \right)$

$$H(s) = \frac{}{2 R_1 R_3 R_5 g_m + R_1 R_5 + R_3 R_5 + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 + C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 + 2 C_1 C_3 L_1 L_3 L_5 R_1 R_3 g_m + C_1 C_3 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 L_1 L_3 L_5 R_1 + C_1 C_3 L_1 L_3 L_5 R_3 + C_1 C_3 L_1 L_3 L_5 R_5 + 2 C_1 C_5 L_1\right.}$$

10.1030 INVALID-ORDER-1030 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{R_1 R_3 R_5}{2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 + C_1 C_3 C_5 L_1 L_3 L_5 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 C_5 L_3 L_5 R_1 R_5 + C_1 C_3 L_1 L_3 L_5 R_1 g_m + C_1 C_3 L_1 L_3 L_5 + 2 C_1 C_5 L_1\right.}$$

10.1031 INVALID-ORDER-1031 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{C_3 L_3 R_3 s^2+L_3 s+R_3}{C_3 L_3 s^2+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{}{2 R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^6 \left(2 C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 + C_1 C_3 C_5 L_1 L_3 L_5 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(2 C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_1 C_3 C_5 L_1 L_3 R_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_1 R_3\right.}$$

10.1032 INVALID-ORDER-1032 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5,\ \infty \right)$

$$H(s) = \frac{R_1 R_3 R_5 g_m - R_1 R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_3 R_5 g_m - C_1 C_3 L_1 L_3 R_1 R_3\right) + s^2 \left(C_1 L_1 R_1 R_3 R_5 g_m - C_1 L_1 R_1 R_3 - \right.}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^4 \left(2C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_3 L_1 L_3 R_1 R_5 g_m + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 R_5 g_m + C_1 C_3 L_1 R_1 R_3 + C_1 C_3 L_1 R_3 R_5 + C_1 C_3 L_3 R_1 R_3 + C_1 C_3 L_3 R_1 R_5\right) + s^2 \left(C_1 C_3 R_1 R_3 R_5 + 2C_1 L_1 R_1 \right.}$$

10.1033 INVALID-ORDER-1033 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{-C_1 C_3 C_5 L_1 L_3 R_1 R_3 s^5 + C_1 C_3 L_1 L_3 R_1 R_3 g_m s^4 - C_5 R_1 R_3 s + R_1 R_3 g_m + s^3 \left(-C_1 C_5 L_1 R_1 R_3 - C_3 C_5 L_3 R_1 R_3 \right.}{R_1 g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_3\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_1 R_3 g_m + C_1 C_3 L_1 R_3 + C_1 C_3 L_3 R_1 + 2C_1 C_5 L_1 R_1 R_3 g_m + C_1 C_5 L_1 R_1 + C_1 C_5 L_1 R_3 + 2C_3 C_5 L_3 R \right.}$$

10.1034 INVALID-ORDER-1034 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5}{C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_1 R_5 + C_1 C_3 C_5 L_1 L_3 R_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 + C_1 C_3 C_5 L_3 R_1 R_3 R_5 + 2C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_3 L_1 L_3 R_1 R_5 g_m + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_3 R_5\right) + s \right.}$$

10.1035 INVALID-ORDER-1035 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_1 C_3 L_1 L_3 R_1 R_3 g_m s}{R_1 g_m + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_3 R_5\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 C_5 L_1 R_3 R_5 + C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 C_5 L_3 R_1 R_5 + C_1 C_3 L_1 L_3 R_1 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left.\right.}$$

10.1036 INVALID-ORDER-1036 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 s^6}{R_1 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 + C_1 C_3 C_5 L_3 R_1 R_3 + C_1 C_3 C_5 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 R_1 \right.}$$

10.1037 INVALID-ORDER-1037 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 s}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{}{2R_1 R_3 g_m + R_1 + R_3 + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 + C_1 C_3 C_5 L_1 L_3 L_5 R_3\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 + C_1 C_3 L_1 L_3 L_5 R_1 g_m + C_1 C_3 L_1 L_3 L_5\right) + s^4 \left(2C_1 C_3 L_1 L_3 R_1 R_3 g_m + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_3 + C_1 C_3 L_1 L_5 R_1 R_3 \right.}$$

10.1038 INVALID-ORDER-1038 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ L_5 s + R_5 + \frac{1}{C_5 s},\ \infty \right)$

$$H(s) = \frac{}{R_1 g_m + s^6 \left(C_1 C_3 C_5 L_1 L_3 L_5 R_1 g_m + C_1 C_3 C_5 L_1 L_3 L_5\right) + s^5 \left(2C_1 C_3 C_5 L_1 L_3 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 R_1 + C_1 C_3 C_5 L_1 L_3 R_3 + C_1 C_3 C_5 L_1 L_3 R_5 + C_1 C_3 C_5 L_1 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_5 R_3 + C_1 C_3 C_5 L_3 L_5 R_1\right) + s^4 \left(C_1 C_3 C_5 L_1 R_1 R_3 R_5 g_m + C \right.}$$

10.1039 INVALID-ORDER-1039 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2+L_5 s+R_5},\ \infty \right)$

$$H(s) = \frac{}{2R_1 R_3 R_5 g_m + R_1 R_5 + R_3 R_5 + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 + C_1 C_3 C_5 L_1 L_3 L_5 R_3 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 R_5 + 2C_1 C_3 L_1 L_3 L_5 R_1 R_3 g_m + C_1 C_3 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 L_1 L_3 L_5 R_1 + C_1 C_3 L_1 L_3 L_5 R_3 + C_1 C \right.}$$

10.1040 INVALID-ORDER-1040 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{C_5 L_5 R_5 s^2+L_5 s+R_5}{C_5 L_5 s^2+1},\ \infty \right)$

$$H(s) = \frac{}{2R_1 R_3 g_m + R_1 R_5 g_m + R_1 + R_3 + R_5 + s^6 \left(2C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_3 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 R_5 g_m + C_1 C_3 C_5 L_1 L_3 L_5 R_1 + C_1 C_3 C_5 L_1 L_3 L_5 R_3 + C_1 C_3 C_5 L_1 L_3 L_5 R_5\right) + s^5 \left(C_1 C_3 C_5 L_1 L_5 R_1 R_3 R_5 g_m + C_1 C_3 C_5 L_1 L_5 R_1 R_3 + C_1 C_3 C_5 L_1 L_5 R_3 R_5 + C_1 C_3 C_5 L_3 L_5 R_1 R_3 + \right.}$$

10.1041 INVALID-ORDER-1041 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \infty,\ \frac{R_3\left(C_3 L_3 s^2+1\right)}{C_3 L_3 s^2+C_3 R_3 s+1},\ \infty,\ \frac{R_5\left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2+C_5 R_5 s+1},\ \infty \right)$

$$H(s) = \frac{}{2R_1R_3g_m + R_1R_5g_m + R_1 + R_3 + R_5 + s^6\left(2C_1C_3C_5L_1L_3L_5R_1R_3g_m + C_1C_3C_5L_1L_3L_5R_1R_5g_m + C_1C_3C_5L_1L_3L_5R_1 + C_1C_3C_5L_1L_3L_5R_3 + C_1C_3C_5L_1L_3L_5R_5\right) + s^5\left(2C_1C_3C_5L_1L_3R_1R_3R_5g_m + C_1C_3C_5L_1L_3R_1R_5 + C_1C_3C_5L_1L_3R_3R_5 + C_1C_3C_5L_1L_5R_1R_3}$$

11 PolynomialError