Filter Summary Report: CG,TIA,simple,Z1,Z4,Z5

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Contents

1 Examined $H(z)$ for CG TIA simple Z1 Z4 Z5: $\frac{Z_1Z_4Z_5g_m - Z_1Z_4}{2Z_1Z_4g_m + 2Z_1Z_5g_m + 2Z_1 + Z_4 + 2Z_5}$	2
$_{ m 2}$ HP	2
3 BP $ 3.1 \text{BP-1 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ R_5, \ \infty\right) \dots $	2 2
3.2 BP-2 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, R_5, \infty\right)$	2
3.3 BP-3 $Z(s) = (L_1 s, \infty, \infty, \frac{1}{2}, R_5, \infty)$	2
$3.4 \text{BP-4 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \infty\right) \qquad . \qquad $	3
3.5 BP-5 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, R_5, \infty\right)$	3
3.6 BP-6 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \infty, R_4, R_5, \infty\right)$	3
A ID	1
4.1 LP-1 $Z(s) = \left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, R_{5}, \infty\right)$	4
4.2 LP-2 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$	4
4.3 LP-3 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, R_5, \infty\right)$	4
4.4 LP-4 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$	5
$_{5}$ BS	5
5 BS $5.1 \text{ BS-1 } Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right) \dots$	5
5.2 BS-2 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$	5
$5.3 \text{BS-3 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ R_5, \ \infty\right) \dots $	6
$5.4 \text{BS-4 } Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ R_5, \ \infty\right) \dots $	6
6 GE	6
6 GE 6.1 GE-1 $Z(s) = \left(R_1, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$	6
$6.2 \text{GE-2 } Z(s) = \left(R_1, \ \infty, \ \infty, \ R_4, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right) \qquad \dots $	7
$6.3 \text{GE-3 } Z(s) = \left(R_1, \ \infty, \ \infty, \ R_4, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty \right) \qquad \dots $	7
$6.4 \text{GE-4 } Z(s) = \left(R_1, \ \infty, \ \infty, \ R_4, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty \right) $	
6.5 GE-5 $Z(s) = \left(R_1, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	8
6.6 GE-6 $Z(s) = \left(R_1, \infty, \infty, R_4, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$	8
6.7 GE-7 $Z(s) = (R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty)$	
6.8 GE-8 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, R_5, \infty\right)$	
6.9 GE-9 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5, \infty\right)^{'}$	9
$6.10 \text{ GE-10 } 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, \ \infty, \ R_4, \ R_5, \ \infty \right) \ \dots $	9
7 AP	10

8 INVALID-NUMER	10
8.1 INVALID-NUMER-1 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s+1}, \infty\right)$	10
$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	10
C_{1}	10
	11
8.5 INVALID-NUMER-5 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$	11
	11
8.7 INVALID-NUMER-7 $Z(s) = \left(L_1 s, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$	12
8.8 INVALID-NUMER-8 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$	12
8.9 INVALID-NUMER-9 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$	12
8.10 INVALID-NUMER-10 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$	13
$\langle c_1 c_2 c_3 c_4 \rangle$	
	13
	14
C_{10} C_{40} $C_{5}n_{50+1}$	
(C10) (41440 1 C30)	
8.16 INVALID-NUMER-16 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ 8.17 INVALID-NUMER-17 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$	10
8.18 INVALID-NUMER-18 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$	15
8.19 INVALID-NUMER-19 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, R_4, \frac{R_5}{C_5R_5s+1}, \infty\right)$	15
8.20 INVALID-NUMER-20 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, R_4, \frac{1}{C_5R_5s+1}, \infty\right)$	10
8.21 INVALID-NUMER-21 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{1}{R_2s}, \frac{R_5}{C_5s}, \infty\right)$	10
8.22 INVALID-NUMER-22 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{R_4}{C_2R_1s+1}, \frac{1}{C_5s}, \infty\right)$	17
8.23 INVALID-NUMER-23 $Z(s) = \begin{pmatrix} c_{1}R_{1}s+1, & \infty, & \infty, & c_{4}R_{4}s+1, & c_{5}s, & \infty \end{pmatrix}$	17
8.24 INVALID-NUMER-24 $Z(s) = \begin{pmatrix} C_1R_1s+1, & \infty, & \infty, & C_4R_4s+1, & C_5R_5s+1, & \infty \end{pmatrix}$	
8.25 INVALID-NUMER-25 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$	18
8 26 INVALID-NUMER-26 $Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \infty, \infty, \frac{R_4}{C_{4s}}, R_5, \infty\right)$	18
8.26 INVALID-NUMER-26 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$ 8.27 INVALID-NUMER-27 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$	18
8.28 INVALID-NUMER-28 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_5 s}, \infty\right)$	19
9 INVALID-WZ-1 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$	19 19
9.2 INVALID-WZ-2 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty\right)$	19
9.3 INVALID-WZ-3 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$	20
9.4 INVALID-WZ-4 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$	20
9.5 INVALID-WZ-5 $Z(s) = \left(R_1 + \frac{1}{G_2}, \infty, \infty, R_4, \frac{R_5}{G_2R_2+1}, \infty\right)$	20
9.6 INVALID-WZ-6 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$	21
9.7 INVALID-WZ-7 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$	21
10 INWALID ODDED	91
10.1 INVALID-ORDER-1 $Z(s) = (R_1, \infty, \infty, R_4, R_5, \infty)$	21
10.2 INVALID-ORDER-2 $Z(s) = \left(R_1, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$	21
10.3 INVALID-ORDER-3 $Z(s) = \left(R_1, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$	22

10.4 INVALID-ORDER-4 $Z(s) = \left(R_1, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$	2:
10.5 INVALID-ORDER-5 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$	25
10.6 INVALID-ORDER-6 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$	25
10.7 INVALID-ORDER-7 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$	25
10.8 INVALID-ORDER-8 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$	25
10.9 INVALID-ORDER-9 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	2
10.10INVALID-ORDER-10 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$	25
10.11INVALID-ORDER-11 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty \right)$	25
10.12INVALID-ORDER-12 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	25
10.13INVALID-ORDER-13 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$	23
10.14INVALID-ORDER-14 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$	23
$10.15 \text{INVALID-ORDER-15 } Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right) \dots \dots$	2
$10.16 \text{INVALID-ORDER-16 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right) \ \dots $	2
10.17INVALID-ORDER-17 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$	2
10.18INVALID-ORDER-18 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	2
10.19INVALID-ORDER-19 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	2
$10.20 \text{INVALID-ORDER-} 20 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \dots $	2
10.21INVALID-ORDER-21 $Z(s) = (R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty)$	23
$10.22 \text{INVALID-ORDER-} 22 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \infty\right) \dots $	2^{i}
$10.23 \text{INVALID-ORDER-23 } Z(s) = \left(R_1, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right) \dots $	2^{i}
$10.24 \text{INVALID-ORDER-} 24 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right) $	2^{i}
10.25INVALID-ORDER-25 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	2^{i}
10.26INVALID-ORDER-26 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$	2^{ω}
10.27INVALID-ORDER-27 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	
10.28INVALID-ORDER-28 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	2^{2}
10.29INVALID-ORDER-29 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$	2^{i}
10.30INVALID-ORDER-30 $Z(s) = (R_1, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty)$	2
10.31INVALID-ORDER-31 $Z(s) = (R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty)$	2
$10.32 \text{INVALID-ORDER-32 } Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right) $	
$10.33 \text{INVALID-ORDER-33 } Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right) \dots $	2
10.34INVALID-ORDER-34 $Z(s) = (R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty)$	
10.35INVALID-ORDER-35 $Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$	
10.36INVALID-ORDER-36 $Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	2
10.37INVALID-ORDER-37 $Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	
10.38INVALID-ORDER-38 $Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$	
$10.39 \text{INVALID-ORDER-39 } Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right) \dots$	2
10.40INVALID-ORDER-40 $Z(s) = (R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty)$	
10.41INVALID-ORDER-41 $Z(s) = (R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, R_5 + \frac{1}{C_5s}, \infty)$	
10.42INVALID-ORDER-42 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$	20

10.43INVALID-ORDER-43 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$	26
10.44INVALID-ORDER-44 $Z(s) = \left(R_1, \infty, \infty, \frac{L_{4s}}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$	26
$10.45 \text{INVALID-ORDER-45} \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right) \ \dots $	26
$10.46 \text{INVALID-ORDER-} 46 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) $	26
$10.47 \text{INVALID-ORDER-47 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4s}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \dots $	26
$10.48 \text{INVALID-ORDER-48 } Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$	26
10.49INVALID-ORDER-49 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$	27
10.50INVALID-ORDER-50 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$	27
10.51INVALID-ORDER-51 $Z(s) = \left(R_1, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$	27
10.52INVALID-ORDER-52 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	27
10.53INVALID-ORDER-53 $Z(s) = \left(R_1, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$	27
$10.54 \text{INVALID-ORDER-} 54 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) \dots $	27
$10.55 \text{INVALID-ORDER-} 55 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) \dots $	27
$10.56 \text{INVALID-ORDER-} 56 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $	27
$10.57 \text{INVALID-ORDER-57 } Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right) \dots $	27
10.58INVALID-ORDER-58 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$	28
10.59INVALID-ORDER-59 $Z(s) = (R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty)$	28
10.60INVALID-ORDER-60 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$	28
10.61INVALID-ORDER-61 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	28
10.62INVALID-ORDER-62 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$	28
10.63INVALID-ORDER-63 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	28
$10.64 \text{INVALID-ORDER-} 64 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) $	28
$10.65 \text{INVALID-ORDER-} 65 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) $	28
10.66INVALID-ORDER-66 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{1}{C_5s}, \infty\right)$	28
$10.67 \text{INVALID-ORDER-} 67 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \dots $	29
10.68INVALID-ORDER-68 $Z(s) = (R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, R_5 + \frac{1}{C_5s}, \infty)$	29
10.69INVALID-ORDER-69 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, L_5s + \frac{1}{C_5s}, \infty\right)$	
$10.70 \text{INVALID-ORDER-} 70 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)' $	
10.71INVALID-ORDER-71 $Z(s) = (R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty)$	29
$10.72 \text{INVALID-ORDER-} 72 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) \dots $	29
$10.73 \text{INVALID-ORDER-} 73 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) $	29
$10.74 \text{INVALID-ORDER-} 74 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) \dots $	29
10.75INVALID-ORDER-75 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$	29
10.76INVALID-ORDER-76 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$	30
10.77INVALID-ORDER-77 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$	
10.78INVALID-ORDER-78 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$	30
10.79INVALID-ORDER-79 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$	30

10.80INVALID-ORDER-80 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$	30
10.81INVALID-ORDER-81 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$	30
$10.82 \text{INVALID-ORDER-82 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right) $	30
$10.83 \text{INVALID-ORDER-83 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right) $	30
$10.84 \text{INVALID-ORDER-84 } Z(s) = (L_1 s, \infty, \infty, R_4, R_5, \infty) \dots $	30
$10.85 \text{INVALID-ORDER-85 } Z(s) = \left(L_1 s, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right) \dots \dots$	31
$10.86 \text{INVALID-ORDER-} 86 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ R_4, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right) \dots $	31
$10.87 \text{INVALID-ORDER-87 } Z(s) = \left(L_1 s, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right) $	31
$10.88 \text{INVALID-ORDER-88 } Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right) \dots \dots$	31
10.89INVALID-ORDER-89 $Z(s) = (L_1 s, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty)$	31
10.90INVALID-ORDER-90 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$	31
$10.91\text{INVALID-ORDER-91 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) $	31
$10.92 \text{INVALID-ORDER-92 } Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right) \dots \dots$	31
$10.93 \text{INVALID-ORDER-93 } Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) \dots \dots$	31
$10.94 \text{INVALID-ORDER-} 94 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right) \dots $	32
10.95INVALID-ORDER-95 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	32
10.96INVALID-ORDER-96 $Z(s) = (L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty)$	32
10.97INVALID-ORDER-97 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$	32
10.98INVALID-ORDER-98 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$	32
10.99INVALID-ORDER-99 $Z(s) = (L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty)$	32
10.10 0 NVALID-ORDER-100 $Z(s) = (L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty)$	32
10.10INVALID-ORDER-101 $Z(s) = (L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s+1}, L_5 s + \frac{1}{C_5 s}, \infty)$	32
10.102NVALID-ORDER-102 $Z(s) = (L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty)$	32
10.10 E NVALID-ORDER-103 $Z(s) = (L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty)$	33
10.104NVALID-ORDER-104 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	
$10.10 \text{INVALID-ORDER-} 105 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty \right)$	
$10.10 \text{ 6NVALID-ORDER-} 106 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)^{\prime} \dots $	
10.10 T NVALID-ORDER-107 $Z(s) = (L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty)$	33
10.10\text{\text{8}NVALID-ORDER-108} $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$	33
10.109NVALID-ORDER-109 $Z(s) = (L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty)'$	33
10.11 0 NVALID-ORDER-110 $Z(s) = (L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty)$	33
10.11INVALID-ORDER-111 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	
10.112NVALID-ORDER-112 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	
$10.112\text{NVALID-ORDER-}113\ Z(s) = \left(L_1 s,\ \infty,\ \infty,\ R_4 + \frac{1}{C_4 s},\ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1},\ \infty\right)\ \dots \dots$	34
10.114NVALID-ORDER-114 $Z(s) = (L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty)$	34
10.11 INVALID-ORDER-115 $Z(s) = (L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty)$	34
10.116NVALID-ORDER-116 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_s s}, \frac{R_5}{C_{\varepsilon} R_{\varepsilon} s + 1}, \infty\right)$	34
10.11TNVALID-ORDER-117 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$	34

10.11\text{\text{NVALID-ORDER-118}} $Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right)$	34
10.119NVALID-ORDER-119 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	34
10.120NVALID-ORDER-120 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$	34
10.12INVALID-ORDER-121 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	35
$10.122\text{NVALID-ORDER-}122\ Z(s) = \left(L_1 s,\ \infty,\ \infty,\ L_4 s + \frac{1}{C_4 s},\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right) \dots $	35
$10.12 \text{BNVALID-ORDER-} 123 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \dots $	35
10.124NVALID-ORDER-124 $Z(s) = (L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty)$	35
10.12 INVALID-ORDER-125 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$	35
$10.12 \text{ (INVALID-ORDER-126 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 \overline{L_4 s^2} + 1}, \ \frac{R_5}{C_5 \overline{R_5 s} + 1}, \ \infty\right)$	35
10.12 T NVALID-ORDER-127 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$	35
10.12\(\text{NVALID-ORDER-128} \(Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ L_5 s + \frac{1}{C_5 s}, \infty \right) \qquad \qq \	35
10.129NVALID-ORDER-129 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	35
10.13\(\text{QNVALID-ORDER-130}\(Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty \right) \right] \qquad \qqquad \qqqqq \qqqqq \qqqqqq \qqqqqq \qqqqqq \qqqqqq	36
10.13INVALID-ORDER-131 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	36
10.132NVALID-ORDER-132 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	36
$10.13 \text{ 2NVALID-ORDER-133 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	36
10.134NVALID-ORDER-134 $Z(s) = (L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty)$	36
$10.13 \text{INVALID-ORDER-} 135 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \infty\right) \qquad \dots $	36
10.136NVALID-ORDER-136 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$	36
10.13 T NVALID-ORDER-137 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$	36
10.13\(\text{NVALID-ORDER-138} \(Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty \right) \\ \tag{ \text{.}} \]	36
10.139NVALID-ORDER-139 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	37
10.14\(\text{ONVALID-ORDER-140}\) $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty \right)$	37
10.14INVALID-ORDER-141 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	
$10.142 \text{NVALID-ORDER-} 142 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) \ \dots $	
$10.14 \text{BNVALID-ORDER-} 143 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \dots $	
10.14 INVALID-ORDER-144 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$	
10.14 INVALID-ORDER-145 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$	
$10.14 \text{ (6NVALID-ORDER-146 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \dots $	
$10.14 \text{INVALID-ORDER-} 147 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ R_5 + \frac{1}{C_5 s}, \ \infty \right) \dots $	
10.14\(\text{NVALID-ORDER-148}\(Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\)\\ \dots\\	
$10.14 \mathfrak{D} \text{NVALID-ORDER-} 149 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty \right) $	
10.15 INVALID-ORDER-150 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$	38
$10.15 \text{INVALID-ORDER-151 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty \right) \dots $	
10.152NVALID-ORDER-152 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	
$10.15 \text{BNVALID-ORDER-} 153 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \dots $	
10.154NVALID-ORDER-154 $Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$	38
10.15 INVALID-ORDER-155 $Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$	38
$10.15 \text{ @NVALID-ORDER-156 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \dots $	38

$10.15 \text{INVALID-ORDER-} 157 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ R_5 + \frac{1}{C_5 s}, \ \infty \right) \qquad \dots $	39
10.15\(\text{NVALID-ORDER-158} \(Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ L_5 s + \frac{1}{C_5 s}, \infty \right) \qquad \qq \	39
10.15 9 NVALID-ORDER-159 $Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	39
$10.160 \text{NVALID-ORDER-} 160 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty \right) $	39
$10.16 \text{INVALID-ORDER-} 161 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty \right) \dots $	39
$10.162\text{NVALID-ORDER-}162\ Z(s) = \left(L_1 s,\ \infty,\ \infty,\ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1},\ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1},\ \infty\right) \dots $	39
$10.16 \text{2NVALID-ORDER-} 163 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \dots $	39
10.16 INVALID-ORDER-164 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$	39
10.16 INVALID-ORDER-165 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$	39
$10.16 \text{ INVALID-ORDER-} 166 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \qquad \ldots $	40
$10.16 \text{INVALID-ORDER-} 167 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right) \ \dots $	40
10.16\(\text{NVALID-ORDER-168} \(Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + \frac{1}{C_5 s}, \infty \right) \qquad \qqqq \qq	40
$10.16 \text{ @NVALID-ORDER-} 169 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right) \ \dots $	40
$10.17 \text{ONVALID-ORDER-170 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right) \dots $	40
$10.17 \text{INVALID-ORDER-171 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty \right) \dots $	40
$10.172\text{NVALID-ORDER-172} \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) \dots $	40
$10.17 \text{BNVALID-ORDER-173} \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) \dots $	40
10.174NVALID-ORDER-174 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, R_5, \infty\right)$	40
10.175NVALID-ORDER-175 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$	41
$10.176\text{NVALID-ORDER-}176\ Z(s) = \left(\frac{1}{C_1s},\ \infty,\ \infty,\ R_4,\ \frac{L_5s}{C_5L_5s^2+1},\ \infty\right)$	41
$10.17\text{INVALID-ORDER-177 } Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right) $	
10.17\text{\text{8}NVALID-ORDER-178} $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty \right)$	41
10.179NVALID-ORDER-179 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	
10.18 0 NVALID-ORDER-180 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$	
$10.18 \text{INVALID-ORDER-} 181 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_5 s}, \ \infty\right) \dots $	41
$10.182\text{NVALID-ORDER-}182\ Z(s) = \left(\frac{1}{C_1s},\ \infty,\ \infty,\ \frac{1}{C_4s},\ R_5 + \frac{1}{C_5s},\ \infty\right) \ \dots \ $	41
10.18 INVALID-ORDER-183 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$	41
$10.184\text{NVALID-ORDER-}184\ Z(s) = \left(\frac{1}{C_1s},\ \infty,\ \infty,\ \frac{1}{C_5L_5s^2+1},\ \infty\right)'$	41
$10.18 \text{5NVALID-ORDER-185 } Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right) \qquad \dots $	42
$10.18 \text{ INVALID-ORDER-} 186 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) $	42
$10.18 \text{INVALID-ORDER-} 187 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2}, \ \infty \right) \qquad \dots $	
10.18\(\text{NVALID-ORDER-188} \(Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \frac{1}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty \infty \right) \] \tag{\text{.}}	
10.189NVALID-ORDER-189 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)^{\prime}$	42
10.19 INVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$	
10.19INVALID-ORDER-191 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)'$	42
$10.192\text{NVALID-ORDER-}192\ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s+1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right) \ \dots $	42

10.19 INVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
10.194NVALID-ORDER-194 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$
$10.19 \text{ INVALID-ORDER-195 } Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s+1}, \ \frac{R_5 \left(C_5 L_5 s^2+1\right)}{C_5 L_5 s^2 + C_5 R_5 s+1}, \ \infty\right) $
10.196NVALID-ORDER-196 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$
10.19TNVALID-ORDER-197 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
10.19 NVALID-ORDER-198 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$
10.19 Q NVALID-ORDER-199 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
10.20 NVALID-ORDER-200 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$
10.20INVALID-ORDER-201 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
10.202NVALID-ORDER-202 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$ 43
10.20 LNVALID-ORDER-203 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$
$10.20 \text{4NVALID-ORDER-} 204 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
$10.20 \text{ INVALID-ORDER-} 205 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ R_5, \ \infty\right) \ \dots $
10.20 6 NVALID-ORDER-206 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$
$10.20 \text{INVALID-ORDER-} 207 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) . \tag{44}$
10.20 NVALID-ORDER-208 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$
10.20 NVALID-ORDER-209 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
10.21 INVALID-ORDER-210 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$
10.21INVALID-ORDER-211 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ 44
10.21 2 NVALID-ORDER-212 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
10.21\(\mathbb{B}\) VALID-ORDER-213\(Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty \right) \qq \qquad \qquad \qq \qq \
$10.21 \text{INVALID-ORDER-} 214 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
$10.21 \text{5NVALID-ORDER-} 215 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ R_5, \ \infty\right) \qquad . \qquad $
10.216NVALID-ORDER-216 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$
$10.21 \text{ INVALID-ORDER-} 217 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) $
10.21 NVALID-ORDER-218 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$
10.21 NVALID-ORDER-219 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ 45
$10.220 \text{NVALID-ORDER-} 220 \ Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{L_{4}s}{C_{4}L_{4}s^{2}+1}, \ \frac{L_{5}s}{C_{5}L_{5}s^{2}+1}, \ \infty\right)' $
10.22INVALID-ORDER-221 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
$10.22 \text{PNVALID-ORDER-} 222 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) $
$10.22 \text{NVALID-ORDER-} 223 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) $
$10.22 \text{INVALID-ORDER-} 224 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
$10.22 \text{5NVALID-ORDER-} 225 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ R_5, \ \infty\right) $
10.226NVALID-ORDER-226 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$
10.22¶NVALID-ORDER-227 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
10.22\(\text{NVALID-ORDER-228} \(Z(s) = \big(\frac{1}{C_1 s}, \infty, \inf
10.22 9 NVALID-ORDER-229 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
10.23@NVALID-ORDER-230 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)^{\prime}$
10.23INVALID-ORDER-231 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ 47

10.232NVALID-ORDER-232 $Z(s) = \left(\frac{1}{C_{18}}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_{48}}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
10.23\(\text{2NVALID-ORDER-233}\(Z(s)) = \left(\frac{1}{C_1 s}\), \(\infty\), \(\infty\), \(\left(\frac{1}{C_4 s}\), \(\frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}\), \(\infty\) \(\frac{1}{C_5 L_5 s^2 + 1}\), \(\infty\)
$10.23 \text{INVALID-ORDER-} 234 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
$10.23 \text{INVALID-ORDER-} 235 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ R_5, \ \infty\right) \ldots \qquad (47)$
$10.23 \text{ (INVALID-ORDER-236 } Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{1}{C_5 s}, \ \infty\right) $
$10.23 \text{INVALID-ORDER-} 237 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \ \dots $
10.23\(\text{NVALID-ORDER-238} \(Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ R_5 + \frac{1}{C_5 s}, \infty \right) \qq \qq \qq
$10.23 \mathfrak{D} \text{NVALID-ORDER-} 239 \ Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{L_{4}R_{4}s}{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}, \ L_{5}s + \frac{1}{C_{5}s}, \ \infty\right) \ \dots $
$10.24 \text{@NVALID-ORDER-} 240 \ Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{L_{4}R_{4}s}{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}, \ \frac{L_{5}s}{C_{5}L_{5}s^{2} + 1}, \ \infty\right) $
10.24INVALID-ORDER-241 $Z(s) = \left(\frac{1}{C_{1}s}, \infty, \infty, \frac{L_{4}R_{4}s}{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}, L_{5}s + R_{5} + \frac{1}{C_{5}s}, \infty\right)$
$10.242\text{NVALID-ORDER-}242\ Z(s) = \left(\frac{1}{C_{1s}},\ \infty,\ \infty,\ \frac{L_{4}R_{4s}}{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}},\ \frac{L_{5}R_{5s}}{C_{5}L_{5}R_{5}s^{2} + L_{5}s + R_{5}},\ \infty\right) \dots $
$10.24 \text{BNVALID-ORDER-} 243 \ Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) $
$10.24 \text{INVALID-ORDER-} 244 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
$10.245 \text{NVALID-ORDER-} 245 \ Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}{C_{4}L_{4}s^{2} + 1}, \ R_{5}, \ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.24 \text{ @NVALID-ORDER-} 246 \ Z(s) = \left(\frac{1}{C_{1s}}, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{1}{C_5 s}, \ \infty\right) $
$10.24\text{TNVALID-ORDER-}247\ Z(s) = \left(\frac{1}{C_{1}s},\ \infty,\ \infty,\ \frac{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}{C_{4}L_{4}s^{2} + 1},\ \frac{R_{5}}{C_{5}R_{5}s + 1},\ \infty\right) \ \dots \ $
10.24\(\text{ENVALID-ORDER-248}\(Z(s) = \left(\frac{1}{C_{1}s}\), \(\inftigeta\), \(\inftigeta\), \(\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}\), \(R_5 + \frac{1}{C_5s}\), \(\inftigeta\) \\\ \tag{9} \tag{9}
$10.24 \text{ @NVALID-ORDER-} 249 \ Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}{C_{4}L_{4}s^{2} + 1}, \ L_{5}s + \frac{1}{C_{5}s}, \ \infty\right) \ \dots $
$10.25 \text{@NVALID-ORDER-} 250 \ Z(s) = \left(\frac{1}{C_{1s}}, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right) $
10.25INVALID-ORDER-251 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
$10.252\text{NVALID-ORDER-}252\ Z(s) = \left(\frac{1}{C_{1s}},\ \infty,\ \infty,\ \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1},\ \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5},\ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.25 \text{RNVALID-ORDER-} 253 \ Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}{C_{4}L_{4}s^{2} + 1}, \ \frac{C_{5}L_{5}R_{5}s^{2} + L_{5}s + R_{5}}{C_{5}L_{5}s^{2} + 1}, \ \infty\right) \dots $
$10.25 \text{4NVALID-ORDER-} 254 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
$10.25 \text{INVALID-ORDER-} 255 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ R_5, \ \infty\right) $
$10.25 \text{ (INVALID-ORDER-256 } Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right) $
$10.25 \text{INVALID-ORDER-} 257 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty \right) $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$10.25 \text{ @NVALID-ORDER-259 } Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right) $
$10.26 \text{@NVALID-ORDER-} 260 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)^{\prime} $
$10.26 \text{INVALID-ORDER-} 261 \ Z(s) = \left(\frac{1}{C_{1}s}, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right) $
$10.262\text{NVALID-ORDER-}262\ Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \infty,\ \frac{R_4\left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1},\ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5},\ \infty\right) \qquad . \qquad $
10.26 2 NVALID-ORDER-263 $Z(s) = \left\langle \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty \right\rangle$ (2.8)
$10.26 \text{4NVALID-ORDER-} 264 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4(C_4 L_4 s + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5(C_5 L_5 s + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) \dots $
$10.26 \text{Invalid-Order-} 265 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4, \ R_5, \ \infty\right) $
$ \begin{array}{lll} & \left(\frac{C_1 R_1 s + 1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-266 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \text{ w. w.} \right) \\ & 10.26 \text{INVALID-ORDER-267 } Z(s) = \left($
10.26TNVALID-ORDER-267 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

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10.26\( \text{NVALID-ORDER-268} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \text{R_4}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \infty \right) \end{array}
10.26 9NVALID-ORDER-269 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.270NVALID-ORDER-270 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.27INVALID-ORDER-271 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.272NVALID-ORDER-272 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) . . . . . .
10.27 INVALID-ORDER-273 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.274NVALID-ORDER-274 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)...
10.27 INVALID-ORDER-275 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) . . .
10.276NVALID-ORDER-276 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right) . . .
10.27 INVALID-ORDER-277 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.27\text{\text{NVALID-ORDER-278}} Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.279NVALID-ORDER-279 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.28@NVALID-ORDER-280 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.28INVALID-ORDER-281 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.282NVALID-ORDER-282 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right) . . .
10.28 INVALID-ORDER-283 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.284NVALID-ORDER-284 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.28 INVALID-ORDER-285 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.286NVALID-ORDER-286 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.28 INVALID-ORDER-287 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) . . . . . . . .
10.28\( \text{NVALID-ORDER-288} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \frac{R_4}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty \right) \\ \tag{.} \tag{.}
10.28 INVALID-ORDER-289 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.29@NVALID-ORDER-290 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right) \dots
10.29INVALID-ORDER-291 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) . . .
10.292NVALID-ORDER-292 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.29 INVALID-ORDER-293 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.294NVALID-ORDER-294 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.29 INVALID-ORDER-295 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.296NVALID-ORDER-296 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right) . . . . .
10.29 INVALID-ORDER-297 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) \dots
10.29\( \text{NVALID-ORDER-298} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \frac{L_4 s}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty \right) \end{array}
10.29 INVALID-ORDER-299 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.300NVALID-ORDER-300 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.30INVALID-ORDER-301 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) \dots
10.302NVALID-ORDER-302 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.30\(\text{2NVALID-ORDER-303}\(Z(s) = \left(\frac{R_1}{C_1R_1s+1}\), \infty, \infty, \int_4s + \frac{1}{C_4s}\), \(\frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}\), \(\infty\)
10.304NVALID-ORDER-304 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_{4s}}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
10.30 \text{ INVALID-ORDER-305 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \right)
10.306NVALID-ORDER-306 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right).
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10.30\( \) NVALID-ORDER-308 Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, \, \infty, \, \infty, \, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty \right)
10.309NVALID-ORDER-309 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.31 NVALID-ORDER-310 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.31INVALID-ORDER-311 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
10.312NVALID-ORDER-312 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.318NVALID-ORDER-313 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_5L_6R_5s^2+L_5s+R_5}, \infty\right)
10.314NVALID-ORDER-314 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.31 INVALID-ORDER-315 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.316NVALID-ORDER-316 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right) . . . . . . .
10.31 INVALID-ORDER-317 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) \dots
10.31\( \text{NVALID-ORDER-318} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \left( L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty \right) \)
10.319NVALID-ORDER-319 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right).
10.320NVALID-ORDER-320 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right) . . .
10.32INVALID-ORDER-321 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) \dots \dots
10.322NVALID-ORDER-322 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.32\( \text{NVALID-ORDER-323} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, \infty \infty, \infty, \infty, \left( L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty \right) \)
10.32\(\text{INVALID-ORDER-324}\(Z(s) = \left(\frac{R_1}{C_1R_1s+1}\), \infty, \infty
10.32 INVALID-ORDER-325 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.326NVALID-ORDER-326 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right) . . . . . . .
10.32TNVALID-ORDER-327 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right) . . .
10.32\( \text{NVALID-ORDER-328} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty \right) \qquad \tag{.}
10.329NVALID-ORDER-329 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.330NVALID-ORDER-330 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.33INVALID-ORDER-331 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right) \dots
10.332NVALID-ORDER-332 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.33\(\text{ENVALID-ORDER-333}\) Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
10.33 \text{ 1 NVALID-ORDER-334 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty \right)
                                                                                      \left(rac{R_1}{C_1R_1s+1},\;\infty,\;\infty,\;rac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4},\;rac{R_5ig(C_5L_5s^2+1ig)}{C_5L_5s^2+C_5R_5s+1},\;\infty
ight)
10.336NVALID-ORDER-336 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
10.33 INVALID-ORDER-337 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right) \dots
10.33\(\text{NVALID-ORDER-338}\) Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \, \infty, \, \infty, \, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty\right)
10.339NVALID-ORDER-339 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.340NVALID-ORDER-340 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.34INVALID-ORDER-341 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.342 \text{NVALID-ORDER-} 342 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right)
10.34\(\text{2NVALID-ORDER-343}\) Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.34 INVALID-ORDER-344 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
10.345NVALID-ORDER-345 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}\right)
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$10.34 \text{ 6NVALID-ORDER-346 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ R_5, \ \infty\right) \ \dots $	59
$10.34\text{ TNVALID-ORDER-347 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{1}{C_5 s}, \ \infty \right) $	59
$10.34 \text{ INVALID-ORDER-348 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \ \dots $	60
$10.34 \text{ @NVALID-ORDER-349 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right) $	60
10.35 0 NVALID-ORDER-350 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$	60
$10.35 \text{INVALID-ORDER-351 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty \right)' $	60
10.352NVALID-ORDER-352 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$	60
$10.35 \text{ (NVALID-ORDER-353 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right) \dots \dots$	60
$10.35 \text{ INVALID-ORDER-354 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty \right) \ \dots $	60
$10.35 \text{INVALID-ORDER-355} \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right)^{\prime} \dots $	60
$10.35 \text{ (INVALID-ORDER-356 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5, \infty\right) \dots$	60
$10.35 \text{INVALID-ORDER-} 357 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right) \ \dots $	6
10.35 NVALID-ORDER-358 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$	6
10.35 Q NVALID-ORDER-359 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$	6
10.36 0 NVALID-ORDER-360 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	6
10.36INVALID-ORDER-361 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$	6
10.362NVALID-ORDER-362 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$	6
10.36\(\mathbb{E}\)NVALID-ORDER-363\(Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty\)	6
$10.36 \text{ Invalid-order} 2(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_5}{C_5 R_5 s + 1}, \infty\right) \dots \dots$	6
$10.36 \text{ Invalid-order} = \left(R_1 + \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, R_5 + \frac{1}{C_{5s}}, \infty\right)$	6
10.36 6 NVALID-ORDER-366 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$	63
$10.36 \text{TNVALID-ORDER-} 367 \ Z(s) = \left(R_1 + \frac{1}{C_{1:s}}, \ \infty, \ \infty, \ \frac{1}{C_{1:s}}, \ \frac{L_{5:s}}{C_7 L_{7:s}^2 + 1}, \ \infty\right)' \dots \dots$	6
10.36\(\) NVALID-ORDER-368 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty \right)$	6
10.36 NVALID-ORDER-369 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_5 L_5 R_5 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$	6
10.37 0 NVALID-ORDER-370 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_7 L_5 s^2 + 1}, \infty\right)$	6
10.37INVALID-ORDER-371 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty \right)$	
10.372NVALID-ORDER-372 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$	6:
10.37 NVALID-ORDER-373 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_1 R_2 s+1}, \frac{R_5}{C_2 R_2 s+1}, \infty\right)$	6
10.37 INVALID-ORDER-374 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$	63
$10.37 \text{INVALID-ORDER-375 } Z(s) = \left(R_1 + \frac{1}{C_{1\circ}}, \infty, \infty, \infty, \frac{R_4}{C_{1\circ}R_{1\circ}+1}, L_5s + \frac{1}{C_{1\circ}}, \infty\right) \dots \dots$	6
$10.376 \text{NVALID-ORDER-376 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right) \dots $	6
$10.37\text{INVALID-ORDER-377 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty \right) \ \dots $	
$10.37 \$NVALID-ORDER-378 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s+1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) \ \dots $	6
$10.37 \text{ (NVALID-ORDER-379 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right) \dots \dots$	6
10.38 INVALID-ORDER-380 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_2 R_2 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$	6
$10.38 \text{INVALID-ORDER-381 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) \dots \dots$	6
(

10.382NVALID-ORDER-382 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
10.38 INVALID-ORDER-383 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$
10.384NVALID-ORDER-384 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
10.38 INVALID-ORDER-385 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$
10.386NVALID-ORDER-386 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
10.38INVALID-ORDER-387 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
10.38\(\text{NVALID-ORDER-388} \(Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty \infty \] \\ \tag{64}
10.38 NVALID-ORDER-389 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$
10.39@NVALID-ORDER-390 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$
10.39INVALID-ORDER-391 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$
10.392NVALID-ORDER-392 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
10.39 E NVALID-ORDER-393 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ 65
10.394NVALID-ORDER-394 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
10.39 INVALID-ORDER-395 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ 65
10.396NVALID-ORDER-396 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ 65
10.39 T NVALID-ORDER-397 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
10.39 NVALID-ORDER-398 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$
$10.39 \text{ (NVALID-ORDER-399 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) $
10.40 0 NVALID-ORDER-400 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$
10.40INVALID-ORDER-401 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$
$10.402\text{NVALID-ORDER-}402\ Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \infty,\ \infty,\ \frac{L_4 s}{C_4 L_4 s^2 + 1},\ \frac{R_5}{C_5 R_5 s + 1},\ \infty\right) \qquad . \qquad $
10.40 ENVALID-ORDER-403 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$
10.404NVALID-ORDER-404 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
$10.40 \text{ INVALID-ORDER-} 405 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right) \ \dots $
$10.40 \text{ 6} \text{NVALID-ORDER-406 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right) \dots $
$10.40 \text{INVALID-ORDER-} 407 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) $
$10.40 \$NVALID-ORDER-408 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) $
$10.40 \text{ @NVALID-ORDER-409 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \ \dots $
10.41 0 NVALID-ORDER-410 $Z(s) = (R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty)$
10.41INVALID-ORDER-411 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$
10.41 2 NVALID-ORDER-412 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
10.41 B NVALID-ORDER-413 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$
10.41 INVALID-ORDER-414 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
10.41 INVALID-ORDER-415 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$
10.416NVALID-ORDER-416 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ 67
$10.41\text{INVALID-ORDER-417 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty \right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
10.41 NVALID-ORDER-418 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$
$10.41 \text{ @NVALID-ORDER-419 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
10.42 INVALID-ORDER-420 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$

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10.42INVALID-ORDER-421 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
10.422NVALID-ORDER-422 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.42\(\text{NVALID-ORDER-423}\) Z(s) = \left(R_1 + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \, R_5 + \frac{1}{C_5 s}, \, \infty\right)
10.424NVALID-ORDER-424 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.42 INVALID-ORDER-425 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.426NVALID-ORDER-426 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.42TNVALID-ORDER-427 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.42 \text{ENVALID-ORDER-} 428 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty \right)
10.429NVALID-ORDER-429 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.430NVALID-ORDER-430 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right).
10.43INVALID-ORDER-431 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
10.43 NVALID-ORDER-432 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.43BNVALID-ORDER-433 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.43 INVALID-ORDER-434 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.43 INVALID-ORDER-435 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.436NVALID-ORDER-436 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.43TNVALID-ORDER-437 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.43\(\text{NVALID-ORDER-438}\) Z(s) = \left(R_1 + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \right)
10.439NVALID-ORDER-439 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.440NVALID-ORDER-440 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)
10.44INVALID-ORDER-441 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
10.442NVALID-ORDER-442 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.44BNVALID-ORDER-443 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.44INVALID-ORDER-444 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.445NVALID-ORDER-445 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.446NVALID-ORDER-446 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.44TNVALID-ORDER-447 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.44&NVALID-ORDER-448 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.44 INVALID-ORDER-449 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
 10.45 NVALID-ORDER-450 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right) \dots
10.45INVALID-ORDER-451 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.45\(\text{2NVALID-ORDER-452}\) Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \, \infty, \, \infty, \, R_4, \, R_5 + \frac{1}{C_5 s}, \, \infty\right).
 10.45 NVALID-ORDER-453 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)
 10.454NVALID-ORDER-454 Z(s) = \left(L_1 s + \frac{1}{C_{18}}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) . . .
10.45 INVALID-ORDER-455 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.45 INVALID-ORDER-456 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.45 INVALID-ORDER-457 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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10.45\( \text{NVALID-ORDER-458} \) Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ \frac{R_5 \left( C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right)
10.459NVALID-ORDER-459 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right) \dots \dots
10.460NVALID-ORDER-460 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) . . . . . .
10.46INVALID-ORDER-461 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)...
10.462NVALID-ORDER-462 Z(s) = \left(L_1 s + \frac{1}{C_{18}}, \infty, \infty, \frac{1}{C_{48}}, R_5 + \frac{1}{C_{58}}, \infty\right)
10.46\(\text{NVALID-ORDER-463}\) Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{1}{C_4 s}, \, L_5 s + \frac{1}{C_5 s}, \, \infty\right) \dots
10.464NVALID-ORDER-464 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) . . .
10.46 INVALID-ORDER-465 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.46 INVALID-ORDER-466 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.46 INVALID-ORDER-467 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.46\( \text{NVALID-ORDER-468} \( Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{1}{C_4 s}, \, \frac{R_5 \left( C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \, \infty \right) \)
10.469NVALID-ORDER-469 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right) . . . .
10.470NVALID-ORDER-470 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right).
10.47INVALID-ORDER-471 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.472NVALID-ORDER-472 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.478NVALID-ORDER-473 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.47\(\text{INVALID-ORDER-474}\) Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{R_4}{C_4 R_4 s + 1}, \, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \, \infty\right) \dots
10.47\ \text{INVALID-ORDER-475}\ Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \frac{R_4}{C_1 R_1 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty \right)
10.476NVALID-ORDER-476 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.47 INVALID-ORDER-477 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.47&NVALID-ORDER-478 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.479NVALID-ORDER-479 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right) \dots \dots
10.48@NVALID-ORDER-480 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) . . .
10.48INVALID-ORDER-481 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right).
10.482NVALID-ORDER-482 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.48\textbf{ENVALID-ORDER-483} Z(s) = \left(L_1 s + \frac{1}{C_{1.5}}, \, \infty, \, \infty, \, R_4 + \frac{1}{C_{4.5}}, \, L_5 s + \frac{1}{C_{5.5}}, \, \infty\right)
10.48\ INVALID-ORDER-484 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) ...
10.48 INVALID-ORDER-485 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.486NVALID-ORDER-486 Z(s) = (L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty)
10.48TNVALID-ORDER-487 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.48\( \text{NVALID-ORDER-488} \( Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \frac{R_5 \left( C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty \)
10.489NVALID-ORDER-489 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right) . . . .
10.49 INVALID-ORDER-490 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) \dots
10.49INVALID-ORDER-491 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.492NVALID-ORDER-492 Z(s) = \left(L_1 s + \frac{1}{C_{18}}, \infty, \infty, L_4 s + \frac{1}{C_{18}}, R_5 + \frac{1}{C_{18}}, \infty\right)
10.49 INVALID-ORDER-493 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.494NVALID-ORDER-494 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.49 INVALID-ORDER-495 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right).
10.496NVALID-ORDER-496 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
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10.49TNVALID-ORDER-497 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + L_5}, \infty\right)
10.49 NVALID-ORDER-498 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.499NVALID-ORDER-499 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right) \dots \dots \dots
10.50 NVALID-ORDER-500 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right) . . .
10.50INVALID-ORDER-501 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.502NVALID-ORDER-502 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.50RNVALID-ORDER-503 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.504NVALID-ORDER-504 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.50 INVALID-ORDER-505 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.506NVALID-ORDER-506 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.50TNVALID-ORDER-507 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.50\( \text{NVALID-ORDER-508} \( Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left( C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty \right) \end{array}
10.509NVALID-ORDER-509 Z(s) = \left(L_1 s + \frac{1}{C_{1s}}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_{4s}}, R_5, \infty\right)
10.510NVALID-ORDER-510 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right).
10.51INVALID-ORDER-511 Z(s) = (L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty).
10.512NVALID-ORDER-512 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.51kNVALID-ORDER-513 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.514NVALID-ORDER-514 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right).
10.51 INVALID-ORDER-515 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.516NVALID-ORDER-516 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.51 INVALID-ORDER-517 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.518NVALID-ORDER-518 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + C_5 R_5 s + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}\right)
10.519NVALID-ORDER-519 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)
10.520NVALID-ORDER-520 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
10.52INVALID-ORDER-521 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.522NVALID-ORDER-522 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.528NVALID-ORDER-523 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.524NVALID-ORDER-524 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) . . .
10.52 INVALID-ORDER-525 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.526NVALID-ORDER-526 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.52 \text{INVALID-ORDER-527 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty \right)
10.52 \text{NVALID-ORDER-528} \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \right)
10.529NVALID-ORDER-529 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + L_4}, R_5, \infty\right)
10.530NVALID-ORDER-530 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
10.53INVALID-ORDER-531 Z(s) = (L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty)
10.532NVALID-ORDER-532 Z(s) = (L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty)
10.53BNVALID-ORDER-533 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.534NVALID-ORDER-534 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.53 INVALID-ORDER-535 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
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$10.536 \text{NVALID-ORDER-} 536 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) \dots $
$10.53 \text{INVALID-ORDER-} 537 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty \right) \qquad . \qquad $
$10.53 \$NVALID-ORDER-538 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
10.539NVALID-ORDER-539 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$
$10.540 \text{NVALID-ORDER-} 540 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{1}{C_5 s}, \ \infty\right) $
$10.54 \text{INVALID-ORDER-} 541 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty \right) \ \dots $
$10.542\text{NVALID-ORDER-}542\ Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \infty,\ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1},\ R_5 + \frac{1}{C_5 s},\ \infty\right)$
$10.5428 \text{NVALID-ORDER-} 543 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty \right) \ \dots $
$10.54 \text{INVALID-ORDER-} 544 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty \right) \dots $
$10.545 \text{NVALID-ORDER-} 545 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right) $
$10.546 \text{NVALID-ORDER-} 546 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.54 \text{INVALID-ORDER-} 547 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty \right) \ \dots $
$10.54 \$NVALID-ORDER-548 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
$10.54 \mathfrak{D} \text{NVALID-ORDER-} 549 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \frac{1}{C_5 s}, \ \infty\right) \qquad . \qquad $
$10.55 \text{@NVALID-ORDER-} 550 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$10.55 \text{INVALID-ORDER-551 } Z(s) = \left\langle \frac{L_{18}}{C_1 L_{18}^2 + 1}, \infty, \infty, R_4, R_5 + \frac{1}{C_{58}}, \infty \right\rangle \qquad . \qquad $
10.552NVALID-ORDER-552 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$
10.55 RNVALID-ORDER-553 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$
$10.554\text{NVALID-ORDER-}554 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right) \ \dots $
$10.55 \text{INVALID-ORDER-} 555 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) \dots $
$10.55 \text{ (EVALID-ORDER-556 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) \dots $
$10.55 \text{INVALID-ORDER-} 557 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) $
10.55&NVALID-ORDER-558 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, \frac{1}{C_4s}, R_5, \infty\right)$
10.55 9 NVALID-ORDER-559 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
10.56 DNVALID-ORDER-560 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$
$10.56 \text{INVALID-ORDER-} 561 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right) $
$10.562\text{NVALID-ORDER-}562 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right) $
10.56 ENVALID-ORDER-5 63 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right) \dots \dots$
$10.56 \text{INVALID-ORDER-} 564 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) $
$10.56 \text{INVALID-ORDER-} 565 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) $
$10.56 \text{ ENVALID-ORDER-} 566 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_5 L_5}, \ \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) $
$ \begin{array}{c} \text{10.50 LT-010} & \text{2}(s) = \left(\begin{array}{c} \overline{C_1 L_1} s^2 + 1, & \infty, & \infty, & \overline{C_4} s, & \overline{C_5 L_5} s^2 + C_5 R_5 s + 1, \\ \end{array} \right) \\ \text{10.50 LT-010} & \text{10.50 LT-010} & \text{10.50 LT-010} \\ \end{array} $
$10.56 \text{TNVALID-ORDER-} 567 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5, \ \infty \right) $
$10.56 \text{\&NVALID-ORDER-} 568 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{1}{C_5 s}, \ \infty\right) \qquad . \qquad $
10.56 PNVALID-ORDER-569 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ 8.
$10.57 \text{ @NVALID-ORDER-570 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ R_5 + \frac{1}{C_5 s}, \ \infty \right) $
$10.57 \text{INVALID-ORDER-571 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right) \dots $

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10.572NVALID-ORDER-572 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) .....
10.578NVALID-ORDER-573 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.574NVALID-ORDER-574 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.57 INVALID-ORDER-575 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.576NVALID-ORDER-576 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 (C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.57 INVALID-ORDER-577 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right) \dots \dots
10.57 NVALID-ORDER-578 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) \dots
10.579NVALID-ORDER-579 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.58 INVALID-ORDER-580 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.58INVALID-ORDER-581 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.582NVALID-ORDER-582 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) \dots
10.58 INVALID-ORDER-583 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.584NVALID-ORDER-584 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.58 INVALID-ORDER-585 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.586NVALID-ORDER-586 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.58 INVALID-ORDER-587 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right) \dots \dots
10.58 NVALID-ORDER-588 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) . . . .
10.58 INVALID-ORDER-589 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right).
10.590NVALID-ORDER-590 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.59INVALID-ORDER-591 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.592NVALID-ORDER-592 Z(s) = \left(\frac{L_1 s}{C_1 L_4 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) . . .
10.59\( \text{SNVALID-ORDER-593} \) Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \, \infty, \, \infty, \, L_4 s + \frac{1}{C_4 s}, \, L_5 s + R_5 + \frac{1}{C_5 s}, \, \infty \right) ...
10.59\(\text{INVALID-ORDER-594}\) Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \, \infty, \, \infty, \, L_4 s + \frac{1}{C_4 s}, \, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \, \infty\right)
10.59 INVALID-ORDER-595 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.596NVALID-ORDER-596 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.59 INVALID-ORDER-597 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right).
10.598NVALID-ORDER-598 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right) \dots
10.599NVALID-ORDER-599 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.60 NVALID-ORDER-600 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.60INVALID-ORDER-601 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.602NVALID-ORDER-602 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.60 INVALID-ORDER-603 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.604NVALID-ORDER-604 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.60 INVALID-ORDER-605 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.606NVALID-ORDER-606 Z(s) = \left(\frac{L_{1s}}{C_1L_1s^2+1}, \infty, \infty, \frac{L_{4s}}{C_4L_4s^2+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
10.60 TNVALID-ORDER-607 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right) \dots \dots
10.60 NVALID-ORDER-608 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) . . .
10.609NVALID-ORDER-609 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
10.61@NVALID-ORDER-610 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right).
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10.61INVALID-ORDER-611 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right) \dots
                                                                                   \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                                                                   \left(\frac{L_1s}{C_1L_1s^2+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)
10.614NVALID-ORDER-614 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                   \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)
                                                                                    \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
10.61TNVALID-ORDER-617 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right) \dots
10.61\( \) NVALID-ORDER-618 Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty \right)
10.619NVALID-ORDER-619 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                   \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5 + \frac{1}{C_5s}, \infty\right)
10.62INVALID-ORDER-621 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.622NVALID-ORDER-622 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.62\( \text{NVALID-ORDER-623} \( Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty \infty, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \infty \right) \end{array}
10.624NVALID-ORDER-624 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.62\( \text{INVALID-ORDER-625}\) Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \right)
10.62 \text{ (NVALID-ORDER-626 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \right)
10.62TNVALID-ORDER-627 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                   \left(\frac{L_1s}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \ \frac{1}{C_5s}, \ \infty\right)
                                                                                   \left(rac{L_1s}{C_1L_1s^2+1},\;\infty,\;\infty,\;rac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1},\;rac{R_5}{C_5R_5s+1},\;\infty
ight)
                                                                                   \left(\frac{L_1s}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \ R_5+\frac{1}{C_5s}, \ \infty\right)
                                                                                   \left(rac{L_1s}{C_1L_1s^2+1},\;\infty,\;\infty,\;rac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1},\;L_5s+rac{1}{C_5s},\;\infty
ight)
                                                                                   \left(rac{L_1 s}{C_1 L_1 s^2 + 1}, \; \infty, \; \infty, \; rac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \; rac{L_5 s}{C_5 L_5 s^2 + 1}, \; \infty
ight)
                                                                                    \left(\frac{L_1s}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)
                                                                                    \left( rac{L_1 s}{C_1 L_1 s^2 + 1}, \; \infty, \; \infty, \; rac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \; rac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \; \infty 
ight)
                                                                                    \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \infty, \infty, \frac{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}{C_{4}L_{4}s^{2}+1}, \frac{C_{5}L_{5}R_{5}s^{2}+L_{5}s+R_{5}}{C_{5}L_{5}s^{2}+1}, \infty\right)
                                                                                     \frac{L_{1s}}{C_{1}L_{1}s^{2}+1}, \; \infty, \; \infty, \; \frac{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}{C_{4}L_{4}s^{2}+1}, \; \frac{R_{5}(C_{5}L_{5}s^{2}+1)}{C_{5}L_{5}s^{2}+C_{5}R_{5}s+1}, \; \infty
                                                                                     \left( rac{L_{1s}}{C_{1}L_{1}s^{2}+1}, \; \infty, \; \infty, \; rac{R_{4}\left( C_{4}L_{4}s^{2}+1
ight)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1}, \; R_{5}, \; \infty 
ight)
10.63TNVALID-ORDER-637 Z(s) =
                                                                                     \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
10.63NVALID-ORDER-638 Z(s) =
                                                                                     \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)
10.639NVALID-ORDER-639 Z(s) =
                                                                                     \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \infty, \infty, \frac{R_{4}(C_{4}L_{4}s^{2}+1)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1}, R_{5}+\frac{1}{C_{5}s}, \infty\right)
10.64 ONVALID-ORDER-640 Z(s) =
                                                                                     \frac{L_{1s}}{C_{1}L_{1}s^{2}+1}, \; \infty, \; \infty, \; \frac{R_{4}\left(C_{4}L_{4}s^{2}+1\right)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1}, \; L_{5}s+rac{1}{C_{5}s}, \; \infty
10.64INVALID-ORDER-641 Z(s) =
                                                                                     \frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \infty, \infty, \frac{R_{4}(C_{4}L_{4}s^{2}+1)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1}, \frac{L_{5}s}{C_{5}L_{5}s^{2}+1}, \infty
10.642NVALID-ORDER-642 Z(s) =
                                                                                     \frac{L_{18}}{C_1L_1s^2+1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s+R_5+\frac{1}{C_5s}, \infty
10.64BNVALID-ORDER-643 Z(s) =
                                                                                     \frac{L_{18}}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty
10.644NVALID-ORDER-644 Z(s) =
                                                                                     \frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty
                                                                                   \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \infty, \infty, \frac{R_{4}(C_{4}L_{4}s^{2}+1)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1}, \frac{R_{5}(C_{5}L_{5}s^{2}+1)}{C_{5}L_{5}s^{2}+C_{5}R_{5}s+1},\right)
10.64 6NVALID-ORDER-646 Z(s) =
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$10.64 \text{INVALID-ORDER-} 647 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ \frac{1}{C_5 s}, \ \infty\right) \ \dots $. 9
10.64 NVALID-ORDER-648 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$. 9
10.64 NVALID-ORDER-649 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$. 9
10.65 0 NVALID-ORDER-650 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$. 9
10.65INVALID-ORDER-651 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$. 9
10.652NVALID-ORDER-652 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$. 9
10.65 RNVALID-ORDER-653 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$. 9
10.65 INVALID-ORDER-654 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$. 95
$10.65 \text{ Invalid-order-} 655 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty\right) \ \dots $. 95
10.656NVALID-ORDER-656 $Z(s) = (L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty)$. 93
$10.65 \text{ INVALID-ORDER-} 657 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \frac{1}{C_5 s}, \ \infty\right) \qquad \dots $. 95
10.65 NVALID-ORDER-658 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_5 R_5 s+1}, \infty\right)$. 95
10.65 9 NVALID-ORDER-659 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$. 95
10.66 Q NVALID-ORDER-660 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$. 95
10.66INVALID-ORDER-661 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_5 L_5 s^2 + 1}, \infty\right)$. 95
10.662NVALID-ORDER-662 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$. 99
10.66\(\mathbb{E}\)NVALID-ORDER-663\(Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \infty, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty \right) \qquad \qqquad \qqqqq \qqqqqqqqqqqqqqqqqqqqqqqqqqqqq	. 93
10.66\(\text{4NVALID-ORDER-664}\(Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right) \qquad \qqqq \qqqqq \qqqqqq	. 93
$10.66 \text{ INVALID-ORDER-} 665 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) $. 93
10.66 6 NVALID-ORDER-666 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$. 93
10.66 T NVALID-ORDER-667 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$. 93
10.66 NVALID-ORDER-668 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$. 93
10.66 NVALID-ORDER-669 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$. 93
10.67 0 NVALID-ORDER-670 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$. 93
$10.67 \text{INVALID-ORDER-} 671 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right)' \dots \dots$. 93
10.672NVALID-ORDER-672 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$. 94
$10.67 \text{ (NVALID-ORDER-673 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right) $. 94
$10.67 \text{INVALID-ORDER-} 674 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty \right) $	
$10.67 \text{5NVALID-ORDER-} 675 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) $	
10.676NVALID-ORDER-676 $Z(s) = (L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty)$. 9
10.67 INVALID-ORDER-677 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$. 94
10.67\(\text{NVALID-ORDER-678} \) $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty \right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $. 94
10.679NVALID-ORDER-679 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$. 94
10.68 0 NVALID-ORDER-680 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$. 94
10.68INVALID-ORDER-681 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$. 9
10.682NVALID-ORDER-682 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$. 9
$10.68 \text{ENVALID-ORDER-} 683 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty \right) \ \dots $. 9
$10.684\text{NVALID-ORDER-}684\ Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s},\ \infty,\ \infty,\ R_4 + \frac{1}{C_4s},\ \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1},\ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	
$10.68 \text{INVALID-ORDER-} 685 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) $. 9

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10.686NVALID-ORDER-686 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{18}}, \infty, \infty, L_4 s + \frac{1}{C_{48}}, R_5, \infty\right) . . . . . . . . .
 10.68TNVALID-ORDER-687 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) \dots
10.68\( \text{NVALID-ORDER-688} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \, \infty, \, \infty, \, L_4 s + \frac{1}{C_4 s}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty \right) \quad \dots \quad \dots
 10.68 NVALID-ORDER-689 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right) . . .
10.69@NVALID-ORDER-690 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
 10.69INVALID-ORDER-691 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right).
10.692NVALID-ORDER-692 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.69\( \text{NVALID-ORDER-693} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \infty \infty, \infty, \infty, \frac{L_4 s}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty \right) \)
10.694NVALID-ORDER-694 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.69 INVALID-ORDER-695 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.69 INVALID-ORDER-696 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right) \dots \dots \dots
 10.69 INVALID-ORDER-697 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1.8}}, \infty, \infty, \frac{L_4 s}{C_{1.4.8}^2 + 1}, \frac{1}{C_{1.8}}, \infty\right) . . . .
10.69\( \text{NVALID-ORDER-698} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty \right) 
10.699NVALID-ORDER-699 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_5 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.70 INVALID-ORDER-700 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_1 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.70INVALID-ORDER-701 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.702NVALID-ORDER-702 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.70ENVALID-ORDER-703 Z(s) = (L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty)
10.704NVALID-ORDER-704 Z(s) = (L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty)
10.70 INVALID-ORDER-705 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.706NVALID-ORDER-706 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1s}}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_{4s}}, R_5, \infty\right) . . . .
 10.70 INVALID-ORDER-707 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_7 s}, \infty\right).
10.70\( \text{NVALID-ORDER-708} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_{18}}, \, \infty, \, \infty, \, L_4 s + R_4 + \frac{1}{C_{48}}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty \right) 
10.709NVALID-ORDER-709 Z(s) = (L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty)
10.710NVALID-ORDER-710 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.71INVALID-ORDER-711 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) . . .
10.712NVALID-ORDER-712 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.718NVALID-ORDER-713 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.714NVALID-ORDER-714 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1s}}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_{4s}}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_4 L_5 s^2 + 1}, \infty\right)
10.715NVALID-ORDER-715 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.716NVALID-ORDER-716 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)
10.71TNVALID-ORDER-717 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right).
10.71\bigsymbol{8}\bigsymbol{NVALID-ORDER-718} Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty\right)
10.719NVALID-ORDER-719 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.720NVALID-ORDER-720 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.72INVALID-ORDER-721 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.72\(\text{2NVALID-ORDER-722}\) Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.72\( \text{NVALID-ORDER-723} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \, \infty \right) 
10.724NVALID-ORDER-724 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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10.72 INVALID-ORDER-725 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.726NVALID-ORDER-726 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
10.72TNVALID-ORDER-727 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right).
10.72\( \text{NVALID-ORDER-728} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty \right) 
10.729NVALID-ORDER-729 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.730NVALID-ORDER-730 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.73INVALID-ORDER-731 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.732NVALID-ORDER-732 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.73\(\text{NVALID-ORDER-733}\) Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.734NVALID-ORDER-734 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.73 INVALID-ORDER-735 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.736NVALID-ORDER-736 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)
10.73¶NVALID-ORDER-737 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
10.73\( \text{NVALID-ORDER-738} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left( C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty \right) \)
10.739NVALID-ORDER-739 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.740NVALID-ORDER-740 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
10.74INVALID-ORDER-741 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
10.742NVALID-ORDER-742 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.74BNVALID-ORDER-743 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.74\(\text{INVALID-ORDER-744}\) Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
10.745NVALID-ORDER-745 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.746NVALID-ORDER-746 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right) \dots
                                                                            \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                             \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \, \infty, \, \infty, \, R_4, \, R_5 + \frac{1}{C_5 s}, \, \infty\right)
                                                                            \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                             \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) \dots
                                                                             \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
10.752NVALID-ORDER-752 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.75\( \text{NVALID-ORDER-753} \( Z(s) = \left( \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \) \infty, \, \infty, \, \text{R4}, \quad \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \quad \infty \)
                                                                              \left( \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \, \infty, \, \infty, \, R_4, \, \frac{R_5 \left( C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \, \infty \right)
 10.754NVALID-ORDER-754 Z(s) =
                                                                             \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{1}{C_4s}, R_5, \infty\right) \dots \dots
                                                                             \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \, \infty, \, \infty, \, \frac{1}{C_4 s}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty\right)
                                                                            \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right) ...
                                                                             \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right) \dots
                                                                            \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) . . .
10.76 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, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right) \dots
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10.76INVALID-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, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                   \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; \infty, \; \infty, \; \frac{1}{C_4 s}, \; \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \; \infty
                                                                                                                \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right) .....
  10.76 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, \, \infty, \, \frac{R_4}{C_4 R_4 s + 1}, \, \frac{1}{C_5 s}, \, \infty\right)
                                                                                                                 \left( \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \, \infty, \, \infty, \, \frac{R_4}{C_4 R_4 s + 1}, \, \frac{R_5}{C_5 R_5 s + 1}, \, \infty \right)
                                                                                                                  \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{R_4}{C_4R_4s+1}, R_5+\frac{1}{C_5s}, \infty\right)
                                                                                                                 \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_{58}}, \infty\right)
 10.769NVALID-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, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                               \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                 \left(rac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\;\infty,\;\infty,\;rac{R_4}{C_4R_4s+1},\;rac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5},\;\infty
ight)
                                                                                                                 \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                   \frac{L_1R_1s}{C_1L_1R_1s^2 + L_1s + R_1}, \ \infty, \ \infty, \ \frac{R_4}{C_4R_4s + 1}, \ \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1},
 10.77\(\text{INVALID-ORDER-774}\(Z(s) = \left(\frac{L_1 R_1 s}{C_2 L_1 R_1 s^2 + L_2 s + R_3}\), \infty, \inf
                                                                                                                 \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) \dots
                                                                                                                 \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                 \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                 \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right) ...
                                                                                                                \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                               \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
10.78\(\text{2NVALID-ORDER-782}\) Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                   \left( rac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; \infty, \; \infty, \; R_4 + rac{1}{C_4 s}, \; rac{R_5 \left( C_5 L_5 s^2 + 1 
ight)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \; \infty 
ight)
 10.78BNVALID-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, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
 10.78 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, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right) \dots
                                                                                                                 \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                   \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty
                                                                                                                 \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+\frac{1}{C_4s}, L_5s+\frac{1}{C_5s}, \infty\right)
                                                                                                                \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                 \left( \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \, \infty, \, \infty, \, L_4 s + \frac{1}{C_4 s}, \, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \, \infty \right)
 10.792NVALID-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, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                  \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+\frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
 10.794NVALID-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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right) . . .
                                                                                                                 \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right) . . .
                                                                                                               \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right) . .
 10.79TNVALID-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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.79\( \text{NVALID-ORDER-798} \) Z(s) = \left( \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty \right)
10.799NVALID-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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
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10.800NVALID-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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                  \left(rac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \; \infty, \; \infty, \; rac{L_4s}{C_4L_4s^2+1}, \; rac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \; \infty
ight)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
                                                                                   \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, R_5, \infty\right)
                                                                                  \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, R_5+\frac{1}{C_5s}, \infty\right)
                                                                                  \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                  \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right).
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                                                   \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty
                                                                                   \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty
                                                                                  \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right) ...
                                                                                  \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                                                                  \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \infty, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s+\frac{1}{C_5s}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                                                                  \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
                                                                                  \left(rac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \; \infty, \; \infty, \; rac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \; rac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \; \infty
ight)
10.82INVALID-ORDER-821 Z(s) =
                                                                                 \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
                                                                                   \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}
10.82BNVALID-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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, R_5+\frac{1}{C_5s}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, L_5s+\frac{1}{C_5s}, \infty\right)
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
10.829NVALID-ORDER-829 Z(s) =
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
10.83 ONVALID-ORDER-830 Z(s) =
                                                                                   \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
                                                                                   \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \ \frac{R_5ig(C_5L_5s^2+1ig)}{C_5L_5s^2+C_5R_5s+1}, \ \infty
 10.83ENVALID-ORDER-833 Z(s) =
                                                                                   \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \; \infty, \; \infty, \; \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \; R_5, \; \infty
10.834NVALID-ORDER-834 Z(s) =
                                                                                   \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)
10.83 INVALID-ORDER-835 Z(s) =
                                                                                   \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right)
10.83 6NVALID-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, \, \infty, \, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \, R_5 + \frac{1}{C_5 s}, \, \infty\right)
10.83TNVALID-ORDER-837 Z(s) = 1
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10.83\&NVALID-ORDER-838 $Z(s) = 1$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2 + L_1s + R_1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, L_5s + \frac{1}{C_5s}, \infty\right) \dots $	11
10.83 9 NVALID-ORDER-839 $Z(s) = 1$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2 + L_1s + R_1}, \infty, \infty, \frac{R_4(C_4L_4s^2 + 1)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)' \dots $	11
10.840NVALID-ORDER-840 $Z(s) = 1$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2 + L_1s + R_1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right) \ldots \ldots \ldots \ldots \ldots \ldots \ldots $	11
10.84 INVALID-ORDER-841 $Z(s) = 1$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2 + L_1s + R_1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right) \dots $	11
10.842NVALID-ORDER-842 $Z(s) = 1$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2 + L_1s + R_1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right) \dots $	11:
10.84 B NVALID-ORDER-843 $Z(s) = 1$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2 + L_1s + R_1}, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)^{'} \dots $	11:
10.844NVALID-ORDER-844 $Z(s)=\left(\rule{0cm}{1.5ex}\right.$	$\left(rac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \; \infty, \; \infty, \; R_4, \; rac{1}{C_5 s}, \; \infty ight)$	115
10.845NVALID-ORDER-845 $Z(s)=\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \frac{R_5}{C_5R_5s + 1}, \infty\right)$	11:
10.84 6 NVALID-ORDER-846 $Z(s) = ($	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, R_5 + \frac{1}{C_5s}, \infty\right)$	11:
10.84 T NVALID-ORDER-847 $Z(s) = ($	$\left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \ \infty, \ \infty, \ R_4, \ L_5s+\frac{1}{C_5s}, \ \infty\right)$	115
10.84\(\mathbb{E}\) NVALID-ORDER-848 $Z(s) = ($	$\left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty \right)'$	115
10.84 9 NVALID-ORDER-849 $Z(s) = ($	$\left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty \right)$	115
10.85 0 NVALID-ORDER-850 $Z(s) = ($	$\left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty \right)$	11:
10.85 I NVALID-ORDER-851 $Z(s) = ($	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty \right)$	113
10.85 2 NVALID-ORDER-852 $Z(s) = 1$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)'$	11
10.85\(\mathbb{B}\) NVALID-ORDER-853 $Z(s) = ($	$\left\langle \frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, \frac{1}{C_4s}, R_5, \infty \right\rangle$	11
10.85#NVALID-ORDER-854 $Z(s) = ($	$\left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty \right)$	11
10.85 INVALID-ORDER-855 $Z(s) = 0$	$\left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty \right)$	11
10.85 6 NVALID-ORDER-856 $Z(s) = 0$	$\left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$	11
10.85TNVALID-ORDER- 857 $Z(s) = ($	$\left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_{4s}}, L_5 s + \frac{1}{C_{5s}}, \infty \right)$	11
10.85 NVALID-ORDER-858 $Z(s) = ($		11
10.85 9 NVALID-ORDER-859 $Z(s) = ($	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ L_5s + R_5 + \frac{1}{C_5s}, \ \infty\right) \ \dots $	11
10.86 0 NVALID-ORDER-860 $Z(s) = ($	$\left(rac{C_1 L_1 s + 1}{C_1 L_1 s^2 + L_1 s + R_1}, \; \infty, \; \infty, \; rac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \; \infty ight) \; \ldots \; $	11
10.86INVALID-ORDER-861 $Z(s) = ($	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \ \infty\right) \dots $	11
	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right) \dots $	
	$\left(\frac{C_1L_1s^2+1}{C_1L_1s^2+L_1s+R_1}, \ \infty, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ R_5, \ \infty\right)$ $\left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ R_5, \ \infty\right)$	
10.80 INVALID ORDER 864 $Z(s) = 1$	$\left(\frac{C_1L_1s^2+1}{C_1L_1s^2+L_1s+R_1}, \; \infty, \; \infty, \; \frac{R_4}{C_4R_4s+1}, \; R_5, \; \infty \right) \; \dots $ $\left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \; \infty, \; \infty, \; \frac{R_4}{C_4R_4s+1}, \; \frac{1}{C_5s}, \; \infty \right) \; \dots $	11.
	$\left(rac{C_1L_1s^2+1}{C_1L_1s^2+L_1s+R_1}, \; \infty, \; \infty, \; rac{R_4}{C_4R_4s+1}, \; rac{R_5}{C_5R_5s+1}, \; \infty ight) \; \ldots \; $	
10.80 IN VALID-ORDER-805 $Z(s) = ($	$\left(rac{C_1L_1s^2+1}{C_1L_1s^2+1}, \infty, \infty, rac{C_5R_5s+1}{C_4R_4s+1}, rac{C_5R_5s+1}{C_5R_5s+1}, \infty ight) \ldots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots$	11
10.80 UNIVALID ODDED 867 $Z(s) = 1$		11
	$\left(\frac{C_1L_1s^2+1}{C_1L_1s^2+1}, \infty, \infty, \frac{C_4R_4s+1}{C_4R_4s+1}, L_5s+\frac{C_5s}{C_5s}, \infty\right)$	
10.800N VALID-ORDER-808 $Z(s) = ($	$\left(\frac{C_1L_1s^2+1}{C_1L_1s^2+L_1s+R_1}, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \frac{1}{C_5L_5s^2+1}, \infty\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	11
10.80 MN VALID-ORDER-809 $Z(s) = ($	$\left(\frac{c_1L_1s^2+L_1s}{c_1L_1s^2+L_1}, \infty, \infty, \frac{R_4}{c_4R_4s+1}, \frac{L_5R_5s}{c_5s}, \infty\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	118
10.87 IN VALID-ORDER-871 $Z(s) = ($	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right) $	
	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{R_4}{C_4R_4s + 1}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right)'$	
10.87 B NVALID-ORDER-873 $Z(s) = ($	$\left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \ \infty, \ \infty, \ R_4+\frac{1}{C_4s}, \ R_5, \ \infty\right)$	11
10.87#NVALID-ORDER-874 $Z(s)=($	$\left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, R_4+\frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$	11
10.875NVALID-ORDER-875 $Z(s)=\langle$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s + 1}, \ \infty\right) \dots $	11

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10.876NVALID-ORDER-876 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, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                     \frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty
10.87INVALID-ORDER-877 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
10.878NVALID-ORDER-878 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
10.879NVALID-ORDER-879 Z(s) =
                                                                     \frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \ \infty
10.88 ONVALID-ORDER-880 Z(s) =
                                                                     \frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1},
10.88INVALID-ORDER-881 Z(s) =
                                                                     \frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \ \infty, \ \infty, \ R_4+\frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty
10.882NVALID-ORDER-882 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+\frac{1}{C_4s}, R_5, \infty\right)
10.88BNVALID-ORDER-883 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)
10.884NVALID-ORDER-884 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s + 1}, \infty\right)
10.885NVALID-ORDER-885 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+\frac{1}{C_4s}, R_5+\frac{1}{C_5s}, \infty\right)
10.88 6NVALID-ORDER-886 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)
10.88TNVALID-ORDER-887 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+\frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
10.88NVALID-ORDER-888 Z(s) =
                                                                     \frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+\frac{1}{C_4s}, L_5s+R_5+\frac{1}{C_5s}, \infty
10.88 9NVALID-ORDER-889 Z(s) =
                                                                     \frac{c_{1}L_{1}R_{1}s^{2}+L_{1}s+R_{1}}{C_{1}L_{1}s^{2}+1}, \infty, \infty, L_{4}s+\frac{1}{C_{4}s}, \frac{L_{5}R_{5}s}{C_{5}L_{5}R_{5}s^{2}+L_{5}s+R_{5}}, \infty
10.89 ONVALID-ORDER-890 Z(s) =
                                                                   \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+\frac{1}{C_4s}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
10.89INVALID-ORDER-891 Z(s) =
                                                                     \frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+\frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty
10.892NVALID-ORDER-892 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, R_5, \infty\right)
10.89BNVALID-ORDER-893 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{1}{C_5s}, \ \infty\right)
10.894NVALID-ORDER-894 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)
10.895NVALID-ORDER-895 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, R_5 + \frac{1}{C_{5s}}, \infty\right)
10.89 6NVALID-ORDER-896 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, L_5s + \frac{1}{C_5s}, \infty\right)
10.89TNVALID-ORDER-897 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)
10.898NVALID-ORDER-898 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
10.89 NVALID-ORDER-899 Z(s) =
                                                                     \frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty
10.90 ONVALID-ORDER-900 Z(s) =
                                                                     \frac{c_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty
10.90INVALID-ORDER-901 Z(s) =
                                                                     \frac{C_{1}L_{1}R_{1}s^{2}+L_{1}s+R_{1}}{C_{1}L_{1}s^{2}+1}, \infty, \infty, \frac{L_{4}s}{C_{4}L_{4}s^{2}+1}, \frac{R_{5}(C_{5}L_{5}s^{2}+1)}{C_{5}L_{5}s^{2}+C_{5}R_{5}s+1},
10.902NVALID-ORDER-902 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, R_5, \infty\right)
10.90BNVALID-ORDER-903 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)
10.904NVALID-ORDER-904 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s + 1}, \infty\right)
10.90 NVALID-ORDER-905 Z(s) =
                                                                     \frac{C_1L_1R_1s^2 + L_1s + R_1}{C_2L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty
10.90 6NVALID-ORDER-906 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)
10.90TNVALID-ORDER-907 Z(s) =
                                                                     \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
10.908NVALID-ORDER-908 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
10.909NVALID-ORDER-909 Z(s) =
                                                                    \left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
10.91 ONVALID-ORDER-910 Z(s) =
                                                                    \frac{\sum_{C_1L_1R_1s^2+L_1s+R_1}}{C_1L_1s^2+1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty
10.91INVALID-ORDER-911 Z(s) =
                                                                     \frac{C_{1}L_{1}R_{1}s^{2}+L_{1}s+R_{1}}{C_{1}L_{1}s^{2}+1}, \infty, \infty, L_{4}s+R_{4}+\frac{1}{C_{4}s}, \frac{R_{5}\left(C_{5}L_{5}s^{2}+1\right)}{C_{5}L_{5}s^{2}+C_{5}R_{5}s+1}, \infty
10.912NVALID-ORDER-912 Z(s) =
                                                                     \frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ R_5, \ \infty
10.91 NVALID-ORDER-913 Z(s) =
10.914NVALID-ORDER-914 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{1}{C_5s}, \infty\right)
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$10.91 \text{5NVALID-ORDER-915} \ 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, \ \infty, \ \frac{L_4 R_4 s}{C_5 R_5 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \dots $	20
$10.91 \text{ 6NVALID-ORDER-916 } 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, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right) \dots $	20
$10.91\text{TNVALID-ORDER-917} \ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \ L_5s + \frac{1}{C_5s}, \ \infty\right) \dots $	20
$10.91 \text{\&NVALID-ORDER-918 } 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, \ \infty, \ \frac{L_4 R_4 s}{C_5 L_5 s^2 + 1}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty\right) \dots $	20
10.91 9 NVALID-ORDER-919 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$	20
$10.92 \text{@NVALID-ORDER-920 } 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, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty \right) $	20
10.92INVALID-ORDER-921 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$	20
$10.922 \text{NVALID-ORDER-922} \ 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, \ \infty, \ \frac{L_4 R_4 s}{C_5 L_5 k^2 + L_4 s + R_4}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 k^2 + C_5 R_5 s + 1}, \ \infty\right) \ \dots $	20
$10.92 \text{ENVALID-ORDER-923} \ 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, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ R_5, \ \infty\right) \dots $	21
$10.924\text{NVALID-ORDER-924} \ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \ \frac{1}{C_5s}, \ \infty\right) \dots $	21
$10.925 \text{NVALID-ORDER-925} \ 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, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty \right) $	21
$10.92 \text{ (INVALID-ORDER-926 } 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, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right) $	21
$10.92\text{FNVALID-ORDER-}927 \ 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, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ L_5 s + \frac{1}{C_5 s}, \ \infty\right) \dots $	
$10.92\$NVALID-ORDER-928 \ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \ \frac{L_5s}{C_5L_5s^2 + 1}, \ \infty\right) $	
10.92 NVALID-ORDER-929 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$	
$10.93 \text{@NVALID-ORDER-930 } 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, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) $	
$10.93INVALID-ORDER-931 \ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \ \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \ \infty\right) $	21
$10.932\text{NVALID-ORDER-}932\ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1},\ \infty,\ \infty,\ \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1},\ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1},\ \infty\right) \dots $	21
$10.93 \mathbb{R} \text{NVALID-ORDER-933 } 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, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ R_5, \ \infty \right) $	22
$10.93 \text{ INVALID-ORDER-} 934 \ 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, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{1}{C_5 s}, \ \infty \right) \dots $	22
$10.935 \text{NVALID-ORDER-} 935 \ 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, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{R_5}{C_5 R_5 s + 1}, \ \infty\right) \ \dots $	22
$10.93 \text{ (INVALID-ORDER-936 } 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, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ R_5 + \frac{1}{C_5 s}, \ \infty\right) $	22
$10.93\text{INVALID-ORDER-937 } Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \ L_5s + \frac{1}{C_5s}, \ \infty\right) \ \dots $	22
$10.93 \$NVALID-ORDER-938 \ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \ \frac{L_5s}{C_5L_5s^2 + 1}, \ \infty\right) \dots $	22
$10.93 \text{ (NVALID-ORDER-939 } 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, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ L_5 s + R_5 + \frac{1}{C_5 s}, \ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	22
$10.94 \text{@NVALID-ORDER-940 } 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, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty\right) \dots $	22
$10.94 \text{INVALID-ORDER-941 } 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, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \ \infty\right) \dots $	22
$10.942\text{NVALID-ORDER-942} \ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \ \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \ \infty\right) $	23
$10.94 \text{BNVALID-ORDER-943} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ \frac{1}{C_5s}, \ \infty\right) $	23
$10.94 \text{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, \ \infty, \ R_4, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right) \ \dots $	23
$10.945 \text{NVALID-ORDER-945} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ R_5 + \frac{1}{C_5s}, \ \infty\right) \dots $	23
$10.94 \text{ 6NVALID-ORDER-946 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ L_5s+\frac{1}{C_5s}, \ \infty\right) \ \dots $	23
$10.94\text{ 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, \ \infty, \ R_4, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right) $	23
$10.94 \text{ENVALID-ORDER-} 948 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	23

10.94 9 NVALID-ORDER-949 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right) \ \dots \ $	12:
10.95 0 NVALID-ORDER-950 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right) \ \dots \ $	123
10.95INVALID-ORDER-951 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right) $	124
10.95 2 NVALID-ORDER-952 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ R_5, \ \infty\right) $	124
10.95 & NVALID-ORDER-953 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right) \ \dots \ $	124
10.954NVALID-ORDER-954 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right) $	124
10.95 NVALID-ORDER-955 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ R_5+\frac{1}{C_5s}, \ \infty\right) \ \dots \ $	L24
10.95 6 NVALID-ORDER-956 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ L_5s+\frac{1}{C_5s}, \ \infty\right) \dots \qquad 1$	L24
10.95 TNVALID-ORDER-957 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	L24
10.95&NVALID-ORDER-958 $Z(s) =$		L24
10.95 9 NVALID-ORDER-959 $Z(s) =$	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	L24
10.96 0 NVALID-ORDER-960 $Z(s) =$		12
10.961NVALID-ORDER-961 $Z(s) =$		12
10.962NVALID-ORDER-962 $Z(s) =$		12
10.96 2 NVALID-ORDER-963 $Z(s) =$		12
10.964NVALID-ORDER-964 $Z(s) =$	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	12
10.96 NVALID-ORDER-965 $Z(s) =$	$\begin{pmatrix} c_1 u_1 s + c_1 u_1 s + 1 & \cdots & c_4 u_4 s + 1 & \cdots & c_5 s \end{pmatrix}$	12
10.96 NVALID-ORDER-966 $Z(s) =$	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	
10.96 T NVALID-ORDER-967 $Z(s) =$	$\left(C_1D_{18} + C_1R_{18}+1, \cdots, C_5D_{58} + 1, \cdots\right)$	
10.96\notativalID-ORDER-968 $Z(s) =$	$\left(C_1D_1s^{-1}C_1R_1s^{-1},\cdots,C_4R_4s^{-1},\cdots,C_5s^{-1}\right)$	12
10.96 9 NVALID-ORDER-969 $Z(s) =$	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	
10.97 0 NVALID-ORDER-970 $Z(s) =$	$\left(C_1 L_{18} + C_1 R_{18} + 1 + C_4 R_{48} + 1 + C_5 L_{58} + 1 + C_5 L$	
10.97INVALID-ORDER-971 $Z(s) =$	$\left(C_{1}L_{1}s^{2} + C_{1}n_{1}s + 1 - C_{2}L_{2}s^{2} + C_{3}n_{3}s + 1 - C_{2}L_{3}s^{2} + C_{3}n_{3}s + 1 - C_{3}L_{3}s^{2} + C_{3}n_$	
10.972NVALID-ORDER-972 $Z(s) =$		
10.97 B NVALID-ORDER-973 $Z(s) =$		
10.97#NVALID-ORDER-974 $Z(s) =$	$\begin{pmatrix} C_1D_1s & +C_1n_1s+1 & \cdots & C_4s & C_5n_5s+1 & \end{pmatrix}$	
10.97 NVALID-ORDER-975 $Z(s) =$		
10.976NVALID-ORDER-976 $Z(s) =$	$\begin{pmatrix} C_1D_1s + C_1D_1s + 1 & \cdots & C_4s & \cdots & C_5s \end{pmatrix}$	
10.97 INVALID-ORDER-977 $Z(s) =$	$\int \mathcal{O}_1 \mathcal{D}_1 \mathcal{O}_1 \mathcal{O}_1 \mathcal{O}_1 \mathcal{O}_1 \mathcal{O}_2 \mathcal{O}_3 \mathcal{O}_3 \mathcal{O}_4 \mathcal{O}_4 \mathcal{O}_5 \mathcalOO_5 \mathcalOO_5$	126
10.97&NVALID-ORDER-978 $Z(s) =$		
10.97 9 NVALID-ORDER-979 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4+\frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	12

$10.98 \text{ @NVALID-ORDER-980 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right) \dots $	127
$10.98 \text{INVALID-ORDER-981} \ 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, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \frac{R_5 \left(C_5 L_5 s^2 + 1 \right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \ \infty \right) \right) \ \dots $	127
10.98 2 NVALID-ORDER-982 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, R_5, \infty\right)$. 127
$10.98 \text{ENVALID-ORDER-983} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+\frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right) \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots $. 127
$10.98 \text{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, \ \infty, \ L_4s+\frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right) \ \dots \ $. 127
$10.98 \text{INVALID-ORDER-985} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+\frac{1}{C_4s}, \ R_5+\frac{1}{C_5s}, \ \infty\right) \ldots \qquad \ldots$. 127
$C_1L_1s^2+C_1R_1s+1$. 127
$10.98 \text{INVALID-ORDER-987} \ 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, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{L_5 s}{C_5 L_5 s^2 + 1}, \ \infty \right) \qquad . $. 128
$10.98 \text{ENVALID-ORDER-988} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+\frac{1}{C_4s}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)$. 128
$10.98 \mathfrak{P} \text{NVALID-ORDER-989} \ 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, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \ \infty \right) \ \dots $. 128
$10.99 \text{ 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, \ \infty, \ L_4s+\frac{1}{C_4s}, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right) \ \dots $. 128
$10.99 \text{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, \ \infty, \ L_4s+\frac{1}{C_4s}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right) $. 128
$10.992\text{NVALID-ORDER-992} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ R_5, \ \infty\right) $. 128
$10.99 \text{ENVALID-ORDER-993} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{1}{C_5s}, \ \infty\right) \ \dots $. 128
$10.994\text{NVALID-ORDER-994} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right) \qquad . $. 128
$10.99 \text{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, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ R_5 + \frac{1}{C_5s}, \ \infty\right) \ \dots $. 128
$10.99 \text{ (INVALID-ORDER-996 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ L_5s+\frac{1}{C_5s}, \ \infty\right) \dots $. 129
$C_1L_1s^2+C_1R_1s+1$ $C_2L_2s^2+1$ $C_3L_2s^2+1$ $C_3L_2s^2+1$ $C_3L_3s^2+1$ $C_3L_3s^2+1$ $C_3L_3s^2+1$ $C_3L_3s^2+1$ $C_3L_3s^2+1$. 129
$10.99 \text{\&NVALID-ORDER-998 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right) $	129
$10.99 \text{ (NVALID-ORDER-999 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right) $	129
$10.100 \text{NVALID-ORDER-} 1000 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right) \ \dots $	
$10.100 \text{NVALID-ORDER-} 1001 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right) \qquad . $	129
$10.100 \times \text{VALID-ORDER-} 1002 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ R_5, \ \infty\right) \ \dots $	129
$10.100 \text{NVALID-ORDER-} 1003 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ \frac{1}{C_5s}, \ \infty\right) \qquad . $	
$10.100 \text{MVALID-ORDER-} 1004 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right) $	
$10.100 \text{NVALID-ORDER-} 1005 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ R_5+\frac{1}{C_5s}, \ \infty\right) \qquad . $	
$10.100 \text{MVALID-ORDER-} 1006 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ L_5s+\frac{1}{C_5s}, \ \infty\right) \ \dots $	
$10.100 \text{NVALID-ORDER-} 1007 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ \frac{L_5s}{C_5L_5s^2+1}, \ \infty\right) \qquad . $	
$10.100 \text{NVALID-ORDER-} 1008 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right) \dots \dots$	
$10.100 \text{NVALID-ORDER-} 1009 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right) \qquad . $	
$10.10 \text{INVALID-ORDER-1010 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right) \dots $	130

10.10 1 NVALID-ORDER-1011 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right.$	$L_4s + R_4 + \frac{1}{C_4s}, \ \overline{C}$	$\frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty$	130
ווייס אונד אונדי בייס אונדי אונדי בייס אונדיים בייס בייס בייס בייס בייס בייס בייס ב	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4},$	R_5, ∞)	130
10.10 13 VALID-ORDER-1013 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4},$	$\frac{1}{C_5s}$, ∞	130
10.10INVALID-ORDER-1014 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right.$	$\frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4},$	$\frac{R_5}{C_5R_5s+1}, \infty$	13
10.10 IN VALID-ORDER-1015 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4},$	$R_5 + \frac{1}{C_5 s}, \infty$	13
10.10 IN VALID-ORDER-1016 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4},$	$L_5s + \frac{1}{C_5s}, \infty$	13
10.10 IN VALID-ORDER-1017 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{L_4R_4s}{C_4L_4R_4s^2\!+\!L_4s\!+\!R_4},$	$\frac{L_5s}{C_5L_5s^2+1}, \infty$	13
10.10 1 NVALID-ORDER-1018 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4},$	$L_5s + R_5 + \frac{1}{C_5s}, \infty$	13
10.10 1N VALID-ORDER-1019 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{L_4R_4s}{C_4L_4R_4s^2\!+\!L_4s\!+\!R_4},$	$\frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty $	13
10.10 2N VALID-ORDER-1020 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$		$_{\cdot}$ /	13
10.10 2N VALID-ORDER-1021 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{L_4R_4s}{C_4L_4R_4s^2\!+\!L_4s\!+\!R_4},$	$\frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty $	13
10.10 און VALID-ORDER-1022 בוויס און	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \right.$	$\frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1},$	R_5, ∞	.3
וווס בייס אוויס אוויס אוויס בייס אוויס בייס אוויס אוויס בייס אוויס בייס אוויס בייס אוויס בייס בייס בייס בייס בייס בייס בייס	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\tfrac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1},$	$\left(\frac{1}{C_5s}, \infty\right)$.3:
10.10 2N VALID-ORDER-1024 $Z(s)=$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \right.$	$\tfrac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1},$	$\frac{R_5}{C_5R_5s+1}, \infty$	133
10.10 2N VALID-ORDER-1025 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1},$	$R_5 + \frac{1}{C_5 s}, \infty$	133
10.10 2N VALID-ORDER-1026 $Z(s) =$	CILIS CINISTI		\mathcal{I}	133
10.10צא VALID-ORDER-1027 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1},$	$\frac{L_5s}{C_5\overline{L}_5s^2+1}, \infty$	133
וווס באט און	C1L1s +C1II1s+1			133
10.10 PN VALID-ORDER-1029 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$			133
10.10 BN VALID-ORDER-1030 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$			13:
10.10 BN VALID-ORDER-1031 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$			13:
ווואס VALID-ORDER-1032 בווואס אווים אווים אווים בוווים וווים וווים אווים בוווים וווים וווים וווים בוווים וווים בוווים וווים בוווים בווווים בוווים בוווים בוווים בוווים בוווים בוווים בוווים בוווים בווווים בוווים בוווים בוווים בוווים בוווים בוווים בוווים בוווים בווווים בוווים בוווים בוווים בוווים בוווים בוווים בוווים בוווים בווווים בוווים בוווי	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$		<i>'</i> .	.33
$10.10 \text{BNVALID-ORDER-} 1033 \ Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$.33
10.10 BM VALID-ORDER-1034 $Z(s)=$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$.33
10.10 BN VALID-ORDER-1035 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \ F_6$	$R_5 + \frac{1}{C_5 s}, \infty$	13
10.10 BN VALID-ORDER-1036 $Z(s) =$	C1L1s +C1II1s+1			13
10.10 BN VALID-ORDER-1037 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$			13
10.10 BN VALID-ORDER-1038 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$			13
10.10 BN VALID-ORDER-1039 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$		$\frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty$	13
10.10 4N VALID-ORDER-1040 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$		$\frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty$	13
10.104NVALID-ORDER-1041 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \right)$	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \ \ \overline{C_4L_4s^2+C_4R_4s+1}$	$\frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty$	134

11 PolynomialError

1 Examined
$$H(z)$$
 for CG TIA simple Z1 Z4 Z5: $\frac{Z_1Z_4Z_5g_m-Z_1Z_4}{2Z_1Z_4g_m+2Z_1Z_5g_m+2Z_1+Z_4+2Z_5}$

$$H(z) = \frac{Z_1 Z_4 Z_5 g_m - Z_1 Z_4}{2Z_1 Z_4 g_m + 2Z_1 Z_5 g_m + 2Z_1 + Z_4 + 2Z_5}$$

2 HP

3 BP

3.1 BP-1
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

$$H(s) = \frac{s \left(L_4 R_1 R_5 g_m - L_4 R_1 \right)}{2 R_1 R_5 g_m + 2 R_1 + 2 R_5 + s^2 \left(2 C_4 L_4 R_1 R_5 g_m + 2 C_4 L_4 R_1 + 2 C_4 L_4 R_5 \right) + s \left(2 L_4 R_1 g_m + L_4 \right)}$$

Parameters:

Q:
$$\frac{2C_4R_1R_5g_m\sqrt{\frac{1}{C_4L_4}}+2C_4R_1\sqrt{\frac{1}{C_4L_4}}+2C_4R_5\sqrt{\frac{1}{C_4L_4}}}{2R_1g_m+1}$$
 wo:
$$\sqrt{\frac{1}{C_4L_4}}$$
 bandwidth:
$$\frac{\sqrt{\frac{1}{C_4L_4}}(2R_1g_m+1)}{2C_4R_1R_5g_m\sqrt{\frac{1}{C_4L_4}}+2C_4R_1\sqrt{\frac{1}{C_4L_4}}+2C_4R_5\sqrt{\frac{1}{C_4L_4}}}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{R_1R_5g_m-R_1}{2R_1g_m+1}$$
 Qz: None Wz: None

3.2 BP-2
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$$

$$H(s) = \frac{s \left(L_4 R_1 R_4 R_5 g_m - L_4 R_1 R_4 \right)}{2 R_1 R_4 R_5 g_m + 2 R_1 R_4 + 2 R_4 R_5 + s^2 \left(2 C_4 L_4 R_1 R_4 R_5 g_m + 2 C_4 L_4 R_1 R_4 + 2 C_4 L_4 R_4 R_5 \right) + s \left(2 L_4 R_1 R_4 g_m + 2 L_4 R_1 R_5 g_m + 2 L_4 R_1 + L_4 R_4 + 2 L_4 R_5 \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{2C_4R_1R_4R_5g_m\sqrt{\frac{1}{C_4L_4}}+2C_4R_1R_4\sqrt{\frac{1}{C_4L_4}}+2C_4R_4R_5\sqrt{\frac{1}{C_4L_4}}}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_4L_4}}(2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5)}{2C_4R_1R_4R_5g_m\sqrt{\frac{1}{C_4L_4}}+2C_4R_1R_4\sqrt{\frac{1}{C_4L_4}}+2C_4R_4R_5\sqrt{\frac{1}{C_4L_4}}} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \text{None} \end{array}$$

3.3 BP-3
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{s(L_1R_5g_m - L_1)}{s^2(2C_4L_1R_5g_m + 2C_4L_1) + s(2C_4R_5 + 2L_1g_m) + 1}$$

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

```
K-LP: 0

K-HP: 0

K-BP: \frac{L_1R_5g_m-L_1}{2C_4R_5+2L_1g_m}

Qz: None

Wz: None
```

3.4 BP-4
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$$

$$H(s) = \frac{s \left(L_1 R_4 R_5 g_m - L_1 R_4 \right)}{R_4 + 2 R_5 + s^2 \left(2 C_4 L_1 R_4 R_5 g_m + 2 C_4 L_1 R_4 \right) + s \left(2 C_4 R_4 R_5 + 2 L_1 R_4 g_m + 2 L_1 R_5 g_m + 2 L_1 \right)}$$

Parameters:

$$\begin{array}{c} \text{Q:} & \frac{\sqrt{2}C_4L_1R_4R_5g_m\sqrt{\frac{R_4}{C_4L_1R_4}} + \frac{2R_5}{C_4L_1R_4}\sqrt{\frac{R_4}{C_4L_1R_4}\sqrt{\frac{R_4}{C_4L_1R_4}} + \frac{2R_5}{C_4L_1R_4S_5g_m + C_4L_1R_4}}}{2C_4R_4R_5g_m + 2L_1R_5g_m + 2L_1} \\ \text{wo:} & \sqrt{\frac{R_4 + 2R_5}{2C_4L_1R_4R_5g_m + 2C_4L_1R_4}} \\ \text{bandwidth:} & \frac{\sqrt{\frac{R_4 + 2R_5}{2C_4L_1R_4}}}{\sqrt{2}C_4L_1R_4R_5g_m + 2C_4L_1R_4}} (2C_4R_4R_5 + 2L_1R_4g_m + 2L_1R_5g_m + 2L_1)}{\sqrt{2}C_4L_1R_4R_5g_m + 2C_4L_1R_4}} \\ \text{K-LP:} & 0 \\ \text{K-HP:} & 0 \\ \text{K-BP:} & \frac{L_1R_4R_5g_m\sqrt{\frac{2R_5}{C_4L_1R_4R_5g_m + C_4L_1R_4}} + \sqrt{2}C_4L_1R_4\sqrt{\frac{2R_5}{C_4L_1R_4R_5g_m + C_4L_1R_4}} + \sqrt{2}C_4L_1R_4\sqrt{\frac{2R_5}{C_4L_1R_4R_5g_m + C_4L_1R_4}} + \sqrt{2}C_4L_1R_4\sqrt{\frac{2R_5}{C_4L_1R_4R_5g_m + C_4L_1R_4}} + \sqrt{2}C_4C_4R_4\sqrt{\frac{2R_5}{C_4L_1R_4R_5g_m + C_4L_1R_4}} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4 + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4 + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4 + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_4} + \sqrt{2}C_4C_4R_4R_5g_m + C_4L_1R_$$

3.5 BP-5
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{s (L_1 R_4 R_5 g_m - L_1 R_4)}{R_4 + 2R_5 + s^2 (C_1 L_1 R_4 + 2C_1 L_1 R_5) + s (2L_1 R_4 g_m + 2L_1 R_5 g_m + 2L_1)}$$

Parameters:

Wz: None

$$\begin{array}{l} \text{Q:} \ \frac{C_1R_4\sqrt{\frac{1}{C_1L_1}}+2C_1R_5\sqrt{\frac{1}{C_1L_1}}}{2R_4g_m+2R_5g_m+2} \\ \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_1L_1}}(2R_4g_m+2R_5g_m+2)}{C_1R_4\sqrt{\frac{1}{C_1L_1}}+2C_1R_5\sqrt{\frac{1}{C_1L_1}}} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2} \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \text{None} \end{array}$$

3.6 BP-6
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{s \left(L_1 R_1 R_4 R_5 g_m - L_1 R_1 R_4 \right)}{R_1 R_4 + 2 R_1 R_5 + s^2 \left(C_1 L_1 R_1 R_4 + 2 C_1 L_1 R_1 R_5 \right) + s \left(2 L_1 R_1 R_4 g_m + 2 L_1 R_1 R_5 g_m + 2 L_1 R_1 + L_1 R_4 + 2 L_1 R_5 \right)}$$

$$\begin{array}{l} \text{Q: } \frac{C_1R_1R_4\sqrt{\frac{1}{C_1L_1}}+2C_1R_1R_5\sqrt{\frac{1}{C_1L_1}}}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{wo: } \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth: } \frac{\sqrt{\frac{1}{C_1L_1}}(2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5)}{C_1R_1R_4\sqrt{\frac{1}{C_1L_1}}+2C_1R_1R_5\sqrt{\frac{1}{C_1L_1}}} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{Qz: None} \\ \text{Wz: None} \end{array}$$

4 LP

4.1 LP-1
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$$

Parameters:

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

4.2 LP-2
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$$

Parameters:

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

4.3 LP-3
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$$

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

$$T(s) = \frac{R_5 g_m - 1}{2C_1 C_4 R_5 s^2 + 2g_m + s (C_1 + 2C_4 R_5 g_m + 2C_4)}$$

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

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

4.4 LP-4
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$$

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

Parameters:

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

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

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

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

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

$$K\text{-BP:} \quad 0$$

$$Qz: \quad \text{None}$$

$$Wz: \quad \text{None}$$

5 BS

5.1 BS-1
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^2 \left(C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1 \right)}{2R_1 g_m + s^2 \left(2C_4 L_4 R_1 g_m + C_4 L_4 \right) + s \left(2C_4 R_1 R_5 g_m + 2C_4 R_1 + 2C_4 R_5 \right) + 1}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{2L_4R_1g_m\sqrt{\frac{1}{C_4L_4}}+L_4\sqrt{\frac{1}{C_4L_4}}}{2R_1R_5g_m+2R_1+2R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_4L_4}}(2R_1R_5g_m+2R_1+2R_5)}{2L_4R_1g_m\sqrt{\frac{1}{C_4L_4}}+L_4\sqrt{\frac{1}{C_4L_4}}} \\ \text{K-LP:} \ \frac{R_1R_5g_m-R_1}{2R_1g_m+1} \\ \text{K-HP:} \ \frac{R_1R_5g_m-R_1}{2R_1g_m+1} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

5.2 BS-2
$$Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$$

$$H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^2 \left(C_4 L_4 R_1 R_4 R_5 g_m - C_4 L_4 R_1 R_4 \right)}{2 R_1 R_4 g_m + 2 R_1 R_5 g_m + 2 R_1 + R_4 + 2 R_5 + s^2 \left(2 C_4 L_4 R_1 R_4 g_m + 2 C_4 L_4 R_1 R_5 g_m + 2 C_4 L_4 R_1 + C_4 L_4 R_4 + 2 C_4 L_4 R_5 \right) + s \left(2 C_4 R_1 R_4 R_5 g_m + 2 C_4 R_1 R_4 + 2 C_4 R_4 R_5 \right)}$$

$$\begin{array}{c} \text{Q:} \ \frac{2L_4R_1R_4g_m\sqrt{\frac{1}{C_4L_4}}+2L_4R_1R_5g_m\sqrt{\frac{1}{C_4L_4}}+2L_4R_1\sqrt{\frac{1}{C_4L_4}}+L_4R_4\sqrt{\frac{1}{C_4L_4}}+2L_4R_5\sqrt{\frac{1}{C_4L_4}}}{2R_1R_4R_5g_m+2R_1R_4+2R_4R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_4L_4}}(2R_1R_4R_5g_m+2R_1R_4+2R_4R_5)}{2L_4R_1R_4g_m\sqrt{\frac{1}{C_4L_4}}+2L_4R_1R_5g_m\sqrt{\frac{1}{C_4L_4}}+2L_4R_1\sqrt{\frac{1}{C_4L_4}}+L_4R_4\sqrt{\frac{1}{C_4L_4}}+2L_4R_5\sqrt{\frac{1}{C_4L_4}}} \\ \text{K-LP:} \ \frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{K-HP:} \ \frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

5.3 BS-3
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_4 R_5 g_m - R_4 + s^2 \left(C_1 L_1 R_4 R_5 g_m - C_1 L_1 R_4 \right)}{2 R_4 g_m + 2 R_5 g_m + s^2 \left(2 C_1 L_1 R_4 g_m + 2 C_1 L_1 R_5 g_m + 2 C_1 L_1 \right) + s \left(C_1 R_4 + 2 C_1 R_5 \right) + 2}$$

Parameters:

$$\begin{array}{c} \text{Q:} \ \frac{2L_1R_4g_m\sqrt{\frac{1}{C_1L_1}}+2L_1R_5g_m\sqrt{\frac{1}{C_1L_1}}+2L_1\sqrt{\frac{1}{C_1L_1}}}{R_4+2R_5} \\ \text{Wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_1L_1}}(R_4+2R_5)}{2L_1R_4g_m\sqrt{\frac{1}{C_1L_1}}+2L_1R_5g_m\sqrt{\frac{1}{C_1L_1}}+2L_1\sqrt{\frac{1}{C_1L_1}}} \\ \text{K-LP:} \ \frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2} \\ \text{K-HP:} \ \frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{array}$$

5.4 BS-4
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_1R_4R_5g_m - R_1R_4 + s^2\left(C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^2\left(2C_1L_1R_1R_4g_m + 2C_1L_1R_1S_g_m + 2C_1L_1R_1 + C_1L_1R_4 + 2C_1L_1S_5\right) + s\left(C_1R_1R_4 + 2C_1R_1S_5\right)}$$

Parameters:

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

6 GE

6.1 GE-1
$$Z(s) = \left(R_1, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 L_5 R_1 R_4 g_m s^2 - C_5 R_1 R_4 s + R_1 R_4 g_m}{2 R_1 g_m + s^2 \left(2 C_5 L_5 R_1 g_m + 2 C_5 L_5\right) + s \left(2 C_5 R_1 R_4 g_m + 2 C_5 R_1 + C_5 R_4\right) + 2}$$

$$\begin{aligned} & \text{Q:} \ \frac{2L_5R_1g_m\sqrt{\frac{1}{C_5L_5}} + 2L_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_4g_m + 2R_1 + R_4} \\ & \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_5L_5}}(2R_1R_4g_m + 2R_1 + R_4)}{2L_5R_1g_m\sqrt{\frac{1}{C_5L_5}} + 2L_5\sqrt{\frac{1}{C_5L_5}}} \\ & \text{K-LP:} \ \frac{R_1R_4g_m}{2R_1g_m + 2} \\ & \text{K-HP:} \ \frac{R_1R_4g_m}{2R_1g_m + 2} \\ & \text{K-BP:} \ -\frac{R_1R_4}{2R_1R_4g_m + 2R_1 + R_4} \\ & \text{Qz:} \ -L_5g_m\sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.2 GE-2
$$Z(s) = \left(R_1, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5 L_5 R_1 R_4 s^2 + L_5 R_1 R_4 g_m s - R_1 R_4}{2R_1 R_4 g_m + 2R_1 + R_4 + s^2 (2C_5 L_5 R_1 R_4 g_m + 2C_5 L_5 R_1 + C_5 L_5 R_4) + s (2L_5 R_1 g_m + 2L_5)}$$

$$\begin{aligned} & \text{Q:} \ \frac{2C_5R_1R_4g_m\sqrt{\frac{1}{C_5L_5}} + 2C_5R_1\sqrt{\frac{1}{C_5L_5}} + C_5R_4\sqrt{\frac{1}{C_5L_5}}}{2R_1g_m + 2} \\ & \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_5L_5}}(2R_1g_m + 2)}{2C_5R_1R_4g_m\sqrt{\frac{1}{C_5L_5}} + 2C_5R_1\sqrt{\frac{1}{C_5L_5}} + C_5R_4\sqrt{\frac{1}{C_5L_5}}} \\ & \text{K-LP:} \ -\frac{R_1R_4}{2R_1R_4g_m + 2R_1 + R_4} \\ & \text{K-HP:} \ -\frac{R_1R_4}{2R_1R_4g_m + 2R_1 + R_4} \\ & \text{K-BP:} \ \frac{R_1R_4g_m}{2R_1g_m + 2} \\ & \text{Qz:} \ -\frac{C_5\sqrt{\frac{1}{C_5L_5}}}{g_m} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.3 GE-3
$$Z(s) = \left(R_1, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 L_5 R_1 R_4 g_m s^2 + R_1 R_4 g_m + s \left(C_5 R_1 R_4 R_5 g_m - C_5 R_1 R_4\right)}{2 R_1 g_m + s^2 \left(2 C_5 L_5 R_1 g_m + 2 C_5 L_5\right) + s \left(2 C_5 R_1 R_4 g_m + 2 C_5 R_1 R_5 g_m + 2 C_5 R_1 + C_5 R_4 + 2 C_5 R_5\right) + 2 R_5 R_5 R_5}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{2L_5R_1g_m\sqrt{\frac{1}{C_5L_5}}}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_5L_5}}(2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5)}{2L_5R_1g_m\sqrt{\frac{1}{C_5L_5}}+2L_5\sqrt{\frac{1}{C_5L_5}}} \\ \text{K-LP:} \ \frac{R_1R_4g_m}{2R_1g_m+2} \\ \text{K-HP:} \ \frac{R_1R_4g_m}{2R_1g_m+2} \\ \text{K-BP:} \ \frac{R_1R_4g_m}{2R_1g_m+2} \\ \text{K-BP:} \ \frac{R_1R_4g_m}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{Qz:} \ \frac{L_5g_m\sqrt{\frac{1}{C_5L_5}}}{R_5g_m-1} \\ \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{array}$$

6.4 GE-4
$$Z(s) = \left(R_1, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_5L_5R_1R_4R_5s^2 - R_1R_4R_5 + s\left(L_5R_1R_4R_5g_m - L_5R_1R_4\right)}{2R_1R_4R_5g_m + 2R_1R_5 + R_4R_5 + s^2\left(2C_5L_5R_1R_4R_5g_m + 2C_5L_5R_1R_5 + C_5L_5R_4R_5\right) + s\left(2L_5R_1R_4g_m + 2L_5R_1R_5g_m + 2L_5R_1 + L_5R_4 + 2L_5R_5\right)}$$

$$\begin{aligned} & \text{Q:} \ \ \frac{2C_5R_1R_4R_5g_m\sqrt{\frac{1}{C_5L_5}} + 2C_5R_1R_5\sqrt{\frac{1}{C_5L_5}} + C_5R_4R_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1R_4 + 2R_5} \\ & \text{wo:} \ \ \sqrt{\frac{1}{C_5L_5}} \end{aligned} \\ & \text{bandwidth:} \ \ \frac{\sqrt{\frac{1}{C_5L_5}}(2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5)}{2C_5R_1R_4R_5g_m\sqrt{\frac{1}{C_5L_5}} + 2C_5R_1R_5\sqrt{\frac{1}{C_5L_5}} + C_5R_4R_5\sqrt{\frac{1}{C_5L_5}}} \\ & \text{K-LP:} \ \ -\frac{R_1R_4}{2R_1R_4g_m + 2R_1 + R_4} \\ & \text{K-HP:} \ \ -\frac{R_1R_4}{2R_1R_4g_m + 2R_1 + R_4} \\ & \text{K-BP:} \ \ \frac{R_1R_4R_5g_m - R_1R_4}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5} \\ & \text{Qz:} \ \ -\frac{C_5R_5\sqrt{\frac{1}{C_5L_5}}}{R_5g_m - 1} \\ & \text{Wz:} \ \ \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.5 GE-5
$$Z(s) = \left(R_1, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_5R_1R_4g_ms + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_5L_5R_1R_4R_5g_m - C_5L_5R_1R_4\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^2\left(2C_5L_5R_1R_4g_m + 2C_5L_5R_1R_5g_m + 2C_5L_5R_1 + C_5L_5R_4 + 2C_5L_5R_5\right) + s\left(2L_5R_1g_m + 2L_5\right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{2C_5R_1R_4g_m\sqrt{\frac{1}{C_5L_5}} + 2C_5R_1R_5g_m\sqrt{\frac{1}{C_5L_5}} + 2C_5R_1\sqrt{\frac{1}{C_5L_5}} + C_5R_4\sqrt{\frac{1}{C_5L_5}} + 2C_5R_5\sqrt{\frac{1}{C_5L_5}}}{2R_1g_m + 2} \\ & \text{wo:} \ \sqrt{\frac{1}{C_5L_5}} \end{aligned} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_5L_5}}}{2C_5R_1R_4g_m\sqrt{\frac{1}{C_5L_5}} + 2C_5R_1R_5g_m\sqrt{\frac{1}{C_5L_5}} + 2C_5R_1\sqrt{\frac{1}{C_5L_5}} + 2C_5R_4\sqrt{\frac{1}{C_5L_5}} + 2C_5R_5\sqrt{\frac{1}{C_5L_5}}}}{2C_5R_1R_4g_m + 2R_1R_5g_m - R_1R_4} \\ & \text{K-LP:} \ \frac{R_1R_4R_5g_m - R_1R_4}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}}{R_1R_4R_5g_m - R_1R_4} \\ & \text{K-HP:} \ \frac{R_1R_4g_m}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5} \\ & \text{K-BP:} \ \frac{R_1R_4g_m}{2R_1g_m + 2} \end{aligned} \\ & \text{Qz:} \ \frac{C_5R_5g_m\sqrt{\frac{1}{C_5L_5}} - C_5\sqrt{\frac{1}{C_5L_5}}}{g_m} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_5L_5}} \end{aligned}$$

6.6 GE-6
$$Z(s) = \left(R_1, \infty, \infty, R_4, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{-C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_5L_5R_1R_4R_5g_m - C_5L_5R_1R_4\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^2\left(2C_5L_5R_1R_4g_m + 2C_5L_5R_1R_5g_m + 2C_5L_5R_1 + C_5L_5R_4 + 2C_5L_5R_5\right) + s\left(2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5\right)}$$

Parameters:

$$Q\colon \frac{2L_5R_1R_4g_m\sqrt{\frac{1}{C_5L_5}}+2L_5R_1R_5g_m\sqrt{\frac{1}{C_5L_5}}+2L_5R_1\sqrt{\frac{1}{C_5L_5}}+L_5R_4\sqrt{\frac{1}{C_5L_5}}+2L_5R_5\sqrt{\frac{1}{C_5L_5}}}{2R_1R_4R_5g_m+2R_1R_5+R_4R_5}$$
 wo:
$$\sqrt{\frac{1}{C_5L_5}}$$
 bandwidth:
$$\frac{\sqrt{\frac{1}{C_5L_5}}(2R_1R_4R_5g_m+2R_1R_5+R_4R_5)}{2L_5R_1R_4g_m\sqrt{\frac{1}{C_5L_5}}+2L_5R_1R_5g_m\sqrt{\frac{1}{C_5L_5}}+2L_5R_1\sqrt{\frac{1}{C_5L_5}}+L_5R_4\sqrt{\frac{1}{C_5L_5}}+2L_5R_5\sqrt{\frac{1}{C_5L_5}}}$$
 K-LP:
$$\frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5}$$
 K-HP:
$$\frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5}$$
 K-BP:
$$-\frac{R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5}$$
 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
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^2 \left(C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1 \right) + s \left(C_4 R_1 R_4 R_5 g_m - C_4 R_1 R_4 \right)}{2 R_1 g_m + s^2 \left(2 C_4 L_4 R_1 g_m + C_4 L_4 \right) + s \left(2 C_4 R_1 R_4 g_m + 2 C_4 R_1 R_5 g_m + 2 C_4 R_1 + C_4 R_4 + 2 C_4 R_5 \right) + 1}$$

$$Q: \frac{2L_4R_1g_m\sqrt{\frac{1}{C_4L_4}} + L_4\sqrt{\frac{1}{C_4L_4}}}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}$$
 wo:
$$\sqrt{\frac{1}{C_4L_4}}$$
 bandwidth:
$$\frac{\sqrt{\frac{1}{C_4L_4}}(2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5)}{2L_4R_1g_m\sqrt{\frac{1}{C_4L_4}} + L_4\sqrt{\frac{1}{C_4L_4}}}$$
 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:
$$\frac{R_1R_4R_5g_m - R_1R_4}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}$$
 Qz:
$$\frac{L_4\sqrt{\frac{1}{C_4L_4}}}{R_4}$$
 Wz:
$$\sqrt{\frac{1}{C_4L_4}}$$

6.8 GE-8
$$Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, R_5, \infty\right)$$

$$H(s) = \frac{R_1R_4R_5g_m - R_1R_4 + s^2\left(C_4L_4R_1R_4R_5g_m - C_4L_4R_1R_4\right) + s\left(L_4R_1R_5g_m - L_4R_1\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^2\left(2C_4L_4R_1R_4g_m + 2C_4L_4R_1R_5g_m + 2C_4L_4R_1 + C_4L_4R_4 + 2C_4L_4R_5\right) + s\left(2L_4R_1g_m + L_4\right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{2C_4R_1R_4g_m\sqrt{\frac{1}{C_4L_4}}+2C_4R_1R_5g_m\sqrt{\frac{1}{C_4L_4}}+2C_4R_1\sqrt{\frac{1}{C_4L_4}}+C_4R_4\sqrt{\frac{1}{C_4L_4}}+2C_4R_5\sqrt{\frac{1}{C_4L_4}}}{2R_1g_m+1} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_4L_4}}(2R_1g_m+1)}{2C_4R_1R_4g_m\sqrt{\frac{1}{C_4L_4}}+2C_4R_1R_5g_m\sqrt{\frac{1}{C_4L_4}}+2C_4R_1\sqrt{\frac{1}{C_4L_4}}+C_4R_4\sqrt{\frac{1}{C_4L_4}}+2C_4R_5\sqrt{\frac{1}{C_4L_4}}} \\ \text{K-LP:} \ \frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{K-HP:} \ \frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5} \\ \text{K-BP:} \ \frac{R_1R_4g_m+2R_1R_5g_m+2R_1}{2R_1g_m+1} \\ \text{Qz:} \ C_4R_4\sqrt{\frac{1}{C_4L_4}} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \\ \end{array}$$

6.9 GE-9
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_4 R_5 g_m - R_4 + s^2 \left(C_1 L_1 R_4 R_5 g_m - C_1 L_1 R_4\right) + s \left(C_1 R_1 R_4 R_5 g_m - C_1 R_1 R_4\right)}{2 R_4 g_m + 2 R_5 g_m + s^2 \left(2 C_1 L_1 R_4 g_m + 2 C_1 L_1 R_5 g_m + 2 C_1 L_1\right) + s \left(2 C_1 R_1 R_4 g_m + 2 C_1 R_1 R_5 g_m + 2 C_1 R_1 + C_1 R_4 + 2 C_1 R_5\right) + 2 C_1 R_1 R_2 g_m + 2 C_1$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{2L_1R_4g_m\sqrt{\frac{1}{C_1L_1}}}{2R_1R_4g_m+2R_1R_5g_m\sqrt{\frac{1}{C_1L_1}}} + 2L_1\sqrt{\frac{1}{C_1L_1}} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{1}{C_1L_1}}(2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5)}{2L_1R_4g_m\sqrt{\frac{1}{C_1L_1}}} + 2L_1R_5g_m\sqrt{\frac{1}{C_1L_1}} + 2L_1\sqrt{\frac{1}{C_1L_1}} \\ & \text{K-LP:} \ \frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2} \\ & \text{K-HP:} \ \frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2} \\ & \text{K-BP:} \ \frac{R_1R_4g_m-R_4}{2R_1R_4g_m+2R_1R_5g_m-R_1R_4} \\ & \text{Qz:} \ \frac{L_1\sqrt{\frac{1}{C_1L_1}}}{R_1} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{aligned}$$

6.10 GE-10
$$Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, R_5, \infty\right)$$

$$H(s) = \frac{R_1R_4R_5g_m - R_1R_4 + s^2\left(C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^2\left(2C_1L_1R_1R_4g_m + 2C_1L_1R_1R_5g_m + 2C_1L_1R_1 + C_1L_1R_4 + 2C_1L_1R_5\right) + s\left(2L_1R_4g_m + 2L_1R_5g_m + 2L_1\right)}$$

$$Q\colon \frac{2C_1R_1R_4g_m\sqrt{\frac{1}{C_1L_1}}+2C_1R_1R_5g_m\sqrt{\frac{1}{C_1L_1}}+2C_1R_1\sqrt{\frac{1}{C_1L_1}}+C_1R_4\sqrt{\frac{1}{C_1L_1}}+2C_1R_5\sqrt{\frac{1}{C_1L_1}}}{2R_4g_m+2R_5g_m+2}$$
 wo:
$$\sqrt{\frac{1}{C_1L_1}}$$
 bandwidth:
$$\frac{\sqrt{\frac{1}{C_1L_1}}(2R_4g_m+2R_5g_m+2)}{2C_1R_1R_4g_m\sqrt{\frac{1}{C_1L_1}}+2C_1R_1R_5g_m\sqrt{\frac{1}{C_1L_1}}+2C_1R_1\sqrt{\frac{1}{C_1L_1}}+C_1R_4\sqrt{\frac{1}{C_1L_1}}+2C_1R_5\sqrt{\frac{1}{C_1L_1}}}$$
 K-LP:
$$\frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5}$$
 K-HP:
$$\frac{R_1R_4R_5g_m-R_1R_4}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5}$$
 K-BP:
$$\frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2R_1}$$
 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
$$Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5R_1R_5s + R_1R_5g_m - R_1}{2C_4C_5R_1R_5s^2 + 2R_1g_m + s\left(2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

Parameters:

8.2 INVALID-NUMER-2 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_4s + R_1R_4g_m}{2C_4C_5R_1R_4s^2 + 2R_1g_m + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4\right) + 2C_5R_1R_4s^2 + 2C_5R_1R_5s^2 + 2C_5R_1R_5s$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \, \frac{2C_4C_5R_1R_4\sqrt{\frac{g_m}{C_4C_5R_4}} + \frac{1}{C_4C_5R_1R_4}}{2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4} \\ \text{wo:} \ \, \sqrt{\frac{R_1g_m + 1}{C_4C_5R_1R_4}} \\ \text{bandwidth:} \ \, \frac{\sqrt{\frac{R_1g_m + 1}{C_4C_5R_1R_4}}(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4)}{2C_4C_5R_1R_4\sqrt{\frac{g_m}{C_4C_5R_4}} + \frac{1}{C_4C_5R_1R_4}} \\ \text{K-LP:} \ \, \frac{R_1R_4g_m}{2R_1g_m + 2} \\ \text{K-HP:} \ \, 0 \\ \text{K-BP:} \ \, -\frac{C_5R_1R_4}{2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4}}{2C_2\text{: None}} \\ \text{Wz:} \ \, \text{None} \end{array}$$

8.3 INVALID-NUMER-3 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4}{2C_4C_5R_1R_4R_5s^2 + 2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s\left(2C_4R_1R_4R_5g_m + 2C_4R_1R_4 + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5\right)}{2C_4C_5R_1R_4R_5s^2 + 2R_1R_4g_m + 2R_1R_5g_m + 2R_1R_4 + 2R_5 + s\left(2C_4R_1R_4R_5g_m + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_4R_5\right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_4C_5R_1R_4R_5\sqrt{\frac{2g_m}{C_4C_5R_5}} + \frac{2g_m}{C_4C_5R_4} + \frac{2}{C_4C_5R_4R_5} + \frac{1}{C_4C_5R_1R_5} + \frac{2}{C_4C_5R_1R_4}}{2C_4R_1R_4R_5g_m + 2C_4R_1R_4 + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5}}\\ \text{Wo:} \ \frac{\sqrt{2}\sqrt{\frac{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}{C_4C_5R_1R_4R_5}}}{2}}{2}\\ \text{bandwidth:} \ \frac{\sqrt{\frac{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}{C_4C_5R_1R_4R_5}}}{2C_4C_5R_1R_4R_5}(2C_4R_1R_4R_5g_m + 2C_4R_1R_4 + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5)}\\ \text{bandwidth:} \ \frac{\sqrt{\frac{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}{C_4C_5R_1R_4R_5}}}{2C_4C_5R_1R_4R_5}(2C_4R_1R_4R_5g_m + 2C_4R_1R_4 + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5)}\\ \text{bandwidth:} \ \frac{2C_4C_5R_1R_4R_5}{C_4C_5R_1R_4R_5} + \frac{2g_m}{C_4C_5R_4R_5} + \frac{2g_m}{C_4C_5R_4R_5} + \frac{2}{C_4C_5R_1R_5} + \frac{2}{C_4C_5R_1R_5} + \frac{2}{C_4C_5R_1R_5}}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}\\ \text{K-LP:} \ \frac{R_1R_4R_5g_m - R_1R_4}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ -\frac{C_5R_1R_4R_5}{2C_4R_1R_4R_5g_m + 2C_4R_1R_4 + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5}}{2C_4R_1R_4R_5g_m + 2C_4R_1R_4 + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5}\\ \text{Qz:} \ \text{None}\\ \text{Wz:} \ \text{None} \end{array}$$

8.4 INVALID-NUMER-4 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1R_4g_m + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2R_1g_m + s^2\left(2C_4C_5R_1R_4R_5g_m + 2C_4C_5R_1R_4 + 2C_4C_5R_4R_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_5g_m + 2C_5R_1 + C_5R_4 + 2C_5R_5\right) + 2c_4R_4R_5g_m + 2c_4R_5g_m + 2c_4R_5g_m + 2c_4R_5g_m + 2c_5R_5g_m + 2c_$$

Parameters:

 $Q: \frac{2C_4C_5R_1R_4R_5g_m\sqrt{\frac{R_1g_m}{C_4C_5R_1R_4R_5g_m+C_4C_5R_1R_4} + \frac{1}{C_4C_5R_1R_4R_5g_m+C_4C_5R_1R_4+C_4C_5R_4R_5}}{2C_4R_1R_4g_m+2C_4R_4g_m+2C_5R_1R_4g_m+2C_5R_1R_4g_m+2C_5R_1R_4g_m+2C_5R_1R_4g_m+2C_5R_1R_5g_m+2C_5R_1R_4g_m+2C_5R_1R_5g_m+2C_5R_$ Wo: $\sqrt{\frac{R_1 g_m + 1}{C_4 C_5 R_1 R_4 R_5 g_m + C_4 C_5 R_1 R_4 + C_4 C_5 R_4 R_5}}$ $\sqrt{\frac{R_{1}g_{m}+1}{C_{4}C_{5}R_{1}R_{4}R_{5}g_{m}+C_{4}C_{5}R_{1}R_{4}+C_{4}C_{5}R_{4}R_{5}}}(2C_{4}R_{1}R_{4}g_{m}+2C_{4}R_{4}+2C_{5}R_{1}R_{4}g_{m}+2C_{5}R_{1}R_{5}g_{m}+2C_{5}R_{1}+C_{5}R_{4}+2C_{5}R_{5})$ $\frac{\sqrt{\frac{C_4C_5R_1R_4R_5g_m + C_4C_5R_1R_4}{C_4C_5R_1R_4R_5g_m + C_4C_5R_1R_4 + C_4C_5R_4R_5}}}{2C_4C_5R_1R_4R_5g_m\sqrt{\frac{R_1g_m}{C_4C_5R_1R_4R_5g_m + C_4C_5R_1R_4 + C_4C_5R_4R_5}} + 2C_4C_5R_1R_4\sqrt{\frac{R_1g_m}{C_4C_5R_1R_4R_5g_m + C_4C_5R_1R_4 + C_4C_5R_4R_5}} + 2C_4C_5R_1R_4\sqrt{\frac{R_1g_m}{C_4C_5R_1R_4R_5g_m + C_4C_5R_1R_4 + C_4C_5R_4R_5}} + 2C_4C_5R_4R_5\sqrt{\frac{R_1g_m}{C_4C_5R_1R_4R_5g_m + C_4C_5R_4R_5}} + 2C_4C_5R_4R_5}$ K-LP: $\frac{R_1R_4g_m}{2R_1g_m+2}$ K-HP: 0

K-BP: $\frac{C_5R_1R_4R_5g_m-C_5R_1R_4}{2C_4R_1R_4g_m+2C_4R_4+2C_5R_1R_4g_m+2C_5R_1R_5g_m+2C_5R_1+C_5R_4+2C_5R_5}$ Qz: None

Wz: None

8.5 INVALID-NUMER-5 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 L_1 R_4 s^2 + L_1 R_4 g_m s}{s^2 \left(2C_5 L_1 R_4 g_m + 2C_5 L_1\right) + s \left(C_5 R_4 + 2L_1 g_m\right) + 2}$$

Parameters:

wo: $\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1}}$ bandwidth: $\frac{(C_5R_4+2L_1g_m)\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1}}}{2C_5L_1R_4g_m\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1}}+2C_5L_1\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1}}}$ K-LP: 0 K-HP: $-\frac{R_4}{2R_4g_m+2}$ K-BP: $\frac{L_1R_4g_m}{C_5R_4+2L_1g_m}$ Qz: None Wz: None

8.6 INVALID-NUMER-6 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_4R_5s^2 + s\left(L_1R_4R_5g_m - L_1R_4\right)}{R_4 + 2R_5 + s^2\left(2C_5L_1R_4R_5g_m + 2C_5L_1R_5\right) + s\left(C_5R_4R_5 + 2L_1R_4g_m + 2L_1R_5g_m + 2L_1\right)}$$

Parameters:

 $\text{Q:} \ \frac{\sqrt{2}C_5L_1R_4R_5g_m\sqrt{\frac{R_4}{C_5L_1R_4R_5g_m}+C_5L_1R_5}+\frac{2R_5}{C_5L_1R_4R_5g_m+C_5L_1R_5}}{C_5R_4R_5+2L_1R_4g_m+2L_1R_5g_m+2L_1}}{C_5R_4R_5+2L_1R_4g_m+2L_1R_5g_m+2L_1}$ K-HP: $-\frac{R_4}{2R_4g_m+2}$ $\text{K-BP:} \ \frac{L_1 R_4 R_5 g_m \sqrt{\frac{R_4}{C_5 L_1 R_4 R_5 g_m + C_5 L_1 R_5}} - L_1 R_4 \sqrt{\frac{R_4}{C_5 L_1 R_4 R_5 g_m + C_5 L_1 R_5}} - L_1 R_4 \sqrt{\frac{R_4}{C_5 L_1 R_4 R_5 g_m + C_5 L_1 R_5}} + \frac{2}{C_5 L_1 R_4 g_m + C_5 L_1}} - L_1 R_4 \sqrt{\frac{R_4}{C_5 L_1 R_4 R_5 g_m + C_5 L_1 R_5}} + \frac{2}{C_5 L_1 R_4 g_m + C_5 L_1}} - L_1 R_4 \sqrt{\frac{R_4}{C_5 L_1 R_4 R_5 g_m + C_5 L_1 R_5}} + \frac{2}{C_5 L_1 R_4 g_m + C_5 L_1 R_5}} + \frac{2}{C_5 L_1 R_4 R_5 g_m + C_5 L_1 R_5} + \frac{2}{C_5 L_1 R_4 R_5 g_m + C_5 L_1 R_5}} + \frac{2}{$ Qz: None

Wz: None

8.7 INVALID-NUMER-7 $Z(s) = \left(L_1 s, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_1 R_4 g_m s + s^2 \left(C_5 L_1 R_4 R_5 g_m - C_5 L_1 R_4 \right)}{s^2 \left(2 C_5 L_1 R_4 g_m + 2 C_5 L_1 R_5 g_m + 2 C_5 L_1 \right) + s \left(C_5 R_4 + 2 C_5 R_5 + 2 L_1 g_m \right) + 2}$$

Parameters:

$$Q \colon \frac{2C_5L_1R_4g_m\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1R_5g_m+C_5L_1}} + 2C_5L_1R_5g_m\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1R_5g_m+C_5L_1}} + 2C_5L_1\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1R_5g_m+C_5L_1}}}{C_5R_4+2C_5R_5+2L_1g_m}$$
 wo:
$$\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1R_5g_m+C_5L_1}}$$
 bandwidth:
$$\frac{(C_5R_4+2C_5R_5+2L_1g_m)\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1R_5g_m+C_5L_1}}}{2C_5L_1R_4g_m\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1R_5g_m+C_5L_1}}} + 2C_5L_1\sqrt{\frac{1}{C_5L_1R_4g_m+C_5L_1R_5g_m+C_5L_1}}}$$
 K-LP:
$$0$$
 K-HP:
$$\frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2}$$
 K-BP:
$$\frac{L_1R_4g_m}{C_5R_4+2C_5R_5+2L_1g_m}$$
 Qz: None Wz: None

8.8 INVALID-NUMER-8 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 L_1 s + L_1 g_m}{2C_4 C_5 L_1 s^2 + 2C_4 + C_5 + s \left(2C_4 L_1 g_m + 2C_5 L_1 g_m\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_4C_5\sqrt{\frac{2}{C_5L_1}+\frac{1}{C_4L_1}}}{2C_4g_m+2C_5g_m} \\ \text{wo:} \ \frac{\sqrt{2}\sqrt{\frac{2C_4+C_5}{C_4C_5L_1}}}{2} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{2C_4+C_5}{C_4C_5L_1}}(2C_4g_m+2C_5g_m)}{2C_4C_5\sqrt{\frac{2}{C_5L_1}+\frac{1}{C_4L_1}}} \\ \text{K-LP:} \ \frac{L_1g_m}{2C_4+C_5} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ -\frac{C_5}{2C_4g_m+2C_5g_m} \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \text{None} \end{array}$$

8.9 INVALID-NUMER-9 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_1 g_m + s \left(C_5 L_1 R_5 g_m - C_5 L_1 \right)}{2C_4 + C_5 + s^2 \left(2C_4 C_5 L_1 R_5 g_m + 2C_4 C_5 L_1 \right) + s \left(2C_4 C_5 R_5 + 2C_4 L_1 g_m + 2C_5 L_1 g_m \right)}$$

$$\begin{aligned} & \text{Q:} & \frac{\sqrt{2}C_4C_5L_1R_5g_m\sqrt{\frac{2C_4}{C_4C_5L_1R_5g_m+C_4C_5L_1}} + \sqrt{2}C_4C_5L_1\sqrt{\frac{2C_4}{C_4C_5L_1R_5g_m+C_4C_5L_1}} + \frac{C_5}{C_4C_5L_1R_5g_m+C_4C_5L_1}} \\ & \text{wo:} & \sqrt{\frac{2C_4+C_5}{2C_4C_5L_1R_3g_m+2C_4C_5L_1}} \\ & \text{bandwidth:} & \frac{\sqrt{\frac{2C_4+C_5}{2C_4C_5L_1R_5g_m+2C_4C_5L_1}}}{\sqrt{\frac{2C_4+C_5}{2C_4C_5L_1R_5g_m+2C_4C_5L_1}}} (2C_4C_5R_5+2C_4L_1g_m+2C_5L_1g_m) \\ & \text{bandwidth:} & \frac{\sqrt{\frac{2C_4+C_5}{2C_4C_5L_1R_5g_m+2C_4C_5L_1}}}{\sqrt{\frac{2C_4C_5L_1R_5g_m+2C_4C_5L_1}{C_4C_5L_1R_5g_m+2C_4C_5L_1}}} + \sqrt{2}C_4C_5L_1\sqrt{\frac{2C_4}{C_4C_5L_1R_5g_m+C_4C_5L_1}}} + \frac{C_5}{C_5C_4C_5L_1R_5g_m+C_4C_5L_1}} \\ & \text{K-LP:} & \frac{L_1g_m}{2C_4+C_5} \\ & \text{K-HP:} & 0 \\ & \text{K-BP:} & \frac{C_5L_1R_5g_m\sqrt{\frac{2C_4}{C_5L_1R_5g_m+C_4C_5L_1}} + C_4L_1R_5g_m+C_4L_1}{C_5C_5C_4C_5L_1R_5g_m+C_4L_1}} - C_5L_1\sqrt{\frac{2C_4}{C_5L_1R_5g_m+C_4C_5L_1}} + \frac{1}{C_4C_5L_1R_5g_m+C_4C_5L_1}} \\ & \text{Qz:} & \text{None} \end{aligned}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{s^2 \left(C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4 \right) + s \left(L_1 R_5 g_m - L_1 \right)}{s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m + 2 C_4 L_1 \right) + s \left(C_4 R_4 + 2 C_4 R_5 + 2 L_1 g_m \right) + 1}$$

Parameters:

8.11 INVALID-NUMER-11 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$

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

Parameters:

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

8.12 INVALID-NUMER-12 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_4R_5s + R_4R_5g_m - R_4}{C_1C_5R_4R_5s^2 + 2R_4g_m + 2R_5g_m + s\left(C_1R_4 + 2C_1R_5 + 2C_5R_4R_5g_m + 2C_5R_5\right) + 2}$$

Parameters:

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

8.13 INVALID-NUMER-13 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

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

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

8.14 INVALID-NUMER-14 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_5s + R_5g_m - 1}{2g_m + s^2\left(2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5R_5\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4 + 2C_5R_5g_m\right)}$$

Parameters:

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

8.15 INVALID-NUMER-15 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5R_4s + R_4g_m}{2g_m + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_4C_5R_4\right) + s\left(2C_1 + 2C_4R_4g_m + 2C_5R_4g_m + 2C_5\right)}$$

Parameters:

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

8.16 INVALID-NUMER-16 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_4R_5s + R_4R_5g_m - R_4}{2R_4g_m + 2R_5g_m + s^2\left(2C_1C_4R_4R_5 + C_1C_5R_4R_5 + 2C_4C_5R_4R_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_4R_4R_5g_m + 2C_4R_4 + 2C_5R_4R_5g_m + 2C_5R_5\right) + 2C_5R_5}$$

Parameters:

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

K-LP: $\frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2}$

K-HP: $\stackrel{2\pi}{0}$

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

Qz: None Wz: None

8.17 INVALID-NUMER-17 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{R_5 g_m + s \left(C_4 R_4 R_5 g_m - C_4 R_4 \right) - 1}{2 g_m + s^2 \left(C_1 C_4 R_4 + 2 C_1 C_4 R_5 \right) + s \left(C_1 + 2 C_4 R_4 g_m + 2 C_4 R_5 g_m + 2 C_4 \right)}$$

Parameters:

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

bandwidth: $\frac{\sqrt{2}\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_5}}(C_1+2C_4R_4g_m+2C_4R_5g_m+2C_4)}{\sqrt{2}C_1C_4R_4\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_5}}+2\sqrt{2}C_1C_4R_5\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_5}}$

K-LP: $\frac{R_5 g_m - 1}{2g_m}$ K-HP: 0

K-BP: $\frac{C_4R_4R_5g_m-C_4R_4}{C_1+2C_4R_4g_m+2C_4R_5g_m+2C_4}$ Qz: None

Wz: None

8.18 INVALID-NUMER-18 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_4s + R_1R_4g_m}{C_1C_5R_1R_4s^2 + 2R_1g_m + s\left(2C_1R_1 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4\right) + 2}$$

Parameters:

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

bandwidth: $\frac{\sqrt{2}\sqrt{\frac{2R_1g_m+2}{C_1C_5R_1R_4}}(2C_1R_1+2C_5R_1R_4g_m+2C_5R_1+C_5R_4)}{2C_1C_5R_1R_4\sqrt{\frac{g_m}{C_1C_5R_4}+\frac{1}{C_1C_5R_1R_4}}}$

K-LP: $\frac{R_1R_4g_m}{2R_1g_m+2}$ K-HP: 0

K-BP: $-\frac{C_5R_1R_4}{2C_1R_1+2C_5R_1R_4g_m+2C_5R_1+C_5R_4}$

Qz: None Wz: None

8.19 INVALID-NUMER-19 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4}{C_1C_5R_1R_4R_5s^2 + 2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s\left(C_1R_1R_4 + 2C_1R_1R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5\right)}$$

$$\begin{aligned} &\text{Q:} \ \frac{C_1C_5R_1R_4R_5\sqrt{\frac{2g_m}{C_1C_5R_5}} + \frac{2g_m}{C_1C_5R_4} + \frac{2}{C_1C_5R_4R_5} + \frac{1}{C_1C_5R_1R_5} + \frac{2}{C_1C_5R_1R_4}}{C_1R_1R_4 + 2C_1R_1R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5} \\ &\text{wo:} \ \sqrt{\frac{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}{C_1C_5R_1R_4R_5}}}\\ &\text{bandwidth:} \ \frac{\sqrt{\frac{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}{C_1C_5R_1R_4R_5}}(C_1R_1R_4 + 2C_1R_1R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5)}{C_1C_5R_1R_4R_5}\\ &\frac{C_1C_5R_1R_4R_5\sqrt{\frac{2g_m}{C_1C_5R_1}} + \frac{2g_m}{C_1C_5R_4}}{C_1C_5R_5} + \frac{2g_m}{C_1C_5R_4R_5} + \frac{1}{C_1C_5R_1R_5} + \frac{2}{C_1C_5R_1R_4}}\\ &\text{K-LP:} \ \frac{R_1R_4R_5g_m - R_1R_4}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}}{R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}\\ &\text{K-HP:} \ 0\end{aligned}$$

```
K-BP: -\frac{C_5 R_1 R_4 R_5}{C_1 R_1 R_4 + 2C_1 R_1 R_5 + 2C_5 R_1 R_4 R_5 g_m + 2C_5 R_1 R_5 + C_5 R_4 R_5}
Qz: None
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Wz: None

8.20 INVALID-NUMER-20 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1R_4g_m + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2R_1g_m + s^2\left(C_1C_5R_1R_4 + 2C_1C_5R_1R_5\right) + s\left(2C_1R_1 + 2C_5R_1R_4g_m + 2C_5R_1R_5g_m + 2C_5R_1 + C_5R_4 + 2C_5R_5\right) + 2C_5R_5}$$

Parameters:

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

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

K-LP: $\frac{R_1 R_4 g_m}{2R_1 g_m + 2}$ K-HP: 0

 $C_5R_1R_4R_5g_m\sqrt{\frac{g_m}{C_1C_5R_4+2C_1C_5R_5}} + \frac{1}{C_1C_5R_1R_4+2C_1C_5R_1R_5} - C_5R_1R_4\sqrt{\frac{g_m}{C_1C_5R_4+2C_1C_5R_5}} + \frac{1}{C_1C_5R_1R_4+2C_1C_5R_1R_5}$

 $\frac{1}{2C_1R_1\sqrt{\frac{R_1gm}{C_1C_5R_1R_4+2C_1C_5R_1R_5}}+2C_5R_1R_4gm\sqrt{\frac{R_1gm}{C_1C_5R_1R_4+2C_1C_5R_1R_5}}+2C_5R_1R_4gm\sqrt{\frac{R_1gm}{C_1C_5R_1R_4+2C_1C_5R_1R_5}}+2C_5R_1R_5gm\sqrt{\frac{R_1gm}{C_1C_5R_1R_4+2C_1C_5R_1R_5}}+2C_5R_1\sqrt{\frac{R_1gm}{C_1C_5R_1R_5}}+2C_5R_1\sqrt{\frac{R_1gm}{C_1C_5R_1R_5}}+2C_5R_1\sqrt{\frac{R_1gm}{C_1C_5R_1R_5}}+2C_5R_1\sqrt{\frac{R_1gm}{C_1C_5R_1R_5}}+2C_5R_1\sqrt{\frac{R$ Qz: None

Wz: None

8.21 INVALID-NUMER-21 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_5s + R_1R_5g_m - R_1}{2R_1g_m + s^2\left(2C_1C_4R_1R_5 + C_1C_5R_1R_5 + 2C_4C_5R_1R_5\right) + s\left(C_1R_1 + 2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

Parameters:

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

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

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

K-HP: 0

 $\frac{\sqrt{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1S}}{C_1R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1R_5g_m\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5+2c_4c_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+c_1C_5R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{2c_1C_4R_1R_5+$

Qz: None Wz: None

8.22 INVALID-NUMER-22 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_4 s + R_1 R_4 g_m}{2R_1 g_m + s^2 (2C_3 C_4 R_1 R_4 + C_5 C_7 R_1 R_4 + 2C_4 C_7 R_1 R_4) + s (2C_4 R_1 R_4 g_m + 2C_4 R_1 R_4 g_m + 2C_7 R_1 R_2 g_m + 2C_7 R_1 R$$

Parameters:

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

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

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

K-LP: $\frac{R_1 R_4 g_m}{2R_1 g_m + 2}$

 $-\frac{1}{2C_{1}R_{1}\sqrt{\frac{R_{1}g_{m}}{2C_{1}C_{4}R_{1}R_{4}+C_{1}C_{5}R_{1}R_{4}+2C_{4}C_{5}R_{1}R_{4}}}+2C_{4}R_{1}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{2C_{1}C_{4}R_{1}R_{4}+C_{1}C_{5}R_{1}R_{4}+2C_{4}C_{5}R_{1}R_{4}}}+2C_{4}R_{4}\sqrt{\frac{R_{1}g_{m}}{2C_{1}C_{4}R_{1}R_{4}+C_{1}C_{5}R_{1}R_{4}+2C_{4}C_{5}R_{1}R_{4}}}+2C_{4}R_{4}\sqrt{\frac{R_{1}g_{m}}{2C_{1}C_{4}R_{1}R_{4}+C_{1}C_{5}R_{1}R_{4}+2C_{4}C_{5}R_{1}R_{4}}}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{4}C_{5}R_{1}R_{4}}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}}+2C_{5}R_{1}R_{4}+2C_{5}R_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{4}+2C_{5}R_{1}R_{$ Qz: None

8.23 INVALID-NUMER-23 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^2\left(2C_1C_4R_1R_4R_5 + C_1C_5R_1R_4R_5 + 2C_4C_5R_1R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_1R_4R_5g_m + 2C_4R_1R_4 + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_1R_4R_5g_m + 2C_4R_1R_4 + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_4R_5g_m + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_4R_5g_m + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_4R_5g_m + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_4R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_4R_5g_m + 2C_4R_4R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_4R_5g_m + 2C_4R_4R_5 + 2C_5R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_4R_5 + 2C_4R_4R_5\right) + s\left(C_1R_1R_4 + 2C_4R_4R_$

Parameters:

 $Q: \frac{2C_1C_4R_1R_4R_5\sqrt{\frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5+2C_4C_5R_1R_4R_5}} + C_1C_5R_1R_4R_5+\frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5+2C_4C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5+2C_4C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5+2C_4C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5+2C_4C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5+2C_4C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5+2C_4C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5+2C_4C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+C_1C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5} + \frac{2R_1R_4g_m$ Wo: $\sqrt{\frac{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5}{2C_1C_4R_1R_4R_5 + C_1C_5R_1R_4R_5 + 2C_4C_5R_1R_4R_5}}$

 $\frac{\sqrt{\frac{2C_1C_4R_1R_4g_m}{2C_1C_4R_1R_4R_5}}}{2C_1C_4R_1R_4R_5\sqrt{\frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+2C_4C_5R_1R_4R_5}}} + C_1C_5R_1R_4R_5 + \frac{2R_1R_4g_m}{2C_1C_4R_1R_4R_5+2C_4C_5R_1R_4R_5} + \frac{2R_1R_4g_m}{2C_1C_4R_1$

K-BP: $\overline{C_{1}R_{1}R_{4}\sqrt{\frac{2R_{1}R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{4}R_{5}} + \frac{2R_{1}R_{5}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{4}R_{5}} + \frac{2R_{1}}{2C_{1}C_{4}R_{1}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{4}R_{5}} + \frac{2R_{1}}{2C_{1}C_{4}R_{1}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{4}R_{5}} + \frac{2R_{1}}{2C_{1}C_{4}R_{1}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{4}R_{5}} + \frac{2R_{1}}{2C_{1}C_{4}R_{1}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{4}R_{5}} + \frac{2R_{1}R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{5}+C_{1}C_{5}R_{1}R_{4}R_{5}} + \frac{2R_{1}R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{5} + \frac{2R_{1}R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{5}} + \frac{2R_{1}R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{5}} + \frac{2R_{1}R_{4}g_{$

Wz: None

8.24 INVALID-NUMER-24 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s \left(C_4 R_1 R_4 R_5 g_m - C_4 R_1 R_4 \right)}{2 R_1 g_m + s^2 \left(C_1 C_4 R_1 R_4 + 2 C_1 C_4 R_1 R_5 \right) + s \left(C_1 R_1 + 2 C_4 R_1 R_4 g_m + 2 C_4 R_1 R_5 g_m + 2 C_4 R_1 + C_4 R_4 + 2 C_4 R_5 \right) + 1}$$

Parameters:

 $Q: \frac{C_1C_4R_1R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}+\frac{1}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}}{C_1R_1+2C_4R_1R_4g_m+2C_4R_1R_5g_m+2C_4R_1+C_4R_4+2C_4R_5} + \frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5} + \frac{1}{C_1C_4R_1R_4+2C_1C_4R_1R_5}$

 $\text{bandwidth: } \frac{\sqrt{\frac{2R_1g_m+1}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}(C_1R_1+2C_4R_1R_4g_m+2C_4R_1R_5g_m+2C_4R_1+C_4R_4+2C_4R_5)}{C_1C_4R_1R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}+\frac{1}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_1C_4R_1R_5\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}+\frac{1}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}$

K-HP: 0

 $\frac{C_4R_1R_4R_5g_m\sqrt{\frac{2g_m}{C_1C_4R_4+2C_1C_4R_5}}-C_4R_1R_4\sqrt{\frac{2g_m}{C_1C_4R_1R_4+2C_1C_4R_5}}+\frac{1}{C_1C_4R_1R_4+2C_1C_4R_5}+\frac{1}{C_1C_4R_1R_4+2C_1C_4R_5}}{C_1R_1\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_5}}+2C_4R_1R_5g_m\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_1R_5g_m\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_1\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_5\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_5\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_5\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_5\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+C_4R_4\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_5\sqrt{\frac{2R_1g_m}{C_1C_4R_1R_4+2C_1C_4R_1R_5}}+2C_4R_4\sqrt{\frac{2R_1g_m}{C_1$ K-BP:

Qz: None Wz: None

8.25 INVALID-NUMER-25 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{R_5g_m + s\left(C_1R_1R_5g_m - C_1R_1\right) - 1}{2g_m + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_1 + 2C_1C_4R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_5g_m + 2C_4\right)}$$

Parameters:

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

 $\sqrt{\frac{g_m}{C_1C_4R_1R_5g_m+C_1C_4R_1+C_1C_4R_5}}(2C_1R_1g_m+C_1+2C_4R_5g_m+2C_4)$

K-LP: $\frac{R_5 g_m - 1}{2g_m}$ K-HP: 0

K-HP: 0 K-BP: $\frac{C_1R_1R_5g_m - C_1R_1}{2C_1R_1g_m + C_1 + 2C_4R_5g_m + 2C_4}$

Qz: None Wz: None

47

8.26 INVALID-NUMER-26 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

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

Parameters:

 $\frac{R_4 g m}{Q_1} = \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 F_5 \frac{R_5 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 F_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 F_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 F_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 F_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 F_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 F_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g m} + C_1 C_4 R_1 R_4 R_5 \frac{R_4 g m}{C_1 C_4 R_1 R_4 R_5 g$

8.27 INVALID-NUMER-27 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5L_1s + L_1g_m}{2C_4 + C_5 + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1\right) + s\left(2C_4L_1g_m + 2C_5L_1g_m\right)}$$

Parameters:

 $\begin{array}{c} \text{Q:} & \frac{2C_1C_4\sqrt{\frac{2C_4}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + \frac{C_1C_5\sqrt{\frac{2C_4}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1} \\ \text{wo:} & \sqrt{\frac{2C_4+C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} \\ \text{bandwidth:} & \frac{\sqrt{\frac{2C_4+C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} (2C_4g_m+2C_5g_m)}{\sqrt{\frac{2C_4+C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1} + \frac{C_5}{2C_4C_4C_5L_1} + \frac{C_5}{2C_4C_4C_5C_5L_1} + \frac{C_5}{2C_4C_4C_5C_5L_1} + \frac{C_5}{2C_4C_4C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_5C_$

8.28 INVALID-NUMER-28 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_1s + L_1R_1g_m}{2C_4R_1 + C_5R_1 + s^2\left(2C_1C_4L_1R_1 + C_1C_5L_1R_1 + 2C_4C_5L_1R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}$$

Parameters:

 $\begin{array}{c} \text{Q:} & \frac{2C_1C_4R_1\sqrt{\frac{2C_4}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + C_1C_5R_1\sqrt{\frac{2C_4}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + C_1C_5R_1\sqrt{\frac{2C_4}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + 2C_4C_5R_1\sqrt{\frac{2C_4}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + 2C_4C_5R_1\sqrt{\frac{2C_4}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1}} + \frac{C_5}{2C_1C_4L_1+C_1C_5L_1+2C_4C_5L_1} + \frac{C_5}{2C_1C_4L_1+2C_4C_5L_1} + \frac{C_5}{2C_1C_4L_1+2C_4C_5L_1} + \frac{C_5}$

9 INVALID-WZ

9.1 INVALID-WZ-1 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_4C_5R_1R_4R_5s^2 + R_1R_5g_m - R_1 + s\left(C_4R_1R_4R_5g_m - C_4R_1R_4 - C_5R_1R_5\right)}{2R_1g_m + s^2\left(2C_4C_5R_1R_4R_5g_m + 2C_4C_5R_1R_5 + C_4C_5R_4R_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_1R_5g_m + 2C_4R_1 + C_4R_4 + 2C_4R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

Parameters:

 $\frac{2C_4C_5R_1R_4R_5g_m\sqrt{\frac{2R_1g_m}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5+C_4C_5R_4R_5}}{2C_4R_1R_4g_m+2C_4R_1R_5g_m+2C_4R_5R_1R_5+C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5+C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5+C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5+C_4C_5R_4R_5}}{2C_4R_1R_4g_m+2C_4R_1R_5g_m+2C_4R_1R_5g_m+2C_4R_5+C_5R_1R_5g_m+2C_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_4R_5g_m+2C_4C_5R_4R_5}+\frac{1}{2C_4C_5R_$ $\sqrt{\frac{2R_1g_m+1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5+C_4C_5R_4R_5}}(2C_4R_1R_4g_m+2C_4R_1R_5g_m+2C_4R_1+C_4R_4+2C_4R_5+2C_5R_1R_5g_m+C_5R_5)$

 $\frac{\sqrt{\frac{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5+C_4C_5R_4R_5}}}{2C_4C_5R_1R_4R_5g_m\sqrt{\frac{2R_1g_m}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5}+\frac{1}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5}+\frac{2R_1g_m}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5+C_4C_5R_4R_5}}} + C_4C_5R_4R_5\sqrt{\frac{2R_1g_m}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_1R_5+C_4C_5R_4R_5}}} + C_4C_5R_4R_5\sqrt{\frac{2R_1g_m}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}}}} + C_4C_5R_4R_5\sqrt{\frac{2R_1g_m}{2C_4C_5R_1R_4R_5g_m+2C_4C_5R_4R_5}}} + C_4C_5R_4R_5\sqrt{\frac{2R_1g_m}{2C_4C_5R_1R_4R_5g_m+2C_4C_5$

Wz: $\sqrt{\frac{-R_5 g_m + 1}{C_4 C_5 R_4 R_5}}$

9.2 INVALID-WZ-2 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_1R_4s^2 + L_1g_m + s\left(C_4L_1R_4g_m - C_5L_1\right)}{2C_4 + C_5 + s^2\left(2C_4C_5L_1R_4g_m + 2C_4C_5L_1\right) + s\left(C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$$

Parameters:

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

$$W0: \sqrt{\frac{2C_{4}+C_{5}}{2C_{4}C_{5}L_{1}R_{4}g_{m}+2C_{4}C_{5}L_{1}}}$$

K-LP: $\frac{L_1 g_m}{2C_4 + C_5}$ K-HP: $-\frac{R_4}{2R_4 g_m + 2}$

 $\text{K-BP:} \frac{C_4 L_1 R_4 g_m \sqrt{\frac{2}{C_5 L_1 R_4 g_m + C_5 L_1} + \frac{1}{C_4 L_1 R_4 g_m + C_4 L_1}} - C_5 L_1 \sqrt{\frac{2}{C_5 L_1 R_4 g_m + C_5 L_1} + \frac{1}{C_4 L_1 R_4 g_m + C_4 L_1}}}{C_4 C_5 R_4 \sqrt{\frac{2C_4}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1} + \frac{C_5}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1}}} + 2 C_4 L_1 g_m \sqrt{\frac{2C_4}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1} + \frac{C_5}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1}}} + 2 C_5 L_1 g_m \sqrt{\frac{2C_4}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1}} + \frac{C_5}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1}} + \frac{C_5}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1}} + \frac{C_5}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1}} + \frac{C_5}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1}} + \frac{C_5}{C_4 C_5 L_1 R_4 g_m + C_4 C_5 L_1}}{C_5 C_5 C_5 C_5 C_5 C_5 C_5 C_5 C_5 C_5}} + \frac{C_5}{C_5 C_5 C_5 C_5 C_5 C_5 C_5}}{C_5 C_5 C_5 C_5 C_5 C_5 C_5 C_5 C_5}} + \frac{C_5}{C_5 C_5 C_5 C_5 C_5 C_5 C_5}}{C_5 C_5 C_5 C_5 C_5 C_5 C_5 C_5 C_5}$

Qz: None Wz: $\sqrt{-\frac{g_m}{C_4C_5R_4}}$

9.3 INVALID-WZ-3 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_1 g_m + s^2 \left(C_4 C_5 L_1 R_4 R_5 g_m - C_4 C_5 L_1 R_4 \right) + s \left(C_4 L_1 R_4 g_m + C_5 L_1 R_5 g_m - C_5 L_1 \right)}{2 C_4 + C_5 + s^2 \left(2 C_4 C_5 L_1 R_4 g_m + 2 C_4 C_5 L_1 R_5 g_m + 2 C_4 C_5 L_1 \right) + s \left(C_4 C_5 R_4 + 2 C_4 C_5 R_5 + 2 C_4 L_1 g_m + 2 C_5 L_1 g_m \right)}$$

Parameters:

 $Q: \frac{\sqrt{2}C_{4}C_{5}L_{1}R_{4}g_{m}\sqrt{\frac{2C_{4}}{C_{4}C_{5}L_{1}R_{4}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \sqrt{2}C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}} + \sqrt{2}C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \sqrt{2}C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \sqrt{2}C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}}{C_{4}C_{5}L_{1}R_{5}g_{m}+C_{4}C_{5}L_{1}}} + \frac{C_{5}}{C_{4}C_{5}L_{1}R_{5}g_$ wo: $\sqrt{\frac{2C_4 + C_5}{2C_4 C_5 L_1 R_4 g_m + 2C_4 C_5 L_1 R_5 g_m + 2C_4 C_5 L_1}}$

 $\frac{2C_4 + C_5}{\sqrt{2C_4C_5L_1R_4g_m + 2C_4C_5L_1}} (C_4C_5R_4 + 2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m)}{\sqrt{2C_4C_5L_1R_4g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1}} + \sqrt{2C_4C_5L_1R_5g_m + 2C_4C_5L_1R_5g_m + 2C_4C_$

K-LP: $\frac{L_1g_m}{2C_4+C_5}$ K-HP: $\frac{R_4R_5g_m-R_4}{2R_4g_m+2R_5g_m+2}$

 $K-BP: \frac{C_4L_1R_4g_m\sqrt{\frac{2}{C_5L_1R_4g_m+C_5L_1}} + \frac{1}{C_4L_1R_4g_m+C_5L_1R_5g_m+C_5L_1} + \frac{1}{C_4L_1R_4g_m+C_5L_1R_5g_m+C_5L_1} + \frac{1}{C_4L_1R_4g_m+C_5L_1R_5g_m+C_5L_1} + \frac{1}{C_4L_1R_4g_m+C_5L_1R_5g_m+C_5L_1} + \frac{1}{C_4L_1R_4g_m+C_4L_1R_5g_m+C_4L_1} - C_5L_1\sqrt{\frac{2}{C_5L_1R_4g_m+C_5L_1}} + \frac{1}{C_4L_1R_4g_m+C_4L_1R_5g_m+C_4L_1} + \frac{1}{C_4L_1R_4g_m+C_4L_1R_5g_m+C_4L_1} + \frac{1}{C_4C_5R_4\sqrt{\frac{2C_4}{C_4C_5L_1R_4g_m+C_4C_5L_1}} + \frac{1}{C_4C_5R_5\sqrt{\frac{2C_4}{C_4C_5L_1R_4g_m+C_4C_5L_1}} + \frac{1}{C_4C_5L_1R_4g_m+C_4C_5L_1} + \frac{1}{C_4C_5L_1R_4g_m+C_4C_5L_1$

Wz: $\sqrt{\frac{g_m}{C_4 C_5 R_4 R_5 g_m - C_4 C_5 R_4}}$

9.4 INVALID-WZ-4
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5R_1R_4s^2 + R_4g_m + s\left(C_1R_1R_4g_m - C_5R_4\right)}{2g_m + s^2\left(2C_1C_5R_1R_4g_m + 2C_1C_5R_1 + C_1C_5R_4\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_5R_4g_m + 2C_5\right)}$$

9.5 INVALID-WZ-5 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_5R_1R_4R_5s^2 + R_4R_5g_m - R_4 + s\left(C_1R_1R_4R_5g_m - C_1R_1R_4 - C_5R_4R_5\right)}{2R_4g_m + 2R_5g_m + s^2\left(2C_1C_5R_1R_4R_5g_m + 2C_1C_5R_1R_5 + C_1C_5R_4R_5\right) + s\left(2C_1R_1R_4g_m + 2C_1R_1R_5g_m + 2C_1R_1 + C_1R_4 + 2C_1R_5 + 2C_5R_4R_5g_m + 2C_5R_5\right) + 2C_3R_5g_m + 2C_3R_5g_$$

Parameters:

```
 \begin{array}{c} \operatorname{Q} \colon \frac{R_4g_m}{2\sqrt{2}C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_5+C_1C_5R_4R_5} + \frac{R_5g_m}{2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_5+C_1C_5R_4R_5} + 2\sqrt{2}C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_5+C_1C_5R_4R_5} + 2\sqrt{2}C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_5+C_1C_5R_4R_5} + 2\sqrt{2}C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_5+C_1C_5R_4R_5} + 2\sqrt{2}C_1C_5R_1R_4R_5g_m+2C_1R_5R_4R_5} + 2\sqrt{2}C_1C_5R_1R_4R_5g_m+2C_1R_5R_5} + 2\sqrt{2}C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_4R_5g_m+2C_1C_5R_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R_5G_1R
```

9.6 INVALID-WZ-6 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 g_m + s^2 \left(C_1 C_5 R_1 R_4 R_5 g_m - C_1 C_5 R_1 R_4\right) + s \left(C_1 R_1 R_4 g_m + C_5 R_4 R_5 g_m - C_5 R_4\right)}{2 g_m + s^2 \left(2 C_1 C_5 R_1 R_4 g_m + 2 C_1 C_5 R_1 R_5 g_m + 2 C_1 C_5 R_1 + C_1 C_5 R_4 + 2 C_1 C_5 R_5\right) + s \left(2 C_1 R_1 g_m + 2 C_1 + 2 C_5 R_4 g_m + 2 C_5 R_5 g_m + 2 C_5\right)}$$

Parameters:

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

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

9.7 INVALID-WZ-7 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_1 C_4 R_1 R_4 R_5 g_m - C_1 C_4 R_1 R_4\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_4 R_4 R_5 g_m - C_4 R_4\right) - 1}{2 g_m + s^2 \left(2 C_1 C_4 R_1 R_4 g_m + 2 C_1 C_4 R_1 R_5 g_m + 2 C_1 C_4 R_1 + C_1 C_4 R_4 + 2 C_1 C_4 R_5\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_4 R_4 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5\right)}$$

Parameters:

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

wo: $\sqrt{2}\sqrt{\frac{g_m}{2C_1C_4R_1R_4g_m+2C_1C_4R_1R_5g_m+2C_1C_4R_1+C_1C_4R_4+2C_1C_4R_5}}$

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

Wz: $\sqrt{\frac{1}{C_1 C_4 R_1 R_4}}$

INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (R_1, \infty, \infty, R_4, R_5, \infty)$

$$H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4}{2R_1 R_4 g_m + 2R_1 R_5 g_m + 2R_1 + R_4 + 2R_5}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(R_1, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_4 s + R_1 R_4 g_m}{2R_1 g_m + s \left(2C_5 R_1 R_4 g_m + 2C_5 R_1 + C_5 R_4\right) + 2}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(R_1, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5 R_1 R_4 R_5 s + R_1 R_4 R_5 g_m - R_1 R_4}{2R_1 R_4 g_m + 2R_1 R_5 g_m + 2R_1 + R_4 + 2R_5 + s \left(2C_5 R_1 R_4 R_5 g_m + 2C_5 R_1 R_5 + C_5 R_4 R_5\right)}$$

10.4 INVALID-ORDER-4 $Z(s) = \left(R_1, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 R_4 g_m + s \left(C_5 R_1 R_4 R_5 g_m - C_5 R_1 R_4\right)}{2 R_1 g_m + s \left(2 C_5 R_1 R_4 g_m + 2 C_5 R_1 R_5 g_m + 2 C_5 R_1 + C_5 R_4 + 2 C_5 R_5\right) + 2}$$

10.5 INVALID-ORDER-5 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1}{2R_1 g_m + s \left(2C_4 R_1 R_5 g_m + 2C_4 R_1 + 2C_4 R_5\right) + 1}$$

10.6 INVALID-ORDER-6 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 R_1 s + R_1 g_m}{2 C_4 C_5 R_1 s^2 + s \left(2 C_4 R_1 g_m + 2 C_4 + 2 C_5 R_1 g_m + C_5\right)}$$

10.7 INVALID-ORDER-7
$$Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

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

10.8 INVALID-ORDER-8
$$Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 L_5 R_1 g_m s^2 - C_5 R_1 s + R_1 g_m}{2 C_4 C_5 R_1 s^2 + s^3 \left(2 C_4 C_5 L_5 R_1 g_m + 2 C_4 C_5 L_5\right) + s \left(2 C_4 R_1 g_m + 2 C_4 + 2 C_5 R_1 g_m + C_5\right)}$$

10.9 INVALID-ORDER-9
$$Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_5R_1s^2 + L_5R_1g_ms - R_1}{2C_4C_5L_5R_1s^3 + 2C_4R_1s + 2R_1g_m + s^2\left(2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + 1}$$

10.10 INVALID-ORDER-10
$$Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5L_5R_1g_ms^2 + R_1g_m + s\left(C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_4C_5R_1R_5g_m + 2C_4C_5R_1 + 2C_4C_5R_5\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}$$

10.11 INVALID-ORDER-11 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_5s^2 - R_1R_5 + s\left(L_5R_1R_5g_m - L_5R_1\right)}{2C_4C_5L_5R_1R_5s^3 + 2R_1R_5g_m + R_5 + s^2\left(2C_4L_5R_1R_5g_m + 2C_4L_5R_1 + 2C_4L_5R_5 + 2C_5L_5R_1R_5g_m + C_5L_5R_5\right) + s\left(2C_4R_1R_5 + 2L_5R_1g_m + L_5\right)}$$

10.12 INVALID-ORDER-12 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_5 R_1 g_m s + R_1 R_5 g_m - R_1 + s^2 \left(C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right)}{2 R_1 g_m + s^3 \left(2 C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_5 R_1 + 2 C_4 C_5 L_5 R_5\right) + s^2 \left(2 C_4 L_5 R_1 g_m + 2 C_4 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(2 C_4 R_1 R_5 g_m + 2 C_4 R_1 + 2 C_4 R_5\right) + 1}$$

10.13 INVALID-ORDER-13 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_5s + R_1R_5g_m - R_1 + s^2\left(C_5L_5R_1R_5g_m - C_5L_5R_1\right)}{2R_1g_m + s^3\left(2C_4C_5L_5R_1R_5g_m + 2C_4C_5L_5R_1 + 2C_4C_5L_5R_5\right) + s^2\left(2C_4C_5R_1R_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.14 INVALID-ORDER-14 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

$$H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4}{2R_1 R_4 g_m + 2R_1 R_5 g_m + 2R_1 + R_4 + 2R_5 + s \left(2C_4 R_1 R_4 R_5 g_m + 2C_4 R_1 R_4 + 2C_4 R_4 R_5\right)}$$

10.15 INVALID-ORDER-15 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_5R_1R_4g_ms^2 - C_5R_1R_4s + R_1R_4g_m}{2R_1g_m + s^3\left(2C_4C_5L_5R_1R_4g_m + 2C_4C_5L_5R_4\right) + s^2\left(2C_4C_5R_1R_4 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4\right) + 2C_5R_1R_4g_m + 2C_4R_4 + 2C_5R_4R_4 +$$

10.16 INVALID-ORDER-16 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_4s^2 + L_5R_1R_4g_ms - R_1R_4}{2C_4C_5L_5R_1R_4s^3 + 2R_1R_4g_m + 2R_1 + R_4 + s^2\left(2C_4L_5R_1R_4g_m + 2C_4L_5R_4 + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1 + C_5L_5R_4\right) + s\left(2C_4R_1R_4 + 2L_5R_1g_m + 2L_5\right)}{2C_4C_5L_5R_1R_4s^3 + 2R_1R_4g_m + 2R_1 + R_4 + s^2\left(2C_4L_5R_1R_4g_m + 2C_4L_5R_4 + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1 + C_5L_5R_4\right) + s\left(2C_4R_1R_4 + 2L_5R_1g_m + 2L_5\right)}$$

10.17 INVALID-ORDER-17 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_5L_5R_1R_4g_ms^2 + R_1R_4g_m + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2R_1g_m + s^3\left(2C_4C_5L_5R_1R_4g_m + 2C_4C_5L_5R_4\right) + s^2\left(2C_4C_5R_1R_4R_5g_m + 2C_4C_5R_1R_4 + 2C_4C_5R_4R_5 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_5g_m + 2C_5R_1 + C_5R_4 + 2C_5R_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_5g_m + 2C_5R_1R_5g_m + 2C_5R_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_5g_m + 2C_5R_1R_5g_m + 2C_5R_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_5R_5g_m + 2C_5R_5R_5g_m + 2C_5R_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_5R_5g_m + 2C_5R_5R_5g_m + 2C_5R_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_5R_5g_m + 2C_5R_5R_5g_m + 2C_5R_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_4R_1R_4g_m + 2C_4R_5R_5g_m + 2C_5R_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_4R_1R_4g_m + 2C_4R_5R_5g_m + 2C_5R_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_4R_1R_4g_m + 2C_4R_5g_m + 2C_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_4R_5R_5g_m + 2C_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_4R_5R_5g_m + 2C_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_4R_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_4R_5g_m + 2C_5R_5g_m\right) + s\left(2C_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_5R_5g_m + 2C_5R_5g_$

10.18 INVALID-ORDER-18 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = \frac{-C_5L_5R_1R_4R_5s^2 - R_1R_4R_5s + s\left(L_5R_1R_4R_5g_m - L_5R_1R_4\right)}{2C_4C_5L_5R_1R_4R_5s^3 + 2R_1R_4R_5g_m + 2R_1R_5 + R_4R_5 + s^2\left(2C_4L_5R_1R_4R_5g_m + 2C_4L_5R_4R_5 + 2C_5L_5R_1R_4R_5g_m + 2C_5L_5R_1R_4 + 2C_4L_5R_4R_5\right) + s\left(2C_4R_1R_4R_5 + 2L_5R_1R_4g_m + 2L_5R_1R_5g_m + 2L_5R_1R_5g_$

10.19 INVALID-ORDER-19 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{L_5 R_1 R_4 g_m s + R_1 R_4 R_5 g_m - R_1 R_4 + s^2 \left(C_5 L_5 R_1 R_4 R_5 g_m - C_5 L_5 R_1 R_4 \right)}{2 R_1 R_4 g_m + 2 R_1 R_5 g_m + 2 R_1 + R_4 + 2 R_5 + s^3 \left(2 C_4 C_5 L_5 R_1 R_4 R_5 g_m + 2 C_4 L_5 R_1 R_4 g_m + 2 C_4 L_5 R_1 R_4 g_m + 2 C_5 L_5 R_1 R_4 g_m + 2 C_5 L_5 R_1 R_5 g_m + 2 C_5 L_5 R_1 R_4 g$

10.20 INVALID-ORDER-20 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_5L_5R_1R_4R_5g_m - C_5L_5R_1R_4\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^3\left(2C_4C_5L_5R_1R_4R_5g_m + 2C_4C_5L_5R_1R_4R_5 + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1 + C_5L_5R_4 + 2C_5L_5R_1 + C_5L_5R_4 + 2C_5L_5R_1 + C_5L_5R_4 + 2C_5L_5R_4 + 2C_5L_5R_5 + 2C_5L_5R_4 + 2C_5L_5R_5 + 2C_5L_5R_5 + 2C_5L_5R_5 + 2C_5L_5R_5 + 2C_5L_5R_5 + 2C_5L_5R_5 +$

10.21 INVALID-ORDER-21 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s \left(C_4 R_1 R_4 R_5 g_m - C_4 R_1 R_4 \right)}{2R_1 g_m + s \left(2C_4 R_1 R_4 g_m + 2C_4 R_1 R_5 g_m + 2C_4 R_1 + C_4 R_4 + 2C_4 R_5 \right) + 1}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_4C_5R_1R_4s^2 + R_1g_m + s\left(C_4R_1R_4g_m - C_5R_1\right)}{s^2\left(2C_4C_5R_1R_4g_m + 2C_4C_5R_1 + C_4C_5R_4\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}$$

10.23 INVALID-ORDER-23 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

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

10.24 INVALID-ORDER-24 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_4C_5L_5R_1R_4g_ms^3 + R_1g_m + s^2\left(-C_4C_5R_1R_4 + C_5L_5R_1g_m\right) + s\left(C_4R_1R_4g_m - C_5R_1\right)}{s^3\left(2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_4C_5R_1R_4g_m + 2C_4C_5R_1 + C_4C_5R_4\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}$$

10.25 INVALID-ORDER-25 $Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_5R_1R_4s^3 - R_1 + s^2\left(C_4L_5R_1R_4g_m - C_5L_5R_1\right) + s\left(-C_4R_1R_4 + L_5R_1g_m\right)}{2R_1g_m + s^3\left(2C_4C_5L_5R_1R_4g_m + 2C_4C_5L_5R_1 + C_4C_5L_5R_4\right) + s^2\left(2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_1 + C_4R_4\right) + 1}$$

10.26 INVALID-ORDER-26
$$Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_5R_1R_4g_ms^3 + R_1g_m + s^2\left(C_4C_5R_1R_4R_5g_m - C_4C_5R_1R_4 + C_5L_5R_1g_m\right) + s\left(C_4R_1R_4g_m + C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_4C_5R_1R_4g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1 + C_4C_5R_4 + 2C_4C_5R_5\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + 2C_4C_5R_1\right)}$$

10.27 INVALID-ORDER-27
$$Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_5R_1R_4R_5s^3 - R_1R_5 + s^2\left(C_4L_5R_1R_4R_5g_m - C_4L_5R_1R_4 - C_5L_5R_1R_5\right) + s\left(-C_4R_1R_4R_5 + L_5R_1R_5g_m - L_5R_1\right)}{2R_1R_5g_m + R_5 + s^3\left(2C_4C_5L_5R_1R_4g_m + 2C_4L_5R_1R_5g_m + 2C_4L_5R_1R_5g_m + 2C_4L_5R_1 + C_4L_5R_4 + 2C_4L_5R_5 + 2C_5L_5R_1R_5g_m + C_5L_5R_5\right) + s\left(2C_4R_1R_4R_5g_m + 2C_4R_1R_5 + C_4R_4R_5 + 2L_5R_1g_m + L_5\right)}$$

10.28 INVALID-ORDER-28
$$Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_5 R_1 R_4\right) + s^2 \left(C_4 L_5 R_1 R_4 g_m + C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1\right) + s \left(C_4 R_1 R_4 R_5 g_m - C_4 R_1 R_4 + L_5 R_1 g_m\right)}{2 R_1 g_m + s^3 \left(2 C_4 C_5 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_5 R_4 + 2 C_4 C_5 L_5 R_5\right) + s^2 \left(2 C_4 L_5 R_1 g_m + 2 C_4 L_5 + 2 C_5 L_5 R_1 g_m + C_5 L_5\right) + s \left(2 C_4 R_1 R_4 g_m + 2 C_4 R_1 R_5 g_m + 2 C_$$

10.29 INVALID-ORDER-29
$$Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_4 R_1 R_4 - C_5 R_1 R_5 \right)}{2 R_1 g_m + s^3 \left(2 C_4 C_5 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 C_5 R_1 R_5 g_m + 2 C_4 C_5 R_1 R_5 g_m + 2 C_4 R_1$$

10.30 INVALID-ORDER-30
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4R_1s^3 + C_4L_4R_1g_ms^2 - C_5R_1s + R_1g_m}{2C_4C_5R_1s^2 + s^3\left(2C_4C_5L_4R_1q_m + C_4C_5L_4\right) + s\left(2C_4R_1q_m + 2C_4 + 2C_5R_1q_m + C_5\right)}$$

10.31 INVALID-ORDER-31
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4R_1R_5s^3 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^2\left(C_4L_4R_1R_5g_m - C_4L_4R_1\right)}{2R_1g_m + s^3\left(2C_4C_5L_4R_1R_5g_m + C_4C_5L_4R_5\right) + s^2\left(2C_4C_5R_1R_5 + 2C_4L_4R_1g_m + C_4L_4\right) + s\left(2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.32 INVALID-ORDER-32
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4 L_4 R_1 g_m s^2 + R_1 g_m + s^3 \left(C_4 C_5 L_4 R_1 R_5 g_m - C_4 C_5 L_4 R_1 \right) + s \left(C_5 R_1 R_5 g_m - C_5 R_1 \right)}{s^3 \left(2 C_4 C_5 L_4 R_1 g_m + C_4 C_5 L_4 \right) + s^2 \left(2 C_4 C_5 R_1 R_5 g_m + 2 C_4 C_5 R_1 + 2 C_4 C_5 R_5 \right) + s \left(2 C_4 R_1 g_m + 2 C_4 + 2 C_5 R_1 g_m + C_5 \right)}$$

10.33 INVALID-ORDER-33
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_4L_5R_1g_ms^4 - C_4C_5L_4R_1s^3 - C_5R_1s + R_1g_m + s^2\left(C_4L_4R_1g_m + C_5L_5R_1g_m\right)}{2C_4C_5R_1s^2 + s^3\left(2C_4C_5L_4R_1g_m + C_4C_5L_4 + 2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}$$

10.34 INVALID-ORDER-34
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4L_5R_1s^4 + C_4L_4L_5R_1g_ms^3 + L_5R_1g_ms - R_1 + s^2\left(-C_4L_4R_1 - C_5L_5R_1\right)}{2C_4C_5L_5R_1s^3 + 2C_4R_1s + 2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + C_4C_5L_4L_5\right) + s^2\left(2C_4L_4R_1g_m + C_4L_4 + 2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + 1}$$

10.35 INVALID-ORDER-35
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_4L_5R_1g_ms^4 + R_1g_m + s^3\left(C_4C_5L_4R_1R_5g_m - C_4C_5L_4R_1\right) + s^2\left(C_4L_4R_1g_m + C_5L_5R_1g_m\right) + s\left(C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(2C_4C_5L_4R_1g_m + C_4C_5L_4 + 2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_4C_5R_1R_5g_m + 2C_4C_5R_1 + 2C_4C_5R_5\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}$$

10.36 INVALID-ORDER-36
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4L_5R_1R_5s^4 - R_1R_5 + s^3\left(C_4L_4L_5R_1R_5g_m - C_4L_4L_5R_1\right) + s^2\left(-C_4L_4R_1R_5 - C_5L_5R_1R_5\right) + s\left(L_5R_1R_5g_m - L_5R_1\right)}{2R_1R_5g_m + R_5 + s^4\left(2C_4C_5L_4L_5R_1R_5g_m + C_4C_5L_4L_5R_1\right) + s^2\left(2C_4L_4R_1R_5g_m + C_4L_4R_5\right) +$$

10.37 INVALID-ORDER-37
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_4L_4L_5R_1g_ms^3 + L_5R_1g_ms + R_1R_5g_m - R_1 + s^4\left(C_4C_5L_4L_5R_1R_5g_m - C_4C_5L_4L_5R_1\right) + s^2\left(C_4L_4R_1R_5g_m - C_4L_4R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right)}{2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + C_4C_5L_4L_5\right) + s^3\left(2C_4C_5L_5R_1R_5g_m + 2C_4C_5L_5R_1 + 2C_4C_5L_5R_5\right) + s^2\left(2C_4L_4R_1g_m + C_4L_4 + 2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_5\right) + s\left(2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_5\right) + s\left(2C_4R_1R_5g_m + 2C_4R_5\right) + s\left(2C_4$$

10.38 INVALID-ORDER-38
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4R_1R_5s^3 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^4\left(C_4C_5L_4L_5R_1R_5g_m - C_4C_5L_4L_5R_1\right) + s^2\left(C_4L_4R_1R_5g_m - C_4L_4R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right)}{2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + C_4C_5L_4L_5\right) + s^3\left(2C_4C_5L_4R_1R_5g_m + C_4C_5L_5R_1R_5g_m + 2C_4C_5L_5R_1\right) + s^2\left(2C_4C_5R_1R_5g_m - C_4L_4R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right)}$$

10.39 INVALID-ORDER-39
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right)$$

10.40 INVALID-ORDER-40
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

$$H(s) = \frac{-C_5L_4R_1R_5s^2 + s\left(L_4R_1R_5g_m - L_4R_1\right)}{2C_4C_5L_4R_1R_5s^3 + 2R_1R_5g_m + 2R_1 + 2R_5 + s^2\left(2C_4L_4R_1R_5g_m + 2C_4L_4R_1 + 2C_4L_4R_5 + 2C_5L_4R_1R_5g_m + C_5L_4R_5\right) + s\left(2C_5R_1R_5 + 2L_4R_1g_m + L_4\right)}{2C_4C_5L_4R_1R_5s^3 + 2R_1R_5g_m + 2R_1 + 2R_5 + s^2\left(2C_4L_4R_1R_5g_m + 2C_4L_4R_1 + 2C_4L_4R_5 + 2C_5L_4R_1R_5g_m + C_5L_4R_5\right) + s\left(2C_5R_1R_5 + 2L_4R_1g_m + L_4\right)}$$

10.41 INVALID-ORDER-41
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4 R_1 g_m s + s^2 \left(C_5 L_4 R_1 R_5 g_m - C_5 L_4 R_1\right)}{2 R_1 g_m + s^3 \left(2 C_4 C_5 L_4 R_1 R_5 g_m + 2 C_4 C_5 L_4 R_1 + 2 C_4 C_5 L_4 R_5\right) + s^2 \left(2 C_4 L_4 R_1 g_m + 2 C_4 L_4 + 2 C_5 L_4 R_1 g_m + C_5 L_4\right) + s \left(2 C_5 R_1 R_5 g_m + 2 C_5 R_1 + 2 C_5 R_5\right) + 2 C_5 R_5 + 2 C_$$

10.42 INVALID-ORDER-42
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, L_5s + \frac{1}{C_5s}, \infty\right)$$

10.43 INVALID-ORDER-43
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

$$H(s) = \frac{-C_5L_4L_5R_1s^3 + L_4L_5R_1g_ms^2 - L_4R_1s}{2C_4C_5L_4L_5R_1s^4 + 2R_1 + s^3\left(2C_4L_4L_5R_1g_m + 2C_4L_4L_5 + 2C_5L_4L_5R_1g_m + C_5L_4L_5\right) + s^2\left(2C_4L_4R_1 + 2C_5L_5R_1\right) + s\left(2L_4R_1g_m + L_4 + 2L_5R_1g_m + 2L_5\right)}{2C_4C_5L_4L_5R_1s^4 + 2R_1 + s^3\left(2C_4L_4L_5R_1g_m + 2C_4L_4L_5 + 2C_5L_4L_5R_1g_m + C_5L_4L_5\right) + s^2\left(2C_4L_4R_1 + 2C_5L_5R_1\right) + s\left(2L_4R_1g_m + L_4 + 2L_5R_1g_m + 2L_5\right)}$$

10.44 INVALID-ORDER-44 $Z(s) = \left(R_1, \infty, \infty, \frac{L_{4s}}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{C_5L_4L_5R_1g_ms^3 + L_4R_1g_ms + s^2\left(C_5L_4R_1R_5g_m - C_5L_4R_1\right)}{2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + 2C_4C_5L_4L_5\right) + s^3\left(2C_4C_5L_4R_1R_5g_m + 2C_4C_5L_4R_1\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + 2C_4L_4 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_5R_1R_5g_m + 2C_5R_1 + 2C_5R_5\right) + s\left(2C_5R_1R_5g_m + 2C_5R_1 + 2C_5R_5\right) + s\left(2C_5R_1R_5g_m + 2C_5R_1R_5g_m + 2C_5R_5\right) + s\left(2C_5R_1R_5g_m + 2C_5R_5\right) + s\left(2C_5R_5R_5g_m + 2C_5R_5g_m + 2C_5R_5g_$$

10.45 INVALID-ORDER-45 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_4L_5R_1R_5s^3 - L_4R_1R_5s + s^2\left(L_4L_5R_1R_5g_m - L_4L_5R_1\right)}{2C_4C_5L_4L_5R_1R_5s^4 + 2R_1R_5 + s^3\left(2C_4L_4L_5R_1R_5g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4R_1R_5 + 2C_5L_4L_5R_1R_5 + 2C_5L_5R_1R_5 + 2C_5L_5R_1R_5$$

10.46 INVALID-ORDER-46 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$

$$H(s) = \frac{L_4 L_5 R_1 g_m s^2 + s^3 \left(C_5 L_4 L_5 R_1 R_5 g_m - C_5 L_4 L_5 R_1\right) + s \left(L_4 R_1 R_5 g_m - L_4 R_1\right)}{2 R_1 R_5 g_m + 2 R_1 + 2 R_5 + s^4 \left(2 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_4 L_5 L_4 L_5 R_1\right) + s^2 \left(2 C_4 L_4 R_1 R_5 g_m + C_5 L_4 L_5\right) + s^2 \left(2 C_4 L_4 R_1 R_5 g_m + 2 C_4 L_4 R_1 + 2 C_4 L_4 R_5 + 2 C_5 L_5 R_1 R_5 g_m + 2 C_5 L_5 R_1\right) + s \left(2 L_4 R_1 g_m + L_4 + 2 C_4 L_4 R_5 R_1 R_5 g_m + 2 C_4 L_4 R_5 R_1 R_5 g_m + 2 C_5 L_5 R_1 R_$$

10.47 INVALID-ORDER-47 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

$$H(s) = \frac{-C_5L_4R_1R_5s^2 + s^3\left(C_5L_4L_5R_1R_5g_m - C_5L_4L_5R_1\right) + s\left(L_4R_1R_5g_m - L_4R_1\right)}{2R_1R_5g_m + 2R_1 + 2R_5 + s^4\left(2C_4C_5L_4L_5R_1R_5g_m + 2C_4C_5L_4L_5R_1 + 2C_4C_5L_4L_5R_1\right) + s^2\left(2C_4L_4R_1R_5g_m + C_5L_4L_5\right) + s^2\left(2C_4L_4R_1R_5g_m + 2C_4L_4R_1 + 2C_4L_4R_5 + 2C_5L_4R_1R_5g_m + 2C_5L_5R_1R_5g_m + 2C_5L_5R_1\right) + s\left(2C_4C_5L_4R_1R_5g_m + 2C_4L_4R_1R_5g_m + 2C_4L_4R_1R_5g_m + 2C_4L_4R_1R_5g_m + 2C_5L_4R_1R_5g_m + 2C_5L_5R_1R_5g_m + 2C_5L_5R_1\right) + s\left(2C_4C_5L_4R_1R_5g_m + 2C_4L_4R_1R_5g_m + 2C_4L_4R_1R_5g_m + 2C_5L_4R_1R_5g_m + 2C_5L_5R_1R_5g_m + 2C_5L_5R$$

10.48 INVALID-ORDER-48 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_4R_1s^3 + R_1g_m + s^2\left(-C_4C_5R_1R_4 + C_4L_4R_1g_m\right) + s\left(C_4R_1R_4g_m - C_5R_1\right)}{s^3\left(2C_4C_5L_4R_1g_m + C_4C_5L_4\right) + s^2\left(2C_4C_5R_1R_4g_m + 2C_4C_5R_1 + C_4C_5R_4\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}$$

10.49 INVALID-ORDER-49 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_4R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(-C_4C_5R_1R_4R_5 + C_4L_4R_1R_5g_m - C_4L_4R_1\right) + s\left(C_4R_1R_4R_5g_m - C_4R_1R_4 - C_5R_1R_5\right)}{2R_1g_m + s^3\left(2C_4C_5L_4R_1R_5g_m + C_4C_5L_4R_5\right) + s^2\left(2C_4C_5R_1R_4R_5g_m + 2C_4C_5R_1R_5 + C_4C_5R_4R_5 + 2C_4L_4R_1g_m + C_4L_4\right) + s\left(2C_4R_1R_4g_m + 2C_4R_1R_5g_m + 2C_4R_1 + C_4R_4 + 2C_4R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}$$

10.50 INVALID-ORDER-50 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_1 g_m + s^3 \left(C_4 C_5 L_4 R_1 R_5 g_m - C_4 C_5 L_4 R_1\right) + s^2 \left(C_4 C_5 R_1 R_4 R_5 g_m - C_4 C_5 R_1 R_4 + C_4 L_4 R_1 g_m\right) + s \left(C_4 R_1 R_4 g_m + C_5 R_1 R_5 g_m - C_5 R_1\right)}{s^3 \left(2 C_4 C_5 L_4 R_1 g_m + C_4 C_5 L_4\right) + s^2 \left(2 C_4 C_5 R_1 R_4 g_m + 2 C_4 C_5 R_1 R_5 g_m + 2 C_4 C_5 R_1 + C_4 C_5 R_4 + 2 C_4 C_5 R_5\right) + s \left(2 C_4 R_1 g_m + 2 C_4 + 2 C_5 R_1 g_m + C_5\right)}$$

10.51 INVALID-ORDER-51 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_4C_5L_4L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_4C_5L_4R_1 + C_4C_5L_5R_1R_4g_m\right) + s^2\left(-C_4C_5R_1R_4 + C_4L_4R_1g_m + C_5L_5R_1g_m\right) + s\left(C_4R_1R_4g_m - C_5R_1\right)}{s^3\left(2C_4C_5L_4R_1g_m + C_4C_5L_4 + 2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_4C_5R_1R_4g_m + 2C_4C_5R_1 + C_4C_5R_4\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}$$

10.52 INVALID-ORDER-52 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_4L_5R_1s^4 - R_1 + s^3\left(-C_4C_5L_5R_1R_4 + C_4L_4L_5R_1g_m\right) + s^2\left(-C_4L_4R_1 + C_4L_5R_1R_4g_m - C_5L_5R_1\right) + s\left(-C_4R_1R_4 + L_5R_1g_m\right)}{2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + C_4C_5L_5R_1R_4g_m + 2C_4C_5L_5R_1 + C_4C_5L_5R_4\right) + s^2\left(2C_4L_4R_1g_m + C_4L_4 + 2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_1 + C_4R_4\right) + 1}$$

10.53 INVALID-ORDER-53 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_4C_5L_4L_5R_1g_ms^4 + R_1g_m + s^3\left(C_4C_5L_4R_1R_5g_m - C_4C_5L_4R_1 + C_4C_5L_5R_1R_4g_m\right) + s^2\left(C_4C_5R_1R_4R_5g_m - C_4C_5R_1R_4 + C_4L_4R_1g_m + C_5L_5R_1g_m\right) + s\left(C_4R_1R_4g_m + C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(2C_4C_5L_4R_1g_m + C_4C_5L_4 + 2C_4C_5L_5\right) + s^2\left(2C_4C_5R_1R_4g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1 + C_4C_5R_4 + 2C_4C_5R_5\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1\right)}$

10.54 INVALID-ORDER-54 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4L_5R_1R_5s^4 - R_1R_5 + s^3\left(-C_4C_5L_5R_1R_4R_5 + C_4L_4L_5R_1R_5g_m - C_4L_4R_1R_5 + C_4L_5R_1R_4R_5g_m - C_4L_5R_1R_4 - C_5L_5R_1R_5\right) + s\left(-C_4R_1R_4R_5 + L_5R_1R_5g_m - C_4L_4R_1R_5 + C_4L_5R_1R_4R_5g_m - C_4L_5R_1R_4g_m - C_4L_5R_1R_4$

10.55 INVALID-ORDER-55 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_4 C_5 L_4 L_5 R_1 R_5 g_m - C_4 C_5 L_4 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_5 R_1 R_4 + C_4 L_4 L_5 R_1 g_m \right) + s^2 \left(C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1 + C_4 L_5 R_1 R_4 g_m + C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1 \right) + s \left(C_4 R_1 R_4 R_5 g_m - C_4 R_1 R_4 + L_5 R_1 g_m \right)}{2 R_1 g_m + s^4 \left(2 C_4 C_5 L_4 L_5 R_1 g_m + C_4 C_5 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_5 R_1 + C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 L_5 R_1 g_m + C_5 L_5 R_1 g_m + C_5 L_5 R_1 R_4 g_m + 2 C_4 R_1 R_5 g_m + 2 C$

10.56 INVALID-ORDER-56 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_4 C_5 L_4 L_5 R_1 R_5 g_m - C_4 C_5 L_4 R_1 R_5 + C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1 R_5 g_m - C_5 L_5 R_1\right) + s^4 \left(2 C_4 C_5 L_4 L_5 R_1 g_m + C_4 C_5 L_4 L_5 R_1 g_m + C_4 C_5 L_5 R_1 R_5 g_m + C_4 C_5 L$

10.57 INVALID-ORDER-57 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5L_4R_1R_4s^2 + L_4R_1R_4g_ms}{2C_4C_5L_4R_1R_4s^3 + 2R_1R_4g_m + 2R_4 + s^2\left(2C_4L_4R_1R_4g_m + 2C_4L_4R_4 + 2C_5L_4R_1R_4g_m + 2C_5L_4R_1 + C_5L_4R_4\right) + s\left(2C_5R_1R_4 + 2L_4R_1g_m + 2L_4\right)}{2C_4C_5L_4R_1R_4s^3 + 2R_1R_4g_m + 2R_4 + s^2\left(2C_4L_4R_1R_4g_m + 2C_4L_4R_4 + 2C_5L_4R_1R_4g_m + 2C_5L_4R_1 + C_5L_4R_4\right) + s\left(2C_5R_1R_4 + 2L_4R_1g_m + 2L_4\right)}$$

10.58 INVALID-ORDER-58 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_4R_1R_4R_5s^2 + s\left(L_4R_1R_4R_5g_m - L_4R_1R_4\right)}{2C_4C_5L_4R_1R_4R_5s^3 + 2R_1R_4R_5g_m + 2R_1R_4 + 2R_4R_5 + s^2\left(2C_4L_4R_1R_4R_5g_m + 2C_4L_4R_1R_4 + 2C_4L_4R_4R_5 + 2C_5L_4R_1R_4 + 2C_5L_4R_1R_5 + C_5L_4R_4R_5\right) + s\left(2C_5R_1R_4R_5 + 2L_4R_1R_4g_m + 2L_4R_1R_5g_m + 2L_5R_1R_5g_m + 2L_5R_1R_5g_m + 2L_5R_1R_5g_m + 2L_5R_1R_5g_m + 2L_5R_1R_5g_m + 2L_5R_1R_5g_m +$$

10.59 INVALID-ORDER-59 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, R_5 + \frac{1}{C_5s}, \infty\right)$

$$H(s) = \frac{L_4 R_1 R_4 g_m s + s^2 \left(C_5 L_4 R_1 R_4 R_5 g_m - C_5 L_4 R_1 R_4\right)}{2 R_1 R_4 g_m + 2 R_4 + s^3 \left(2 C_4 C_5 L_4 R_1 R_4 R_5 g_m + 2 C_4 C_5 L_4 R_1 R_4 + 2 C_5 L_4 R_1 R_4 g_m + 2 C_5 L_4 R_1 R_4 g_m + 2 C_5 L_4 R_1 R_5 g_m + 2 C_5 L_4 R_1 R_5 g_m + 2 C_5 R_1 R_4 R_5 g_m + 2 C_5 R_1 R_4 R_5 g_m + 2 C_5 R_4 R_5 + 2 L_4 R_1 g_m + 2 L_4 R_5 g_m + 2 C_5 R_4 R_5 g_m + 2 C_5 R_5 g_m + 2 C_5 R_5 R_5 g_m + 2 C_5 R_5$$

10.60 INVALID-ORDER-60 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_4L_5R_1R_4g_ms^3 - C_5L_4R_1R_4s^2 + L_4R_1R_4g_ms}{2R_1R_4g_m + 2R_4 + s^4\left(2C_4C_5L_4L_5R_1R_4g_m + 2C_4C_5L_4L_5R_4\right) + s^3\left(2C_4C_5L_4R_1R_4 + 2C_5L_4L_5R_1g_m + 2C_4L_4R_4 + 2C_5L_4R_1R_4g_m + 2C_5L_4R_1 + C_5L_4R_4 + 2C_5L_5R_1R_4g_m + 2C_5L_5R_4\right) + s^2\left(2C_4L_4R_1R_4g_m + 2C_5L_4R_1R_4g_m + 2C_5L_4R_1 + C_5L_4R_4 + 2C_5L_5R_4\right) + s^2\left(2C_4L_4R_1R_4g_m + 2C_5L_4R_1R_4g_m + 2C_5L_4R_1 + C_5L_4R_4 + 2C_5L_5R_4\right) + s^2\left(2C_4L_4R_1R_4g_m + 2C_5L_4R_1R_4g_m + 2C_5L_4R_1 + C_5L_4R_4\right) + s^2\left(2C_4L_4R_1R_4g_m + 2C_5L_4R_1R_4g_m + 2C_5L_4R_1R_$$

10.61 INVALID-ORDER-61 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_4L_5R_1R_4s^3 + L_4L_5R_1R_4g_ms^2 - L_4R_1R_4s}{2C_4C_5L_4L_5R_1R_4s^4 + 2R_1R_4 + s^3\left(2C_4L_4L_5R_1R_4g_m + 2C_4L_4L_5R_1R_4g_m + 2C_5L_4L_5R_1 + C_5L_4L_5R_1\right) + s^2\left(2C_4L_4R_1R_4 + 2C_5L_5R_1R_4 + 2L_4L_5R_1g_m + 2L_4L_5\right) + s\left(2L_4R_1R_4g_m + 2L_4R_1 + L_4R_4 + 2L_5R_1R_4g_m + 2L_5R_4\right)}$$

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10.62 INVALID-ORDER-62 Z(s) = \left(R_1, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
\frac{C_5L_4L_5R_1R_4g_ms^3 + L_4R_1R_4g_ms + s^2\left(C_5L_4R_1R_4R_5g_m - C_5L_4R_1R_4\right)}{2R_1R_4g_m + 2R_4 + s^4\left(2C_4C_5L_4L_5R_1R_4g_m + 2C_4C_5L_4R_1R_4R_5g_m + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4g_m + 2C_5L_4L_5R_1g_m + 2C_5L_4L_5\right) + s^2\left(2C_4L_4R_1R_4g_m + 2C_4L_4R_4 + 2C_5L_4R_1R_4g_m + 2C_5L_4R_1R_4g_
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10.64 INVALID-ORDER-64 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

10.65 INVALID-ORDER-65 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $\textbf{10.66} \quad \textbf{INVALID-ORDER-66} \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \ \frac{1}{C_5s}, \ \infty \right)$ $H(s) = \frac{-C_4C_5L_4R_1R_4s^3 + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m - C_5L_4R_1 \right) + s\left(-C_5R_1R_4 + L_4R_1g_m \right)}{2R_1g_m + s^3\left(2C_4C_5L_4R_1R_4g_m + 2C_4C_5L_4R_1 + C_4C_5L_4R_4 \right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + C_5L_4 \right) + s\left(2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4 \right) + 2C_5R_1R_4g_m + 2C_5R_1R_4$

10.67 INVALID-ORDER-67 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4R_1R_4R_5s^3 + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_4L_4R_1R_4R_5g_m - C_4L_4R_1R_4 - C_5L_4R_1R_5\right) + s\left(-C_5R_1R_4R_5 + L_4R_1R_5g_m - L_4R_1\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^3\left(2C_4C_5L_4R_1R_4R_5g_m + 2C_4C_5L_4R_1R_5\right) + s\left(2C_4L_4R_1R_4g_m + 2C_4L_4R_1 + C_4L_4R_4 + 2C_4L_4R_5 + 2C_5L_4R_1R_5g_m + C_5L_4R_5\right) + s\left(2C_5R_1R_4R_5g_m + 2C_5R_1R_5 + C_5R_4R_5 + 2C_4R_5\right) + s\left(2C_5R_1R_4R_5g_m + 2C_4R_5\right) + s\left(2C_5R_1R_5 + 2C_5R_5R_5\right) + s\left(2C_5R_5R_5R_5 + 2C_5R_5R_5R_5\right) + s\left(2C_5R_5R_5R_5 + 2C_5R_5R_5R_5\right) + s\left(2C_5R_5R_5R_5 + 2C_5R_5R_5 + 2C_5R_5R_5\right) + s\left(2C_5R_5R_5R_5 + 2C_5R_5R_5R_5\right) +$

10.68 INVALID-ORDER-68 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1R_4g_m + s^3\left(C_4C_5L_4R_1R_4R_5g_m - C_4C_5L_4R_1R_4\right) + s^2\left(C_4L_4R_1R_4g_m + C_5L_4R_1R_5g_m - C_5L_4R_1\right) + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4 + L_4R_1g_m\right)}{2R_1g_m + s^3\left(2C_4C_5L_4R_1R_4g_m + 2C_4C_5L_4R_1R_5g_m + 2C_4C_5L_4R_1 + C_4C_5L_4R_4 + 2C_4C_5L_4R_5\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + C_5L_4\right) + s\left(2C_5R_1R_4g_m + 2C_5R_1R_5g_m + 2C_5R_1 + C_5R_4 + 2C_5R_5\right) + 2c_5R_1R_4g_m + 2c_4R_3g_m +$

10.69 INVALID-ORDER-69 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_4C_5L_4L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(-C_4C_5L_4R_1R_4 + C_5L_4L_5R_1g_m\right) + s^2\left(C_4L_4R_1R_4g_m - C_5L_4R_1 + C_5L_5R_1R_4g_m\right) + s\left(-C_5R_1R_4 + L_4R_1g_m\right)}{2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + 2C_4C_5L_4R_1R_4g_m + 2C_4C_5L_4R_1 + C_4C_5L_4R_4\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + C_5L_4 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4\right) + s\left(2C_4R_1R_4g_m + 2C_4R_1R_4g_m + 2$

10.70 INVALID-ORDER-70 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4L_5R_1R_4s^4 - R_1R_4 + s^3\left(C_4L_4L_5R_1R_4g_m - C_5L_4L_5R_1\right) + s^2\left(-C_4L_4R_1R_4 - C_5L_5R_1R_4 + L_4L_5R_1g_m\right) + s\left(-L_4R_1 + L_5R_1R_4g_m\right)}{2R_1R_4g_m + 2R_1 + R_4 + s^4\left(2C_4C_5L_4L_5R_1R_4g_m + 2C_4L_4E_5R_1g_m + 2C_4L_4E_5R_1g_m + 2C_4L_4E_5R_1g_m + 2C_4L_4R_1R_4g_m + 2C_4L_4R_1 + C_4L_4R_4 + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1 + C_5L_5R_4\right) + s\left(2C_4R_1R_4g_m + 2C_4L_4R_1R_4g_m + 2C_4L_4R_1R_4g_m + 2C_4L_4R_1 + 2C_5L_5R_1R_4g_m + 2C_5L_5$

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10.71 INVALID-ORDER-71 Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
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$$H(s) = \frac{C_4C_5L_4L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(C_4C_5L_4R_1R_4R_5g_m - C_4C_5L_4R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_5L_4R_1R_5g_m - C_5L_4R_1 + C_5L_5R_1R_4g_m\right) + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4 + L_4R_1g_m\right)}{2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + 2C_4C_5L_4R_1R_4g_m + 2C_4C_5L_4R_1 + C_4C_5L_4R_1 + C_4C_5L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + 2C_5L_5\right) + s\left(2C_5R_1R_4g_m + 2C_5R_1R_5g_m +$$

10.72 INVALID-ORDER-72 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

 $-C_4C_5L_4L_5K_1K_4K_5s^{2} - K_1K_4K_5s^{2} - K_1K_4K_5g_m - C_4L_4L_5K_1K_4 - C_5L_4L_5K_1K_5 - C_5L_5K_1K_4K_5 - C_5L_5K_1K_5 - C_5L_5K_$

10.73 INVALID-ORDER-73 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_1R_4R_5g_m - R_1R_4 + s^4\left(C_4C_5L_4L_5R_1R_4g_m - C_4C_5L_4L_5R_1R_4g_m + C_5L_4L_5R_1R_5g_m - C_5L_4L_5R_1\right) + s^2\left(C_4L_4R_1R_4R_5g_m - C_4L_4R_1R_4 + C_5L_5R_1R_4g_m - C_5L_5R_1R_4R_5g_m - C_5R_1R_4R_5g_m - C_5R_1R_5R_1R_5g_m - C_5R_1R_5R_5g_m - C_5R_1R_5g_m - C_5R_1R_5R_5g_m - C_5R_1R_5R_5g_m - C_5R_1R_5R_5g_m - C_5R_1R_5R_5g_m - C_5R_1R_5R_5g_m - C_5R_1R_5R_5g_m - C_5R_1R_5R_5g$

10.74 INVALID-ORDER-74 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $R_{1}R_{4}R_{5}g_{m} - R_{1}R_{4} + s^{4}\left(C_{4}C_{5}L_{4}L_{5}R_{1}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{4}L_{5}R_{1}R_{4}\right) + s^{3}\left(-C_{4}C_{5}L_{4}R_{1}R_{4}R_{5} + C_{5}L_{4}L_{5}R_{1}R_{5}g_{m} - C_{5}L_{4}L_{5}R_{1}\right) + s^{2}\left(C_{4}L_{4}R_{1}R_{4}R_{5}g_{m} - C_{5}L_{4}L_{5}R_{1}R_{5}g_{m} - C_{5}L_{4}L_{5}R_{1}\right) + s^{2}\left(C_{4}L_{4}R_{1}R_{4}R_{5}g_{m} - C_{5}L_{4}L_{5}R_{1}R_{5}g_{m} - C_{5}L_{4}L_{5}R_{1}R_{5}g_{m}\right) + s^{2}\left(C_{4}L_{4}R_{1}R_{4}R_{5}g_{m} - C_{5}L_{4}L_{5}R_{1}R_{5}g_{m} - C_{5}L_{4}L_{5}R_{1}R_{5}g_{m}\right) + s^{2}\left(C_{4}L_{5}R_{1}R_{5}g_{m} - C_{5}L_{5}L_{5}R_{1}R_{5}g_{m}\right) + s^{2}\left(C_{4}L_{5}R_{1}R_{5}g_{m} - C_{5}L_{5}R_{1}R_{5}g_{m}\right) + s^{2}\left(C_{4}L_{5}R_{1}R_{5}g_{m} - C_{5}L_{5}R_{5}R_{5}g_{m}\right) + s^{2}\left(C_{4}L_{5}R_{1}R_{5}g_{m} - C_{5}L_{5}R_{5}R_{5}g_{m}\right) + s^{2}\left(C_{4}L_{5}R_{5}R_{5}g_{m} - C_{5}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{4}L_{5}R_{5}R_{5}g_{m} - C_{5}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{5}L_{5}R_{5}R_{5}g_{m} - C_{5}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{5}L_{5}R_{5}g_{m} - C_{5}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{5}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{5}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{5}R_{5}g_{m}\right) + s^{2}\left(C_{5}R_{5}g_{m}\right) + s^{2}\left(C_{5}R_{5}g_{m}\right) + s^{2}\left(C_{5}R_{5}g_{m}\right)$ $H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^4 \left(C_4 C_5 L_4 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_4 L_5 R_1 R_4 R_5 - C_5 L_4 L_5 R_1 R_5 g_m - C_5 L_4 L_5 R_1 R_4 R_5 g_m - C_5 L_4 L_5 R_1 R_5 g_m - C_5 L_4 L_5$

10.75 INVALID-ORDER-75 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$

10.76 INVALID-ORDER-76 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $\frac{-C_4C_5L_4R_1R_4R_5s^3-C_5R_1R_4R_5s+R_1R_4R_5g_m-R_1R_4+s^2\left(C_4L_4R_1R_4R_5g_m-C_4L_4R_1R_4\right)}{2R_1R_4g_m+2R_1R_5g_m+2R_1+R_4+2R_5+s^3\left(2C_4C_5L_4R_1R_4R_5g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1+C_4L_4R_4+2C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1+C_4L_4R_4+2C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1+C_4L_4R_4+2C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1+C_4L_4R_4+2C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1+C_4L_4R_4+2C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1+C_4L_4R_4+2C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1+C_4L_4R_4+2C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4L_4R_1R_4g_m+2C_4L_4R_1+C_4L_4R_4+2C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4R_4R_5g_m+2C_4L_4R_1+C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4R_4R_5g_m+2C_4L_4R_1+C_4L_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4R_4R_5g_m+2C_4R_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4R_4R_5g_m+2C_4R_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4R_4R_5g_m+2C_4R_4R_5g_m+2C_4R_4R_5\right)+s\left(2C_4R_1R_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5g_m+2C_4R_5$

10.77 INVALID-ORDER-77 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_4L_4R_1R_4g_ms^2 + R_1R_4g_m + s^3\left(C_4C_5L_4R_1R_4R_5g_m - C_4C_5L_4R_1R_4\right) + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2R_1g_m + s^3\left(2C_4C_5L_4R_1R_4g_m + 2C_4C_5L_4R_1R_5g_m + 2C_4C_5L_4R_1\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4g_m + 2C_4R_4\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_5g_m + 2C_5R_1R_5g_$

10.78 INVALID-ORDER-78 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_4C_5L_4L_5R_1R_4g_ms^4 - C_4C_5L_4R_1R_4s^3 - C_5R_1R_4s + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_5L_5R_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + 2C_4C_5L_4R_1R_4g_m + 2C_4C_5L_4R_1 + C_4C_5L_4R_4 + 2C_4C_5L_5R_1R_4g_m + 2C_4L_4 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4g_m + 2C_5R_1R_4g_m + 2C_5R_1R_4g_m + 2C_5R_1R_4g_m + 2C_4R_4 + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_4R_4 + 2C_4R_4R_4g_m + 2C_4R_4R_4g_m$

10.79 INVALID-ORDER-79 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4L_5R_1R_4s^4 + C_4L_4L_5R_1R_4g_ms^3 + L_5R_1R_4g_ms - R_1R_4 + s^2\left(-C_4L_4R_1R_4 - C_5L_5R_1R_4\right)}{2R_1R_4g_m + 2R_1 + R_4 + s^4\left(2C_4C_5L_4L_5R_1R_4g_m + 2C_4L_5R_1 + C_4C_5L_4L_5R_1\right) + s^3\left(2C_4C_5L_4L_5R_1R_4g_m + 2C_4L_4L_5\right) + s^2\left(2C_4L_4R_1R_4g_m + 2C_4L_4R_1 + C_4L_4R_4 + 2C_4L_5R_1R_4g_m + 2C_4L_5R_1R_4g_m + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1R_4g_m + 2C_4L_5R_1R_4g_m + 2C_4L_5R_1R_$

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10.80 INVALID-ORDER-80 Z(s) = \left(R_1, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
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 $H(s) = \frac{C_4C_5L_4L_5R_1R_4g_m + s^3\left(C_4C_5L_4R_1R_4g_m + s^3\left(C_4C_5L_4R_1R_4g_m + C_5L_5R_1R_4g_m + C_5L_5R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m$

10.81 INVALID-ORDER-81 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4L_5R_1R_4R_5s^4 - R_1R_4R_5s^4 - R_1R_4R_5s^4$

10.82 INVALID-ORDER-82 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{C_4L_4L_5R_1R_4g_ms^3 + L_5R_1R_4g_ms + R_1R_4R_5g_m - R_1R_4 + s^4\left(C_4C_5L_4L_5R_1R_4R_5g_m - C_4C_5L_4L_5R_1R_4\right) + s^2}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1R_4g_m + 2R_1R_5g_m + 2R_4R_5g_m +$

10.83 INVALID-ORDER-83 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4R_1R_4R_5s^3 - C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4 + s^4\left(C_4C_5L_4L_5R_1R_4g_m - C_4C_5L_4L_5R_1R_4g_m - C_4C_5L_4L_5R_1R_4g_m + 2C_4C_5L_4L_5R_1R_4g_m + 2C_4C_5L_4L_5R_1 + C_4C_5L_4L_5R_1 + C_4C_5L_4L_5R_1 + C_4C_5L_4L_5R_1 + C_4C_5L_4R_1R_5g_m + 2C_4C_5L_4R_1R_5g_m + 2C_4C_5L_4R_1R$

10.84 INVALID-ORDER-84 $Z(s) = (L_1 s, \infty, \infty, R_4, R_5, \infty)$

$$H(s) = \frac{s (L_1 R_4 R_5 g_m - L_1 R_4)}{R_4 + 2R_5 + s (2L_1 R_4 g_m + 2L_1 R_5 g_m + 2L_1)}$$

10.85 INVALID-ORDER-85 $Z(s) = \left(L_1 s, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 R_4 g_m s^3 - C_5 L_1 R_4 s^2 + L_1 R_4 g_m s}{2 C_5 L_1 L_5 g_m s^3 + s^2 \left(2 C_5 L_1 R_4 g_m + 2 C_5 L_1 + 2 C_5 L_5\right) + s \left(C_5 R_4 + 2 L_1 g_m\right) + 2}$$

10.86 INVALID-ORDER-86 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_4s^3 + L_1L_5R_4g_ms^2 - L_1R_4s}{R_4 + s^3\left(2C_5L_1L_5R_4g_m + 2C_5L_1L_5\right) + s^2\left(C_5L_5R_4 + 2L_1L_5g_m\right) + s\left(2L_1R_4g_m + 2L_1 + 2L_5\right)}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(L_1 s, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_1L_5R_4g_ms^3 + L_1R_4g_ms + s^2\left(C_5L_1R_4R_5g_m - C_5L_1R_4\right)}{2C_5L_1L_5q_ms^3 + s^2\left(2C_5L_1R_4q_m + 2C_5L_1R_5q_m + 2C_5L_1 + 2C_5L_5\right) + s\left(C_5R_4 + 2C_5R_5 + 2L_1q_m\right) + 2C_5L_5R_5 + 2C_5R_5 +$$

10.88 INVALID-ORDER-88 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_4R_5s^3 - L_1R_4R_5s + s^2\left(L_1L_5R_4R_5g_m - L_1L_5R_4\right)}{R_4R_5 + s^3\left(2C_5L_1L_5R_4R_5g_m + 2C_5L_1L_5R_5\right) + s^2\left(C_5L_5R_4R_5 + 2L_1L_5R_4g_m + 2L_1L_5R_5g_m + 2L_1L_5\right) + s\left(2L_1R_4R_5g_m + 2L_1R_5 + L_5R_4 + 2L_5R_5\right)}$$

10.89 INVALID-ORDER-89
$$Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_1 L_5 R_4 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_4 R_5 g_m - C_5 L_1 L_5 R_4\right) + s \left(L_1 R_4 R_5 g_m - L_1 R_4\right)}{R_4 + 2 R_5 + s^3 \left(2 C_5 L_1 L_5 R_4 g_m + 2 C_5 L_1 L_5 R_5 g_m + 2 C_5 L_1 L_5\right) + s^2 \left(C_5 L_5 R_4 + 2 C_5 L_5 R_5 + 2 L_1 L_5 g_m\right) + s \left(2 L_1 R_4 g_m + 2 L_1 R_5 g_m + 2 L_1 + 2 L_5\right)}$$

10.90 INVALID-ORDER-90
$$Z(s) = \left(L_1 s, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_1R_4R_5s^2 + s^3\left(C_5L_1L_5R_4R_5g_m - C_5L_1L_5R_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)}{R_4 + 2R_5 + s^3\left(2C_5L_1L_5R_4g_m + 2C_5L_1L_5R_5g_m + 2C_5L_1L_5\right) + s^2\left(2C_5L_1R_4R_5g_m + 2C_5L_1R_5 + C_5L_5R_4 + 2C_5L_5R_5\right) + s\left(C_5R_4R_5 + 2L_1R_4g_m + 2L_1R_5g_m + 2L_1R_5g_m\right)}$$

10.91 INVALID-ORDER-91 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_5s^2 + s\left(L_1R_5g_m - L_1\right)}{2C_4C_5L_1R_5s^3 + s^2\left(2C_4L_1R_5g_m + 2C_4L_1 + 2C_5L_1R_5g_m\right) + s\left(2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.92 INVALID-ORDER-92 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5 L_1 L_5 g_m s^2 - C_5 L_1 s + L_1 g_m}{2C_4 C_5 L_1 L_5 g_m s^3 + 2C_4 + C_5 + s^2 \left(2C_4 C_5 L_1 + 2C_4 C_5 L_5\right) + s \left(2C_4 L_1 g_m + 2C_5 L_1 g_m\right)}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5 L_1 L_5 s^3 + L_1 L_5 g_m s^2 - L_1 s}{2C_4 C_5 L_1 L_5 s^4 + 2L_1 g_m s + s^3 \left(2C_4 L_1 L_5 g_m + 2C_5 L_1 L_5 g_m\right) + s^2 \left(2C_4 L_1 + 2C_4 L_5 + C_5 L_5\right) + 1}$$

10.94 INVALID-ORDER-94 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_1L_5g_ms^2 + L_1g_m + s\left(C_5L_1R_5g_m - C_5L_1\right)}{2C_4C_5L_1L_5g_ms^3 + 2C_4 + C_5 + s^2\left(2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + 2C_4C_5L_5\right) + s\left(2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.95 INVALID-ORDER-95 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_5s^3 - L_1R_5s + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{2C_4C_5L_1L_5R_5s^4 + R_5 + s^3\left(2C_4L_1L_5R_5g_m + 2C_4L_1L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(2C_4L_1R_5 + 2C_4L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(2L_1R_5g_m + L_5\right)}$$

10.96 INVALID-ORDER-96 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_1 L_5 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s \left(L_1 R_5 g_m - L_1\right)}{s^4 \left(2 C_4 C_5 L_1 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_5\right) + s^3 \left(2 C_4 C_5 L_5 R_5 + 2 C_4 L_1 L_5 g_m + 2 C_5 L_1 L_5 g_m\right) + s^2 \left(2 C_4 L_1 R_5 g_m + 2 C_4 L_1 + 2 C_4 L_5 + C_5 L_5\right) + s \left(2 C_4 R_5 + 2 L_1 g_m\right) + 1}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_5s^2 + s^3\left(C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s\left(L_1R_5g_m - L_1\right)}{s^4\left(2C_4C_5L_1L_5R_5g_m + 2C_4C_5L_1L_5\right) + s^3\left(2C_4C_5L_1R_5 + 2C_4C_5L_1R_5g_m\right) + s^2\left(2C_4L_1R_5g_m + 2C_4L_1 + 2C_5L_1R_5g_m + C_5L_5\right) + s\left(2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.98 INVALID-ORDER-98 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_4s^2 + L_1R_4g_ms}{2C_4C_5L_1R_4s^3 + s^2\left(2C_4L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1\right) + s\left(2C_4R_4 + C_5R_4 + 2L_1g_m\right) + 2C_5L_1R_4s^2 + L_1R_4g_ms}$$

10.99 INVALID-ORDER-99 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_4R_5s^2 + s\left(L_1R_4R_5g_m - L_1R_4\right)}{2C_4C_5L_1R_4R_5s^3 + R_4 + 2R_5 + s^2\left(2C_4L_1R_4R_5g_m + 2C_4L_1R_4 + 2C_5L_1R_4R_5g_m + 2C_5L_1R_5\right) + s\left(2C_4R_4R_5 + C_5R_4R_5 + 2L_1R_4g_m + 2L_1R_5g_m + 2L_1\right)}$$

10.100 INVALID-ORDER-100 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{L_1 R_4 g_m s + s^2 \left(C_5 L_1 R_4 R_5 g_m - C_5 L_1 R_4\right)}{s^3 \left(2 C_4 C_5 L_1 R_4 R_5 g_m + 2 C_4 C_5 L_1 R_4\right) + s^2 \left(2 C_4 C_5 R_4 R_5 + 2 C_4 L_1 R_4 g_m + 2 C_5 L_1 R_4 g_m + 2 C_5 L_1 R_5 g_m + 2 C_5 L_1\right) + s \left(2 C_4 R_4 + C_5 R_4 + 2 C_5 R_5 + 2 L_1 g_m\right) + 2 C_5 L_1 R_4 g_m + 2 C_5 L_1 R_5 g_m + 2 C_5 L_$$

10.101 INVALID-ORDER-101 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_1L_5R_4g_ms^3 - C_5L_1R_4s^2 + L_1R_4g_ms}{2C_4C_5L_1L_5R_4g_ms^4 + s^3\left(2C_4C_5L_1R_4 + 2C_4C_5L_5R_4 + 2C_5L_1L_5g_m\right) + s^2\left(2C_4L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1 + 2C_5L_5\right) + s\left(2C_4R_4 + C_5R_4 + 2L_1g_m\right) + 2C_5L_5R_4g_ms^4 + s^2\left(2C_4R_4 + C_5R_4 + 2L_1g_m\right) + 2C_5L_5R_4g_ms^4 + 2C_5L_5R_5g_ms^4 + 2C_5L_5R_5g_ms^5 + 2C_5L_5R_5g$$

10.102 INVALID-ORDER-102 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_4s^3 + L_1L_5R_4g_ms^2 - L_1R_4s}{2C_4C_5L_1L_5R_4s^4 + R_4 + s^3\left(2C_4L_1L_5R_4g_m + 2C_5L_1L_5R_4g_m + 2C_5L_1L_5\right) + s^2\left(2C_4L_1R_4 + 2C_4L_5R_4 + C_5L_5R_4 + 2L_1L_5g_m\right) + s\left(2L_1R_4g_m + 2L_1 + 2L_5\right)}{2C_4C_5L_1L_5R_4s^4 + R_4 + s^3\left(2C_4L_1L_5R_4g_m + 2C_5L_1L_5R_4g_m + 2C_5L_1L_5\right) + s^2\left(2C_4L_1R_4 + 2C_4L_5R_4 + 2L_1L_5g_m\right) + s\left(2L_1R_4g_m + 2L_1 + 2L_5\right)}$$

10.103 INVALID-ORDER-103 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_1L_5R_4g_ms^3 + L_1R_4g_ms + s^2\left(C_5L_1R_4R_5g_m - C_5L_1R_4\right)}{2C_4C_5L_1L_5R_4g_ms^4 + s^3\left(2C_4C_5L_1R_4R_5g_m + 2C_4C_5L_1R_4 + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_4C_5R_4R_5 + 2C_4L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_5g_m + 2C_5L_1 + 2C_5L_5\right) + s\left(2C_4R_4 + C_5R_4 + 2C_5R_5 + 2L_1g_m\right) + 2C_5R_5R_4g_ms^2 + 2C_5R_5R_5g_ms^2 + 2C_5R_5g_ms^2 + 2C_5R_5R_5g_ms^2 + 2C_5R_5g_ms^2 +$$

10.104 INVALID-ORDER-104 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_5R_4R_5s^3 - L_1R_4R_5s + s^2\left(L_1L_5R_4R_5g_m - L_1L_5R_4\right)}{2C_4C_5L_1L_5R_4R_5s^4 + R_4R_5 + s^3\left(2C_4L_1L_5R_4R_5g_m + 2C_4L_1L_5R_4 + 2C_5L_1L_5R_6g_m + 2C_5L_1L_5R_5\right) + s^2\left(2C_4L_1R_4R_5 + 2C_4L_5R_4R_5 + 2C_4L_5R_4R_5 + 2L_1L_5R_4g_m + 2L_1L_5\right) + s\left(2L_1R_4R_5g_m + 2L_1R_5 + L_5R_4 + 2L_5R_5\right)}$$

10.105 INVALID-ORDER-105 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_1 L_5 R_4 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_4 R_5 g_m - C_5 L_1 L_5 R_4\right) + s \left(L_1 R_4 R_5 g_m - L_1 R_4\right)}{R_4 + 2 R_5 + s^4 \left(2 C_4 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_4 L_5 L_5 R_4 R_5 + 2 C_4 L_1 L_5 R_4 g_m + 2 C_5 L_1 L_5 R_4 g_m + 2 C_5 L_1 L_5\right) + s^2 \left(2 C_4 L_1 R_4 R_5 g_m + 2 C_4 L_1 R_4 + 2 C_4 L_5 R_4 + C_5 L_5 R_5 + 2 L_1 L_5 g_m\right) + s \left(2 C_4 R_4 R_5 + 2 L_1 R_4 g_m + 2 L_1 R_5 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_5 L_1 L_5 R_4 g_m + 2 C_5 L_1 L_5 R_4 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_4 L_5 R_4 + 2 C_5 L_5 R_5 + 2 L_1 L_5 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_5 L_1 L_5 R_4 g_m + 2 C_5 L_5 R_5 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_5 L_5 R_5 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_5 L_5 R_5 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_5 L_5 R_5 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_5 L_5 R_5 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_5 L_5 R_5 g_m\right) + s \left(2 C_4 R_4 R_5 g_m + 2 C_5 L_5 R_5 g_m\right) + s \left(2 C_4 R_5 R_5 g_m + 2 C_5 R_5 g_m\right) + s \left(2 C_4 R_5 R_5 g_m + 2 C_5 R_5 g_m\right) + s \left(2 C_5 R_5 R_5 g_m\right) + s \left(2 C_5 R_5 R_5 g_m\right$$

10.106 INVALID-ORDER-106 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1R_4R_5s^2 + s^3\left(C_5L_1L_5R_4R_5g_m - C_5L_1L_5R_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)}{R_4 + 2R_5 + s^4\left(2C_4C_5L_1L_5R_4g_m + 2C_4L_1L_5R_4\right) + s^3\left(2C_4C_5L_1R_4R_5 + 2C_4C_5L_1R_4R_5 + 2C_5L_1L_5R_4g_m + 2C_5L_1L_5\right) + s^2\left(2C_4L_1R_4R_5g_m + 2C_4L_1R_4 + 2C_5L_1R_5 + C_5L_5R_4 + 2C_5L_5R_5\right) + s\left(2C_4R_4R_5 + 2C_5L_1R_5R_5g_m + 2C_5L_1L_5\right) + s^2\left(2C_4L_1R_4R_5g_m + 2C_4L_1R_4 + 2C_5L_1R_5 + C_5L_5R_4 + 2C_5L_5R_5\right) + s\left(2C_4R_4R_5 + 2C_5L_1R_5R_5g_m + 2C_5L_1R_5\right) + s\left(2C_4R_4R_5g_m + 2C_5L_1$$

10.107 INVALID-ORDER-107
$$Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1R_4R_5s^3 + s^2\left(C_4L_1R_4R_5g_m - C_4L_1R_4 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{s^3\left(2C_4C_5L_1R_4R_5g_m + 2C_4C_5L_1R_5\right) + s^2\left(C_4C_5R_4R_5 + 2C_4L_1R_4g_m + 2C_4L_1R_5g_m + 2C_4L_1 + 2C_5L_1R_5g_m\right) + s\left(C_4R_4 + 2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.108 INVALID-ORDER-108
$$Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_1L_5R_4g_ms^3 + L_1g_m + s^2\left(-C_4C_5L_1R_4 + C_5L_1L_5g_m\right) + s\left(C_4L_1R_4g_m - C_5L_1\right)}{2C_4C_5L_1L_5g_ms^3 + 2C_4 + C_5 + s^2\left(2C_4C_5L_1R_4g_m + 2C_4C_5L_1 + 2C_4C_5L_5\right) + s\left(C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.109 INVALID-ORDER-109
$$Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_5R_4s^4 - L_1s + s^3\left(C_4L_1L_5R_4g_m - C_5L_1L_5\right) + s^2\left(-C_4L_1R_4 + L_1L_5g_m\right)}{s^4\left(2C_4C_5L_1L_5R_4g_m + 2C_4C_5L_1L_5\right) + s^3\left(C_4C_5L_5R_4 + 2C_4L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_4L_1R_4g_m + 2C_4L_1 + 2C_4L_5 + C_5L_5\right) + s\left(C_4R_4 + 2L_1g_m\right) + 1}$$

10.110 INVALID-ORDER-110
$$Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_1L_5R_4g_ms^3 + L_1g_m + s^2\left(C_4C_5L_1R_4R_5g_m - C_4C_5L_1R_4 + C_5L_1L_5g_m\right) + s\left(C_4L_1R_4g_m + C_5L_1R_5g_m - C_5L_1\right)}{2C_4C_5L_1L_5g_ms^3 + 2C_4 + C_5 + s^2\left(2C_4C_5L_1R_4g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + 2C_4C_5L_5\right) + s\left(C_4C_5R_4 + 2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.111 INVALID-ORDER-111
$$Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_5R_4R_5s^4 - L_1R_5s + s^3\left(C_4L_1L_5R_4R_5g_m - C_4L_1L_5R_4 - C_5L_1L_5R_5\right) + s^2\left(-C_4L_1R_4R_5 + L_1L_5R_5g_m - L_1L_5\right)}{R_5 + s^4\left(2C_4C_5L_1L_5R_4g_m + 2C_4L_5L_5R_5\right) + s^3\left(C_4C_5L_5R_4R_5 + 2C_4L_1L_5R_4g_m + 2C_4L_1L_5R_5g_m + 2C_4L_1L_5R_5g_m\right) + s^2\left(2C_4L_1R_4R_5g_m + 2C_4L_1R_5 + C_4L_5R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(C_4R_4R_5 + 2L_1R_5g_m + 2C_4L_1R_5R_5g_m\right) + s\left(C_4R_4R_5 + 2L_1R_5g_m\right) + s\left(C_4R_4R_5 + 2L_1R_$$

10.112 INVALID-ORDER-112
$$Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{s^4 \left(C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_4\right) + s^3 \left(C_4 L_1 L_5 R_4 g_m + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5\right) + s^2 \left(C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4 + L_1 L_5 g_m\right) + s \left(L_1 R_5 g_m - L_1\right)}{s^4 \left(2 C_4 C_5 L_1 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_5\right) + s^3 \left(C_4 C_5 L_5 R_4 + 2 C_4 C_5 L_5 R_5 + 2 C_4 L_1 L_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m + 2 C_4 L_1 + 2 C_4 L_5 + C_5 L_5\right) + s \left(C_4 R_4 + 2 C_4 R_5 + 2 L_1 g_m\right) + 1}$$

10.113 INVALID-ORDER-113
$$Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.114 INVALID-ORDER-114 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{s^3 \left(C_4 L_1 L_4 R_5 g_m - C_4 L_1 L_4 \right) + s \left(L_1 R_5 g_m - L_1 \right)}{2 C_4 L_1 L_4 g_m s^3 + s^2 \left(2 C_4 L_1 R_5 g_m + 2 C_4 L_1 + C_4 L_4 \right) + s \left(2 C_4 R_5 + 2 L_1 g_m \right) + 1}$$

10.115 INVALID-ORDER-115
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4s^3 + C_4L_1L_4g_ms^2 - C_5L_1s + L_1g_m}{2C_4C_5L_1L_4g_ms^3 + 2C_4 + C_5 + s^2\left(2C_4C_5L_1 + C_4C_5L_4\right) + s\left(2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.116 INVALID-ORDER-116
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4R_5s^4 - C_5L_1R_5s^2 + s^3\left(C_4L_1L_4R_5g_m - C_4L_1L_4\right) + s\left(L_1R_5g_m - L_1\right)}{2C_4C_5L_1L_4R_5g_ms^4 + s^3\left(2C_4C_5L_1R_5 + C_4C_5L_4R_5 + 2C_4L_1L_4g_m\right) + s^2\left(2C_4L_1R_5g_m + 2C_4L_1 + C_4L_4 + 2C_5L_1R_5g_m\right) + s\left(2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.117 INVALID-ORDER-117
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4 L_1 L_4 g_m s^2 + L_1 g_m + s^3 \left(C_4 C_5 L_1 L_4 R_5 g_m - C_4 C_5 L_1 L_4 \right) + s \left(C_5 L_1 R_5 g_m - C_5 L_1 \right)}{2 C_4 C_5 L_1 L_4 g_m s^3 + 2 C_4 + C_5 + s^2 \left(2 C_4 C_5 L_1 R_5 g_m + 2 C_4 C_5 L_1 + C_4 C_5 L_4 \right) + s \left(2 C_4 C_5 R_5 + 2 C_4 L_1 g_m + 2 C_5 L_1 g_m \right)}$$

10.118 INVALID-ORDER-118
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_1L_4L_5g_ms^4 - C_4C_5L_1L_4s^3 - C_5L_1s + L_1g_m + s^2\left(C_4L_1L_4g_m + C_5L_1L_5g_m\right)}{2C_4 + C_5 + s^3\left(2C_4C_5L_1L_4g_m + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_4C_5L_1 + C_4C_5L_4 + 2C_4C_5L_5\right) + s\left(2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.119 INVALID-ORDER-119
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4L_5s^5 + C_4L_1L_4L_5g_ms^4 + L_1L_5g_ms^2 - L_1s + s^3\left(-C_4L_1L_4 - C_5L_1L_5\right)}{2C_4C_5L_1L_4L_5g_ms^5 + 2L_1g_ms + s^4\left(2C_4C_5L_1L_5 + C_4C_5L_4L_5\right) + s^3\left(2C_4L_1L_4g_m + 2C_4L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_4L_1 + C_4L_4 + 2C_4L_5 + C_5L_5\right) + 1}$$

10.120 INVALID-ORDER-120
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_1L_4L_5g_ms^4 + L_1g_m + s^3\left(C_4C_5L_1L_4R_5g_m - C_4C_5L_1L_4\right) + s^2\left(C_4L_1L_4g_m + C_5L_1L_5g_m\right) + s\left(C_5L_1R_5g_m - C_5L_1\right)}{2C_4 + C_5 + s^3\left(2C_4C_5L_1L_4g_m + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + C_4C_5L_4 + 2C_4C_5L_5\right) + s\left(2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.121 INVALID-ORDER-121
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4L_5R_5s^5 - L_1R_5s + s^4\left(C_4L_1L_4L_5R_5g_m - C_4L_1L_4L_5\right) + s^3\left(-C_4L_1L_4R_5 - C_5L_1L_5R_5\right) + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{2C_4C_5L_1L_4R_5g_ms^5 + R_5 + s^4\left(2C_4C_5L_1L_5R_5 + 2C_4L_1L_4L_5g_m\right) + s^3\left(2C_4L_1L_4R_5g_m + 2C_4L_1L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(2C_4L_1R_5 + 2C_4L_4R_5 + 2C_4L_4R$$

10.122 INVALID-ORDER-122
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

10.123 INVALID-ORDER-123
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4R_5s^4 - C_5L_1R_5s^2 + s^5\left(C_4C_5L_1L_4L_5R_5g_m - C_4C_5L_1L_4\right) + s^3\left(C_4L_1L_4R_5g_m - C_4L_1L_4 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s\left(L_1R_5g_m - L_1\right)}{2C_4C_5L_1L_4L_5g_ms^5 + s^4\left(2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_5 + C_4C_5L_4L_5\right) + s^3\left(2C_4C_5L_1R_5 + C_4C_5L_4R_5 + 2C_4C_5L_5R_5 + 2C_4L_1L_4g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_4L_1R_5g_m + 2C_4L_1 + C_4L_4 + 2C_5L_1R_5g_m + C_5L_5\right) + s\left(2C_4R_5 + C_5R_5 + 2L_1g_m\right)}{2C_4C_5L_1L_4L_5g_ms^5 + s^4\left(2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_5 + C_4C_5L_4L_5\right) + s^3\left(2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_4R_5 + 2C_4C_5L_4R_5\right) + s^2\left(2C_4L_4R_5g_m + 2C_4L_4L_4 + 2C_5L_4R_5 + 2C_4C_5L_4R_5\right) + s^2\left(2C_4C_5L_4R_5g_m + 2C_4C_5L_4R_5$$

10.124 INVALID-ORDER-124
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

$$H(s) = \frac{s^2 \left(L_1 L_4 R_5 g_m - L_1 L_4 \right)}{2R_5 + s^3 \left(2C_4 L_1 L_4 R_5 g_m + 2C_4 L_1 L_4 \right) + s^2 \left(2C_4 L_4 R_5 + 2L_1 L_4 g_m \right) + s \left(2L_1 R_5 g_m + 2L_1 + L_4 \right)}$$

10.125 INVALID-ORDER-125 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_4s^3 + L_1L_4g_ms^2}{2C_4C_5L_1L_4s^4 + 2L_1g_ms + s^3\left(2C_4L_1L_4g_m + 2C_5L_1L_4g_m\right) + s^2\left(2C_4L_4 + 2C_5L_1 + C_5L_4\right) + 2C_5L_1L_4s^4 + 2C_5L_1 + C_5L_4\right) + 2C_5L_1L_4s^4 + 2C_5L_1L_5t^4 + 2C_5L_1L_5t^5 + 2C_5L_1L_5t^5 + 2C_5L_1L_5t^5 + 2C_5L_5t^5 + 2C_5L_5t^5$$

10.126 INVALID-ORDER-126 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_4R_5s^3 + s^2\left(L_1L_4R_5g_m - L_1L_4\right)}{2C_4C_5L_1L_4R_5s^4 + 2R_5 + s^3\left(2C_4L_1L_4R_5g_m + 2C_4L_1L_4 + 2C_5L_1L_4R_5g_m\right) + s^2\left(2C_4L_4R_5 + 2C_5L_1R_5 + C_5L_4R_5 + 2L_1L_4g_m\right) + s\left(2L_1R_5g_m + 2L_1 + L_4\right)}{2C_4C_5L_1L_4R_5s^4 + 2R_5 + s^3\left(2C_4L_1L_4R_5g_m + 2C_4L_1L_4 + 2C_5L_1L_4R_5g_m\right) + s^2\left(2C_4L_4R_5 + 2C_5L_1R_5 + C_5L_4R_5 + 2L_1L_4g_m\right) + s\left(2L_1R_5g_m + 2L_1 + L_4\right)}$$

10.127 INVALID-ORDER-127 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

10.128 INVALID-ORDER-128 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

10.129 INVALID-ORDER-129 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_4L_5s^3 + L_1L_4L_5g_ms^2 - L_1L_4s}{2C_4C_5L_1L_4L_5s^4 + 2L_1 + L_4 + 2L_5 + s^3\left(2C_4L_1L_4L_5g_m + 2C_5L_1L_4L_5g_m\right) + s^2\left(2C_4L_1L_4 + 2C_4L_4L_5 + 2C_5L_1L_5 + C_5L_4L_5\right) + s\left(2L_1L_4g_m + 2L_1L_5g_m\right)}{2C_4C_5L_1L_4L_5s^4 + 2L_1 + L_4 + 2L_5 + s^3\left(2C_4L_1L_4L_5g_m + 2C_5L_1L_4L_5g_m\right) + s^2\left(2C_4L_1L_4 + 2C_4L_4L_5 + 2C_5L_1L_5 + C_5L_4L_5\right) + s\left(2L_1L_4g_m + 2L_1L_5g_m\right)}$$

10.130 INVALID-ORDER-130 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_1L_4L_5g_ms^4 + L_1L_4g_ms^2 + s^3\left(C_5L_1L_4R_5g_m - C_5L_1L_4\right)}{2C_4C_5L_1L_4L_5g_ms^5 + s^4\left(2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4 + 2C_4C_5L_4L_5\right) + s^3\left(2C_4C_5L_4R_5 + 2C_4L_1L_4g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_4L_4 + 2C_5L_1R_5g_m + 2C_5L_1 + C_5L_4 + 2C_5L_5\right) + s\left(2C_5R_5 + 2L_1g_m\right) + 2C_5R_5 + 2C_5R$$

10.131 INVALID-ORDER-131 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_4L_5R_5s^3 - L_1L_4R_5s + s^2\left(L_1L_4L_5R_5g_m - L_1L_4L_5\right)}{2C_4C_5L_1L_4L_5R_5s^4 + 2L_1R_5 + L_4R_5 + 2L_5R_5 + s^3\left(2C_4L_1L_4L_5R_5g_m + 2C_4L_1L_4L_5R_5g_m\right) + s^2\left(2C_4L_1L_4R_5 + 2C_5L_1L_5R_5 + C_5L_4L_5R_5 + 2C_5L_4L_5R_5 + 2C_5L_5L_5R_5 +$$

10.132 INVALID-ORDER-132 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_1L_4L_5g_ms^3 + s^4\left(C_5L_1L_4L_5g_m - C_5L_1L_4L_5\right) + s^2\left(L_1L_4R_5g_m - L_1L_4\right)}{2R_5 + s^5\left(2C_4C_5L_1L_4L_5g_m + 2C_4C_5L_1L_4L_5\right) + s^4\left(2C_4C_5L_4L_5g_m + 2C_5L_1L_4L_5g_m\right) + s^3\left(2C_4L_1L_4R_5g_m + 2C_4L_1L_4 + 2C_4L_4L_5 + 2C_5L_1L_5 + C_5L_4L_5\right) + s^2\left(2C_4L_4R_5 + 2C_5L_5R_5 + 2L_1L_4g_m + 2L_1L_5g_m\right) + s\left(2L_1R_5g_m + 2C_4L_4L_5g_m + 2C_4L_4L_5 + 2C_5L_4L_5\right) + s^2\left(2C_4L_4R_5 + 2C_5L_5R_5 + 2L_4L_4g_m + 2L_4L_5g_m\right) + s\left(2L_4R_5g_m + 2C_4L_4L_5 + 2C_5L_4L_5\right) + s^2\left(2C_4L_4R_5 + 2C_5L_5R_5 + 2L_4L_4g_m + 2L_4L_5g_m\right) + s\left(2C_4R_5g_m + 2C_4L_4L_5g_m + 2C_4L_4L_5\right) + s^2\left(2C_4L_4R_5 + 2C_5L_5R_5 + 2L_4L_4g_m + 2L_4L_5g_m\right) + s\left(2C_4R_5g_m + 2C_4L_4R_5g_m + 2C_4L_4R_5g_m + 2C_4L_4R_5g_m\right) + s\left(2C_4R_5g_m + 2C_4L_4R_5g_m + 2C_4L_4R_5g_m + 2C_4L_4R_5g_m\right) + s\left(2C_4R_5g_m + 2C_4R_5g_m + 2C_4R_5g_m\right) + s\left(2C_4R_5g_m + 2C_5R_5g_m + 2C_5R_5g_m\right) + s\left(2C_4R_5g_m + 2C_5R$$

10.133 INVALID-ORDER-133 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_1L_4R_5s^3 + s^4\left(C_5L_1L_4L_5R_5g_m - C_5L_1L_4L_5\right) + s^2\left(L_1L_4R_5g_m - L_1L_4\right)}{2R_5 + s^5\left(2C_4C_5L_1L_4L_5R_5g_m + 2C_4C_5L_1L_4L_5\right) + s^4\left(2C_4C_5L_1L_4R_5 + 2C_5L_1L_4R_5g_m + 2C_4L_1L_4 + 2C_5L_1L_4R_5g_m + 2C_5L_1L_5 + C_5L_4L_5\right) + s^2\left(2C_4L_4R_5 + 2C_5L_1R_5 + 2C_5L_5R_5 + 2L_1L_4g_m\right)}$$

10.134 INVALID-ORDER-134
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{s^3 \left(C_4 L_1 L_4 R_5 g_m - C_4 L_1 L_4\right) + s^2 \left(C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4\right) + s \left(L_1 R_5 g_m - L_1\right)}{2C_4 L_1 L_4 g_m s^3 + s^2 \left(2C_4 L_1 R_4 g_m + 2C_4 L_1 R_5 g_m + 2C_4 L_1 + C_4 L_4\right) + s \left(C_4 R_4 + 2C_4 R_5 + 2L_1 g_m\right) + 1}$$

10.135 INVALID-ORDER-135
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4s^3 + L_1g_m + s^2\left(-C_4C_5L_1R_4 + C_4L_1L_4g_m\right) + s\left(C_4L_1R_4g_m - C_5L_1\right)}{2C_4C_5L_1L_4g_ms^3 + 2C_4 + C_5 + s^2\left(2C_4C_5L_1R_4g_m + 2C_4C_5L_1 + C_4C_5L_4\right) + s\left(C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.136 INVALID-ORDER-136
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4R_5s^4 + s^3\left(-C_4C_5L_1R_4R_5 + C_4L_1L_4R_5g_m - C_4L_1L_4\right) + s^2\left(C_4L_1R_4R_5g_m - C_4L_1R_4 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{2C_4C_5L_1L_4R_5g_ms^4 + s^3\left(2C_4C_5L_1R_4R_5g_m + 2C_4C_5L_1R_5 + C_4C_5L_4R_5 + 2C_4L_1L_4g_m\right) + s^2\left(C_4C_5R_4R_5 + 2C_4L_1R_4g_m + 2C_4L_1R_5g_m + 2C_4L_1 + C_4L_4 + 2C_5L_1R_5g_m\right) + s\left(C_4R_4 + 2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}$$

10.137 INVALID-ORDER-137
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_1 g_m + s^3 \left(C_4 C_5 L_1 L_4 R_5 g_m - C_4 C_5 L_1 L_4\right) + s^2 \left(C_4 C_5 L_1 R_4 R_5 g_m - C_4 C_5 L_1 R_4 + C_4 L_1 L_4 g_m\right) + s \left(C_4 L_1 R_4 g_m + C_5 L_1 R_5 g_m - C_5 L_1\right)}{2 C_4 C_5 L_1 L_4 g_m s^3 + 2 C_4 + C_5 + s^2 \left(2 C_4 C_5 L_1 R_4 g_m + 2 C_4 C_5 L_1 R_5 g_m + 2 C_4 C_5 L_1 + C_4 C_5 L_4\right) + s \left(C_4 C_5 R_4 + 2 C_4 C_5 R_5 + 2 C_4 L_1 g_m + 2 C_5 L_1 g_m\right)}$$

10.138 INVALID-ORDER-138
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_1L_4L_5g_ms^4 + L_1g_m + s^3\left(-C_4C_5L_1L_4 + C_4C_5L_1L_5R_4g_m\right) + s^2\left(-C_4C_5L_1R_4 + C_4L_1L_4g_m + C_5L_1L_5g_m\right) + s\left(C_4L_1R_4g_m - C_5L_1\right)}{2C_4 + C_5 + s^3\left(2C_4C_5L_1L_4g_m + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_4C_5L_1R_4g_m + 2C_4C_5L_1 + C_4C_5L_4 + 2C_4C_5L_5\right) + s\left(C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.139 INVALID-ORDER-139
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4L_5s^5 - L_1s + s^4\left(-C_4C_5L_1L_5R_4 + C_4L_1L_4L_5g_m\right) + s^3\left(-C_4L_1L_4 + C_4L_1L_5R_4g_m - C_5L_1L_5\right) + s^2\left(-C_4L_1R_4 + L_1L_5g_m\right)}{2C_4C_5L_1L_4L_5g_ms^5 + s^4\left(2C_4C_5L_1L_5R_4g_m + 2C_4C_5L_1L_5 + C_4C_5L_4L_5\right) + s^3\left(C_4C_5L_5R_4 + 2C_4L_1L_4g_m + 2C_4L_1L_5g_m\right) + s^2\left(2C_4L_1R_4g_m + 2C_4L_1 + C_4L_4 + 2C_4L_5 + C_5L_5\right) + s\left(C_4R_4 + 2L_1g_m\right) + 1}$$

10.140 INVALID-ORDER-140
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_1L_4L_5g_ms^4 + L_1g_m + s^3\left(C_4C_5L_1L_4R_5g_m - C_4C_5L_1L_4 + C_4C_5L_1L_5R_4g_m\right) + s^2\left(C_4C_5L_1R_4R_5g_m - C_4C_5L_1R_4 + C_4L_1L_4g_m + C_5L_1L_5g_m\right) + s\left(C_4L_1R_4g_m + C_5L_1R_5g_m - C_5L_1\right)}{2C_4 + C_5 + s^3\left(2C_4C_5L_1L_4g_m + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_4C_5L_1R_4g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + C_4C_5L_4 + 2C_4C_5L_5\right) + s\left(C_4C_5R_4 + 2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$$

10.141 INVALID-ORDER-141
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_4L_5R_5s^5 - L_1R_5s + s^4\left(-C_4C_5L_1L_5R_4R_5 + C_4L_1L_4L_5R_5g_m - C_4L_1L_4R_5 + C_4L_1L_5R_4g_m - C_4L_1L_5R_$$

10.142 INVALID-ORDER-142
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{s^5 \left(C_4 C_5 L_1 L_4 L_5 R_5 g_m - C_4 C_5 L_1 L_4 L_5\right) + s^4 \left(C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_4 + C_4 L_1 L_4 L_5 g_m\right) + s^3 \left(C_4 L_1 L_4 R_5 g_m - C_4 L_1 L_4 + C_4 L_1 L_5 R_4 g_m + C_5 L_1 L_5\right) + s^2 \left(C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4 + L_1 L_5 g_m\right) + s \left(L_1 R_5 g_m - L_1\right)}{2 C_4 C_5 L_1 L_4 L_5 g_m s^5 + s^4 \left(2 C_4 C_5 L_1 L_5 R_4 g_m + 2 C_4 C_5 L_1 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_5\right) + s^3 \left(C_4 C_5 L_5 L_5 L_5\right) + s^2 \left(C_4 L_1 R_4 g_m + 2 C_4 L_1 L_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right) + s^2 \left(2 C_4 L_1 R_4 g_$$

10.143 INVALID-ORDER-143
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

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10.144 INVALID-ORDER-144 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)
                                                                                                                                                                                                                                            H(s) = \frac{s^2 \left( L_1 L_4 R_4 R_5 g_m - L_1 L_4 R_4 \right)}{2 R_4 R_5 + s^3 \left( 2 C_4 L_1 L_4 R_4 R_5 g_m + 2 C_4 L_1 L_4 R_4 \right) + s^2 \left( 2 C_4 L_4 R_4 R_5 + 2 L_1 L_4 R_4 g_m + 2 L_1 L_4 R_5 g_m + 2 L_1 L_4 \right) + s \left( 2 L_1 R_4 R_5 g_m + 2 L_1 R_4 + L_4 R_4 + 2 L_4 R_5 \right)}
10.145 INVALID-ORDER-145 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                              H(s) = \frac{-C_5L_1L_4R_4s^3 + L_1L_4R_4g_ms^2}{2C_4C_5L_1L_4R_4s^4 + 2R_4 + s^3\left(2C_4L_1L_4R_4g_m + 2C_5L_1L_4R_4g_m + 2C_5L_1L_4\right) + s^2\left(2C_4L_4R_4 + 2C_5L_1R_4 + C_5L_4R_4 + 2L_1L_4g_m\right) + s\left(2L_1R_4g_m + 2L_4\right)}
10.146 INVALID-ORDER-146 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                   H(s) = \frac{-C_5L_1L_4R_4R_5s^3 + s^2\left(L_1L_4R_4R_5g_m - L_1L_4R_4\right)}{2C_4C_5L_1L_4R_4s^5s^4 + 2R_4R_5 + s^3\left(2C_4L_1L_4R_4R_5g_m + 2C_4L_1L_4R_4 + 2C_5L_1L_4R_5g_m + 2C_5L_1L_4R_5\right) + s^2\left(2C_4L_4R_4R_5 + 2C_5L_1R_4R_5 + 2C_5L_1R_5 + 2C
10.147 INVALID-ORDER-147 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                      \frac{L_{1}L_{4}R_{4}g_{m}s^{2}+s^{3}\left(C_{5}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{5}L_{1}L_{4}R_{4}\right)}{2R_{4}+s^{4}\left(2C_{4}C_{5}L_{1}L_{4}R_{4}g_{m}+2C_{5}L_{1}L_{4}R_{4}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_{5}g_{m}+2C_{5}L_{1}L_{4}R_
10.148 INVALID-ORDER-148 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_5L_1L_4L_5R_4g_ms^4 - C_5L_1L_4R_4s^3 + L_1L_4R_4g_ms^2}{2C_4C_5L_1L_4L_5R_4g_ms^5 + 2R_4 + s^4\left(2C_4C_5L_1L_4R_4 + 2C_5L_4L_5R_4 + 2C_5L_1L_4R_4g_m + 2C_5L_1L_4R_4g_m + 2C_5L_1L_4R_4g_m + 2C_5L_4L_5\right) + s^2\left(2C_4L_4R_4 + 2C_5L_4R_4 + 2C_5L_5R_4 + 2L_4L_4g_m\right) + s\left(2L_1R_4g_m + 2L_4L_5R_4g_m + 2C_5L_4L_5\right) + s^2\left(2C_4L_4R_4 + 2C_5L_4R_4 + 2C_5L_4R_4 + 2C_5L_4R_4 + 2C_5L_4R_4\right) + s^2\left(2C_4L_4R_4 + 2C_5L_4R_4 + 2C_5L_4R_4 + 2C_5L_4R_4\right) + s^2\left(2C_4L_4R_4 + 2C_5L_4R_4 + 2C_5L_4R_4\right) + s^2\left(2C_4L_4R_4 + 2C_5L_4R_4 + 2C_5L_4R_4\right) + s^2\left(2C_4L_4R_4 + 2C_5L_4R_4\right) + s^2\left(2C_4L_4R_4\right) + s^2\left(2C_4L_4R_4\right)
10.149 INVALID-ORDER-149 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                       H(s) = \frac{-C_5L_1L_4L_5R_4s^3 + L_1L_4L_5R_4g_ms^2 - L_1L_4R_4s}{2C_4C_5L_1L_4L_5R_4s^4 + 2L_1R_4 + L_4R_4 + 2L_5R_4 + s^3\left(2C_4L_1L_4L_5R_4g_m + 2C_5L_1L_4L_5\right) + s^2\left(2C_4L_1L_4R_4 + 2C_4L_4L_5R_4 + 2C_5L_1L_5R_4 + 2C_5L_4L_5R_4 + 2L_4L_5R_4g_m + 2L_4L_5R_4g_m + 2L_4L_5\right)}
10.150 INVALID-ORDER-150 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_5L_1L_4L_5R_4g_ms^4 + L_1L_4R_4g_ms^2 + s^3\left(C_5L_1L_4R_4R_5g_m - C_5L_1L_4R_4\right)
H(s) = \frac{C_5L_1L_4L_5R_4g_ms^4 + L_1L_4R_4g_ms^2 + s^3\left(C_5L_1L_4R_4R_5g_m - C_5L_1L_4R_4\right)}{2C_4C_5L_1L_4L_5R_4g_ms^5 + 2R_4 + s^4\left(2C_4C_5L_1L_4R_4g_m + 2C_5L_1L_4R_4g_m + 2C_5L_1L_4R_4g_m + 2C_5L_1L_4R_5g_m + 2C_5L_4L_5R_5g_m + 2C_5L_4L_5R_5g_m + 2C_5L_5L_5R_5g_m + 2C_5L_5L
10.151 INVALID-ORDER-151 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
10.152 INVALID-ORDER-152 Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L_1L_4L_5R_4g_ms^3 + s^4(C_5L_1L_4L_5R_4R_5g_m - C_5L_1L_4L_5R_4) + s^2(L_1L_4R_4R_5g_m - L_1L_4L_5R_4) + s^2(L_1L_4R_4R_5g_m - L_1L_4R_5R_5g_m - L_1L_5R_5g_m -
H(s) = \frac{L_1L_4L_5R_4g_ms^{-} + s^{-}(C_5L_1L_4L_5R_4R_5g_m - C_5L_1L_4L_5R_4) + s^{-}(L_1L_4R_4R_5g_m - L_1L_4L_5R_4)}{2R_4R_5 + s^{-}(2C_4C_5L_1L_4L_5R_4g_m + 2C_5L_1L_4L_5R_4g_m + 2C_5L_5L_5R_4g_m + 2C_5L_5L_5R_4g_m + 2C_5L_5L_5R_4g_m + 2C_5L_5L_5R_4g_m + 2C_5L_5L_5R_4g_m + 2C_5L_5L_5R_4g_m + 2C_5L_5L_
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 $-C_5L_1L_4R_4R_5s^3 + s^4\left(C_5L_1L_4L_5R_4R_5g_m - C_5L_1L_4L_5R_4\right) + s^2\left(L_1L_4R_4R_5g_m - L_1L_4R_5g_m - L_1L_5R_5g_m -$

 $-C_5L_1L_4L_5R_4R_5g_m + C_5L_1L_4L_5R_4g_m - C_5L_1L_4R_4g_m -$

10.153 INVALID-ORDER-153 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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H(s) = \frac{-C_4C_5L_1L_4R_4s^4 + L_1R_4g_ms + s^3\left(C_4L_1L_4R_4g_m - C_5L_1L_4\right) + s^2\left(-C_5L_1R_4 + L_1L_4g_m\right)}{s^4\left(2C_4C_5L_1L_4R_4g_m + 2C_4C_5L_1L_4\right) + s^3\left(C_4C_5L_4R_4 + 2C_4L_1L_4g_m + 2C_5L_1L_4g_m\right) + s^2\left(2C_4L_4 + 2C_5L_1R_4g_m + 2C_5L_1 + C_5L_4\right) + s\left(C_5R_4 + 2L_1g_m\right) + 2C_5L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_4g_m\right)}
10.156 INVALID-ORDER-156 Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4R_4R_5s^4 + s^3\left(C_4L_1L_4R_4S_{gm} - C_4L_1L_4R_5 - C_5L_1L_4R_5\right) + s^2\left(-C_5L_1R_4R_5 + L_1L_4R_5g_m - L_1L_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)}{R_4 + 2R_5 + s^4\left(2C_4C_5L_1L_4R_5g_m + 2C_4L_1L_4R_5g_m + 2C_4L_4R_5g_m + 2C_4
10.157 INVALID-ORDER-157 Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                            10.158 INVALID-ORDER-158 Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                        H(s) = \frac{C_4C_5L_1L_4L_5R_4g_ms^5 + L_1R_4g_ms + s^4\left(-C_4C_5L_1L_4R_4 + C_5L_1L_4L_5g_m\right) + s^3\left(C_4L_1L_4R_4g_m - C_5L_1L_4 + C_5L_1L_5R_4g_m\right) + s^2\left(-C_5L_1R_4 + L_1L_4g_m\right)}{2C_4C_5L_1L_4L_5g_ms^5 + s^4\left(2C_4C_5L_1L_4R_4g_m + 2C_4C_5L_1L_4 + 2C_4C_5L_4L_5\right) + s^3\left(C_4C_5L_4R_4 + 2C_4L_1L_4g_m + 2C_5L_1L_4g_m + 2C_5L_1L_5g_m\right) + s^2\left(2C_4L_4 + 2C_5L_1R_4g_m + 2C_5L_1 + C_5L_4 + 2C_5L_5\right) + s\left(C_5R_4 + 2L_1g_m\right) + s^2\left(2C_4L_4 + 2C_5L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_4g_m\right) + s^2\left(2C_4L_4 + 2C_5L_4R_4g_m\right) + s^2\left(2C_4L_4 + 2C_5L_4R_4
10.159 INVALID-ORDER-159 Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_4s^5 - L_1R_4s + s^4\left(C_4L_1L_4L_5R_4g_m - C_5L_1L_4L_5\right) + s^3\left(-C_4L_1L_4R_4 - C_5L_1L_5R_4 + L_1L_4L_5g_m\right) + s^2\left(-L_1L_4 + L_1L_5R_4g_m\right)}{R_4 + s^5\left(2C_4C_5L_1L_4L_5\right) + s^4\left(C_4C_5L_4L_5\right) + s^4\left(C_4C_5L_4L_5R_4 + 2C_4L_1L_4L_5g_m\right) + s^3\left(2C_4L_1L_4R_4g_m + 2C_4L_1L_4 + 2C_4L_4L_5 + 2C_5L_1L_5R_4g_m + 2C_5L_1L_5\right) + s^2\left(C_4L_4R_4 + C_5L_5R_4 + 2L_4L_5g_m\right) + s^2\left(2C_4L_4R_4 + 2C_4L_4L_5R_4g_m + 2C_4L_4L_5\right) + s^2\left(2C_4L_4R_4 + 2C
10.160 INVALID-ORDER-160 Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4C_5L_1L_4L_5R_4g_ms^5 + L_1R_4g_ms + s^4\left(C_4C_5L_1L_4R_4S_{gm} - C_4C_5L_1L_4R_4g_m + C_5L_1L_4R_5g_m - C_5L_1L_4 + C_5L_1L_5R_4g_m\right) + s^3\left(C_4L_1L_4R_5g_m - C_5L_1L_4 + C_5L_1L_5R_4g_m\right) + s^2\left(C_5L_1R_4R_5g_m - C_5L_1R_4 + L_1L_4g_m\right)}{2C_4C_5L_1L_4R_5g_ms^5 + s^4\left(2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4g_m + 2C_5L_1L_4g_m + 2C_5L_1L_4g_m + 2C_5L_1L_4g_m + 2C_5L_1L_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_5g_m + 2C_5L_1R_5g_m
10.161 INVALID-ORDER-161 Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_4R_5s^5 - L_1R_4R_5s + s^4\left(C_4L_1L_4L_5R_4R_5g_m - C_4L_1L_4L_5R_4 - C_5L_1L_4L_5R_5\right) + s^3\left(-C_4L_1L_4R_4R_5 - C_5L_1L_5R_4R_5 + L_1L_4L_5R_5g_m + 2C_4L_1L_4L_5R_5g_m + 2C_4L_1L_4L_5R_5g_m + 2C_4L_1L_4L_5R_5g_m + 2C_4L_1L_4L_5R_5g_m + 2C_4L_1L_4L_5R_5g_m + 2C_4L_1L_4L_5R_5g_m + 2C_4L_1L_4R_5R_5g_m + 2C_4L_1L_4R_5g_m + 2C_4L_1L_4R_5g_m + 2C_4L_1L_4R_5g_m + 2C_4L_1L_4R_5g_m + 2C_4L_1L_4R_5g_m + 2C_4L_4L_5R_5g_m + 2C_4
10.162 INVALID-ORDER-162 Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \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_4 C_5 L_1 L_4 L_5 R_4 g_m - C_4 C_5 L_1 L_4 L_5 R_4 g_m - C_5 L_1 L_4 L_5 R_4 g_m - C_5 L_1 L_4 L_5 R_4 g_m - C_5 L_1 L_4 L_5 g_m - C_5 L_1 L_5 R_4 g_m - C_5 L_1 L_5 R_5 g_m - C_5 L_5 
10.163 INVALID-ORDER-163 Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     s^{5}\left(C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{4}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{4}L_{5}\right)+s^{3}\left(C_{4}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}R_{4}-C_{5}L_{1}L_{4}R_{5}R_{5}g_{m}-C_{5}L_{1}L_{4}L_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{4}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{4}L_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{4}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{4}L_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{4}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{4}L_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{5}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{4}L_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{5}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{4}L_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{5}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{4}R_{5}R_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{5}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{5}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}L_{5}R_{5}\right)+s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}\left(-C_{5}L_{1}L_{4}R_{5}+C_{5}L_{1}L_{4}R_{5}\right)+s^{4}
                                                \frac{s \left( (2C_5 L_1 L_4 L_5 R_4 g_m + 2C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2C_4 C_5 L_1 L_4 R_5 g_m + 2C_4 C_5 L_1 L_4 R_5 g_m + 2C_4 C_5 L_1 L_4 R_5 g_m + 2C_4 L_1 L_4 R_5 g_m + 2C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             68
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 $H(s) = \frac{s^3 \left(C_4 L_1 L_4 R_4 R_5 g_m - C_4 L_1 L_4 R_4\right) + s^2 \left(L_1 L_4 R_5 g_m - L_1 L_4\right) + s \left(L_1 R_4 R_5 g_m - L_1 R_4\right)}{R_4 + 2 R_5 + s^3 \left(2 C_4 L_1 L_4 R_4 g_m + 2 C_4 L_1 L_4 R_5 g_m + 2 C_4 L_1 L_4\right) + s^2 \left(C_4 L_4 R_4 + 2 C_4 L_4 R_5 + 2 L_1 L_4 g_m\right) + s \left(2 L_1 R_4 g_m + 2 L_1 R_5 g_m + 2 L_1 + L_4\right)}$

10.154 INVALID-ORDER-154 $Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$

10.155 INVALID-ORDER-155 $Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$

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H(s) = \frac{s^3 \left( C_4 L_1 L_4 R_4 R_5 g_m - C_4 L_1 L_4 R_4 \right) + s \left( L_1 R_4 R_5 g_m - L_1 R_4 \right)}{R_4 + 2 R_5 + s^3 \left( 2 C_4 L_1 L_4 R_4 g_m + 2 C_4 L_1 L_4 R_5 g_m + 2 C_4 L_1 L_4 \right) + s^2 \left( 2 C_4 L_1 R_4 R_5 g_m + 2 C_4 L_1 R_4 + C_4 L_4 R_4 + 2 C_4 L_4 R_5 \right) + s \left( 2 C_4 R_4 R_5 + 2 L_1 R_4 g_m + 2 L_1 R_5 g_m + 2 L_1 \right)}
10.165 INVALID-ORDER-165 Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                 H(s) = \frac{-C_4C_5L_1L_4R_4s^4 + C_4L_1L_4R_4g_ms^3 - C_5L_1R_4s^2 + L_1R_4g_ms}{s^4\left(2C_4C_5L_1L_4R_4g_m + 2C_4C_5L_1L_4\right) + s^3\left(2C_4C_5L_1R_4 + C_4C_5L_4R_4 + 2C_4L_1L_4g_m\right) + s^2\left(2C_4L_1R_4g_m + 2C_4L_4 + 2C_5L_1R_4g_m + 2C_5L_1\right) + s\left(2C_4R_4 + C_5R_4 + 2L_1g_m\right) + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1R_4g_m\right) + s^2\left(2C_4C_5L_1R_4g_m + 2C_4C_5L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_4g
10.166 INVALID-ORDER-166 Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4R_4R_5s^4 - C_5L_1R_4R_5s^2 + s^3\left(C_4L_1L_4R_4g_m - C_4L_1L_4R_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)}{R_4 + 2R_5 + s^4\left(2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5\right) + s^3\left(2C_4C_5L_1R_4R_5 + C_4C_5L_4R_4R_5 + 2C_4L_1L_4R_5g_m + 2C_4L_1L_4\right) + s^2\left(2C_4L_1R_4R_5g_m + 2C_4L_1R_4 + C_4L_4R_5 + 2C_5L_1R_4R_5g_m + 2C_5L_1R_5\right) + s\left(2C_4R_4R_5 + C_5R_4R_5 + 2C_4L_1R_4R_5g_m + 2C_4L_1R_4\right) + s\left(2C_4C_5L_1R_4R_5g_m + 2C_4L_1R_4\right) + s\left(2C_4C_5L_1R_4R_5g_m + 2C_5L_1R_5\right) + s\left(2C_4R_4R_5 + C_5R_4R_5 + 2C_4L_1R_4\right) + s\left(2C_4C_5L_1R_4R_5g_m + 2C_5L_1R_5\right) + s\left(2C_4R_4R_5g_m + 2C_4L_1R_4\right) + s\left(2C_4R_4R_5g_
10.167 INVALID-ORDER-167 Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                      \frac{C_4L_1L_4R_4g_ms^3 + L_1R_4g_ms + s^4\left(C_4C_5L_1L_4R_5g_m - C_4C_5L_1L_4R_5g_m - C_5L_1R_4\right) + s^2\left(C_5L_1R_4R_5g_m - C_5L_1R_4\right)}{s^4\left(2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4\right) + s^3\left(2C_4C_5L_1R_4R_5g_m + 2C_4C_5L_1R_4 + C_4C_5L_4R_5 + 2C_4L_1L_4g_m\right) + s^2\left(2C_4C_5R_4R_5 + 2C_4L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_5g_m + 2C_5L_1\right) + s\left(2C_4R_4 + C_5R_4 + 2C_5R_5 + 2L_1g_m\right)}
10.168 INVALID-ORDER-168 Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4C_5L_1L_4L_5R_4g_ms^5 - C_4C_5L_1L_4R_4s^4 - C_5L_1R_4s^2 + L_1R_4g_ms + s^3\left(C_4L_1L_4R_4g_m + C_5L_1L_5R_4g_m\right)}{2C_4C_5L_1L_4L_5g_ms^5 + s^4\left(2C_4C_5L_1L_4R_4g_m + 2C_4C_5L_1L_4 + 2C_4C_5L_1L_5R_4g_m + 2C_4C_5L_1L_4R_4g_m + 2C_4C_5L_1L_4g_m + 2C_4C_5L_1L_4g_m + 2C_4C_5L_1L_4g_m + 2C_4C_5L_1L_4g_m + 2C_4L_4 + 2C_5L_1R_4g_m + 2C_4L_4 + 2C_5L_4R_4g_m + 2C_4L_4 + 2C_5L_4R_4 + 2C_5L_4
10.169 INVALID-ORDER-169 Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_4g_ms^4 + L_1L_5R_4g_ms^4 + L_1L_5R_4g_ms^2 - L_1R_4s + s^3\left(-C_4L_1L_4R_4 - C_5L_1L_5R_4\right)}{R_4 + s^5\left(2C_4C_5L_1L_4L_5R_4g_m + 2C_4C_5L_1L_4R_5\right) + s^4\left(2C_4C_5L_1L_5R_4 + C_4C_5L_4L_5R_4 + 2C_4L_4L_5R_4g_m + 2C_4L_4L_5 + 2C_5L_4L_5R_4g_m + 2C_4L_4L_5\right) + s^2\left(2C_4L_1R_4 + C_4L_4R_4 + 2C_4L_5R_4 + 2C_4L_5R_4 + 2C_4L_5R_4 + 2C_4L_5R_4\right) + s^2\left(2C_4C_5L_4L_5R_4 + 2C_4L_5R_4 + 2C_4L_5R_4\right) + s^2\left(2C_4C_5L_4L_5R_4 + 2C_4L_5R_4 + 2C_4L_5R_4\right) + s^2\left(2C_4C_5L_4L_5R_4 + 2C_4L_5R_4 + 
10.170 INVALID-ORDER-170 Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4C_5L_1L_4R_4g_ms^5 + L_1R_4g_ms + s^4\left(C_4C_5L_1L_4R_4g_m + C_5L_1L_5R_4g_m\right) + s^2\left(C_5L_1R_4R_5g_m - C_5L_1R_4\right)}{2C_4C_5L_1L_4L_5g_ms^5 + s^4\left(2C_4C_5L_1L_4R_4g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_4g_m + 2C_4C_5L_4R_4g_m + 2C_4C_5L_4
10.171 INVALID-ORDER-171 Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5}s^{5}-L_{1}R_{4}R_{5}s+s^{4}\left(C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}\right)+s^{3}\left(-C_{4}L_{1}L_{4}R_{4}R_{5}-C_{5}L_{1}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}\right)+s^{3}\left(-C_{4}L_{1}L_{4}R_{4}R_{5}-C_{5}L_{1}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}\right)+s^{3}\left(-C_{4}L_{1}L_{4}R_{4}R_{5}-C_{5}L_{1}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}\right)+s^{3}\left(-C_{4}L_{1}L_{4}R_{4}R_{5}-C_{5}L_{1}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{4}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{m}-C_{4}L_{1}L_{5}R_{5}g_{
                                                    -C_4C_5L_1L_4L_5R_4R_5s^3 - L_1R_4R_5s + s^4\left(C_4L_1L_4L_5R_4R_5g_m - C_4L_1L_4L_5R_4\right) + s^3\left(-C_4L_1L_4R_4R_5 - C_5L_1L_5R_4R_5\right) \\ -C_4C_5L_1L_4L_5R_4R_5g_m + 2C_4L_1L_4L_5R_4g_m + 2C_4L_1L_4L_5R_4g_m + 2C_4L_1L_4L_5R_4g_m + 2C_4L_1L_4R_5g_m + 2C_4L_1L_4R
10.172 INVALID-ORDER-172 Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_{4}L_{1}L_{4}L_{5}R_{4}g_{m}s^{4} + L_{1}L_{5}R_{4}g_{m}s^{2} + s^{5}\left(C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{5}R_{m} - C_{4}C_{5}L_{1}L_{4}L_{5}R_{m}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{5}R_{m}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{5}R_{m}\right) + s^{3}\left(C_{4}L_{1}L_{5}R_{m}\right) + s^{3}\left(C_
H(s) = \frac{(4L_1L_4L_5)(4gm^3 + L_1L_5)(4gm^3 + L_1L_5)(4gm^3
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10.164 INVALID-ORDER-164 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$

10.173 INVALID-ORDER-173
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_4C_5L_1L_4R_4R_5s^4 - C_5L_1R_4R_5s^4 - C_5L_1R_4R_5s^2 + s^5\left(C_4C_5L_1L_4L_5R_4R_5g_m - C_4C_5L_1L_4L_5R_4\right) + s^3\left(C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_5R_4 + C_4C_5L_4L_5R_4 + 2C_4C_5L_4L_5R_5\right) + s^3\left(2C_4C_5L_1L_4L_5R_4g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_4L_5R_4\right) + s^3\left(2C_4C_5L_1L_4L_5R_4g_m + 2C_4C_5L_1L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4\right) + s^3\left(2C_4C_5L_1L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4\right) + s^3\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4\right) + s^3\left(2C_4C_5L_4L_5R_5g_m + 2C_4C_5L_4L_5R_5g_m + 2C_4C_5L_4L_5R_5g_m\right) + s^3\left(2C_4C_5L_4L_5R_5g_m + 2C_4C_5L_4L_5R_5g_m + 2C_4C_5L_5L_5R_5g_m\right) + s^3\left(2C_4C_5L_4L_5R_5g_m + 2C_4C_5L$

10.174 INVALID-ORDER-174 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, R_5, \infty\right)$

$$H(s) = \frac{R_4 R_5 g_m - R_4}{2R_4 g_m + 2R_5 g_m + s \left(C_1 R_4 + 2C_1 R_5\right) + 2}$$

10.175 INVALID-ORDER-175 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5 L_5 R_4 g_m s^2 - C_5 R_4 s + R_4 g_m}{2C_1 C_5 L_5 s^3 + 2g_m + s^2 \left(C_1 C_5 R_4 + 2C_5 L_5 g_m\right) + s \left(2C_1 + 2C_5 R_4 g_m + 2C_5\right)}$$

10.176 INVALID-ORDER-176 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_4s^2 + L_5R_4g_ms - R_4}{C_1C_5L_5R_4s^3 + 2R_4g_m + s^2\left(2C_1L_5 + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2L_5g_m\right) + 2C_5R_4s^2}$$

10.177 INVALID-ORDER-177 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_5R_4g_ms^2 + R_4g_m + s\left(C_5R_4R_5g_m - C_5R_4\right)}{2C_1C_5L_5s^3 + 2g_m + s^2\left(C_1C_5R_4 + 2C_1C_5R_5 + 2C_5L_5g_m\right) + s\left(2C_1 + 2C_5R_4g_m + 2C_5R_5g_m + 2C_5\right)}$$

10.178 INVALID-ORDER-178 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_4R_5s^2 - R_4R_5 + s\left(L_5R_4R_5g_m - L_5R_4\right)}{C_1C_5L_5R_4R_5s^3 + 2R_4R_5g_m + 2R_5 + s^2\left(C_1L_5R_4 + 2C_1L_5R_5 + 2C_5L_5R_4R_5g_m + 2C_5L_5R_5\right) + s\left(C_1R_4R_5 + 2L_5R_4g_m + 2L_5R_5g_m + 2L_5\right)}$$

10.179 INVALID-ORDER-179 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_5 R_4 g_m s + R_4 R_5 g_m - R_4 + s^2 \left(C_5 L_5 R_4 R_5 g_m - C_5 L_5 R_4\right)}{2 R_4 g_m + 2 R_5 g_m + s^3 \left(C_1 C_5 L_5 R_4 + 2 C_1 C_5 L_5 R_5\right) + s^2 \left(2 C_1 L_5 + 2 C_5 L_5 R_4 g_m + 2 C_5 L_5 R_5 g_m + 2 C_5 L_5\right) + s \left(C_1 R_4 + 2 C_1 R_5 + 2 L_5 g_m\right) + 2 C_5 L_5 R_4 g_m + 2 C_5 L_5 R_5 g_m + 2 C_5 L_5 R_5$$

10.180 INVALID-ORDER-180 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.181 INVALID-ORDER-181 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

10.182 INVALID-ORDER-182
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s \left(C_5 R_5 g_m - C_5 \right)}{2C_1 C_4 C_5 R_5 s^3 + s^2 \left(2C_1 C_4 + C_1 C_5 + 2C_4 C_5 R_5 g_m + 2C_4 C_5 \right) + s \left(2C_4 g_m + 2C_5 g_m \right)}$$

10.183 INVALID-ORDER-183
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 L_5 g_m s^2 - C_5 s + g_m}{2C_1 C_4 C_5 L_5 s^4 + 2C_4 C_5 L_5 g_m s^3 + s^2 \left(2C_1 C_4 + C_1 C_5 + 2C_4 C_5\right) + s \left(2C_4 g_m + 2C_5 g_m\right)}$$

10.184 INVALID-ORDER-184
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_5s^2 + L_5g_ms - 1}{2g_m + s^3\left(2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4\right)}$$

10.185 INVALID-ORDER-185
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5 L_5 g_m s^2 + g_m + s \left(C_5 R_5 g_m - C_5\right)}{2C_1 C_4 C_5 L_5 s^4 + s^3 \left(2C_1 C_4 C_5 R_5 + 2C_4 C_5 L_5 g_m\right) + s^2 \left(2C_1 C_4 + C_1 C_5 + 2C_4 C_5 R_5 g_m + 2C_4 C_5\right) + s \left(2C_4 g_m + 2C_5 g_m\right)}$$

10.186 INVALID-ORDER-186
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_5L_5R_5s^2 - R_5 + s\left(L_5R_5g_m - L_5\right)}{2R_5g_m + s^3\left(2C_1C_4L_5R_5 + C_1C_5L_5R_5 + 2C_4C_5L_5R_5\right) + s^2\left(C_1L_5 + 2C_4L_5R_5g_m + 2C_4L_5 + 2C_5L_5R_5g_m\right) + s\left(C_1R_5 + 2C_4R_5 + 2L_5g_m\right)}$$

10.187 INVALID-ORDER-187
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_5 g_m s + R_5 g_m + s^2 \left(C_5 L_5 R_5 g_m - C_5 L_5\right) - 1}{2 C_1 C_4 C_5 L_5 R_5 s^4 + 2 g_m + s^3 \left(2 C_1 C_4 L_5 + C_1 C_5 L_5 + 2 C_4 C_5 L_5 R_5 g_m + 2 C_4 C_5 L_5\right) + s^2 \left(2 C_1 C_4 R_5 + 2 C_4 L_5 g_m + 2 C_5 L_5 g_m\right) + s \left(C_1 + 2 C_4 R_5 g_m + 2 C_4\right)}$$

10.188 INVALID-ORDER-188
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5R_5s + R_5g_m + s^2\left(C_5L_5R_5g_m - C_5L_5\right) - 1}{2C_1C_4C_5L_5R_5s^4 + 2g_m + s^3\left(C_1C_5L_5 + 2C_4C_5L_5R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5R_5 + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4 + 2C_5R_5g_m\right)}{2C_1C_4C_5L_5R_5s^4 + 2g_m + s^3\left(C_1C_5L_5 + 2C_4C_5L_5R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5L_5g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4 + 2C_5R_5g_m\right)}$$

10.189 INVALID-ORDER-189 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{R_4 g_m + s \left(C_5 R_4 R_5 g_m - C_5 R_4\right)}{2 C_1 C_4 C_5 R_4 R_5 s^3 + 2 g_m + s^2 \left(2 C_1 C_4 R_4 + C_1 C_5 R_4 + 2 C_1 C_5 R_5 + 2 C_4 C_5 R_4 R_5 g_m + 2 C_4 C_5 R_4\right) + s \left(2 C_1 + 2 C_4 R_4 g_m + 2 C_5 R_4 g_m + 2 C_5 R_5 g_m + 2 C_5\right)}$$

10.190 INVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_5R_4g_ms^2 - C_5R_4s + R_4g_m}{2C_1C_4C_5L_5R_4s^4 + 2g_m + s^3\left(2C_1C_5L_5 + 2C_4C_5L_5R_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_4C_5R_4 + 2C_5L_5g_m\right) + s\left(2C_1 + 2C_4R_4g_m + 2C_5R_4g_m + 2C_5R_4g_m\right)}$$

10.191 INVALID-ORDER-191
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_5R_4s^2 + L_5R_4g_ms - R_4}{2R_4g_m + s^3\left(2C_1C_4L_5R_4 + C_1C_5L_5R_4 + 2C_4C_5L_5R_4\right) + s^2\left(2C_1L_5 + 2C_4L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_4R_4 + 2L_5g_m\right) + 2C_5R_4g_m + 2C_5R_5g_m + 2C_5R_5g_m$$

10.192 INVALID-ORDER-192
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5L_5R_4g_ms^2 + R_4g_m + s\left(C_5R_4R_5g_m - C_5R_4\right)}{2C_1C_4C_5L_5R_4s^4 + 2g_m + s^3\left(2C_1C_4C_5R_4R_5 + 2C_1C_5L_5 + 2C_4C_5L_5R_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_1C_5R_5 + 2C_4C_5R_4R_5g_m + 2C_4C_5R_4 + 2C_5L_5g_m\right) + s\left(2C_1 + 2C_4R_4g_m + 2C_5R_4g_m + 2C_5R_5g_m + 2C_5R_5g_m\right)}$$

10.193 INVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_4R_5s^2 - R_4R_5 + s\left(L_5R_4R_5g_m - L_5R_4\right)}{2R_4R_5g_m + 2R_5 + s^3\left(2C_1C_4L_5R_4R_5 + C_1C_5L_5R_4R_5 + 2C_4C_5L_5R_4R_5\right) + s^2\left(C_1L_5R_4 + 2C_1L_5R_5 + 2C_4L_5R_4R_5g_m + 2C_4L_5R_4 + 2C_5L_5R_4R_5g_m + 2C_5L_5R_5\right) + s\left(C_1R_4R_5 + 2C_4R_4R_5 + 2L_5R_4g_m + 2L_5R_5g_m + 2L_5R_5g_m + 2C_5L_5R_4\right)}$$

10.194 INVALID-ORDER-194 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_5 R_4 g_m s + R_4 R_5 g_m - R_4 + s^2 \left(C_5 L_5 R_4 R_5 g_m - C_5 L_5 R_4\right)}{2 C_1 C_4 C_5 L_5 R_4 R_5 s^4 + 2 R_4 g_m + 2 R_5 g_m + s^3 \left(2 C_1 C_4 L_5 R_4 + C_1 C_5 L_5 R_4 + 2 C_1 C_5 L_5 R_4 + 2 C_4 C_5 L_5 R_4 R_5 g_m + 2 C_4 L_5 R_4 g_m + 2 C_5 L_5 R_4 g_m + 2 C_5 L_5 R_4 g_m + 2 C_5 L_5 R_5 g_m + 2 C_5 L_5 R_4 g_m + 2 C_5 L_5 R_5 g_m + 2 C_5 L_$$

10.195 INVALID-ORDER-195 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_4R_5s + R_4R_5g_m - R_4 + s^2\left(C_5L_5R_4R_5g_m - C_5L_5R_4\right)}{2C_1C_4C_5L_5R_4R_5s^4 + 2R_4g_m + 2R_5g_m + s^3\left(C_1C_5L_5R_4 + 2C_1C_5L_5R_5 + 2C_4C_5L_5R_4\right) + s^2\left(2C_1C_4R_4R_5 + C_1C_5R_4R_5 + 2C_4C_5L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_4R_4R_5g_m + 2C_4R_4R_5g_m + 2C_5R_4R_5g_m + 2C_5R_5R_5g_m + 2C_$$

10.196 INVALID-ORDER-196 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_4C_5R_4s^2 + g_m + s\left(C_4R_4g_m - C_5\right)}{C_1C_4C_5R_4s^3 + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.197 INVALID-ORDER-197 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_4C_5R_4R_5s^2 + R_5g_m + s\left(C_4R_4R_5g_m - C_4R_4 - C_5R_5\right) - 1}{C_1C_4C_5R_4R_5s^3 + 2g_m + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5R_4R_5g_m + 2C_4C_5R_5\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4 + 2C_5R_5g_m\right)}$$

10.198 INVALID-ORDER-198 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{g_m + s^2 \left(C_4 C_5 R_4 R_5 g_m - C_4 C_5 R_4 \right) + s \left(C_4 R_4 g_m + C_5 R_5 g_m - C_5 \right)}{s^3 \left(C_1 C_4 C_5 R_4 + 2 C_1 C_4 C_5 R_5 \right) + s^2 \left(2 C_1 C_4 + C_1 C_5 + 2 C_4 C_5 R_4 g_m + 2 C_4 C_5 R_5 g_m + 2 C_4 C_5 \right) + s \left(2 C_4 g_m + 2 C_5 g_m \right)}$$

10.199 INVALID-ORDER-199 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_4C_5L_5R_4g_ms^3 + g_m + s^2\left(-C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_4R_4g_m - C_5\right)}{2C_1C_4C_5L_5s^4 + s^3\left(C_1C_4C_5R_4 + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.200 INVALID-ORDER-200 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_5R_4s^3 + s^2\left(C_4L_5R_4g_m - C_5L_5\right) + s\left(-C_4R_4 + L_5g_m\right) - 1}{C_1C_4C_5L_5R_4s^4 + 2g_m + s^3\left(2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5R_4g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4C_5L_5\right)}$$

10.201 INVALID-ORDER-201
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_5R_4g_ms^3 + g_m + s^2\left(C_4C_5R_4R_5g_m - C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_4R_4g_m + C_5R_5g_m - C_5\right)}{2C_1C_4C_5L_5s^4 + s^3\left(C_1C_4C_5R_4 + 2C_1C_4C_5R_5 + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5R_5g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.202 INVALID-ORDER-202 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_5R_4R_5s^3 - R_5 + s^2\left(C_4L_5R_4R_5g_m - C_4L_5R_4 - C_5L_5R_5\right) + s\left(-C_4R_4R_5 + L_5R_5g_m - L_5\right)}{C_1C_4C_5L_5R_4R_5s^4 + 2R_5g_m + s^3\left(C_1C_4L_5R_4 + 2C_1C_4L_5R_5 + C_1C_5L_5R_5 + 2C_4C_5L_5R_6\right) + s^2\left(C_1C_4R_4R_5 + C_1L_5 + 2C_4L_5R_4g_m + 2C_4L_5R_5g_m +$$

10.203 INVALID-ORDER-203 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_5g_m + s^3\left(C_4C_5L_5R_4R_5g_m - C_4C_5L_5R_4\right) + s^2\left(C_4L_5R_4g_m + C_5L_5R_5g_m - C_5L_5\right) + s\left(C_4R_4R_5g_m - C_4R_4 + L_5g_m\right) - 1}{2g_m + s^4\left(C_1C_4C_5L_5R_4 + 2C_1C_4C_5L_5R_5\right) + s^3\left(2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5R_4g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + 2C_4L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + 2C_4C_5L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4C_5L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4C_5L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4C_5L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m\right) + s\left(C_1 + 2C_4R_4g_m\right) +$$

10.204 INVALID-ORDER-204 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_5g_m + s^3\left(C_4C_5L_5R_4R_5g_m - C_4C_5L_5R_4\right) + s^2\left(-C_4C_5R_4R_5 + C_5L_5R_5g_m - C_5L_5\right) + s\left(C_4R_4R_5g_m - C_4R_4 - C_5R_5\right) - 1}{2g_m + s^4\left(C_1C_4C_5L_5R_4 + 2C_1C_4C_5L_5R_5\right) + s^3\left(C_1C_4C_5R_4R_5 + C_1C_5L_5 + 2C_4C_5L_5R_4g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5R_5g_m + 2C_4C_5R_5\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5R_5\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + C_1C_5R_5\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + C_1C_5R_5\right) + s^2\left(C_1C_4R_5 + C_1C_5R_5\right) + s^2\left(C_$$

10.205 INVALID-ORDER-205 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_4 L_4 R_5 g_m - C_4 L_4 \right) - 1}{C_1 C_4 L_4 s^3 + 2 q_m + s^2 \left(2 C_1 C_4 R_5 + 2 C_4 L_4 q_m \right) + s \left(C_1 + 2 C_4 R_5 q_m + 2 C_4 \right)}$$

10.206 INVALID-ORDER-206 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_4s^3 + C_4L_4g_ms^2 - C_5s + g_m}{C_1C_4C_5L_4s^4 + 2C_4C_5L_4g_ms^3 + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.207 INVALID-ORDER-207 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_4C_5L_4R_5s^3 - C_5R_5s + R_5g_m + s^2\left(C_4L_4R_5g_m - C_4L_4\right) - 1}{C_1C_4C_5L_4R_5s^4 + 2g_m + s^3\left(C_1C_4L_4 + 2C_4C_5L_4R_5g_m\right) + s^2\left(2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5R_5 + 2C_4L_4g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4 + 2C_5R_5g_m\right)}$$

10.208 INVALID-ORDER-208 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_4 L_4 g_m s^2 + g_m + s^3 \left(C_4 C_5 L_4 R_5 g_m - C_4 C_5 L_4 \right) + s \left(C_5 R_5 g_m - C_5 \right)}{C_1 C_4 C_5 L_4 s^4 + s^3 \left(2 C_1 C_4 C_5 R_5 + 2 C_4 C_5 L_4 g_m \right) + s^2 \left(2 C_1 C_4 + C_1 C_5 + 2 C_4 C_5 R_5 g_m + 2 C_4 C_5 \right) + s \left(2 C_4 g_m + 2 C_5 g_m \right)}$$

10.209 INVALID-ORDER-209 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_4C_5L_4L_5g_ms^4 - C_4C_5L_4s^3 - C_5s + g_m + s^2\left(C_4L_4g_m + C_5L_5g_m\right)}{s^4\left(C_1C_4C_5L_4 + 2C_1C_4C_5L_5\right) + s^3\left(2C_4C_5L_4g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.210 INVALID-ORDER-210
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4L_5s^4 + C_4L_4L_5g_ms^3 + L_5g_ms + s^2\left(-C_4L_4 - C_5L_5\right) - 1}{C_1C_4C_5L_4L_5s^5 + 2C_4C_5L_4L_5g_ms^4 + 2g_m + s^3\left(C_1C_4L_4 + 2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(2C_4L_4g_m + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4\right)}$$

10.211 INVALID-ORDER-211
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_4L_5g_ms^4 + g_m + s^3\left(C_4C_5L_4R_5g_m - C_4C_5L_4\right) + s^2\left(C_4L_4g_m + C_5L_5g_m\right) + s\left(C_5R_5g_m - C_5\right)}{s^4\left(C_1C_4C_5L_4 + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4C_5R_5 + 2C_4C_5L_4g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_5g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.212 INVALID-ORDER-212
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4L_5R_5s^4 - R_5 + s^3\left(C_4L_4L_5R_5g_m - C_4L_4L_5\right) + s^2\left(-C_4L_4R_5 - C_5L_5R_5\right) + s\left(L_5R_5g_m - L_5\right)}{C_1C_4C_5L_4L_5R_5s^5 + 2R_5g_m + s^4\left(C_1C_4L_4L_5 + 2C_4C_5L_4L_5R_5g_m\right) + s^3\left(C_1C_4L_4R_5 + 2C_1C_4L_5R_5 + C_1C_5L_5R_5 + 2C_4C_5L_5R_5 + 2C_4L_4L_5g_m\right) + s^2\left(C_1L_5 + 2C_4L_4R_5g_m + 2C_4L_5R_5g_m + 2C_4L_5 + 2C_5L_5R_5g_m\right) + s\left(C_1R_5 + 2C_4R_5 + 2C_4R_5$$

10.213 INVALID-ORDER-213
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_4L_4L_5g_ms^3 + L_5g_ms + R_5g_m + s^4\left(C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5\right) + s^2\left(C_4L_4R_5g_m - C_4L_4 + C_5L_5R_5g_m - C_5L_5\right) - 1}{C_1C_4C_5L_4L_5s^5 + 2g_m + s^4\left(2C_1C_4C_5L_5R_5g_m\right) + s^3\left(C_1C_4L_4 + 2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4L_4g_m + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4L_4g_m + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4L_4g_m + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4C_5L_5g_m + 2C_4C_5L_5g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4C_5L_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4C_5L_5g_m + 2C_4C_5L_5g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4C_5L_5g_m\right) + s\left(C_1$$

10.214 INVALID-ORDER-214
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4R_5s^3 - C_5R_5s + R_5g_m + s^4\left(C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5\right) + s^2\left(C_4L_4R_5g_m - C_4L_4 + C_5L_5R_5g_m - C_5L_5\right) - 1}{C_1C_4C_5L_4L_5s^5 + 2g_m + s^4\left(C_1C_4C_5L_4R_5 + 2C_4C_5L_4R_5g_m\right) + s^3\left(C_1C_4L_4 + C_1C_5L_5 + 2C_4C_5L_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5R_5 + 2C_4L_4g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4C_5R_5g_m\right)}$$

10.215 INVALID-ORDER-215
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

$$H(s) = \frac{s \left(L_4 R_5 g_m - L_4 \right)}{2C_1 C_4 L_4 R_5 s^3 + 2R_5 q_m + s^2 \left(C_1 L_4 + 2C_4 L_4 R_5 q_m + 2C_4 L_4 \right) + s \left(2C_1 R_5 + 2L_4 q_m \right) + 2}$$

10.216 INVALID-ORDER-216 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_5 L_4 s^2 + L_4 g_m s}{2g_m + s^3 \left(2C_1 C_4 L_4 + C_1 C_5 L_4 + 2C_4 C_5 L_4\right) + s^2 \left(2C_4 L_4 g_m + 2C_5 L_4 g_m\right) + s \left(2C_1 + 2C_5\right)}$$

10.217 INVALID-ORDER-217 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_4R_5s^2 + s\left(L_4R_5g_m - L_4\right)}{2R_5g_m + s^3\left(2C_1C_4L_4R_5 + C_1C_5L_4R_5 + 2C_4C_5L_4R_5\right) + s^2\left(C_1L_4 + 2C_4L_4R_5g_m + 2C_4L_4 + 2C_5L_4R_5g_m\right) + s\left(2C_1R_5 + 2C_5R_5 + 2L_4g_m\right) + 2C_4R_5g_m + 2C_4R_5g_m + 2C_4R_5g_m\right)}$$

10.218 INVALID-ORDER-218
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_4 g_m s + s^2 \left(C_5 L_4 R_5 g_m - C_5 L_4 \right)}{2 C_1 C_4 C_5 L_4 R_5 s^4 + 2 g_m + s^3 \left(2 C_1 C_4 L_4 + C_1 C_5 L_4 + 2 C_4 C_5 L_4 R_5 g_m + 2 C_4 C_5 L_4 \right) + s^2 \left(2 C_1 C_5 R_5 + 2 C_4 L_4 g_m + 2 C_5 L_4 g_m \right) + s \left(2 C_1 + 2 C_5 R_5 g_m + 2 C_5 \right)}$$

10.219 INVALID-ORDER-219
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

10.220 INVALID-ORDER-220
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_4L_5s^3 + L_4L_5g_ms^2 - L_4s}{s^4\left(2C_1C_4L_4L_5 + C_1C_5L_4L_5 + 2C_4C_5L_4L_5\right) + s^3\left(2C_4L_4L_5g_m + 2C_5L_4L_5g_m\right) + s^2\left(C_1L_4 + 2C_1L_5 + 2C_4L_4 + 2C_5L_5\right) + s\left(2L_4g_m + 2L_5g_m\right) + 2C_5L_4L_5g_m\right)}$$

10.221 INVALID-ORDER-221
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5L_4L_5g_ms^3 + L_4g_ms + s^2\left(C_5L_4R_5g_m - C_5L_4\right)}{2C_1C_4C_5L_4L_5s^5 + 2g_m + s^4\left(2C_1C_4C_5L_4R_5 + 2C_4C_5L_4L_5g_m\right) + s^3\left(2C_1C_4L_4 + C_1C_5L_4 + 2C_1C_5L_5 + 2C_4C_5L_4R_5g_m + 2C_4C_5L_4\right) + s^2\left(2C_1C_5R_5 + 2C_4L_4g_m + 2C_5L_4g_m + 2C_5L_5g_m\right) + s\left(2C_1 + 2C_5R_5g_m + 2C_5\right)}$$

10.222 INVALID-ORDER-222
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_5L_4L_5R_5s^3 - L_4R_5s + s^2\left(L_4L_5R_5g_m - L_4L_5\right)}{2R_5 + s^4\left(2C_1C_4L_4L_5R_5 + C_1C_5L_4L_5R_5 + 2C_4C_5L_4L_5R_5\right) + s^3\left(C_1L_4L_5 + 2C_4L_4L_5R_5g_m + 2C_4L_4L_5 + 2C_5L_4L_5R_5g_m\right) + s^2\left(C_1L_4R_5 + 2C_4L_4R_5 + 2C_5L_5R_5 + 2L_4L_5g_m\right) + s\left(2L_4R_5g_m + 2L_5R_5g_m + 2L_5R_5g_m\right) + s\left(2L_4R_5g_m + 2L_5R$$

10.223 INVALID-ORDER-223
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_4 L_5 g_m s^2 + s^3 \left(C_5 L_4 L_5 R_5 g_m - C_5 L_4 L_5\right) + s \left(L_4 R_5 g_m - L_4\right)}{2 C_1 C_4 C_5 L_4 L_5 R_5 s^5 + 2 R_5 g_m + s^4 \left(2 C_1 C_4 L_4 L_5 + C_1 C_5 L_4 L_5 + 2 C_4 C_5 L_4 L_5\right) + s^3 \left(2 C_1 C_4 L_4 R_5 + 2 C_1 C_5 L_5 R_5 + 2 C_4 L_4 L_5 g_m + 2 C_4 L_4 R_5 g_m + 2 C_4 L_4 R_5 g_m + 2 C_5 L_5\right) + s \left(2 C_1 R_5 + 2 L_4 g_m + 2 L_5 g_m + 2 C_5 L_5 R_5 g_m$$

10.224 INVALID-ORDER-224
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_4R_5s^2 + s^3\left(C_5L_4L_5R_5g_m - C_5L_4L_5\right) + s\left(L_4R_5g_m - L_4\right)}{2C_1C_4C_5L_4L_5R_5s^5 + 2R_5g_m + s^4\left(C_1C_5L_4L_5 + 2C_4C_5L_4L_5R_5g_m + 2C_4C_5L_4L_5\right) + s^3\left(2C_1C_4L_4R_5 + 2C_1C_5L_5R_5 + 2C_4C_5L_4R_5 + 2C_4C_5L_4R_5g_m + 2C_4L_4 + 2C_5L_4R_5g_m + 2C_5L_5R_5g_m + 2C_5L_5\right) + s\left(2C_1R_5 + 2C_5R_5 + 2C_4C_5L_4R_5 + 2C_4C_5L_4R_5 + 2C_4C_5L_4R_5 + 2C_4C_5L_4R_5 + 2C_4C_5L_4R_5g_m + 2C_4C_5L_4R_5g_m + 2C_5L_5R_5g_m + 2C_5L_5R_5g_m$$

10.225 INVALID-ORDER-225
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_4 L_4 R_5 g_m - C_4 L_4 \right) + s \left(C_4 R_4 R_5 g_m - C_4 R_4 \right) - 1}{C_1 C_4 L_4 s^3 + 2 g_m + s^2 \left(C_1 C_4 R_4 + 2 C_1 C_4 R_5 + 2 C_4 L_4 g_m \right) + s \left(C_1 + 2 C_4 R_4 g_m + 2 C_4 R_5 g_m + 2 C_4 \right)}$$

10.226 INVALID-ORDER-226
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4s^3 + g_m + s^2\left(-C_4C_5R_4 + C_4L_4g_m\right) + s\left(C_4R_4g_m - C_5\right)}{C_1C_4C_5L_4s^4 + s^3\left(C_1C_4C_5R_4 + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.227 INVALID-ORDER-227
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4R_5s^3 + R_5g_m + s^2\left(-C_4C_5R_4R_5 + C_4L_4R_5g_m - C_4L_4\right) + s\left(C_4R_4R_5g_m - C_4R_4 - C_5R_5\right) - 1}{C_1C_4C_5L_4R_5s^4 + 2g_m + s^3\left(C_1C_4C_5R_4R_5 + C_1C_4L_4 + 2C_4C_5L_4R_5g_m\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + C_1C_5R_5 + 2C_4C_5R_4R_5g_m + 2C_4C_5R_5 + 2C_4L_4g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5R_5g_m\right)}$$

10.228 INVALID-ORDER-228
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^3 \left(C_4 C_5 L_4 R_5 g_m - C_4 C_5 L_4\right) + s^2 \left(C_4 C_5 R_4 R_5 g_m - C_4 C_5 R_4 + C_4 L_4 g_m\right) + s \left(C_4 R_4 g_m + C_5 R_5 g_m - C_5\right)}{C_1 C_4 C_5 L_4 s^4 + s^3 \left(C_1 C_4 C_5 R_4 + 2 C_1 C_4 C_5 R_5 + 2 C_4 C_5 L_4 g_m\right) + s^2 \left(2 C_1 C_4 + C_1 C_5 + 2 C_4 C_5 R_4 g_m + 2 C_4 C_5\right) + s \left(2 C_4 g_m + 2 C_5 g_m\right)}$$

10.229 INVALID-ORDER-229
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_4L_5g_ms^4 + g_m + s^3\left(-C_4C_5L_4 + C_4C_5L_5R_4g_m\right) + s^2\left(-C_4C_5R_4 + C_4L_4g_m + C_5L_5g_m\right) + s\left(C_4R_4g_m - C_5\right)}{s^4\left(C_1C_4C_5L_4 + 2C_1C_4C_5L_5\right) + s^3\left(C_1C_4C_5R_4 + 2C_4C_5L_4g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.230 INVALID-ORDER-230
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4L_5s^4 + s^3\left(-C_4C_5L_5R_4 + C_4L_4L_5g_m\right) + s^2\left(-C_4L_4 + C_4L_5R_4g_m - C_5L_5\right) + s\left(-C_4R_4 + L_5g_m\right) - 1}{C_1C_4C_5L_4L_5s^5 + 2g_m + s^4\left(C_1C_4C_5L_5R_4 + 2C_4C_5L_4L_5g_m\right) + s^3\left(C_1C_4L_4 + 2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4L_5g_m + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4\right)}$$

10.231 INVALID-ORDER-231
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_4L_5g_ms^4 + g_m + s^3\left(C_4C_5L_4R_5g_m - C_4C_5L_4 + C_4C_5L_5R_4g_m\right) + s^2\left(C_4C_5R_4R_5g_m - C_4C_5R_4 + C_4L_4g_m + C_5L_5g_m\right) + s\left(C_4R_4g_m + C_5R_5g_m - C_5\right)}{s^4\left(C_1C_4C_5L_4 + 2C_1C_4C_5L_5\right) + s^3\left(C_1C_4C_5R_4 + 2C_1C_4C_5R_5 + 2C_4C_5L_4g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5R_5g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.232 INVALID-ORDER-232
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_4L_5R_5s^4 - R_5 + s^3\left(-C_4C_5L_5R_4R_5 + C_4L_4L_5R_5g_m - C_4L_4L_5\right) + s^2\left(-C_4L_4R_5 + C_4L_5R_4g_m - C_4L_5R_4 - C_5L_5R_5\right) + s\left(-C_4R_4R_5 + L_5R_5g_m - L_5\right)}{C_1C_4C_5L_4L_5R_5s^5 + 2R_5g_m + s^4\left(C_1C_4C_5L_5R_4R_5 + C_1C_4L_5R_5g_m\right) + s^3\left(C_1C_4L_4R_5 + C_1C_4L_5R_5g_m + 2C_4C_5L_5R_5 + 2C_4C_5L_5R_5 + 2C_4L_4L_5g_m\right) + s^2\left(C_1C_4R_4R_5 + C_1L_5 + 2C_4L_4R_5g_m + 2C_4L_5R_5g_m + 2C_4L_5R_5g_m\right) + s^2\left(C_1C_4R_4R_5 + C_1L_5R_5g_m + 2C_4L_5R_5g_m\right) + s^2\left(C_1C_4R_4R_5 + C_1L_5R_5g_m\right) + s^2\left(C_1C_4R_4R_5g_m\right) + s^2\left(C_1$$

10.233 INVALID-ORDER-233
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_4 C_5 L_4 L_5 R_5 g_m - C_4 C_5 L_4 L_5 \right) + s^3 \left(C_4 C_5 L_5 R_4 R_5 g_m - C_4 C_5 L_5 R_4 + C_4 L_4 L_5 g_m \right) + s^2 \left(C_4 L_4 R_5 g_m - C_4 L_4 + C_4 L_5 R_4 g_m + C_5 L_5 R_5 g_m - C_5 L_5 \right) + s \left(C_4 R_4 R_5 g_m - C_4 R_4 + L_5 g_m \right) - 1}{C_1 C_4 C_5 L_4 L_5 s^5 + 2 g_m + s^4 \left(C_1 C_4 C_5 L_5 R_4 + 2 C_1 C_4 C_5 L_5 R_5 + 2 C_4 C_5 L_5 R_4 g_m + 2 C_4 C_5 L_5 R_4 g_m + 2 C_4 C_5 L_5 \right) + s^2 \left(C_1 C_4 R_4 + 2 C_1 C_4 R_5 + 2 C_4 L_5 g_m + 2 C_4 L$$

10.234 INVALID-ORDER-234
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_5g_m + s^4 \left(C_4C_5L_4L_5R_5g_m - C_4C_5L_4R_5 + C_4C_5L_5R_4R_5g_m - C_4C_5L_5R_4 + c_4C_5L_5R_4g_m - C_4L_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4L_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_4 + C_5L_5R_5g_m - C_5L_5 \right) + s \left(C_4R_4R_5g_m - C_4R_5R_5g_m - C_4R_5R_5g$$

10.235 INVALID-ORDER-235
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$$

$$H(s) = \frac{s \left(L_4 R_4 R_5 g_m - L_4 R_4 \right)}{2 C_1 C_4 L_4 R_4 R_5 s^3 + 2 R_4 R_5 g_m + 2 R_4 + s^2 \left(C_1 L_4 R_4 + 2 C_1 L_4 R_5 + 2 C_4 L_4 R_4 R_5 g_m + 2 C_4 L_4 R_4 \right) + s \left(2 C_1 R_4 R_5 + 2 L_4 R_4 g_m + 2 L_4 R_5 g_m + 2 L_5 R$$

10.236 INVALID-ORDER-236
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_5L_4R_4s^2 + L_4R_4g_ms}{2R_4g_m + s^3\left(2C_1C_4L_4R_4 + C_1C_5L_4R_4 + 2C_4C_5L_4R_4\right) + s^2\left(2C_1L_4 + 2C_4L_4R_4g_m + 2C_5L_4R_4g_m + 2C_5L_4\right) + s\left(2C_1R_4 + 2C_5R_4 + 2L_4g_m\right)}$$

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10.237 INVALID-ORDER-237 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                          H(s) = \frac{-C_5L_4R_4R_5s^2 + s\left(L_4R_4R_5g_m - L_4R_4\right)}{2R_4R_5g_m + 2R_4 + s^3\left(2C_1C_4L_4R_4R_5 + C_1C_5L_4R_4R_5 + 2C_4C_5L_4R_4R_5\right) + s^2\left(C_1L_4R_4 + 2C_1L_4R_5 + 2C_4L_4R_4R_5g_m + 2C_4L_4R_4 + 2C_5L_4R_5\right) + s\left(2C_1R_4R_5 + 2C_5R_4R_5 + 2L_4R_4g_m + 2L_4R_5g_m + 2L_4R_5\right)}
10.238 INVALID-ORDER-238 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
                     H(s) = \frac{L_4 R_4 g_m s + s^2 \left(C_5 L_4 R_4 R_5 g_m - C_5 L_4 R_4\right)}{2 C_1 C_4 C_5 L_4 R_4 R_5 s^4 + 2 R_4 g_m + s^3 \left(2 C_1 C_4 L_4 R_4 + C_1 C_5 L_4 R_4 + 2 C_1 C_5 L_4 R_5 g_m + 2 C_4 C_5 L_4 R_4\right) + s^2 \left(2 C_1 C_5 R_4 R_5 + 2 C_1 L_4 + 2 C_4 L_4 R_4 g_m + 2 C_5 L_4 R_5 g_m + 2 C_5 L_4\right) + s \left(2 C_1 R_4 + 2 C_5 R_4 R_5 g_m + 2 C_5 R_4 + 2 L_4 g_m\right)}
10.239 INVALID-ORDER-239 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
              H(s) = \frac{C_5L_4L_5R_4g_ms^3 - C_5L_4R_4s^2 + L_4R_4g_ms}{2C_1C_4L_5R_4s^5 + 2R_4g_m + s^4\left(2C_1C_5L_4L_5 + 2C_4C_5L_4L_5R_4g_m\right) + s^3\left(2C_1C_4L_4R_4 + C_1C_5L_4R_4 + 2C_4C_5L_4R_4 + 2C_5L_4R_4g_m\right) + s^2\left(2C_1L_4 + 2C_4L_4R_4g_m + 2C_5L_4R_4g_m + 2C_5L_4R_4g_m\right) + s^2\left(2C_1R_4 + 2C_5R_4R_4g_m\right) + s^2\left(2C_1R_4 + 2C_5R_4g_m\right) + s^2\left(
10.240 INVALID-ORDER-240 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                     H(s) = \frac{-C_5L_4L_5R_4s^3 + L_4L_5R_4g_ms^2 - L_4R_4s}{2R_4 + s^4\left(2C_1C_4L_4L_5R_4 + C_1C_5L_4L_5R_4 + 2C_4C_5L_4L_5R_4\right) + s^3\left(2C_1L_4L_5 + 2C_4L_4L_5R_4g_m + 2C_5L_4L_5\right) + s^2\left(C_1L_4R_4 + 2C_1L_5R_4 + 2C_4L_4R_4 + 2C_5L_5R_4 + 2L_4L_5g_m\right) + s\left(2L_4R_4g_m + 2L_4 + 2L_5R_4g_m\right)}
10.241 INVALID-ORDER-241 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_5L_4L_5R_4g_ms^3 + L_4R_4g_ms + s^2(C_5L_4R_4R_5g_m - C_5L_4R_4)
H(s) = \frac{C_5L_4L_5R_4g_ms^5 + L_4R_4g_ms + s^2\left(C_5L_4R_4R_5g_m - C_5L_4R_4\right)}{2C_1C_4C_5L_4L_5R_4s^5 + 2R_4g_m + s^4\left(2C_1C_4C_5L_4R_4R_5 + 2C_1C_5L_4L_5 + 2C_4C_5L_4R_4 + 2C_1C_5L_4R_4 + 2C_4C_5L_4R_4 +
10.242 INVALID-ORDER-242 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -C_5L_4L_5R_4R_5s^3-L_4R_4R_5s+s^2\left(L_4L_5R_4R_5g_m-L_4L_5R_4\right)
H(s) = \frac{-C_5L_4L_5R_4R_5s^3 - L_4R_4R_5s + s^2\left(L_4L_5R_4R_5g_m - L_4L_5R_4\right)}{2R_4R_5 + s^4\left(2C_1C_4L_4L_5R_4R_5 + C_1C_5L_4L_5R_4R_5 + 2C_4L_4L_5R_4R_5 + 2C_4L_4L_5R_4R_5g_m + 2C_5L_4L_5R_4R_5 + 2C_5L_4L_5R_4R_5 + 2C_4L_4R_4R_5 + 2C_5L_4R_4R_5 + 2C_4L_4R_4R_5 + 2C_5L_4R_5R_4 + 2C_5L_4R_5R_5 + 2C_4L_4R_5R_5 + 2C_4L_4R_5R_5 + 2C_4L_4R_5R_5 + 2C_4L_4R_5R_5 + 2C_4L_4R_5R_5 + 2C_5L_4R_5R_5 + 2C_5L_5R_5R_5 + 2
10.243 INVALID-ORDER-243 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    L_4L_5R_4g_ms^2 + s^3(C_5L_4L_5R_4R_5g_m - C_5L_4L_5R_4) + s(L_4R_4R_5g_m - L_4R_4)
                                     \frac{\mathcal{L}_{4}\mathcal{L}_{5}\mathcal{L}_{4}g_{m}s_{-1}s_{-1}c_{4}g_{m}s_{-1}s_{-1}c_{5}\mathcal{L}_{4}L_{5}g_{m}}{\mathcal{L}_{5}\mathcal{L}_{4}\mathcal{L}_{5}R_{4}R_{5}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}s_{-1}
10.244 INVALID-ORDER-244 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -C_5L_4R_4R_5s^2 + s^3\left(C_5L_4L_5R_4R_5g_m - C_5L_4L_5R_4\right) + s\left(L_4R_4R_5g_m - L_4R_4\right)
H(s) = \frac{-C_5L_4R_4R_5s^5 + s^4(C_5L_4L_5R_4R_5g_m - C_5L_4L_5R_4) + s^4(C_4R_4R_5g_m - C_5L_4R_5R_5g_m - C_5L_4R_5g_m - 
10.245 INVALID-ORDER-245 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                                                        H(s) = \frac{R_4 R_5 g_m - R_4 + s^2 \left(C_4 L_4 R_4 R_5 g_m - C_4 L_4 R_4\right) + s \left(L_4 R_5 g_m - L_4\right)}{2 R_4 g_m + 2 R_5 g_m + s^3 \left(C_1 C_4 L_4 R_4 + 2 C_1 C_4 L_4 R_5\right) + s^2 \left(C_1 L_4 + 2 C_4 L_4 R_4 g_m + 2 C_4 L_4 R_5 g_m + 2 C_4 L_4\right) + s \left(C_1 R_4 + 2 C_1 R_5 + 2 L_4 g_m\right) + 2 C_4 L_4 R_5 g_m + 2 C_4
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 \begin{aligned} \textbf{10.246} \quad & \textbf{INVALID-ORDER-246} \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \frac{1}{C_5 s}, \ \infty\right) \\ & \quad H(s) = \frac{-C_4 C_5 L_4 R_4 s^3 + R_4 g_m + s^2 \left(C_4 L_4 R_4 g_m - C_5 L_4\right) + s \left(-C_5 R_4 + L_4 g_m\right)}{C_1 C_4 C_5 L_4 R_4 s^4 + 2 g_m + s^3 \left(2 C_1 C_4 L_4 + C_1 C_5 L_4 + 2 C_4 C_5 L_4 R_4 g_m + 2 C_4 C_5 L_4\right) + s^2 \left(C_1 C_5 R_4 + 2 C_4 L_4 g_m + 2 C_5 L_4 g_m\right) + s \left(2 C_1 + 2 C_5 R_4 g_m + 2 C_5 L_4 g_m\right) + s \left(2 C_1 + 2 C_5 R_4 g_m + 2 C_5 L_4 g_m\right) + s \left(2 C_1 + 2 C_5 R_4 g_m + 2 C_5 L_4 g_m\right) + s \left(2 C_1 + 2 C_5 R_4 g_m + 2 C_5 L_4 g_m\right) + s \left(2 C_1 + 2 C_5 R_4 g_m\right) + s \left(2 C_1 + 2 C_5 R_4 g_m\right)
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10.248 INVALID-ORDER-248 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_4 g_m + s^3 \left(C_4 C_5 L_4 R_4 R_5 g_m - C_4 C_5 L_4 R_4\right) + s^2 \left(C_4 L_4 R_4 g_m + C_5 L_4 R_5 g_m - C_5 L_4\right) + s \left(C_5 R_4 R_5 g_m - C_5 R_4 + L_4 g_m\right)}{2 g_m + s^4 \left(C_1 C_4 C_5 L_4 R_5\right) + s^3 \left(2 C_1 C_4 L_4 + C_1 C_5 L_4 + 2 C_4 C_5 L_4 R_5 g_m + 2 C_4 C_5 L_4 R_5 g_m + 2 C_4 C_5 L_4\right) + s^2 \left(C_1 C_5 R_4 + 2 C_1 C_5 R_5 + 2 C_4 L_4 g_m + 2 C_5 L_4 g_m\right) + s \left(2 C_1 + 2 C_5 R_4 g_m + 2 C_5 R_5 g_m + 2 C_5 L_4 R_5 g_m\right)}$

10.249 INVALID-ORDER-249 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_4C_5L_4L_5R_4g_ms^4 + R_4g_m + s^3\left(-C_4C_5L_4R_4 + C_5L_4L_5g_m\right) + s^2\left(C_4L_4R_4g_m - C_5L_4 + C_5L_5R_4g_m\right) + s\left(-C_5R_4 + L_4g_m\right)}{2C_1C_4C_5L_4L_5s^5 + 2g_m + s^4\left(C_1C_4C_5L_4R_4 + 2C_4C_5L_4L_5g_m\right) + s^3\left(2C_1C_4L_4 + C_1C_5L_4 + 2C_1C_5L_5 + 2C_4C_5L_4R_4g_m + 2C_4C_5L_4\right) + s^2\left(C_1C_5R_4 + 2C_4L_4g_m + 2C_5L_5g_m\right) + s\left(2C_1 + 2C_5R_4g_m + 2C_5R_4g_m + 2C_5R_4g_m\right) + s\left(2C_1 + 2C_5R_4g_m + 2C_4R_4g_m\right) + s\left(2C_1 + 2C_5R_4g_m\right) + s\left(2C_1 + 2C_5R$

10.250 INVALID-ORDER-250 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4L_5R_4s^4 - R_4 + s^3\left(C_4L_4L_5R_4g_m - C_5L_4L_5\right) + s^2\left(-C_4L_4R_4 - C_5L_5R_4 + L_4L_5g_m\right) + s\left(-L_4 + L_5R_4g_m\right)}{C_1C_4C_5L_4L_5R_4s^5 + 2R_4g_m + s^4\left(2C_1C_4L_4S + C_1C_5L_4L_5 + 2C_4C_5L_4L_5\right) + s^3\left(C_1C_4L_4R_4 + C_1C_5L_5R_4 + 2C_4L_4Sg_m\right) + s^2\left(C_1L_4 + 2C_1L_5 + 2C_4L_4R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2L_4g_m + 2L_5g_m\right) + s^2\left(C_1R_4 + 2C_4R_4g_m + 2C_4R_4g_m\right) + s^2\left(C_1R_4 + 2C_4R_4g_m + 2C_4R_4g_m\right) + s^2\left(C_1R_4 + 2C_4R_4g_m\right) + s$

10.251 INVALID-ORDER-251 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_4C_5L_4L_5R_4g_ms^4 + R_4g_m + s^3\left(C_4C_5L_4R_4R_5g_m - C_4C_5L_4R_4 + C_5L_4L_5g_m\right) + s^2\left(C_4L_4R_4g_m + C_5L_4R_5g_m - C_5L_4 + C_5L_5R_4g_m\right) + s\left(C_5R_4R_5g_m - C_5R_4 + L_4g_m\right)}{2C_1C_4C_5L_4L_5s^5 + 2g_m + s^4\left(C_1C_4C_5L_4R_5 + 2C_4C_5L_4R_5g_m\right) + s^3\left(2C_1C_4L_4 + C_1C_5L_5 + 2C_4C_5L_4R_5g_m + 2C_4C_5L_4\right) + s^2\left(C_1C_5R_4 + 2C_1C_5R_5 + 2C_4L_4g_m + 2C_5L_5g_m\right) + s\left(2C_1C_4R_4g_m + 2C_5L_4g_m + 2C_5L_4g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4L_4g_m + 2C_5L_5g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4L_4g_m + 2C_5L_5g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4L_4g_m + 2C_5L_4g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4L_4g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4L_4g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4C_5L_4R_5g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4C_5L_4R_5g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4C_5L_4g_m\right) + s\left(2C_1C_5R_4 + 2C_1C_5R_5 + 2C_4C_5R_5 + 2C_4C_5R$

10.252 INVALID-ORDER-252 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4L_5R_4R_5s^4 - R_4R_5 + s^3\left(C_4L_4L_5R_4R_5g_m - C_4L_4L_5R_4 - C_5L_4L_5R_5\right) + s^2\left(-C_4L_4R_4R_5 - C_5L_5R_4R_5 + L_4L_5R_5g_m - L_4L_5\right) + s^2\left(-C_4L_4R_4R_5s^5 + 2R_4R_5g_m + 2R_5s^5 + 2R_5$

10.253 INVALID-ORDER-253 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

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

10.254 INVALID-ORDER-254 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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

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H(s) = \frac{R_4 R_5 g_m - R_4 + s^2 \left(C_4 L_4 R_4 R_5 g_m - C_4 L_4 R_4\right)}{2 R_4 g_m + 2 R_5 g_m + s^3 \left(C_1 C_4 L_4 R_4 + 2 C_1 C_4 L_4 R_5\right) + s^2 \left(2 C_1 C_4 R_4 R_5 + 2 C_4 L_4 R_4 g_m + 2 C_4 L_4 R_5 g_m + 2 C_4 L_4\right) + s \left(C_1 R_4 + 2 C_1 R_5 + 2 C_4 R_4 R_5 g_m + 2 C_4 R_4\right) + 2 C_4 R_5 g_m + 2 
10.256 INVALID-ORDER-256 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                       H(s) = \frac{-C_4C_5L_4R_4s^3 + C_4L_4R_4g_ms^2 - C_5R_4s + R_4g_m}{C_1C_4C_5L_4R_4s^4 + 2g_m + s^3\left(2C_1C_4L_4 + 2C_4C_5L_4R_4g_m + 2C_4C_5L_4\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_4C_5R_4 + 2C_4L_4g_m\right) + s\left(2C_1 + 2C_4R_4g_m + 2C_5R_4g_m + 2C_5R_4g_m\right) + s\left(2C_1 + 2C_4R_4g_m + 2C_5R_4g_m\right) + s\left(2C_1 + 2C_4R_4g_m\right) + s\left(2C_1 + 2C_4
10.257 INVALID-ORDER-257 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_4R_4R_5s^3 - C_5R_4R_5s + R_4R_5g_m - R_4 + s^2\left(C_4L_4R_4R_5g_m - C_4L_4R_4\right)}{C_1C_4C_5L_4R_4S^4 + 2R_4g_m + 2R_5g_m + s^3\left(C_1C_4L_4R_4 + 2C_1C_4L_4R_5 + 2C_4C_5L_4R_4S\right) + s^2\left(2C_1C_4R_4R_5 + C_1C_5R_4R_5 + 2C_4C_5R_4R_5 + 2C_4L_4R_5g_m + 2C_4L_4\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_4R_4R_5g_m + 2C_4R_5R_5g_m + 2C_4R_5g_m + 2C_4R_5R_5g_m + 2C_4R_5R_5g_m + 2C_4R_5R_5g_m + 2C_4R_5
10.258 INVALID-ORDER-258 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                   \frac{C_4L_4R_4g_ms^2 + R_4g_m + s^3\left(C_4C_5L_4R_4S_{g_m} - C_4C_5L_4R_4\right) + s\left(C_5R_4R_5g_m - C_5R_4\right)}{2g_m + s^4\left(C_1C_4C_5L_4R_4 + 2C_1C_4C_5L_4R_5\right) + s^3\left(2C_1C_4C_5R_4R_5 + 2C_1C_4L_4 + 2C_4C_5L_4R_5g_m + 2C_4C_5L_4\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_4C_5R_4 + 2C_4C_5R_4 + 2C_4C_5R_4\right) + s\left(2C_1C_4R_4 + 2C_4C_5R_4R_5g_m + 2C_4C_5R_4\right) + s\left(2C_1C_4R_4 + 2C_4C_5R_4g_m + 2C_4C_5R_4\right) + s\left(2C_1C_4R_4 + 2C_4C_5R_4\right) + s\left(2C_1C_4R_4 + 2C_4C_5R_4\right) + s\left(2C_1C_4R_4 + 2C_4C_5R_4\right) + s\left(2C_1C_4R_4 + 2C_4C_5R_4\right) + s\left(2C_1C_4R_4\right) + s\left(2C_1C_4R_4\right
10.259 INVALID-ORDER-259 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4C_5L_4L_5R_4g_ms^4 - C_4C_5L_4R_4s^3 - C_5R_4s + R_4g_m + s^2\left(C_4L_4R_4g_m + C_5L_5R_4g_m\right)}{2C_1C_4C_5L_4L_5s^5 + 2g_m + s^4\left(C_1C_4C_5L_4R_4 + 2C_1C_5L_5R_4 + 2C_4C_5L_4R_4g_m + 2C_4C_5L
10.260 INVALID-ORDER-260 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_4L_5R_4s^4 + C_4L_4L_5R_4g_ms^3 + L_5R_4g_ms - R_4 + s^2\left(-C_4L_4R_4 - C_5L_5R_4\right)}{C_1C_4C_5L_4L_5R_4s^5 + 2R_4g_m + s^4\left(2C_1C_4L_4L_5 + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5\right) + s^3\left(C_1C_4L_4R_4 + 2C_1C_4L_5R_4 + 2C_4C_5L_5R_4 + 2C_4C_5L_5R_4 + 2C_4L_4R_4g_m + 2C_4L_4R_4g_m + 2C_4L_4R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_4R_4 + 2C_4R_4 + 2C_4R_4R_4g_m + 2C_4R_4
10.261 INVALID-ORDER-261 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4C_5L_4L_5R_4g_ms^4 + R_4g_m + s^3\left(C_4C_5L_4R_4g_m + C_5L_5R_4g_m\right) + s\left(C_5R_4R_5g_m - C_5R_4\right)}{2C_1C_4C_5L_4L_5s^5 + 2g_m + s^4\left(C_1C_4C_5L_4R_4 + 2C_1C_4C_5L_4R_5 + 2C_1C_4C_5L_4R_5g_m\right) + s^3\left(2C_1C_4C_5R_4R_5 + 2C_1C_4C_5L_4R_5g_m + 2C_4C_5L_4R_5g_m + 2C_4C_5L_4R_5g_m\right) + s^2\left(2C_1C_4R_4 + 2C_1C_5R_4 + 2C_4C_5L_4R_5g_m\right) + s^2\left(2C_1C_4R_4 + 2C_1C_5R_4R_5g_m\right) + s^2\left(2C_1C_
10.262 INVALID-ORDER-262 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 H(s) = \frac{-C_4C_5L_4L_5R_4R_5s^3 - R_4R_5 + s^3\left(C_4L_4L_5R_4R_5g_m - C_4L_4L_5R_4\right) + s^2\left(-C_4L_4R_4R_5 - C_5L_5R_4R_5\right) + s\left(L_5R_4R_5g_m - C_4L_4L_5R_4\right) + s^2\left(-C_4L_4R_4R_5 - C_5L_5R_4R_5\right) + s^2\left(-C_4L_4R_4R_5 - C_5
10.263 INVALID-ORDER-263 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \frac{C_4 L_4 L_5 R_4 g_m s + L_5 L_4 g_m s + L_
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10.255 INVALID-ORDER-255 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$

10.264 INVALID-ORDER-264 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $-C_4C_5L_4R_4R_5s^3 - C_5R_4R_5s + R_4R_5g_m - R_4 + s^4\left(C_4C_5L_4L_5R_4R_5g_m - C_4C_5L_4L_5R_4R_5g_m - C_4C_5L_4R_5g_m - C_4C_5L_5R_5g_m - C_5C_5R_5g_m - C_5$

 $H(s) = \frac{-C_4C_5L_4R_4R_5s - C_5R_4R_5s + R_4R_5g_m - R_4 + s \cdot (C_4C_5L_4L_5R_4R_5g_m - C_4C_5L_4L_5R_4R_5g_m - C_4C_5L_4L_5R_4R_5g_m - C_4C_5L_4L_5R_4R_5g_m - C_4C_5L_4L_5R_4g_m - C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5R_$

10.265 INVALID-ORDER-265 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, R_5, \infty\right)$

$$H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4}{2R_1 R_4 g_m + 2R_1 R_5 g_m + 2R_1 + R_4 + 2R_5 + s \left(C_1 R_1 R_4 + 2C_1 R_1 R_5\right)}$$

10.266 INVALID-ORDER-266 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_5L_5R_1R_4g_ms^2 - C_5R_1R_4s + R_1R_4g_m}{2C_1C_5L_5R_1s^3 + 2R_1g_m + s^2\left(C_1C_5R_1R_4 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_1R_1 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4\right) + 2C_5R_1R_4g_m}$$

10.267 INVALID-ORDER-267 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_4s^2 + L_5R_1R_4g_ms - R_1R_4}{C_1C_5L_5R_1R_4s^3 + 2R_1R_4g_m + 2R_1 + R_4 + s^2\left(2C_1L_5R_1 + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1 + C_5L_5R_4\right) + s\left(C_1R_1R_4 + 2L_5R_1g_m + 2L_5\right)}$$

10.268 INVALID-ORDER-268 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

10.269 INVALID-ORDER-269 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_5L_5R_1R_4R_5s^2 - R_1R_4R_5 + s\left(L_5R_1R_4R_5g_m - L_5R_1R_4\right)}{C_1C_5L_5R_1R_4R_5s^3 + 2R_1R_4R_5g_m + 2R_1R_5 + R_4R_5 + s^2\left(C_1L_5R_1R_4 + 2C_1L_5R_1R_5 + 2C_5L_5R_1R_4R_5g_m + 2C_5L_5R_1R_5 + C_5L_5R_4R_5\right) + s\left(C_1R_1R_4R_5 + 2L_5R_1R_4g_m + 2L_5R_1R_5g_m + 2L_5R_1 + L_5R_4 + 2L_5R_5\right)}$$

10.270 INVALID-ORDER-270 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{L_5 R_1 R_4 g_m s + R_1 R_4 R_5 g_m - R_1 R_4 + s^2 \left(C_5 L_5 R_1 R_4 R_5 g_m - C_5 L_5 R_1 R_4\right)}{2 R_1 R_4 g_m + 2 R_1 R_5 g_m + 2 R_1 + R_4 + 2 R_5 + s^3 \left(C_1 C_5 L_5 R_1 R_4 + 2 C_1 C_5 L_5 R_1 R_5\right) + s^2 \left(2 C_1 L_5 R_1 + 2 C_5 L_5 R_1 R_4 g_m + 2 C_5 L_5 R_1 R_5 g_m + 2 C_5 L_5 R_1 + C_5 L_5 R_4 + 2 C_5 L_5 R_5\right) + s \left(C_1 R_1 R_4 + 2 C_1 R_1 R_5 + 2 L_5 R_1 g_m + 2 L_5\right)}$$

10.271 INVALID-ORDER-271 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_5L_5R_1R_4R_5g_m - C_5L_5R_1R_4\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^3\left(C_1C_5L_5R_1R_4 + 2C_1C_5L_5R_1R_4\right) + s^2\left(C_1C_5R_1R_4R_5 + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1 + C_5L_5R_4 + 2C_5L_5R_5\right) + s\left(C_1R_1R_4 + 2C_1R_1R_5 + 2C_5R_1R_4R_5g_m + 2C_5R_1R_4\right)}$$

10.272 INVALID-ORDER-272 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

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

10.273 INVALID-ORDER-273
$$Z(s) = \left(\frac{c_{1}^{2}c_{1}^{2}c_{1}^{2}c_{2}^{2}c_{2}^{2}c_{3}^{2}c_{4}^{2}c_{4}^{2}c_{3}^{2}c_{3}^{2}c_{3}^{2}c_{4}^{2}c_{3}^{2}c_{3}^{2}c_{3}^{2}c_{4}^{2}c_{3}^{2}c_{3}^{2}c_{4}^{2}c_{3}^{2}c_{4}^{2}c_{3}^{2}c_{4}^{2}c_{3}^{2}c_{4}^{2}c_{4}^{2}c_{3}^{2}c_{4}^{2}c_{4}^{2}c_{4}^{2}c_{3}^{2}c_{4}^{2}c_{4}^{2}c_{4}^{2}c_{3}^{2}c_{4}^{2}c$$

 $H(s) = \frac{-C_5L_5R_1R_4s^2 + L_5R_1R_4g_ms - R_1R_4}{2R_1R_4g_m + 2R_1 + R_4 + s^3\left(2C_1C_4L_5R_1R_4 + C_1C_5L_5R_1R_4 + 2C_4C_5L_5R_1R_4\right) + s^2\left(2C_1L_5R_1 + 2C_4L_5R_1R_4g_m + 2C_4L_5R_1R_4g_m + 2C_5L_5R_1R_4g_m + 2C_5L_5R_1 + C_5L_5R_4\right) + s\left(C_1R_1R_4 + 2C_4R_1R_4 + 2L_5R_1g_m + 2L_5\right)}$

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10.283 INVALID-ORDER-283 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_5L_5R_1R_4g_ms^2 + R_1R_4g_m + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2C_1C_4C_5L_5R_1R_4s^4 + 2R_1g_m + s^3\left(2C_1C_4C_5R_1R_4R_5 + 2C_1C_5L_5R_1 + 2C_4C_5L_5R_4\right) + s^2\left(2C_1C_4R_1R_4 + C_1C_5R_1R_4 + 2C_1C_5R_1R_4 + 2C_4C_5R_1R_4 + 2C_4C_5R_1R_
10.284 INVALID-ORDER-284 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_5L_5R_1R_4R_5s^2 - R_1R_4R_5s^2 - R_1R_4R_5s^2 - R_1R_4R_5g_m - L_5R_1R_4}{2R_1R_4R_5g_m + 2R_1R_5 + R_4R_5 + s^3\left(2C_1C_4L_5R_1R_4R_5 + 2C_4C_5L_5R_1R_4R_5\right) + s^2\left(C_1L_5R_1R_4 + 2C_1L_5R_1R_4 + 2C_4L_5R_1R_4 + 2C_4L_5R_1R_4 + 2C_4L_5R_1R_4 + 2C_5L_5R_1R_4 + 2C_5L_5R_1R
10.285 INVALID-ORDER-285 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        L_5R_1R_4g_ms + R_1R_4R_5g_m - R_1R_4 + s^2(C_5L_5R_1R_4R_5g_m - C_5L_5R_1R_4)
H(s) = \frac{L_5 R_1 R_4 g_m s + R_1 R_4 R_5 g_m - R_1 R_4 + s \cdot (C_5 L_5 R_1 R_4 R_5 g_m - C_5 L_5 R_1 R_4)}{2 C_1 C_4 C_5 L_5 R_1 R_4 R_5 s^4 + 2 R_1 R_4 g_m + 2 R_1 R_5 g_m + 2 R_1 + R_4 + 2 R_5 + s^3 \left(2 C_1 C_4 L_5 R_1 R_4 + C_1 C_5 L_5 R_1 R_4 + 2 C_4 L_5 R_1 R_4 g_m + 2 C_4 L_5 R_1 R_4 g_
10.286 INVALID-ORDER-286 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4 + s^2(C_5L_5R_1R_4R_5g_m - C_5L_5R_1R_4)
H(s) = \frac{\frac{C_{5}L_{1}L_{4}L_{5}g_{m}}{2C_{1}C_{4}C_{5}L_{5}R_{1}R_{4}R_{5}s^{4} + 2R_{1}R_{4}g_{m} + 2R_{1}R_{5}g_{m} + 2R_{1}R_{4}g_{m} + 2R_{1}R_{5}g_{m} + 2R_{1}R_{4}g_{m} + 2R_{1}R_{5}g_{m} + 2C_{4}C_{5}L_{5}R_{1}R_{4} + 2C_{4}C_{5}L_{5}R_{1}R_{4} + 2C_{4}C_{5}L_{5}R_{1}R_{4}R_{5} + 2C_{4}C_{5}L_{5}R_{1}R_{4}R_{5} + 2C_{4}C_{5}L_{5}R_{1}R_{4}R_{5} + 2C_{5}L_{5}R_{1}R_{4}R_{5} + 2C_{5}L_{5}R_{1}R_{5}R_{5} + 2C_{5}L_{5}R_{1}R_{5} + 2C_{5}L_{5}R_{1}R_{5}R_{5} + 2C_{5}L_{5}R_{1}R_{5} + 2C_{5}L_{5}R_{1}R_{5} + 2C_{5}L_{5}R_{1}R_{5} + 2C_{5}L_{5}R_{1}R_{5} + 2C_{5}L_{5}R_{1}R_{5} + 2C_{5}L_{5}R_{1}R_{5} + 2C_{5}L_{5}R
10.287 INVALID-ORDER-287 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                     H(s) = \frac{-C_4C_5R_1R_4s^2 + R_1g_m + s\left(C_4R_1R_4g_m - C_5R_1\right)}{C_1C_4C_5R_1R_4s^3 + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1R_4q_m + 2C_4C_5R_1 + C_4C_5R_4\right) + s\left(2C_4R_1q_m + 2C_4 + 2C_5R_1q_m + C_5\right)}
10.288 INVALID-ORDER-288 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                       H(s) = \frac{-C_4C_5R_1R_4R_5s^2 + R_1R_5g_m - R_1 + s\left(C_4R_1R_4R_5g_m - C_4R_1R_4 - C_5R_1R_5\right)}{C_1C_4C_5R_1R_4R_5s^3 + 2R_1g_m + s^2\left(C_1C_4R_1R_4 + 2C_1C_4R_1R_5 + C_1C_5R_1R_5 + 2C_4C_5R_1R_4R_5g_m + 2C_4C_5R_1R_5 + C_4C_5R_4R_5\right) + s\left(C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_1R_5g_m + 2C_4R_1 + C_4R_4 + 2C_4R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}
10.289 INVALID-ORDER-289 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                           H(s) = \frac{R_1g_m + s^2\left(C_4C_5R_1R_4R_5g_m - C_4C_5R_1R_4\right) + s\left(C_4R_1R_4g_m + C_5R_1R_5g_m - C_5R_1\right)}{s^3\left(C_1C_4C_5R_1R_4 + 2C_1C_4C_5R_1R_5\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1R_4g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1 + C_4C_5R_4 + 2C_4C_5R_5\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}
10.290 INVALID-ORDER-290 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                        H(s) = \frac{C_4C_5L_5R_1R_4g_ms^3 + R_1g_m + s^2\left(-C_4C_5R_1R_4 + C_5L_5R_1g_m\right) + s\left(C_4R_1R_4g_m - C_5R_1\right)}{2C_1C_4C_5L_5R_1s^4 + s^3\left(C_1C_4C_5R_1R_4 + 2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1R_4g_m + 2C_4C_5R_1 + C_4C_5R_4\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}
10.291 INVALID-ORDER-291 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                   H(s) = \frac{-C_4C_5L_5R_1R_4s^3 - R_1 + s^2\left(C_4L_5R_1R_4g_m - C_5L_5R_1\right) + s\left(-C_4R_1R_4 + L_5R_1g_m\right)}{C_1C_4C_5L_5R_1R_4s^4 + 2R_1g_m + s^3\left(2C_1C_4L_5R_1 + C_1C_5L_5R_1 + 2C_4C_5L_5R_1R_4g_m + 2C_4C_5L_5R_4\right) + s^2\left(C_1C_4R_1R_4 + 2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_1 + C_4R_4\right) + 1}
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10.292 INVALID-ORDER-292 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                             H(s) = \frac{C_4C_5L_5R_1R_4g_ms^3 + R_1g_m + s^2\left(C_4C_5R_1R_4R_5g_m - C_4C_5R_1R_4 + C_5L_5R_1g_m\right) + s\left(C_4R_1R_4g_m + C_5R_1R_5g_m - C_5R_1\right)}{2C_1C_4C_5L_5R_1s^4 + s^3\left(C_1C_4C_5R_1R_4 + 2C_4C_5R_1R_5 + 2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1R_4g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1 + C_4C_5R_4 + 2C_4C_5R_5\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1R_5
10.293 INVALID-ORDER-293 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_4C_5L_5R_1R_4R_5s^3 - R_1R_5 + s^2\left(C_4L_5R_1R_4R_5g_m - C_4L_5R_1R_4 - C_5L_5R_1R_5\right) + s\left(-C_4R_1R_4R_5 + L_5R_1R_5g_m - L_5R_1\right)}{C_1C_4C_5L_5R_1R_4R_5s^4 + 2R_1R_5g_m + R_5 + s^3\left(C_1C_4L_5R_1R_4 + 2C_1C_4L_5R_1R_5 + C_4C_5L_5R_1R_4R_5g_m + 2C_4C_5L_5R_1R_4R_5\right) + s^2\left(C_1C_4R_1R_4R_5 + C_1L_5R_1 + 2C_4L_5R_1R_4g_m + 2C_4L_5R_1R_5g_m + 2C_4L_5R_1R_5g_m + 2C_4L_5R_1R_4g_m +
10.294 INVALID-ORDER-294 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \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_4 C_5 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_5 R_1 R_4 g_m + C_5 L_5 R_1 R_5 g_m - C_5 L_5 R_1 \right) + s \left( C_4 R_1 R_4 R_5 g_m - C_4 R_1 R_4 + L_5 R_1 g_m \right)}{2 R_1 g_m + s^4 \left( C_1 C_4 C_5 L_5 R_1 R_4 + 2 C_1 C_4 C_5 L_5 R_1 R_5 \right) + s^3 \left( 2 C_1 C_4 L_5 R_1 + C_1 C_5 L_5 R_1 + 2 C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_5 R_1 + C_4 C_5 L_5 R_1 + C_4 C_5 L_5 R_1 + C_4 C_5 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_5 R_1 R_5 g_m + 2
10.295 INVALID-ORDER-295 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.296 INVALID-ORDER-296 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                         H(s) = \frac{R_1 R_5 g_m - R_1 + s^2 \left( C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1 \right)}{C_1 C_4 L_4 R_1 s^3 + 2 R_1 g_m + s^2 \left( 2 C_1 C_4 R_1 R_5 + 2 C_4 L_4 R_1 g_m + C_4 L_4 \right) + s \left( C_1 R_1 + 2 C_4 R_1 R_5 g_m + 2 C_4 R_1 + 2 C_4 R_5 \right) + 1}
10.297 INVALID-ORDER-297 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                    H(s) = \frac{-C_4C_5L_4R_1s^3 + C_4L_4R_1g_ms^2 - C_5R_1s + R_1g_m}{C_1C_4C_5L_4R_1s^4 + s^3\left(2C_4C_5L_4R_1g_m + C_4C_5L_4\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}
10.298 INVALID-ORDER-298 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                           H(s) = \frac{-C_4C_5L_4R_1R_5s^3 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^2\left(C_4L_4R_1R_5g_m - C_4L_4R_1\right)}{C_1C_4C_5L_4R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_4L_4R_1 + 2C_4C_5L_4R_1R_5g_m + C_4C_5L_4R_5\right) + s^2\left(2C_1C_4R_1R_5 + C_1C_5R_1R_5 + 2C_4C_5R_1R_5 + 2C_4L_4R_1g_m + C_4L_4\right) + s\left(C_1R_1 + 2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_5 + 2C_5R_1R_5g_m + C_5R_5\right) + 1}
10.299 INVALID-ORDER-299 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                        H(s) = \frac{C_4L_4R_1g_ms^2 + R_1g_m + s^3\left(C_4C_5L_4R_1R_5g_m - C_4C_5L_4R_1\right) + s\left(C_5R_1R_5g_m - C_5R_1\right)}{C_1C_4C_5L_4R_1s^4 + s^3\left(2C_1C_4C_5R_1R_5 + 2C_4C_5L_4R_1g_m + C_4C_5L_4\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1 + 2C_4C_5R_5\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}
10.300 INVALID-ORDER-300 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                      H(s) = \frac{C_4C_5L_4L_5R_1g_ms^4 - C_4C_5L_4R_1s^3 - C_5R_1s + R_1g_m + s^2\left(C_4L_4R_1g_m + C_5L_5R_1g_m\right)}{s^4\left(C_1C_4C_5L_4R_1 + 2C_1C_4C_5L_5R_1\right) + s^3\left(2C_4C_5L_4R_1g_m + C_4C_5L_4 + 2C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}
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10.301 INVALID-ORDER-301 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                       H(s) = \frac{-C_4C_5L_4L_5R_1s^4 + C_4L_4L_5R_1g_ms^3 + L_5R_1g_ms - R_1 + s^2\left(-C_4L_4R_1 - C_5L_5R_1\right)}{C_1C_4C_5L_4L_5R_1s^5 + 2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + C_4C_5L_4L_5\right) + s^3\left(C_1C_4L_4R_1 + 2C_1C_4L_5R_1 + C_1C_5L_5R_1\right) + s^2\left(2C_4L_4R_1g_m + C_4L_4 + 2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + 1}
10.302 INVALID-ORDER-302 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                           H(s) = \frac{C_4C_5L_4L_5R_1g_ms^4 + R_1g_m + s^3\left(C_4C_5L_4R_1R_5g_m - C_4C_5L_4R_1\right) + s^2\left(C_4L_4R_1g_m + C_5L_5R_1g_m\right) + s\left(C_5R_1R_5g_m - C_5R_1\right)}{s^4\left(C_1C_4C_5L_4R_1 + 2C_1C_4C_5L_3\right) + s^3\left(2C_1C_4C_5R_1R_5 + 2C_4C_5L_4R_1g_m + C_4C_5L_4 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1R_5g_m + 2C_4C_5R_5\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1\right)}
10.303 INVALID-ORDER-303 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_4C_5L_4L_5R_1R_5s^4 - R_1R_5 + s^3\left(C_4L_4L_5R_1R_5g_m - C_4L_4L_5R_1\right) + s^2\left(-C_4L_4R_1R_5 - C_5L_5R_1R_5\right) + s\left(L_5R_1R_5g_m - L_5R_1\right)}{C_1C_4C_5L_4L_5R_1R_5s^5 + 2R_1R_5g_m + R_5 + s^4\left(C_1C_4L_4L_5R_1 + 2C_4C_5L_4L_5R_1R_5g_m + C_4L_4R_1R_5 + 2C_4C_5L_5R_1R_5 + 2C_4C_5L_5R_1R_5 + 2C_4L_4L_5R_1g_m + C_4L_4L_5\right) + s^2\left(C_1L_5R_1 + 2C_4L_4R_1R_5g_m + C_4L_4R_5\right) + s^2\left(C_1L_5R_1 + 2C_4L_4R_1R_5 + 2C_4L_4R_1R_5\right) + s^2\left(C_1L_5R_1 +
10.304 INVALID-ORDER-304 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \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_4L_4L_5R_1g_ms^3 + L_5R_1g_ms + R_1R_5g_m - R_1 + s^4\left(C_4C_5L_4L_5R_1R_5g_m - C_4C_5L_4L_5R_1\right) + s^2\left(C_4L_4R_1R_5g_m - C_4L_4R_1 + C_5L_5R_1R_5g_m - C_5L_5R_1\right)}{C_1C_4C_5L_4L_5R_1s^5 + 2R_1g_m + s^4\left(2C_1C_4C_5L_4R_1R_5 + 2C_4C_5L_4R_1R_5g_m + C_4C_5L_5R_1 + 2C_4C_5L_5R_1 + 2C_4C_5L_5R_1 + 2C_4C_5L_5R_1 + 2C_4C_5L_5R_1\right) + s^2\left(2C_1C_4R_1R_5 + 2C_4C_5L_5R_1R_5g_m - C_5L_5R_1\right)}
10.305 INVALID-ORDER-305 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 (C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                           -C_4C_5L_4R_1R_5s^3 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^4\left(C_4C_5L_4L_5R_1R_5g_m - C_4C_5L_4L_5R_1\right) + s^2\left(C_4L_4R_1R_5g_m - C_4L_4R_1 + C_5L_5R_1R_5g_m - C_4L_4R_1 + C_5L_5R_1R_5g_m - C_4L_4R_1 + C_5L_5R_1R_5g_m - C_4L_4R_1 + C_5L_5R_1R_5g_m - C_4L_4R_1R_5g_m -
10.306 INVALID-ORDER-306 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                   H(s) = \frac{s\left(L_{4}R_{1}R_{5}g_{m} - L_{4}R_{1}\right)}{2C_{1}C_{4}L_{4}R_{1}R_{5}s^{3} + 2R_{1}R_{5}g_{m} + 2R_{1} + 2R_{5} + s^{2}\left(C_{1}L_{4}R_{1} + 2C_{4}L_{4}R_{1}R_{5}g_{m} + 2C_{4}L_{4}R_{1} + 2C_{4}L_{4}R_{5}\right) + s\left(2C_{1}R_{1}R_{5} + 2L_{4}R_{1}g_{m} + L_{4}\right)}
10.307 INVALID-ORDER-307 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                    H(s) = \frac{-C_5L_4R_1s^2 + L_4R_1g_ms}{2R_1g_m + s^3\left(2C_1C_4L_4R_1 + C_1C_5L_4R_1 + 2C_4C_5L_4R_1\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + C_5L_4\right) + s\left(2C_1R_1 + 2C_5R_1\right) + 2C_4R_1g_m + C_5R_1g_m +
10.308 INVALID-ORDER-308 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                   H(s) = \frac{-C_5L_4R_1R_5s^2 + s\left(L_4R_1R_5g_m - L_4R_1\right)}{2R_1R_5g_m + 2R_1 + 2R_5 + s^3\left(2C_1C_4L_4R_1R_5 + C_1C_5L_4R_1R_5 + 2C_4C_5L_4R_1R_5\right) + s^2\left(C_1L_4R_1 + 2C_4L_4R_1R_5g_m + 2C_4L_4R_5 + 2C_5L_4R_1R_5g_m + C_5L_4R_5\right) + s\left(2C_1R_1R_5 + 2C_5R_1R_5 + 2L_4R_1g_m + L_4\right)}
10.309 INVALID-ORDER-309 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
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10.310 INVALID-ORDER-310 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                          H(s) = \frac{C_5L_4L_5R_1g_ms^3 - C_5L_4R_1s^2 + L_4R_1g_ms}{2C_1C_4C_5L_4L_5R_1s^5 + 2R_1g_m + s^4\left(2C_4C_5L_4L_5R_1g_m + 2C_4C_5L_4L_5\right) + s^3\left(2C_1C_4L_4R_1 + C_1C_5L_4R_1 + 2C_1C_5L_5R_1 + 2C_4C_5L_4R_1\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + 2C_4L_4 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_1R_1 + 2C_5R_1\right) + 2C_4C_5L_4R_1g_m 
10.311 INVALID-ORDER-311 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                                                                        H(s) = \frac{-C_5L_4L_5R_1s^3 + L_4L_5R_1g_ms^2 - L_4R_1s}{2R_1 + s^4\left(2C_1C_4L_4L_5R_1 + C_1C_5L_4L_5R_1 + 2C_4C_5L_4L_5R_1\right) + s^3\left(2C_4L_4L_5R_1g_m + 2C_4L_4L_5 + 2C_5L_4L_5R_1g_m + C_5L_4L_5\right) + s^2\left(C_1L_4R_1 + 2C_4L_4R_1 + 2C_5L_5R_1\right) + s\left(2L_4R_1g_m + L_4 + 2L_5R_1g_m + 2L_5\right)}
10.312 INVALID-ORDER-312 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_5L_4L_5R_1g_ms^3 + L_4R_1g_ms + s^2\left(C_5L_4R_1R_5g_m - C_5L_4R_1\right)}{2C_1C_4C_5L_4L_5R_1s^5 + 2R_1g_m + s^4\left(2C_1C_4C_5L_4R_1R_5 + 2C_4C_5L_4L_5R_1g_m + 2C_4C_5L_4R_1 + 2C_4C_5L_
10.313 INVALID-ORDER-313 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_5L_4L_5R_1R_5s^3 - L_4R_1R_5s + s^2\left(L_4L_5R_1R_5g_m - L_4L_5R_1\right)}{2R_1R_5 + s^4\left(2C_1C_4L_4L_5R_1R_5 + C_1C_5L_4L_5R_1R_5 + 2C_4L_5R_1R_5\right) + s^3\left(C_1L_4L_5R_1 + 2C_4L_4L_5R_1R_5g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^4\left(2C_1C_4L_4L_5R_1R_5 + 2C_4L_4L_5R_1R_5 + 2C_4L_4L_5R_1R_5 + 2C_4L_4R_1R_5 + 2C_
10.314 INVALID-ORDER-314 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L_4L_5R_1g_ms^2 + s^3\left(C_5L_4L_5R_1R_5g_m - C_5L_4L_5R_1\right) + s\left(L_4R_1R_5g_m - L_4R_1\right)
H(s) = \frac{L_4L_5R_1g_ms + s + (\sqrt{5}L_4L_5R_1R_1s_g_m - \sqrt{5}L_4L_5R_1r_1s_g_m - \sqrt{5}L_4L_5R_1r_1s_g_m - L_4R_1r_1}{2C_1C_4C_5L_4L_5R_1R_5s^5 + 2R_1R_5g_m + 2R_1 + 2R_5 + s^4\left(2C_1C_4L_4R_1R_5g_m + 2C_4C_5L_4L_5R_1 + 2C_4C_
10.315 INVALID-ORDER-315 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_5L_4R_1R_5s^2 + s^3\left(C_5L_4L_5R_1R_5g_m - C_5L_4L_5R_1\right) + s\left(L_4R_1R_5g_m - L_4R_1\right)}{2C_1C_4C_5L_4L_5R_1R_5s^5 + 2R_1R_5g_m + 2R_1 + 2R_5 + s^4\left(C_1C_5L_4L_5R_1 + 2C_4C_5L_4L_5R_1 + 2C_4C_5L_4L_5R_1\right) + s^3\left(2C_1C_4L_4R_1R_5 + 2C_4C_5L_4R_1R_5 
10.316 INVALID-ORDER-316 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                                      H(s) = \frac{R_1R_5g_m - R_1 + s^2\left(C_4L_4R_1R_5g_m - C_4L_4R_1\right) + s\left(C_4R_1R_4R_5g_m - C_4R_1R_4\right)}{C_1C_4L_4R_1s^3 + 2R_1g_m + s^2\left(C_1C_4R_1R_4 + 2C_1C_4R_1R_5 + 2C_4L_4R_1g_m + C_4L_4\right) + s\left(C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_1R_5g_m + 2C_4R_1 + C_4R_4 + 2C_4R_5\right) + 1}
10.317 INVALID-ORDER-317 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
```

$$H(s) = \frac{-C_4C_5L_4R_1s^3 + R_1g_1}{C_1C_4C_5L_4R_1s^4 + s^3\left(C_1C_4C_5R_1R_4 + 2C_4C_5L_4R_1g_m + C_4C_5L_4\right) + c^2}$$

 $H(s) = \frac{-C_4C_5L_4R_1s^3 + R_1g_m + s^2\left(-C_4C_5R_1R_4 + C_4L_4R_1g_m\right) + s\left(C_4R_1R_4g_m - C_5R_1\right)}{C_1C_4C_5L_4R_1s^4 + s^3\left(C_1C_4C_5R_1R_4 + 2C_4C_5L_4R_1g_m + C_4C_5L_4\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1R_4g_m + 2C_4C_5R_1 + C_4C_5R_4\right) + s\left(2C_4R_1g_m + 2C_4 + 2C_5R_1g_m + C_5\right)}$

10.318 INVALID-ORDER-318
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_4C_5L_4R_1R_5s^3 + R_1R_5g_m - R_1 + s^2\left(-C_4C_5R_1R_4R_5 + C_4L_4R_1R_5g_m - C_4R_1R_4 - C_5R_1R_5\right)}{C_1C_4C_5L_4R_1R_5s^4 + 2R_1g_m + s^3\left(C_1C_4C_5R_1R_4R_5 + C_4C_5L_4R_1R_5g_m + C_4C_5L_4R_1R_5 + C_4C_5R_1R_4 + 2C_4C_5R_1R_4 + 2C_4C_5R_1R_4 + 2C_4C_5R_1R_5 + 2C_4C_$

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10.319 INVALID-ORDER-319 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                  H(s) = \frac{R_1 g_m + s^3 \left( C_4 C_5 L_4 R_1 R_5 g_m - C_4 C_5 L_4 R_1 \right) + s^2 \left( C_4 C_5 R_1 R_4 R_5 g_m - C_4 C_5 R_1 R_4 + C_4 L_4 R_1 g_m \right) + s \left( C_4 R_1 R_4 g_m + C_5 R_1 R_5 g_m - C_5 R_1 \right)}{C_1 C_4 C_5 L_4 R_1 s^4 + s^3 \left( C_1 C_4 C_5 R_1 R_4 + 2 C_1 C_4 C_5 R_1 R_5 + 2 C_4 C_5 L_4 R_1 g_m + C_4 C_5 L_4 \right) + s^2 \left( 2 C_1 C_4 R_1 + C_1 C_5 R_1 + 2 C_4 C_5 R_1 R_5 g_m + 2 C_4 C_5 R_1 R_5 g_m + 2 C_4 C_5 R_1 + C_4 C_5 R_4 + 2 C_4 C_5 R_5 \right) + s \left( 2 C_4 R_1 g_m + 2 C_4 C_5 R_1 g_m + C_5 R_1 R_5 g_m + C_5
10.320 INVALID-ORDER-320 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                              H(s) = \frac{C_4C_5L_4L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_4C_5L_4R_1 + C_4C_5L_5R_1R_4g_m\right) + s^2\left(-C_4C_5R_1R_4 + C_4L_4R_1g_m + C_5L_5R_1g_m\right) + s\left(C_4R_1R_4g_m - C_5R_1\right)}{s^4\left(C_1C_4C_5L_4R_1 + 2C_4C_5L_5R_1\right) + s^3\left(C_1C_4C_5R_1R_4 + 2C_4C_5L_4R_1g_m + C_4C_5L_5R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1R_4g_m + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m + 2C_4C_5R_
10.321 INVALID-ORDER-321 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_4L_5R_1s^4 - R_1 + s^3\left(-C_4C_5L_5R_1R_4 + C_4L_4L_5R_1g_m\right) + s^2\left(-C_4L_4R_1 + C_4L_5R_1R_4g_m - C_5L_5R_1\right) + s\left(-C_4R_1R_4 + L_5R_1g_m\right)}{C_1C_4C_5L_4L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_4C_5L_5R_1R_4 + 2C_4C_5L_5R_1R_4 + 2C_4C_5L_5R_1 + 2C_4C_5L_5R_1
10.322 INVALID-ORDER-322 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4C_5L_4L_5R_1g_ms^4 + R_1g_m + s^3\left(C_4C_5L_4R_1R_5g_m - C_4C_5L_4R_1 + C_4C_5L_5R_1R_4g_m\right) + s^2\left(C_4C_5R_1R_4R_5g_m - C_4C_5R_1R_4 + C_4L_4R_1g_m + C_5L_5R_1g_m\right) + s\left(C_4R_1R_4g_m + C_5R_1R_5g_m - C_5R_1\right)}{s^4\left(C_1C_4C_5L_4R_1 + 2C_1C_4C_5R_1R_4 + 2C_4C_5L_4R_1g_m + C_4C_5L_4R_1g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1R_4g_m + 2C_4C_5R_1R_4g_m + 2
10.323 INVALID-ORDER-323 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10.324 INVALID-ORDER-324 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_4 C_5 L_4 L_5 R_1 R_5 g_m - C_4 C_5 L_4 L_5 R_1 R_4 + C_4 L_4 L_5 R_1 g_m\right) + s^2 \left(C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1 + C_4 L_5 R_1 R_4 g_m + C_5 L_5 R_1 R_4 + C_4 L_5 R_1 R_5 g_m - C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1 + C_4 L_5 R_1 R_4 g_m + C_5 L_5 R_1 R_4 R_5 g_m - C_4 L_5 R_1 R_5 R_1 R_4 R_5 g_m - C_4 L_5 R_1 R_5 R_1
10.325 INVALID-ORDER-325 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R_{1}R_{5}g_{m}-R_{1}+s^{4}\left(C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{4}L_{5}R_{1}\right)+s^{3}\left(-C_{4}C_{5}L_{4}R_{1}R_{5}+C_{4}C_{5}L_{5}R_{1}R_{4}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R_{5}g_{m}-C_{4}C_{5}L_{5}R_{1}R
H(s) = \frac{1}{C_1C_4C_5L_4L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_4C_5L_4R_1R_5 + C_1C_4C_5L_5R_1R_4 + 2C_1C_4C_5L_5R_1R_5 + 2C_4C_5L_4R_1R_5 + C_1C_4C_5L_4R_1R_5 +
10.326 INVALID-ORDER-326 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)
                                                                                                         H(s) = \frac{s\left(L_{4}R_{1}R_{4}R_{5}g_{m} - L_{4}R_{1}R_{4}\right)}{2C_{1}C_{4}L_{4}R_{1}R_{4}R_{5}g_{m} + 2R_{1}R_{4} + 2R_{4}R_{5} + s^{2}\left(C_{1}L_{4}R_{1}R_{4} + 2C_{1}L_{4}R_{1}R_{5} + 2C_{4}L_{4}R_{1}R_{4} + 2C_{4}L_{4}R_{1}R_{2} + 2C_{4}L_{4}R_{1}
10.327 INVALID-ORDER-327 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
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86

 $H(s) = \frac{-C_5L_4R_1R_4s^2 + L_4R_1R_4g_ms}{2R_1R_4g_m + 2R_4 + s^3\left(2C_1C_4L_4R_1R_4 + C_1C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4\right) + s^2\left(2C_1L_4R_1 + 2C_4L_4R_1R_4g_m + 2C_4L_4R_1R_4g_m + 2C_5L_4R_1 + C_5L_4R_4\right) + s\left(2C_1R_1R_4 + 2C_5R_1R_4 + 2L_4R_1g_m + 2L_4R_1R_4\right)}$

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10.328 INVALID-ORDER-328 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_5L_4R_1R_4R_5s^2 + s\left(L_4R_1R_4R_5g_m - L_4R_1R_4\right)}{2R_1R_4R_5g_m + 2R_1R_4 + 2R_4R_5 + s^3\left(2C_1C_4L_4R_1R_4R_5 + 2C_4C_5L_4R_1R_4R_5\right) + s^2\left(C_1L_4R_1R_4 + 2C_4L_4R_1R_4 + 2C_4L_4R_1R_4 + 2C_4L_4R_1R_4 + 2C_5L_4R_1R_4R_5\right) + s\left(2C_1R_1R_4R_5 + 2C_5L_4R_1R_4R_5\right) + s\left(2C_1R_1R_4R_5 + 2C_5L_4R_1R_4 + 2C_4L_4R_1R_4 + 2C_4L_4R_1R_4 + 2C_4L_4R_1R_4 + 2C_5L_4R_1R_4 + 2C_5L_5L_4R_1R_4 + 2C_5L_5L_4R_1R_4 + 2C_5L_5L_5R_1R_4 + 2C_5L_5L_5R_1R_4 + 2C_5L_5L_5R_1R_4 + 2C_5L_5L_5R_1R_5 
10.329 INVALID-ORDER-329 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           L_4R_1R_4g_ms + s^2\left(C_5L_4R_1R_4R_5g_m - C_5L_4R_1R_4\right)
                                          \frac{L_4R_1R_4g_ms + s^2\left(C_5L_4R_1R_4R_5g_m - C_5L_4R_1R_4\right)}{2C_1C_4C_5L_4R_1R_4S_5^4 + 2R_1R_4g_m + 2R_4 + s^3\left(2C_1C_4L_4R_1R_4 + 2C_1C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4L_4R_1 
10.330 INVALID-ORDER-330 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_5L_4L_5R_1R_4g_ms^3 - C_5L_4R_1R_4s^2 + L_4R_1R_4g_ms}{2C_1C_4C_5L_4L_5R_1R_4s^5 + 2R_1R_4g_m + 2C_4C_5L_4L_5R_1 + 2C_4C_5L_4L_5R_1 + 2C_4C_5L_4L_5R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_5L_4L_5R_1g_m + 2C_5L_4L_5 + s^2\left(2C_1L_4R_1 + 2C_4L_4R_1R_4g_m + 2C_4L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_5L_4L_5R_1g_m + 2C_5L_4L_5\right) + s^2\left(2C_1L_4R_1 + 2C_4L_4R_1R_4g_m + 2C_4L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_5L_4L_5R_1g_m + 2C_4L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_5L_4R_1R_4 + 2C_5L_5R_1R_4 + 2C_5
10.331 INVALID-ORDER-331 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_5L_4L_5R_1R_4s^3 + L_4L_5R_1R_4g_ms^2 - L_4R_1R_4s}{2R_1R_4 + s^4\left(2C_1C_4L_4L_5R_1R_4 + C_1C_5L_4L_5R_1R_4 + 2C_4L_4L_5R_1R_4 + 2C_4L_4L_5R_1R_4g_m + 2C_4L_4L_5R_1R_4g_m + 2C_5L_4L_5R_1R_4g_m + 2C_5L_4L_5R_1R_4 + 2C_4L_4R_1R_4 + 2C_4R_1R_4 + 2C_
10.332 INVALID-ORDER-332 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_5L_4L_5R_1R_4g_ms^3 + L_4R_1R_4g_ms^3
H(s) = \frac{\frac{C_5 L_4 L_5 R_1 R_4 s^5 + 2 R_1 R_4 g_m + 2 R_4 + s^4 \left(2 C_1 C_4 C_5 L_4 R_1 R_4 R_5 + 2 C_1 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_4 R_1 R_4 + 2
10.333 INVALID-ORDER-333 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
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 $H(s) = \frac{C_3L_4L_5R_1R_4R_5 - C_4L_4L_5R_1R_4R_5 - C_4L_4L_5R_1R_4R_5$

10.334 INVALID-ORDER-334
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

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

10.335 INVALID-ORDER-335
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

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

10.336 INVALID-ORDER-336
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

$$H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^2 \left(C_4 L_4 R_1 R_4 R_5 g_m - C_4 L_4 R_1 R_4\right) + s \left(L_4 R_1 R_5 g_m - L_4 R_1\right)}{2 R_1 R_4 g_m + 2 R_1 R_5 g_m + 2 R_1 + R_4 + 2 R_5 + s^3 \left(C_1 C_4 L_4 R_1 R_4 + 2 C_1 C_4 L_4 R_1 R_5\right) + s^2 \left(C_1 L_4 R_1 + 2 C_4 L_4 R_1 R_5 g_m + 2 C_4 L_4 R_1 R_5 g_m + 2 C_4 L_4 R_1 + C_4 L_4 R_4 + 2 C_4 L_4 R_5\right) + s \left(C_1 R_1 R_4 + 2 C_1 R_1 R_5 + 2 L_4 R_1 g_m + L_4\right)}$$

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10.337 INVALID-ORDER-337 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                               H(s) = \frac{-C_4C_5L_4R_1R_4s^3 + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m - C_5L_4R_1\right) + s\left(-C_5R_1R_4 + L_4R_1g_m\right)}{C_1C_4C_5L_4R_1R_4s^4 + 2R_1g_m + s^3\left(2C_1C_4L_4R_1 + C_1C_5L_4R_1 + 2C_4C_5L_4R_1 + C_4C_5L_4R_1\right) + s\left(-C_5R_1R_4 + 2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + C_5L_4\right) + s\left(2C_1R_1 + 2C_5R_1R_4g_m + 2C_4R_1 + C_4R_1g_m + 2C_4R_1g_m + 2C_4R_1g_
10.338 INVALID-ORDER-338 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -C_4C_5L_4R_1R_4R_5s^3 + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_4L_4R_1R_4R_5g_m - C_4L_4R_1R_4 - C_5L_4R_1R_5\right) + s\left(-C_5R_1R_4R_5 + L_4R_1R_5g_m - L_4R_1R_5\right) + s\left(-C_5R_1R_4R_5 + L_4R_1R_5g_m - L_4R_1R_5g_m - L_4R_1R_5\right) + s\left(-C_5R_1R_4R_5 + L_4R_1R_5g_m - L_4R_1R_5\right) + s\left(-C_5R_1R_4R_5 + L_4R_1R_5g_m - L_4R_1R_5\right) + s\left(-C_5R_1R_4R_5 + L_4R_1R_5g_m - L_5R_1R_5g_m 
H(s) = \frac{-C_4C_5L_4R_1R_4R_5s^\circ + R_1R_4R_5g_m - R_1R_4 + s^\circ \left(C_4L_4R_1R_4R_5g_m - C_4L_4R_1R_4 - C_5L_4R_1R_5\right) + s\left(-C_5R_1R_4R_5 + L_4R_1R_5g_m - L_4R_4R_5g_m - C_4L_4R_1R_4 + 2C_4L_4R_1R_5 + L_4R_1R_5g_m - L_4R_4R_5g_m - C_4L_4R_1R_4 + 2C_4L_4R_1R_5 + L_4R_4R_5g_m - C_4L_4R_1R_4 + 2C_4L_4R_1R_5g_m - C_4L_4R_1R_5g_m - C_4L_4R_1R_4g_m - C_4L_4R_1R_4g_m - C_4L_4R_1R_4g_m - C_4L_4R_1R_5g_m - C_4L_4R_1R_4g_m - C_4L_4R_1R_4g_m - C_4L_4R_1R_5g_m - C_4L_4R_1R_4g_m - C_4L_4R_1
10.339 INVALID-ORDER-339 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{R_1 R_4 g_m + s^3 \left( C_4 C_5 L_4 R_1 R_4 g_m - C_4 C_5 L_4 R_1 R_4 g_m + C_5 L_4 R_1 R_5 g_m - C_5 L_4 R_1 \right) + s \left( C_5 R_1 R_4 R_5 g_m - C_5 R_1 R_4 + L_4 R_1 g_m \right)}{2 R_1 g_m + s^4 \left( C_1 C_4 C_5 L_4 R_1 R_5 g_m + 2 C_4 C_5 L_4 R_1 R_5 g_m + 2 C_4 C_5 L_4 R_1 R_5 g_m + 2 C_4 C_5 L_4 R_1 + C_4 C_5 L_4 R_1 R_5 g_m + 2 C_4 C
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10.340 INVALID-ORDER-340 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_4C_5L_4L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(-C_4C_5L_4R_1R_4 + C_5L_4L_5R_1g_m\right) + s^2\left(C_4L_4R_1R_4g_m - C_5L_4R_1 + C_5L_5R_1R_4g_m\right) + s\left(-C_5R_1R_4 + L_4R_1g_m\right)}{2C_1C_4C_5L_4L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1 + C_1C_5L_4R_1 + 2C_4C_5L_4R_1R_4g_m + 2C_4C_5L_4R_1 + C_4C_5L_4R_1\right) + s^2\left(C_1C_5R_1R_4 + 2C_4L_4R_1g_m + 2C_4L$

10.341 INVALID-ORDER-341 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{-C_4C_5L_4L_5R_1R_4s^4 - R_1R_4 + s^3\left(C_4L_4L_5R_1R_4g_m - C_5L_4L_5R_1\right) + s^2\left(-C_4L_4R_1R_4 - C_5L_5R_1R_4 + L_4L_5R_1g_m\right) + s\left(-L_4R_1 + L_5R_1R_4g_m - C_5L_4L_5R_1R_4g_m + 2C_4L_4L_5R_1R_4g_m + 2C_4L_4L_5R_1R_4g_m + 2C_4L_4L_5R_1R_4g_m + 2C_4L_4L_5R_1R_4g_m + 2C_4L_4L_5R_1R_4g_m + 2C_4L_4L_5R_1g_m + 2C_4L_4L_5R_1g_m$

10.342 INVALID-ORDER-342 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_4C_5L_4L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(C_4C_5L_4R_1R_4 + C_5L_4L_5R_1g_m\right) + s^2\left(C_4L_4R_1R_4g_m + C_5L_4R_1R_5g_m - C_5L_4R_1 + C_5L_5R_1g_m\right) + s^2\left(C_4L_4R_1R_4g_m + C_4C_5L_4R_1R_5g_m + C_4C_5L_4R_1R_5g_m\right) + s^2\left(C_4L_4R_1R_5g_m + C_4C_5L_4R_1R_5g_m + C_5L_4R_1R_5g_m\right) + s^2\left(C_4L_4R_1R_5g_m + C_5L_4R_1R_5g_m\right) + s$

10.343 INVALID-ORDER-343 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $-C_4C_5L_4L_5R_1R_4R_5s^4 - R_1R_4R_5 + s^3(C_4L_4L_5R_5)$

 $\frac{-\sqrt{4}\sqrt{5}L_4L_5R_1R_4R_5s^5 + 2R_1R_4R_5s^5 + 2R_1R_4R_5s^$

10.344 INVALID-ORDER-344 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^4 \left(C_4 C_5 L_4 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_4 L_5 R_1 R_4\right) + s^3 \left(C_4 L_4 L_5 R_1 R_4 g_m - C_4 C_5 L_4 L_5 R_1 R_4 g_m - C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_4 L_5 R_1 + C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_4 L_5 R_1 + C_4 C_5 L_4$

10.345 INVALID-ORDER-345 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $R_1R_4R_5g_m - R_1R_4 + s^4(C_4C_5L_4L_5R_1)$

 $H(s) = \frac{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^5\left(C_1C_4C_5L_4L_5R_1R_4 + 2C_1C_4C_5L_4L_5R_1R_4 + 2C_4C_5L_4L_5R_1 + 2C_4C_5L_5L_5$

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H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^2 \left(C_4 L_4 R_1 R_4 R_5 g_m - C_4 L_4 R_1 R_4\right)}{2 R_1 R_4 g_m + 2 R_1 R_5 g_m + 2 R_1 + R_4 + 2 R_5 + s^3 \left(C_1 C_4 L_4 R_1 R_4 + 2 C_1 C_4 L_4 R_1 R_5\right) + s^2 \left(2 C_1 C_4 R_1 R_4 R_5 + 2 C_4 L_4 R_1 R_5 g_m + 2 C_4 L_4 R_1 + C_4 L_4 R_4 + 2 C_4 L_4 R_5\right) + s \left(C_1 R_1 R_4 + 2 C_4 R_4 R_5\right)}
10.347 INVALID-ORDER-347 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                      H(s) = \frac{-C_4C_5L_4R_1R_4s^3 + C_4L_4R_1R_4g_ms^2 - C_5R_1R_4s + R_1R_4g_m}{C_1C_4C_5L_4R_1R_4s^4 + 2R_1g_m + s^3\left(2C_1C_4L_4R_1 + 2C_4C_5L_4R_1R_4g_m + 2C_4C_5L_4R_1 + C_4C_5L_4R_1 + C_4C_5L_4R_4 + C_4C_5R_1R_4 + C_4C_5R_1R_4 + 2C_4C_5R_1R_4 + 2C_4C_5
10.348 INVALID-ORDER-348 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_4R_1R_4R_5s^3 - C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_4L_4R_1R_4R_5g_m - C_4L_4R_1R_4\right)}{C_1C_4C_5L_4R_1R_4R_5s^4 + 2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^3\left(C_1C_4L_4R_1R_4 + 2C_1C_4L_4R_1R_5 + 2C_4C_5L_4R_1R_4R_5g_m + 2C_4C_5L_4R_1R_4R_5 + C_4C_5L_4R_1R_4R_5 + C_4C_5L_4R_1R_4 + C_4C_
10.349 INVALID-ORDER-349 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_{4}L_{4}R_{1}R_{4}g_{m}s^{2}+R_{1}R_{4}g_{m}+s^{3}\left(C_{4}C_{5}L_{4}R_{1}R_{4}R_{5}g_{m}-C_{4}C_{5}L_{4}R_{1}R_{4}\right)+s\left(C_{5}R_{1}R_{4}R_{5}g_{m}-C_{5}R_{1}R_{4}\right)
                                            \frac{C_4L_4R_1R_4g_ms^2 + R_1R_4g_m + s^3\left(C_4C_5L_4R_1R_4R_5g_m - C_4C_5L_4R_1R_4\right) + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2R_1g_m + s^4\left(C_1C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_5g_m + 2C_4C_5L_4R_1R_5g_m + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5R_1R_4 + 
10.350 INVALID-ORDER-350 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_4C_5L_4L_5R_1R_4g_ms^4 - C_4C_5L_4R_1R_4s^3 - C_5R_1R_4s + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_5L_5R_1R_4g_m\right)
H(s) = \frac{C_4C_5L_4L_5R_1R_4g_ms^2 - C_4C_5L_4R_1R_4s^6 - C_5R_1R_4s + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_5L_5R_1R_4g_m\right)}{2C_1C_4C_5L_4L_5R_1s^5 + 2R_1g_m + s^4\left(C_1C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1 + 2C_4C_5L_5R_1 + 
10.351 INVALID-ORDER-351 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_4L_5R_1R_4s^4 + C_4L_4L_5R_1R_4g_ms^3 + L_5R_1R_4g_ms - R_1R_4 + s^2\left(-C_4L_4R_1R_4 - C_5L_5R_1R_4\right)}{C_1C_4C_5L_4L_5R_1R_4s^5 + 2R_1R_4g_m + 2R_1 + R_4 + s^4\left(2C_1C_4L_4R_1R_4 + 2C_4C_5L_4L_5R_1 + C_4C_5L_4L_5R_1R_4 + 2C_4C_5L_4L_5R_1R_4 + 2C_4C_5L_5R_1R_4 + 2C_4C_5L_5R_1R_4
10.352 INVALID-ORDER-352 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_4C_5L_4L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3(C_4C_5L_4R_1R_4R_5g_m)
H(s) = \frac{C_4C_5L_4L_5R_1R_4g_m + s^*(C_4C_5L_4R_1R_4g_m + s^*(C_4C_5L
10.353 INVALID-ORDER-353 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                            \frac{-C_4C_5L_4L_5R_1R_4R_5s - R_1R_4}{C_1C_4C_5L_4L_5R_1R_4R_5s^5 + 2R_1R_4R_5g_m + 2R_1R_5 + R_4R_5 + s^4\left(C_1C_4L_4L_5R_1R_4 + 2C_1C_4L_4L_5R_1R_5 + 2C_4C_5L_4L_5R_1R_5 + 2C_4C_5L_4L_5R_1R_5 + 2C_4C_5L_4L_5R_1R_4R_5 + 2C_4C_5L_4L_5R_1R_4 + 2C_4C_5L_4L_5R_1R_4 + 2C_4C_5L_4L_5R_1R_5 + 2C_4C_5L_4L_5R_1R_5 + 2C_4C_5L_5R_1R_5 
10.354 INVALID-ORDER-354 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{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{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^5\left(C_1C_4C_5L_4L_5R_1R_4 + 2C_1C_4C_5L_4L_5R_1R_4\right) + s^4\left(2C_1C_4C_5L_4L_5R_1 + 2C_4C_5L_4L_5R_1R_4g_m + 2C_4C_5L_4L_5R_1R_5g_m + 2C_4C_5L_4L_5R_1 + C_4C_5L_4L_5R_1 + C_4C_5L_5L_5R_1 + C_4C_5L_5L_5R_1 + C_4C_5L_5L_5R_1
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10.346 INVALID-ORDER-346 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$

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10.355 INVALID-ORDER-355 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
```

 $H(s) = \frac{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^5\left(C_1C_4C_5L_4L_5R_1R_4 + 2C_1C_4C_5L_4L_5R_1R_4R_5 + 2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_4C_5L_4L_5R_1R_5g_m + 2C_4C_5L_4L_5R_1 + C_4C_5L_4L_5R_1 + C_4$

10.356 INVALID-ORDER-356 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5, \infty\right)$

$$H(s) = \frac{R_4 R_5 g_m - R_4 + s \left(C_1 R_1 R_4 R_5 g_m - C_1 R_1 R_4 \right)}{2 R_4 g_m + 2 R_5 g_m + s \left(2 C_1 R_1 R_4 g_m + 2 C_1 R_1 R_5 g_m + 2 C_1 R_1 + C_1 R_4 + 2 C_1 R_5 \right) + 2}$$

10.357 INVALID-ORDER-357 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_5L_5R_1R_4g_ms^3 + R_4g_m + s^2\left(-C_1C_5R_1R_4 + C_5L_5R_4g_m\right) + s\left(C_1R_1R_4g_m - C_5R_4\right)}{2g_m + s^3\left(2C_1C_5L_5R_1g_m + 2C_1C_5L_5\right) + s^2\left(2C_1C_5R_1R_4g_m + 2C_1C_5R_1 + C_1C_5R_4 + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_5R_4g_m + 2C_5\right)}$$

10.358 INVALID-ORDER-358 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_5R_1R_4s^3 - R_4 + s^2\left(C_1L_5R_1R_4g_m - C_5L_5R_4\right) + s\left(-C_1R_1R_4 + L_5R_4g_m\right)}{2R_4g_m + s^3\left(2C_1C_5L_5R_1R_4g_m + 2C_1C_5L_5R_1 + C_1C_5L_5R_4\right) + s^2\left(2C_1L_5R_1g_m + 2C_1L_5 + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(2C_1R_1R_4g_m + 2C_1R_1 + C_1R_4 + 2L_5g_m\right) + 2C_1R_1R_4g_m + 2C$$

10.359 INVALID-ORDER-359 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_5L_5R_1R_4g_ms^3 + R_4g_m + s^2\left(C_1C_5R_1R_4R_5g_m - C_1C_5R_1R_4 + C_5L_5R_4g_m\right) + s\left(C_1R_1R_4g_m + C_5R_4R_5g_m - C_5R_4\right)}{2g_m + s^3\left(2C_1C_5L_5R_1g_m + 2C_1C_5L_5\right) + s^2\left(2C_1C_5R_1R_4g_m + 2C_1C_5R_1R_5g_m + 2C_1C_5R_1 + C_1C_5R_4 + 2C_1C_5R_5 + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_5R_4g_m + 2C_5R_5g_m + 2C_5\right)}$$

10.360 INVALID-ORDER-360 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_5R_1R_4R_5s^3 - R_4R_5 + s^2\left(C_1L_5R_1R_4R_5g_m - C_1L_5R_1R_4 - C_5L_5R_4R_5\right) + s\left(-C_1R_1R_4R_5 + L_5R_4R_5g_m - L_5R_4\right)}{2R_4R_5g_m + 2R_5 + s^3\left(2C_1C_5L_5R_1R_4R_5g_m + 2C_1C_5L_5R_1R_4Sg_m + 2C_1L_5R_1R_4g_m + 2C_1L_5R_1R_4g_m + 2C_1L_5R_1 + C_1L_5R_4 + 2C_1L_5R_5 + 2C_5L_5R_4R_5g_m + 2C_5L_5R_5\right) + s\left(2C_1R_1R_4R_5g_m + 2C_1R_1R_5 + C_1R_4R_5 + 2L_5R_4g_m + 2L_5R_5g_m + 2C_5L_5R_4R_5g_m + 2C_5L_5R_5g_m + 2C_5L_5R_4R_5g_m + 2C_5L_5R_5R_5g_m + 2C_5L_5R_5g_m + 2C_5L_5$$

10.361 INVALID-ORDER-361 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

10.362 INVALID-ORDER-362 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_4 R_5 g_m - R_4 + s^3 \left(C_1 C_5 L_5 R_1 R_4 R_5 g_m - C_1 C_5 L_5 R_1 R_4 R_5 - C_5 L_5 R_4 R_5 g_m - C_5 L_5 R_4 \right) + s \left(C_1 R_1 R_4 R_5 g_m - C_1 R_1 R_4 - C_5 R_4 R_5 \right)}{2 R_4 g_m + 2 R_5 g_m + s^3 \left(2 C_1 C_5 L_5 R_1 R_4 g_m + 2 C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_4 + 2 C_1 C_5 L_5 R_1 + C_1 C_5 L_5 R_1 R_5 g_m + 2 C_1 C_5 R_1 R_5 + C_1 C_5 R_4 R_5 g_m + 2 C_1 C_5 R_1 R_5 g_m + 2 C_1 R_5 R_5 g_m + 2 C_1 R_5$$

10.363 INVALID-ORDER-363 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_1C_5R_1s^2 + g_m + s\left(C_1R_1g_m - C_5\right)}{2C_1C_4C_5R_1s^3 + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.364 INVALID-ORDER-364
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5R_1R_5s^2 + R_5g_m + s\left(C_1R_1R_5g_m - C_1R_1 - C_5R_5\right) - 1}{2C_1C_4C_5R_1R_5s^3 + 2g_m + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_1 + 2C_1C_4R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5 + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_5g_m + 2C_4 + 2C_5R_5g_m\right)}$$

10.365 INVALID-ORDER-365
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^2 \left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 \right) + s \left(C_1 R_1 g_m + C_5 R_5 g_m - C_5 \right)}{s^3 \left(2 C_1 C_4 C_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 R_1 + 2 C_1 C_4 C_5 R_5 \right) + s^2 \left(2 C_1 C_4 R_1 g_m + 2 C_1 C_4 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_4 C_5 R_5 g_m + 2 C_4 C_5 \right) + s \left(2 C_4 g_m + 2 C_5 g_m \right)}$$

10.366 INVALID-ORDER-366
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_5R_1g_ms^3 + g_m + s^2\left(-C_1C_5R_1 + C_5L_5g_m\right) + s\left(C_1R_1g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_5R_1g_m + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4C_5R_1 + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.367 INVALID-ORDER-367
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_5R_1s^3 + s^2\left(C_1L_5R_1g_m - C_5L_5\right) + s\left(-C_1R_1 + L_5g_m\right) - 1}{2C_1C_4C_5L_5R_1s^4 + 2g_m + s^3\left(2C_1C_4L_5R_1g_m + 2C_1C_4L_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1 + 2C_4\right)}$$

10.368 INVALID-ORDER-368
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_5R_1g_ms^3 + g_m + s^2\left(C_1C_5R_1R_5g_m - C_1C_5R_1 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_5R_5g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_5R_1g_m + 2C_1C_4C_5R_1R_5g_m + 2C_1C_4C_5R_1 + 2C_1C_4C_5R_5 + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5R_5g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.369 INVALID-ORDER-369
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_5R_1R_5s^3 - R_5 + s^2\left(C_1L_5R_1R_5g_m - C_1L_5R_1 - C_5L_5R_5\right) + s\left(-C_1R_1R_5 + L_5R_5g_m - L_5\right)}{2C_1C_4C_5L_5R_1R_5s^4 + 2R_5g_m + s^3\left(2C_1C_4L_5R_1R_5g_m + 2C_1C_4L_5R_1 + 2C_1C_4L_5R_5 + 2C_4C_5L_5R_5\right) + s^2\left(2C_1C_4R_1R_5 + 2C_4L_5R_5g_m + 2C_4L_5 + 2C_4L_5R_5g_m + 2C_4L_5 + 2C_4L_5R_5g_m + 2C_4L_5 + 2C_4L_5R_5g_m +$$

10.370 INVALID-ORDER-370
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

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

$$H(s) = \frac{R_5g_m + s^3\left(C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1\right) + s^2\left(C_1L_5R_1g_m + C_5L_5R_5g_m - C_1R_1 + L_5g_m\right) - 1}{2g_m + s^4\left(2C_1C_4C_5L_5R_1R_5g_m + 2C_1C_4C_5L_5R_1\right) + s^3\left(2C_1C_4L_5R_1g_m + 2C_1C_4L_5 + 2C_4C_5L_5R_1g_m + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_1 + 2C_1C_4R_5 + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1C_4R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5R_5g_m + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5R_5g_m$$

10.371 INVALID-ORDER-371
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_5g_m + s^3\left(C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1\right) + s^2\left(-C_1C_5R_1R_5 + C_5L_5R_5g_m - C_5L_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 - C_5R_5\right) - 1}{2g_m + s^4\left(2C_1C_4C_5L_5R_1R_5g_m + 2C_1C_4C_5L_5R_1\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_1 + 2C_1C_4R_5 + 2C_1C_5R_5R_5\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_1 + 2C_1C_4R_5 + 2C_1C_5R_5R_5\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_5 + 2C_1C_5R_5R_5\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_5 + 2C_1C_5R_5R_5\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_5 + 2C_1C_5R_5R_5\right) + s^2\left(2C_1C_4R_5R_5g_m + 2C_1C_4R_5R_5g_m + 2C_1C_4R_5R_5\right) + s^2\left(2C_1C_4R_5R_5g_m + 2C_1C_4R_5R_5g_m + 2C_1C_4R_5R_5\right) + s^2\left(2C_1C_4R_5R_5g_m + 2C_1C_4R_5R_5g_m + 2C_1C_5R_5g_m + 2C_1C_$$

10.372 INVALID-ORDER-372
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5R_1R_4s^2 + R_4g_m + s\left(C_1R_1R_4g_m - C_5R_4\right)}{2C_1C_4C_5R_1R_4s^3 + 2g_m + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + 2C_1C_5R_1R_4g_m + 2C_1C_5R_4 + 2C_4C_5R_4\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_4R_4g_m + 2C_5R_4g_m + 2C_5R_5g_m + 2C_5R_5g_m$$

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10.373 INVALID-ORDER-373 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)
-C_1C_5R_1R_4R_5s^2 + R_4R_5g_m - R_4 + s\left(C_1R_1R_4R_5g_m - C_1R_1R_4 - C_5R_4R_5\right)
-C_1C_5R_1R_4R_5s^2 + R_4R_5g_m - R_4 + s\left(C_1R_1R_4R_5g_m - C_1R_1R_4 - C_5R_4R_5\right)
-C_1C_5R_1R_4R_5s^2 + R_4R_5g_m - R_4 + s\left(C_1R_1R_4R_5g_m - C_1R_1R_4 - C_5R_4R_5\right)
+C_1C_5R_1R_4R_5g_m - C_1C_5R_1R_4\right)
+C_1C_5R_1R_4R_5g_m - C_1C_5R_1R_4\right)
+C_1C_5R_1R_4R_5g_m - C_1C_5R_1R_4\right)
+C_1C_5R_1R_4R_5g_m - C_1C_5R_1R_4\right)
+C_1C_5R_1R_4g_m + 2C_1C_5R_1R_4 + C_5R_4g_m + 2C_1C_5R_4R_5g_m + 2C_4C_5R_4R_5g_m + 2C_4C_5R_4g_m + 2C_5R_4g_m + 2C_5R_4g_m
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10.376 INVALID-ORDER-376 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_5L_5R_1R_4s^3 - R_4 + s^2\left(C_1L_5R_1R_4g_m - C_5L_5R_4\right) + s\left(-C_1R_1R_4 + L_5R_4g_m\right)}{2C_1C_4C_5L_5R_1R_4s^4 + 2R_4g_m + s^3\left(2C_1C_4L_5R_1R_4g_m + 2C_1C_5L_5R_1R_4g_m + 2C_1C_5L_5R_1 + C_1C_5L_5R_4 + 2C_4C_5L_5R_4\right) + s^2\left(2C_1C_4R_1R_4 + 2C_1L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(2C_1R_1R_4g_m + 2C_1R_4R_4g_m + 2C_4R_4R_4g_m + 2C_4R_4R_4g_m\right)}$

10.377 INVALID-ORDER-377 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_5L_5R_1R_4g_ms^3 + R_4g_m + s^2\left(C_1C_5R_1R_4R_5g_m - C_1C_5R_1R_4 + C_5L_5R_4g_m\right) + s\left(C_1R_1R_4g_m + C_5R_4R_5g_m - C_5R_4\right)}{2g_m + s^4\left(2C_1C_4C_5L_5R_1R_4g_m + 2C_1C_4C_5L_5R_1R_4g_m + 2C_1C_5L_5R_1g_m + 2C_1C_5L_5R_4g_m\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_5R_1R_4g_m + 2C_1C_5R$

10.378 INVALID-ORDER-378 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_5L_5R_1R_4R_5s^3 - R_4R_5 + s^2\left(C_1L_5R_1R_4R_5g_m - C_1L_5R_1R_4 - C_5L_5R_4R_5\right) + s\left(-C_1R_1R_4R_5 + L_5R_4R_5g_m - C_1L_5R_1R_4R_5g_m - C_1L_5R_1R_4R_5g_m + 2C_1C_5L_5R_1R_4R_5g_m + 2C_1C_5L_5R_1R_4R_5g_m + 2C_1C_5L_5R_1R_4R_5g_m + 2C_1C_5L_5R_1R_4R_5g_m + 2C_1C_5L_5R_1R_4R_5g_m + 2C_1L_5R_1R_4g_m + 2C_1L_5R_1R_4$

10.379 INVALID-ORDER-379 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

10.380 INVALID-ORDER-380 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.381 INVALID-ORDER-381 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5R_1R_4s^3 + g_m + s^2\left(C_1C_4R_1R_4g_m - C_1C_5R_1 - C_4C_5R_4\right) + s\left(C_1R_1g_m + C_4R_4g_m - C_5\right)}{s^3\left(2C_1C_4C_5R_1R_4g_m + 2C_1C_4C_5R_1 + C_1C_4C_5R_4\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$

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10.382 INVALID-ORDER-382 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
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$$H(s) = \frac{-C_1C_4C_5R_1R_4R_5s^3 + R_5g_m + s^2\left(C_1C_4R_1R_4R_5g_m - C_1C_4R_1R_4 - C_1C_5R_1R_5 - C_4C_5R_4R_5\right) + s\left(C_1R_1R_5g_m - C_1R_1 + C_4R_4R_5g_m - C_4R_4 - C_5R_5\right) - 1}{2g_m + s^3\left(2C_1C_4C_5R_1R_4R_5g_m + 2C_1C_4C_5R_1R_5 + C_1C_4C_5R_4R_5\right) + s\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_1 + C_1C_4R_4 + 2C_1C_4R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + 2C_4R_5g_m + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(2C_1R_1g_m + 2C_4R_5g_m + 2C_4R_5g_m$$

10.383 INVALID-ORDER-383
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^3 \left(C_1 C_4 C_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 R_1 R_4 \right) + s^2 \left(C_1 C_4 R_1 R_4 g_m + C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_4 C_5 R_4 R_5 g_m - C_4 C_5 R_4 \right) + s \left(C_1 R_1 g_m + C_4 R_4 g_m + C_5 R_5 g_m - C_5 \right)}{s^3 \left(2 C_1 C_4 C_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 R_1 + C_1 C_4 C_5 R_4 + 2 C_1 C_4 C_5 R_5 \right) + s^2 \left(2 C_1 C_4 R_1 g_m + 2 C_1 C_4 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_4 C_5 R_4 g_m + 2 C_4 C_5 R_5 g_m + 2 C_4 C_5 \right) + s \left(2 C_4 g_m + 2 C_5 g_m \right)}$$

10.384 INVALID-ORDER-384
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_4C_5L_5R_1R_4g_ms^4 + g_m + s^3\left(-C_1C_4C_5R_1R_4 + C_1C_5L_5R_1g_m + C_4C_5L_5R_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m - C_1C_5R_1 - C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_5R_1g_m + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4C_5R_1R_4g_m + 2C_1C_4C_5R_1 + C_1C_4C_5R_4 + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.385 INVALID-ORDER-385
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_4C_5L_5R_1R_4s^4 + s^3\left(C_1C_4L_5R_1R_4g_m - C_1C_5L_5R_1 - C_4C_5L_5R_4\right) + s^2\left(-C_1C_4R_1R_4 + C_1L_5R_1g_m + C_4L_5R_4g_m - C_5L_5\right) + s\left(-C_1R_1 - C_4R_4 + L_5g_m\right) - 1}{2g_m + s^4\left(2C_1C_4C_5L_5R_1R_4g_m + 2C_1C_4C_5L_5R_1\right) + s^3\left(2C_1C_4L_5R_1g_m + 2C_1C_4L_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_1 + C_1C_4R_4 + 2C_4L_5g_m\right) + s\left(2C_1R_1g_m + C_1C_4R_4 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + 2C_4C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1C_4R_4g_m\right) + s\left(2C_1R_1g_m + 2C_1C_4R_4R_4 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + 2C_4L_5g_m\right) + s\left(2C_1R_1g_m + 2C_1C_4R_4 + 2C_4C_5L_5\right) + s\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + 2C_4C_5L_5\right) + s\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + 2C_4C_5L_5g_m\right) + s\left(2C_1R_1g_m + 2C_1C_4R_4 + 2C_4C_5L_5\right) + s\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + 2C_4L_5g_m\right) + s\left(2C_1R_1g_m + 2C_1C_4R_4 + 2C_4R_4g_m\right) + s\left($$

10.386 INVALID-ORDER-386
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_4C_5L_5R_1R_4g_ms^4 + g_m + s^3\left(C_1C_4C_5R_1R_4R_5g_m - C_1C_4C_5R_1R_4 + C_1C_5L_5R_1g_m + C_4C_5L_5R_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_5R_1R_5g_m - C_1C_5R_1 + C_4C_5R_4R_5g_m - C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_5R_5g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_5R_1g_m + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4C_5R_1R_4g_m + 2C_1C_4C_5R_1R_5g_m + 2C_1C_4C_5R_4 + 2C_1C_4C_5R_4 + 2C_1C_4C_5R_1g_m + 2C_1C_4C_5R_1g$$

10.387 INVALID-ORDER-387
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_4C_5L_5R_1R_4R_5s^4 - R_5 + s^3\left(C_1C_4L_5R_1R_4R_5g_m - C_1C_4L_5R_1R_4 - C_1C_5L_5R_1R_5 - C_4C_5L_5R_4R_5\right) + s^2\left(-C_1C_4R_1R_4R_5 + C_1L_5R_1R_5g_m - C_1L_5R_1 + C_4L_5R_4R_5\right) + s^2\left(-C_1C_4R_1R_4R_5 + C_1L_5R_1R_5g_m - C_1L_5R_1 + C_4L_5R_4R_5\right) + s^2\left(-C_1C_4R_1R_4R_5g_m + 2C_1C_4L_5R_1R_5g_m + 2C_1C_4L_$$

10.388 INVALID-ORDER-388
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_5 R_1 R_4 g_m + C_1 C_5 L_5 R_1 R_4 g_m + C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_4 R_5 g_m - C_4 C_5 L_5 R_4 + C_1 L_5 R_1 g_m + C_4 L_5 R_4 g_m + C_5 L_5 R_5 g_m$$

10.389 INVALID-ORDER-389
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_5g_m + s^4 \left(C_1C_4C_5L_5R_1R_4R_5g_m - C_1C_4C_5L_5R_1R_4g_m - C_1C_4C_5L_5R_1R_4g_m - C_1C_5L_5R_1R_4g_m - C_1C_5L_5R_1R_4g_m - C_1C_5L_5R_1R_4g_m - C_1C_5L_5R_1R_4g_m - C_1C_5L_5R_1R_4g_m - C_1C_4C_5L_5R_1R_4g_m - C_1C_4C_5L_5R_1g_m - C_1C_4C_5L_5$$

10.390 INVALID-ORDER-390
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_4 L_4 R_1 R_5 g_m - C_1 C_4 L_4 R_1\right) + s^2 \left(C_4 L_4 R_5 g_m - C_4 L_4\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1\right) - 1}{2 g_m + s^3 \left(2 C_1 C_4 L_4 R_1 g_m + C_1 C_4 L_4\right) + s^2 \left(2 C_1 C_4 R_1 R_5 g_m + 2 C_1 C_4 R_1 + 2 C_1 C_4 R_5 + 2 C_4 L_4 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_4 R_5 g_m + 2 C_4\right)}$$

10.391 INVALID-ORDER-391 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_1C_4C_5L_4R_1s^4 + g_m + s^3\left(C_1C_4L_4R_1g_m - C_4C_5L_4\right) + s^2\left(-C_1C_5R_1 + C_4L_4g_m\right) + s\left(C_1R_1g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4\right) + s^3\left(2C_1C_4C_5R_1 + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.392 INVALID-ORDER-392 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_4C_5L_4R_1R_5s^4 + R_5g_m + s^3\left(C_1C_4L_4R_1R_5g_m - C_1C_4L_4R_1 - C_4C_5L_4R_5\right) + s^2\left(-C_1C_5R_1R_5 + C_4L_4R_5g_m - C_4L_4\right) + s\left(C_1R_1R_5g_m - C_1R_1 - C_5R_5\right) - 1}{2g_m + s^4\left(2C_1C_4C_5L_4R_1R_5g_m + C_1C_4C_5L_4R_5\right) + s^3\left(2C_1C_4C_5R_1R_5 + 2C_1C_4L_4R_1g_m + C_1C_4L_4 + 2C_4C_5L_4R_5g_m\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_1 + 2C_4C_5R_1R_5g_m + C_1C_5R_1R_5g_m + C_1C_5R_5 + 2C_4C_5R_5 + 2C_4C_5R_5 + 2C_4C_5R_5 + 2C_4C_5R_5g_m\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_5 + 2C$$

10.393 INVALID-ORDER-393 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{g_m + s^4 \left(C_1 C_4 C_5 L_4 R_1 R_5 g_m - C_1 C_4 C_5 L_4 R_1 \right) + s^3 \left(C_1 C_4 L_4 R_1 g_m + C_4 C_5 L_4 R_5 g_m - C_4 C_5 L_4 \right) + s^2 \left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_4 L_4 g_m \right) + s \left(C_1 R_1 g_m + C_5 R_5 g_m - C_5 \right)}{s^4 \left(2 C_1 C_4 C_5 L_4 R_1 g_m + C_1 C_4 C_5 L_4 \right) + s^3 \left(2 C_1 C_4 C_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 R_1 + 2 C_1 C_4 C_5 R_1 + 2 C_1 C_4 C_5 R_1 g_m + 2 C_1 C_4 + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_4 C_5 R_5 g_m + 2 C_4 C_5 \right) + s \left(2 C_4 g_m + 2 C_5 g_m \right)}$$

10.394 INVALID-ORDER-394 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_4C_5L_4L_5R_1g_ms^5 + g_m + s^4\left(-C_1C_4C_5L_4R_1 + C_4C_5L_4L_5g_m\right) + s^3\left(C_1C_4L_4R_1g_m + C_1C_5L_5R_1g_m - C_4C_5L_4\right) + s^2\left(-C_1C_5R_1 + C_4L_4g_m + C_5L_5g_m\right) + s\left(C_1R_1g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4 + 2C_1C_4C_5L_5R_1g_m + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4C_5R_1 + 2C_4C_5L_4g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.395 INVALID-ORDER-395 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_4C_5L_4L_5R_1s^5 + s^4\left(C_1C_4L_4L_5R_1g_m - C_4C_5L_4L_5\right) + s^3\left(-C_1C_4L_4R_1 - C_1C_5L_5R_1 + C_4L_4L_5g_m\right) + s^2\left(C_1L_5R_1g_m - C_4L_4 - C_5L_5\right) + s\left(-C_1R_1 + L_5g_m\right) - 1}{2g_m + s^5\left(2C_1C_4C_5L_4L_5R_1g_m + C_1C_4L_5L_5R_1 + 2C_4C_5L_4L_5\right) + s^4\left(2C_1C_4C_5L_4L_5g_m\right) + s^3\left(2C_1C_4L_4R_1g_m + C_1C_4L_5R_1g_m + 2C_1C_4L_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + 2C_4L_4g_m + 2C_4L_5g_m\right) + s^2\left(2C_1C_4R_1 + 2C_4L_4g_m + 2C_4L_5g_m\right) + s^2\left(2C_1C_4R_1 + 2C_4L_5g_m\right) +$$

10.396 INVALID-ORDER-396 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_4C_5L_4L_5R_1g_ms^5 + g_m + s^4\left(C_1C_4C_5L_4R_1R_5g_m - C_1C_4C_5L_4R_1 + C_4C_5L_4L_5g_m\right) + s^3\left(C_1C_4L_4R_1g_m + C_1C_5L_5R_1g_m + C_4C_5L_4\right) + s^2\left(C_1C_5R_1R_5g_m - C_1C_5R_1 + C_4L_4g_m + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_5R_5g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4 + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4C_5R_1R_5g_m + 2C_1C_4C_5R_1 + 2C_1C_4C_5R_5 + 2C_4C_5L_4g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5R_5g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_4C_5R_5g_m + 2C_4C_5L_4g_m +$$

10.397 INVALID-ORDER-397 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_1C_4C_5L_4L_5R_1R_5s^5 - R_5 + s^4\left(C_1C_4L_4L_5R_1R_5g_m - C_1C_4L_4L_5R_1 - C_4C_5L_4L_5R_5\right) + s^3\left(-C_1C_4L_4R_1R_5 - C_1C_5L_5R_1R_5 + C_4L_4L_5R_5g_m - C_4L_4L_5\right) + s^2\left(C_1L_5R_5g_m + s^5\left(2C_1C_4C_5L_4L_5R_1R_5g_m + C_1C_4L_5R_1R_5g_m + C$$

10.398 INVALID-ORDER-398 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m - C_1 C_4 C_5 L_4 L_5 R_1 g_m + C_4 C_5 L_4 L_5 R_1 g_m + C_4 C_5 L_4 L_5 R_1 g_m + C_4 C_5 L_4 L_5 R_1 g_m - C_1 C_4 L_4 R_1 R_5 g_m - C_1 C_4 L_4 R_1 + C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 + C_4 L_4 L_5 g_m\right) + s^2 \left(C_1 L_5 R_1 g_m + C_4 L_4 L_5 R_1 g_m + C_4 L_4$$

10.399 INVALID-ORDER-399 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{R_5g_m + s^5 \left(C_1C_4C_5L_4L_5R_1R_5g_m - C_1C_4C_5L_4L_5R_1\right) + s^4 \left(-C_1C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5\right) + s^3 \left(C_1C_4L_4R_1R_5g_m - C_1C_4L_4R_1 + C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1R_5g_m - C_1C_4L_4R_1R_5g_m - C_1C_4L_4R_1R_5g_m - C_1C_4L_4R_1R_5g_m - C_1C_4L_4R_1R_5g_m - C_1C_4L_4R_1R_5g_m - C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1R_5g_m - C_1C_4C_5L_4R_1R_5g_m - C_1C_4C_5L_$$

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10.401 INVALID-ORDER-401 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                            H(s) = \frac{-C_1C_5L_4R_1s^3 + L_4g_ms + s^2\left(C_1L_4R_1g_m - C_5L_4\right)}{2C_1C_4C_5L_4R_1s^4 + 2g_m + s^3\left(2C_1C_4L_4R_1g_m + 2C_1C_4L_4 + 2C_1C_5L_4R_1g_m + C_1C_5L_4 + 2C_4C_5L_4\right) + s^2\left(2C_1C_5R_1 + 2C_4L_4g_m + 2C_5L_4g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_5\right)}
10.402 INVALID-ORDER-402 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_1C_5L_4R_1R_5s^3 + s^2\left(C_1L_4R_1R_5g_m - C_1L_4R_1 - C_5L_4R_5\right) + s\left(L_4R_5g_m - L_4\right)}{2C_1C_4C_5L_4R_1R_5s^4 + 2R_5g_m + s^3\left(2C_1C_4L_4R_1R_5g_m + 2C_1C_4L_4R_1 + 2C_1C_4L_4R_5 + 2C_1C_5L_4R_5\right) + s^2\left(2C_1C_5R_1R_5 + 2C_1L_4R_1g_m + C_1L_4 + 2C_4L_4R_5g_m + 2C_4L_4 + 2C_5L_4R_5g_m\right) + s\left(2C_1R_1R_5g_m + 2C_1R_1 + 2C_1R_5 + 2C_5R_5\right)}
10.403 INVALID-ORDER-403 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_4 g_m s + s^3 \left(C_1 C_5 L_4 R_1 R_5 g_m - C_1 C_5 L_4 R_1\right) + s^2 \left(C_1 L_4 R_1 g_m + C_5 L_4 R_5 g_m - C_5 L_4\right)}{2 g_m + s^4 \left(2 C_1 C_4 C_5 L_4 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 R_1\right) + s^3 \left(2 C_1 C_4 L_4 R_1 g_m + 2 C_1 C_5 L_4 R_1 g_m + 2 C_1 C_5 L_4 R_5 g_m + 2 C_4 C_5 L_4\right) + s^2 \left(2 C_1 C_5 R_1 R_5 g_m + 2 C_1 C_5 R_1 + 2 C_1 C_5 R_5 + 2 C_4 L_4 g_m + 2 C_5 L_4 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_1 R_5 g_m + 2 C_4 C_5 L_4 R_5 g_m + 2 C_4 C_5 L_4\right) + s^2 \left(2 C_1 C_5 R_1 R_5 g_m + 2 C_4 C_5 L_4 R_5 g_m + 2 C_4 C_5 L_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_4 R_5 g_m + 2 C_4 R_
10.404 INVALID-ORDER-404 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_1C_5L_4L_5R_1g_ms^4 + L_4g_ms + s^3\left(-C_1C_5L_4R_1 + C_5L_4L_5g_m\right) + s^2\left(C_1L_4R_1g_m - C_5L_4\right)}{2g_m + s^5\left(2C_1C_4C_5L_4L_5R_1g_m + 2C_1C_4C_5L_4L_5\right) + s^4\left(2C_1C_4C_5L_4R_1 + 2C_4C_5L_4L_5g_m\right) + s^3\left(2C_1C_4L_4R_1g_m + 2C_1C_5L_4R_1g_m + 2C_1C_5L_5R_1g_m + 2C_1C_5L_5\right) + s^4\left(2C_1C_5L_4R_1g_m + 2C_4C_5L_4L_5g_m\right) + s^2\left(2C_1C_5L_4R_1g_m + 2C_4C_5L_4\right) + s^2\left(2C_1C_5R_1 + 2C_4L_4g_m + 2C_5L_4g_m\right) + s^2\left(2C_1C_5R_1 + 2C_4L_4g_m + 2C_5L_4g_m\right) + s^2\left(2C_1C_5R_1 + 2C_4C_5L_4\right) + s^2\left(2C_1C_5R_1 + 2C_4C_5R
10.405 INVALID-ORDER-405 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_1C_5L_4L_5R_1s^4 - L_4s + s^3\left(C_1L_4L_5R_1g_m - C_5L_4L_5\right) + s^2\left(-C_1L_4R_1 + L_4L_5g_m\right)}{2C_1C_4C_5L_4L_5R_1s^5 + s^4\left(2C_1C_4L_4L_5R_1g_m + 2C_1C_4L_4L_5 + 2C_1C_5L_4L_5R_1g_m + C_1C_5L_4L_5\right) + s^3\left(2C_1C_4L_4R_1 + 2C_1C_5L_4L_5g_m\right) + s^2\left(2C_1L_4R_1g_m + C_1L_4 + 2C_1L_5R_1g_m + 2C_1L_5 + 2C_4L_4 + 2C_5L_5\right) + s\left(2C_1R_1 + 2L_4g_m\right)}
10.406 INVALID-ORDER-406 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_{1}C_{5}L_{4}L_{5}R_{1}g_{m}s^{4} + L_{4}g_{m}s + s^{3}\left(C_{1}C_{5}L_{4}R_{1}R_{5}g_{m} - C_{1}C_{5}L_{4}R_{1} + C_{5}L_{4}L_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{1}g_{m} + C_{5}L_{4}R_{5}g_{m} - C_{5}L_{4}\right)
H(s) = \frac{C_1C_5L_4L_5R_1g_ms^4 + L_4g_ms + s^3\left(C_1C_5L_4R_1R_5g_m - C_1C_5L_4R_1 + C_5L_4L_5g_m\right) + s^2\left(C_1L_4R_1g_m + C_5L_4R_5g_m - C_5L_4\right)}{2g_m + s^5\left(2C_1C_4C_5L_4L_5R_1g_m + 2C_1C_4C_5L_4R_1 + 2C_1C_4C_5L_4R_5g_m + 2C_1C_4L_4R_1g_m + 2C_1C_4L_4R_1g_m + 2C_1C_5L_4R_1g_m + 2C_1C_5L_4R_1g_
10.407 INVALID-ORDER-407 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -C_{1}C_{5}L_{4}L_{5}R_{1}R_{5}s^{4}-L_{4}R_{5}s+s^{3}\left(C_{1}L_{4}L_{5}R_{1}R_{5}g_{m}-C_{1}L_{4}L_{5}R_{1}-C_{5}L_{4}L_{5}R_{5}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{5}+L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}R_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}L_{5}+C_{1}L_{4}+C_{1}L_{5}+C_{1}L_{4}+C_{1}L_{5}+C_{1}L_{4}+C_{1}L_{5}+C_{1}L_{4}+C_{1}L_{5}+C_{1}L_{4}+C_{1}L_{5}+C_{1}L_{4}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}L_{5}+C_{1}
H(s) = \frac{-C_1C_5L_4L_5R_1R_5s^5 + 2R_5 + s^4 \left(2C_1C_4L_4L_5R_1R_5g_m + 2C_1C_4L_4L_5R_1 + 2C_1C_4L_4L_5R_5 + 2C_1C_5L_4L_5R_5\right) + s^3 \left(2C_1C_4L_4R_1R_5 + 2C_1C_5L_4L_5R_1g_m + C_1L_4L_5R_1g_m + C_1L_4L_5R_1g_m + C_1L_4L_5R_5g_m + 2C_4L_4L_5R_5g_m + 2C_4L_4
10.408 INVALID-ORDER-408 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                s^{4} \left(C_{1} C_{5} L_{4} L_{5} R_{1} R_{5} g_{m}-C_{1} C_{5} L_{4} L_{5} R_{1}\right)+s^{3} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{1} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{4} L_{5} R_{5} g_{m}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5}\right)+s^{2} \left(C_{1} L_{5} 
H(s) = \frac{s \cdot (c_1 c_5 L_4 L_5 R_1 R_5 g_m + c_1 c_5 L_4 L_5 R_1 R_5 g_m + c_1 c_5 L_4 L_5 R_1 R_5 g_m + c_5 L_4 L_5 R_1 g_m + c_5 
10.409 INVALID-ORDER-409 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              s^{4} \left(C_{1} C_{5} L_{4} L_{5} R_{1} R_{5} g_{m}-C_{1} C_{5} L_{4} L_{5} R_{1}\right)+s^{3} \left(-C_{1} C_{5} L_{4} R_{1} R_{5}+C_{5} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{4} L_{5} R_{5} g_{m}\right)
                                            \frac{2R_5g_m + s^5 \left(2C_1C_4C_5L_4L_5R_1R_5g_m + 2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_5\right) + s^4 \left(2C_1C_4C_5L_4L_5R_1g_m + C_1C_5L_4L_5R_1g_m + 2C_4C_5L_4L_5\right) + s^3 \left(2C_1C_4L_4R_1R_5g_m + 2C_4C_5L_4L_5R_1g_m + 2C_4C_5L_4L_5\right) + s^4 \left(2C_1C_4C_5L_4L_5R_1g_m + 2C_4C_5L_4L_5\right) + s^4 \left(2C_1C_4C_5L_4R_1g_m + 2C_4C_5L_4R_1g_m + 2C_4
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10.400 INVALID-ORDER-400 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$

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10.410 INVALID-ORDER-410 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)
H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_4 L_4 R_1 R_5 g_m - C_1 C_4 L_4 R_1\right) + s^2 \left(C_1 C_4 R_1 R_4 R_5 g_m - C_1 C_4 R_1 R_4 + C_4 L_4 R_5 g_m - C_4 L_4\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_4 R_4 R_5 g_m - C_4 R_4\right) - 1}{2 g_m + s^3 \left(2 C_1 C_4 L_4 R_1 g_m + C_1 C_4 L_4\right) + s^2 \left(2 C_1 C_4 R_1 R_4 g_m + 2 C_1 C_4 R_1 R_5 g_m + 2 C_1 C_4 R_1 + C_1 C_4 R_4 + 2 C_1 C_4 R_5 + 2 C_4 L_4 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_4 R_4 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right)}
10.411 INVALID-ORDER-411 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
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10.412 INVALID-ORDER-412 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_4R_1R_5s^4 + R_5g_m + s^3\left(-C_1C_4C_5R_1R_4R_5 + C_1C_4L_4R_1R_5g_m - C_1C_4L_4R_1 + C_4C_5L_4R_5\right) + s^2\left(C_1C_4R_1R_4R_5g_m - C_1C_4R_1R_4 - C_1C_5R_1R_5 - C_4C_5R_4R_5 + C_4L_4R_5g_m - C_4L_4\right) + s\left(C_1R_1R_4R_5g_m + C_1C_4C_5L_4R_1R_5g_m + C_1C_4C_5L_4R_5\right) + s^2\left(2C_1C_4C_5L_4R_1R_5g_m + C_1C_4C_5R_1R_4R_5g_m + C_1C_4C_5R_1R_5g_m + C_1C_4C_5R$

 $H(s) = \frac{-C_1C_4C_5L_4R_1s^4 + g_m + s^3\left(-C_1C_4C_5R_1R_4 + C_1C_4L_4R_1g_m - C_4C_5L_4\right) + s^2\left(C_1C_4R_1R_4g_m - C_1C_5R_1 - C_4C_5R_4 + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4\right) + s^3\left(2C_1C_4C_5R_1R_4g_m + 2C_1C_4C_5R_1 + C_1C_4C_5R_4 + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$

10.413 INVALID-ORDER-413 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{g_m + s^4 \left(C_1 C_4 C_5 L_4 R_1 R_5 g_m - C_1 C_4 C_5 L_4 R_1 \right) + s^3 \left(C_1 C_4 C_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 R_1 R_4 + C_1 C_4 L_4 R_1 g_m + C_4 C_5 L_4 R_5 g_m - C_4 C_5 L_4 \right) + s^2 \left(C_1 C_4 R_1 R_4 g_m + C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 R_4 G_m + C_4 C_5 R_4 R_5 g_m - C_4 C_5 R_5$

10.414 INVALID-ORDER-414 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_4C_5L_4L_5R_1g_ms^5 + g_m + s^4\left(-C_1C_4C_5L_4R_1 + C_1C_4C_5L_4R_1 + C_1C_4C_5L_4R_1 + C_1C_4C_5L_4R_1 + C_1C_4C_5L_4R_1 + C_1C_4C_5R_1R_4 + C_1C_4L_4R_1g_m + C_1C_5L_5R_1g_m - C_4C_5L_4 + C_4C_5L_4R_1g_m + C_1C_5R_1 - C_4C_5R_4 + C_4L_4g_m + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_4C_5L_4R_1g_m + C_4C_5R_1g_m + C_4C_5R_1$

10.415 INVALID-ORDER-415 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_4L_5R_1s^5 + s^4\left(-C_1C_4C_5L_5R_1R_4 + C_1C_4L_5R_1g_m - C_4C_5L_4L_5\right) + s^3\left(-C_1C_4L_4R_1 + C_1C_4L_5R_1R_4g_m - C_1C_5L_5R_1 - C_4C_5L_5R_4 + C_4L_4L_5g_m\right) + s^2\left(-C_1C_4R_1R_4 + C_1L_5R_1g_m - C_4L_4 + C_4L_5R_1g_m - C_4C_5L_5R_1R_4g_m + C_4C_5L_5R_1R_4g_m + C_4C_5L_5R_1R_4g_m + C_4C_5L_5R_1R_4g_m + C_4C_5L_5R_1R_4g_m + C_4C_5L_5R_1R_4g_m + C_4C_5L_5R_1g_m +$

10.416 INVALID-ORDER-416 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_4C_5L_4L_5R_1g_ms^5 + g_m + s^4\left(C_1C_4C_5L_4R_1R_5g_m - C_1C_4C_5L_4R_1 + C_1C_4C_5L_4R_1 + C_1C_4C_5L_4R_1 + C_1C_4C_5L_4R_1 + C_1C_4C_5L_4R_1 + C_1C_4C_5R_1R_4R_5g_m - C_1C_4C_5R_1R_4 + C_1C_4L_4R_1g_m + C_1C_5L_5R_1g_m + C_4C_5L_4R_5g_m - C_4C_5L_4 + C_4C_5L_4R_5g_m - C_4C_5L_4 + C_4C_5L_4R_5g_m +$

10.417 INVALID-ORDER-417 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_4L_5R_1R_5s^5 - R_5 + s^4\left(-C_1C_4C_5L_5R_1R_4R_5 + C_1C_4L_4L_5R_1R_5g_m - C_1C_4L_4L_5R_1 - C_4C_5L_4L_5R_5\right) + s^3\left(-C_1C_4L_4R_1R_5 + C_1C_4L_5R_1R_4R_5 + C_1C_4L_5R_1R_5R_5 + C_1C_4L_5R_1R_5 + C_1C_4L_5R_1R_5R_5 + C_1C_4L_5R_1R_5R_5 + C_1C_4L_5R_1R_5 + C_1C_4L_5R_1R_5$

10.418 INVALID-ORDER-418 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m - C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m - C_1 C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_5 R_1 R_4 + C_1 C_4 L_5 R_1 g_m + C_4 C_5 L_4 L_5 R_5 g_m - C_1 C_4 L_4 R_1 R_5 g_m - C_1 C_4 L_5 R_1 R_4 g_m + C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_4 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_4 L_5 R_1 R_5 g_m - C_1 C_4 L_5 R_1 R_5 g_m - C_1 C_4 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_1$

10.419 INVALID-ORDER-419 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_5g_m + s^5 \left(C_1C_4C_5L_4L_5R_1R_5g_m - C_1C_4C_5L_4L_5R_1\right) + s^4 \left(-C_1C_4C_5L_4R_1R_5 + C_1C_4C_5L_5R_1R_4R_5g_m - C_1C_4C_5L_5R_1R_4 + C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5\right) + s^3 \left(-C_1C_4C_5R_1R_4R_5 + C_1C_4C_5L_5R_1R_4R_5g_m + C_1C_4C_5L_5R_1R_4g_m + C_1C_4C_5L_5R_1R_5g_m + C_1C_4C_5L_5R_1R_5g_m$

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10.420 INVALID-ORDER-420 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)
H(s) = \frac{s^2 \left( C_1 L_4 R_1 R_4 R_5 g_m - C_1 L_4 R_1 R_4 \right) + s \left( L_4 R_4 R_5 g_m - L_4 R_4 \right)}{2 R_4 R_5 g_m + 2 R_4 + s^3 \left( 2 C_1 C_4 L_4 R_1 R_4 R_5 g_m + 2 C_1 L_4 R_1 R_4 g_m + 2 C_1 L_4 R_1 R_5 g_m + 2 C_1 L_4 R_1 + C_1 L_4 R_4 + 2 C_1 L_4 R_1 R_5 g_m + 2 C_1
10.421 INVALID-ORDER-421 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
                                          \frac{-C_{1}C_{5}L_{4}R_{1}R_{4}s^{3}+L_{4}R_{4}g_{m}s+s^{2}\left(C_{1}L_{4}R_{1}R_{4}g_{m}-C_{5}L_{4}R_{4}\right)}{2C_{1}C_{4}C_{5}L_{4}R_{1}R_{4}g_{m}+s^{3}\left(2C_{1}C_{4}L_{4}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{4}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{4}R_{1}+C_{1}C_{5}L_{4}R_{1}+C_{1}C_{5}L_{4}R_{4}+2C_{1}C_{5}L_{4}R_{4}+2C_{1}L_{4}R_{1}g_{m}+2C_{1}L_{4}+2C_{4}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{4}g_{m}+2C_{5}L_{4}R_{5}g_{m}+2C_{5}L_{4}R_{5}g_{m}+2C_{5}L_{5}R_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}L_{5}g_{m}+2C_{5}g_{m}+2C_{5}g_{m}+2C_{5}g_{m}+2C_{5}g_{m}+2C_{5}g_{m}+2C_{5}g_{m}+2C_{5}g_{m}+2C_{
10.422 INVALID-ORDER-422 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -C_{1}C_{5}L_{4}R_{1}R_{4}R_{5}s^{3}+s^{2}\left(C_{1}L_{4}R_{1}R_{4}R_{5}g_{m}-C_{1}L_{4}R_{1}R_{4}-C_{5}L_{4}R_{4}R_{5}\right)+s\left(L_{4}R_{4}R_{5}g_{m}-L_{4}R_{4}\right)
H(s) = \frac{-C_1C_5L_4R_1R_4R_5s^3 + s^2\left(C_1L_4R_1R_4R_5g_m - C_1L_4R_1R_4 - C_5L_4R_4R_5\right) + s\left(L_4R_4R_5g_m - L_4R_4\right)}{2C_1C_4C_5L_4R_1R_4R_5s^4 + 2R_4R_5g_m + 2C_1C_4L_4R_1R_4R_5g_m + 2C_1C_5L_4R_1R_4R_5g_m + 2C_1C_5L_4R_1R_4R_5g_m + 2C_1L_4R_1R_4g_m + 2C_
10.423 INVALID-ORDER-423 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10.424 INVALID-ORDER-424 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              H(s) = \frac{C_1C_5L_4L_5R_1R_4g_ms^2 + L_4R_4g_ms + s^3\left(-C_1C_5L_4R_1R_4 + C_5L_4L_5R_4g_m\right) + s^2\left(C_1L_4R_1R_4g_m - C_1C_5L_4R_1R_4g_m + C_1C_5L_4R_1R_4g_
10.425 INVALID-ORDER-425 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -C_{1}C_{5}L_{4}L_{5}R_{1}R_{4}s^{4}-L_{4}R_{4}s+s^{3}\left(C_{1}L_{4}L_{5}R_{1}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}g_{m}-C_{5}L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{1}R_{4}+L_{4}L_{5}R_{4}\right)+s^{2}\left(-C_{1}L_{4}R_{4
                                          \frac{- \cup_1 \cup_5 L_4 L_5 R_1 R_4 s - L_4 R_4 s + s^- (\cup_1 L_4 L_5 R_1 R_4 g_m - \cup_5 L_4 L_5 R_1 R_4 g_m - \cup_5 L_4 L_5 R_1 R_4 g_m - U_5 L_4 L_5 R_1 R_4 g_m - U_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 L_4 L_5 R_1 g_m + 2 C_1 L_4 L_5 R_1 g_m + 2 C_1 L_4 L_5 R_4 g_m + 2 C_5 L_4 L_5 R_5 g_m + 2 C_5 L_5 R_5 g_m + 2 C_5
10.426 INVALID-ORDER-426 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_1C_5L_4L_5R_1R_4g_ms^4 + L_4R_4
H(s) = \frac{C_1C_5L_4L_5R_1R_4g_ms^2 + L_4R_4}{2R_4g_m + s^5\left(2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4C_5L_4R_1R_4g_m + 2C_1C_4C_5L_4R_1R_4g_m + 2C_1C_5L_4L_5R_1g_m + 2C_1C_5L_4L_5R_4g_m + 2C_1C_5L_4R_1R_4g_m + 2C_1C_5L_4R_1R_
10.427 INVALID-ORDER-427 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{1 + \frac{1}{2} C_1 C_4 C_5 L_4 L_5 R_1 R_4 R_5 s^5 + 2 R_4 R_5 + s^4 \left(2 C_1 C_4 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_4 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_4 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_5 R_1 R_4 R_5 g_m + 2 C_1 C_5 L_5 R_1 R_5 g_m + 2 C_1 C_5 L_5 R_1 R_5 g_m + 2 C_1 C_5 L_5 R_5 R
10.428 INVALID-ORDER-428 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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 $H(s) = \frac{1}{2R_4R_5g_m + 2R_4 + s^5\left(2C_1C_4C_5L_4L_5R_1R_4R_5g_m + 2C_1C_4C_5L_4L_5R_1R_4 + 2C_1C_4C_5L_4L_5R_1R_4R_5 + 2C_1C_5L_4L_5R_1R_4g_m + 2C_1C_5L_4L_5R_1R_4g_m + 2C_1C_5L_4L_5R_1 + C_1C_5L_4L_5R_4 + 2C_1C_5L_4L_5R_4 + 2C_1C_5L_4L_5R_4R_5g_m + 2C_4C_5L_4L_5R_4R_5g_m + 2C_4C_5L_4L_5R_5g_m + 2C_4C_5L_4L_5R_5g_m + 2C_4C_5L_4L_5R_5g_m + 2C_4C_5L_4L_5R_5g_m + 2C_4$

 $H(s) = \frac{1}{2R_4R_5g_m + 2R_4 + s^5\left(2C_1C_4C_5L_4L_5R_1R_4R_5g_m + 2C_1C_4C_5L_4L_5R_1R_4 + 2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4L_4L_5R_1R_4g_m + 2C_1C_5L_4L_5R_1R_4g_m + 2C_1C_5L_4L_5R_1R_5g_m + 2C_1C_5L_4L_5R_1R_4g_m + 2C_1C_5L_4L_5R_1R_4g_m$

10.429 INVALID-ORDER-429 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.430 INVALID-ORDER-430 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
H(s) = \frac{R_4 R_5 g_m - R_4 + s^3 (C_1 C_4 L_4 R_1 R_4 R_5 g_m - C_1 C_4 L_4 R_1 R_4) + s^2 (C_1 L_4 R_1 R_5 g_m - C_4 L_4 R_4) + s (C_1 R_1 R_4 R_5 g_m - C_1 R_1 R_4 + L_4 R_5 g_m - L_4)}{2 R_4 g_m + 2 R_5 g_m + s^3 (2 C_1 C_4 L_4 R_1 R_5 g_m + 2 C_1 C_4 L_4 R_4) + c (C_4 L_4 R_4 + 2 C_1 C_4 L_4 R_5 g_m + C_1 L_4 + 2 C_4 L_4 R_4 g_m + 2 C_4 L_4 R_5 g_m + 2 C_4 L_4) + s (2 C_1 R_1 R_4 g_m + 2 C_1 R_1 R_5 g_m + 2 C_1 R_1
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 $H(s) = \frac{-C_1C_4C_5L_4R_1R_4R_5s^4 + R_4R_5g_m - R_4 + s^3\left(C_1C_4L_4R_1R_4R_5g_m - C_1C_4L_4R_1R_4 - C_1C_5L_4R_1R_5 - C_4C_5L_4R_4R_5\right) + s^2\left(-C_1C_5R_1R_4R_5 + C_1L_4R_1R_5g_m - C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_1R_5g_m + 2C_1C_4L_4R_1R_$

10.433 INVALID-ORDER-433 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{R_4 g_m + s^4 \left(C_1 C_4 C_5 L_4 R_1 R_4 g_m + C_1 C_5 L_4 R_1 R_4 g_m + C_1 C_5 L_4 R_1 R_5 g_m - C_1 C_5 L_4 R_4 R_5 g_m - C_1 C_5 R_1 R_5$

10.434 INVALID-ORDER-434 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_4C_5L_4L_5R_1R_4g_ms^5 + R_4g_m + s^4\left(-C_1C_4C_5L_4R_1R_4 + C_1C_5L_4L_5R_1g_m + C_4C_5L_4R_1 + C_1C_5L_4R_1 + C_1C_5L_4R_1$

10.435 INVALID-ORDER-435 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_4L_5R_1R_4s^5 - R_4 + s^4\left(C_1C_4L_4L_5R_1R_4g_m - C_1C_5L_4L_5R_1 - C_4C_5L_4L_5R_4\right) + s^3\left(-C_1C_4L_4R_1R_4 - C_1C_5L_5R_1R_4 + C_1L_4L_5R_1g_m + C_4L_4L_5R_4g_m + C_4L_4R_4R_4g_m + C_4L_4L_5R_4g_m + C_$

10.436 INVALID-ORDER-436 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_4C_5L_4L_5R_1R_4g_ms^5 + R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4F_5g_m - C_1C_4C_5L_4R_1R_4 + C_1C_5L_4R_1R_4g_m + C_4C_5L_4R_1R_4g_m + C_1C_5L_4R_1R_5g_m - C_1C_5L_4R_1 + C_1C_5L_5R_1R_4g_m + C_4C_5L_4R_1R_5g_m - C_4C_5L_4R_1R_5g_m - C_4C_5L_4R_1R_5g_m + C_4C_5L_4R_1R_5g_$

10.437 INVALID-ORDER-437 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_4L_5R_1R_4R_5s^5 - R_4R_5 + s^4\left(C_1C_4L_4L_5R_1R_4R_5g_m - C_1C_4L_4L_5R_1R_4R_5g_m - C_1C_4L_4L_5R_1R_4R_5g_m - C_1C_4L_4L_5R_1R_4R_5g_m - C_1C_4L_4L_5R_1R_4g_m + 2C_1C_4L_4L_5R_1R_5g_m + 2C_1C_4L_5L_5R_1R_5g_m + 2C_1C_5L_4L_5R_1R_5g_m + 2C_1C_4L_5R_1R_5g_m + 2C_1C_4L_5R_5g_m + 2C_1C_4L_5R_5g_m + 2C_1C_4L_5R_5g_m + 2C_1C_4L_5R_5g_m + 2C_1C_4L_5$

10.438 INVALID-ORDER-438 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_4 R_5 g_m - R_4 + s^5 \left(C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m - C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + C_1 C_5 L_4 L_5 R_1 R_5 g_m - C_1 C_5 L_4 L_5 R_1 R_5 g_m - C_4 C_5 L_4 L_5 R_1 R$

10.439 INVALID-ORDER-439 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_4 R_5 g_m - R_4 + s^5 \left(C_1 C_4 C_5 L_4 L_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_4 L_5 R_1 R_4 \right) + s^4 \left(-C_1 C_4 C_5 L_4 R_1 R_4 R_5 - C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 R_5 - 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g$

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10.440 INVALID-ORDER-440 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)
 H(s) = \frac{R_4 R_5 g_m - R_4 + s^3 \left(C_1 C_4 L_4 R_1 R_4 R_5 g_m - C_1 C_4 L_4 R_1 R_4\right) + s^2 \left(C_4 L_4 R_4 R_5 g_m - C_4 L_4 R_4\right) + s \left(C_1 R_1 R_4 R_5 g_m - C_1 R_1 R_4\right)}{2 R_4 g_m + 2 R_5 g_m + s^3 \left(2 C_1 C_4 L_4 R_1 R_5 g_m + 2 C_1 C_4 L_4 R_1 R_5 g_m + 2 C_1 C_4 L_4 R_5\right) + s^2 \left(2 C_1 C_4 R_1 R_4 R_5 g_m + 2 C_1 L_4 R_4 R_5 g_m + 2 C_4 L_4 R_5 g_m + 2 C_
 10.441 INVALID-ORDER-441 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
 H(s) = \frac{-C_1C_4C_5L_4R_1R_4s^4 + R_4g_m + s^3\left(C_1C_4L_4R_1R_4g_m - C_4C_5L_4R_4\right) + s^2\left(-C_1C_5R_1R_4 + C_4L_4R_4g_m\right) + s\left(C_1R_1R_4g_m - C_5R_4\right)}{2g_m + s^4\left(2C_1C_4C_5L_4R_1R_4g_m + 2C_1C_4L_4R_1g_m + 2C_1C_4L_4 + 2C_4C_5L_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + 2C_4C_5R_1R_4g_m + 2C_4C_5R_4 + 2C_4C_5R_4 + 2C_4C_5R_4 + 2C_4C_5R_4 + 2C_4C_5R_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_4C_5L_4R_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_4C_5L_4R_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_4C_5L_4R_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_4C_5R_4 + 2C_4C_5R_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_4C_5L_4R_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_4C_5L_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_4C_5R_4\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_4C_5R_4\right) + s^2\left(2C_1C_4R_4R_4g_m + 2C_4C_5R_4\right) + s^2\left
 10.442 INVALID-ORDER-442 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -C_{1}C_{4}C_{5}L_{4}R_{1}R_{4}R_{5}s^{4}+R_{4}R_{5}g_{m}-R_{4}+s^{3}\left(C_{1}C_{4}L_{4}R_{1}R_{4}R_{5}g_{m}-C_{1}C_{4}L_{4}R_{1}R_{4}-C_{4}C_{5}L_{4}R_{4}R_{5}\right)+s^{2}+C_{1}C_{4}C_{5}L_{4}R_{5}s^{4}+C_{4}C_{5}L_{4}R_{5}s^{4}+C_{5}C_{5}L_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_{5}R_{5}s^{4}+C_
                                                           -C_{1}C_{4}C_{5}L_{4}R_{1}R_{4}R_{5}s^{s} + R_{4}R_{5}g_{m} - R_{4} + s^{s}\left(C_{1}C_{4}L_{4}R_{1}R_{4}R_{5}g_{m} - C_{1}C_{4}L_{4}R_{1}R_{4} - C_{4}C_{5}L_{4}R_{4}R_{5}\right) + s^{s}\left(C_{1}C_{4}C_{5}L_{4}R_{1}R_{4}R_{5}g_{m} - C_{1}C_{4}L_{4}R_{1}R_{4} - C_{4}C_{5}L_{4}R_{1}R_{4} - C_{4}C_{5}L_{4}R_{1}R_{4} - C_{4}C_{5}L_{4}R_{1}R_{4} - C_{4}C_{5}L_{4}R_{1}R_{5}g_{m} + 2C_{1}C_{4}L_{4}R_{1}R_{5}g_{m} + 2C_{1}C_{4
10.443 INVALID-ORDER-443 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R_{4}g_{m} + s^{4} \left( C_{1}C_{4}C_{5}L_{4}R_{1}R_{4}R_{5}g_{m} - C_{1}C_{4}C_{5}L_{4}R_{1}R_{4} \right) + s^{3} \left( C_{1}C_{4}L_{4}R_{1}R_{4}g_{m} + C_{4}C_{5}L_{4}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{4}R_{4} \right) + s^{2} \left( C_{1}C_{5}R_{1}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{4}R_{5}g_{m} - C_{4}C_{5}L_{4}R_{4} \right) + s^{2} \left( C_{1}C_{5}R_{1}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{4}R_{5}g_{m} - C_{4}C_{5}L_{4}R_{5}g_{m} \right) + s^{2} \left( C_{1}C_{5}R_{1}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{4}R_{5}g_{m} - C_{4}C_{5}L_{4}R_{5}g_{m} \right) + s^{2} \left( C_{1}C_{5}R_{1}R_{5}g_{m} - C_{4}C_{5}L_{5}R_{5}g_{m} \right) + s^{2} \left( C_{1}C_{5}R_{5}R_{5}g_{m} - C_{4}C_{5}R_{5}g_{m} \right) + s^{2} \left( C_{1}C_{5}R_{5}R_{5}g_{m} - C_{4}C_{5}R_{5}g_{m} \right) + s^{2} \left( C_{1}C_{5}R_{5}R_{5}g_{m} - C_{5}R_{5}g_{m} \right) + s^{2} \left( C_{1}C_{5}R_{5}g_{m} - C_{5}R_{5}g_{
                                                             \frac{R_4 g_m + s^4 \left(C_1 C_4 C_5 L_4 R_1 R_4 g_m - C_1 C_4 C_5 L_4 R_1 R_4 g_m - C_4 C_5 L_4 R_1 R_4 g_m - C_4 C_5 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 R_1 R_4 R_5 g_m + 2 C_1 C_4 C_5 R_1 R_4 R_5 g_m + 2 C_1 C_4 C_5 R_4 R_5 g_m + 2 C_1 C_4 L_4 R_5 g_m + 2 C_4 C_5 L_4 
10.444 INVALID-ORDER-444 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
 H(s) = \frac{C_1C_4C_5L_4L_5R_1R_4g_ms^5 + R_4g_m + s^4\left(-C_1C_4C_5L_4R_1R_4 + C_4C_5L_4L_5R_4g_m\right) + s^3\left(C_1C_4L_4R_1R_4g_m + C_1C_5L_5R_1R_4g_m - C_4C_5L_4R_4R_4R_4g_m\right) + s^3\left(C_1C_4C_5L_4R_1R_4g_m + C_1C_5L_5R_1R_4g_m + C_4C_5L_4R_4R_4g_m\right) + s^3\left(C_1C_4C_5L_4R_1R_4g_m + C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m\right) + s^3\left(C_4C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m\right) + s^3\left(C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m\right) + s^3\left(C_4C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m\right) + s^3\left(C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m\right) + s^3\left(C_4C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m\right) + s^3\left(C_4C_4C_5L
10.445 INVALID-ORDER-445 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                             \frac{-C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}R_{4}s^{5}-R_{4}+s^{4}\left(C_{1}C_{4}L_{4}L_{5}R_{1}R_{4}g_{m}-C_{4}C_{5}L_{4}L_{5}R_{4}\right)+s^{3}\left(-C_{1}C_{4}L_{4}R_{1}R_{4}-C_{1}C_{5}L_{5}R_{1}R_{4}-C_{1}C_{5}L_{5}R_{1}R_{4}+C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{
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 $\frac{II(s)}{2R_4g_m + s^5} \frac{2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4C_5L_4L_5R_1 + C_1C_4C_5L_4L_5R_4) + s^4\left(2C_1C_4C_5L_5R_1R_4 + 2C_1C_4L_4L_5R_1g_m + 2C_1C_4L_4L_5R_4g_m + 2C_4C_5L_4L_5\right) + s^3\left(2C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_1 + C_1C_4L_4R_4 + 2C_1C_4L_5R_1R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5\right) + s^3\left(2C_1C_4L_4R_1R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4R_4g_m + 2C_4C_5L_4$

10.446 INVALID-ORDER-446
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_4L_5R_1R_4g_ms^5 + R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4 + C_4C_5L_4R_1R_4 + C_4C_5L_4R_1R_4 + C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4L_5R_1g_m + s^4\left(C_1C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4 + C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4 + C_4C_5L_4R_1 + C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4 + C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4R_5g_m + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4R_5g_m + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m - C_1C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4g_m + s^4C_1C_4C_5L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4g_m + s^4C_1C_4C_5L_4R_1R_4g_m + s^4$

10.447 INVALID-ORDER-447
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_4L_5}{2R_4R_5g_m + 2R_5 + s^5\left(2C_1C_4C_5L_4L_5R_1R_4R_5g_m + 2C_1C_4C_5L_4L_5R_1R_4R_5 + C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4L_4L_5R_1R_5g_m + 2C_1C_4L_4L_5R_1 + C_1C_4L_4L_5R_1 + C_1C_4L_5L_5R_1 + C_1C_4L_5L_5R_1 + C_1C_4L_$

10.448 INVALID-ORDER-448
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{R_4 R_5 g_m - R_4 + s^5 \left(C + \frac{R_4 R_5 g_m - R_4 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C$

10.449 INVALID-ORDER-449
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{1}{2R_4g_m + 2R_5g_m + s^5\left(2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4C_5L_4L_5R_1R_5g_m + 2C_1C_4C_5L_4L_5R_1 + C_1C_4C_5L_4L_5R_4 + 2C_1C_4C_5L_4L_5R_5\right) + s^4\left(2C_1C_4C_5L_4R_1R_4R_5g_m + 2C_1C_4C_5L_4R_4R_5 + 2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4C_5L_4R_5g_m +$

10.450 INVALID-ORDER-450
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_4s^3 + C_1L_1R_4g_ms^2 - C_5R_4s + R_4g_m}{2g_m + s^3\left(2C_1C_5L_1R_4g_m + 2C_1C_5L_1\right) + s^2\left(C_1C_5R_4 + 2C_1L_1g_m\right) + s\left(2C_1 + 2C_5R_4g_m + 2C_5\right)}$$

10.451 INVALID-ORDER-451
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_4R_5s^3 - C_5R_4R_5s + R_4R_5g_m - R_4 + s^2\left(C_1L_1R_4R_5g_m - C_1L_1R_4\right)}{2R_4g_m + 2R_5g_m + s^3\left(2C_1C_5L_1R_4R_5g_m + 2C_1C_5L_1R_5\right) + s^2\left(C_1C_5R_4R_5 + 2C_1L_1R_4g_m + 2C_1L_1R_5g_m + 2C_1L_1\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_5R_4R_5g_m + 2C_5R_5\right) + 2c_1C_3R_4R_5g_m + 2c_1C_3R_5g_m + 2c_1$$

10.452 INVALID-ORDER-452
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1L_1R_4g_ms^2 + R_4g_m + s^3\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4\right) + s\left(C_5R_4R_5g_m - C_5R_4\right)}{2g_m + s^3\left(2C_1C_5L_1R_4g_m + 2C_1C_5L_1R_5g_m + 2C_1C_5L_1\right) + s^2\left(C_1C_5R_4 + 2C_1C_5R_5 + 2C_1L_1g_m\right) + s\left(2C_1 + 2C_5R_4g_m + 2C_5R_5g_m + 2C_5\right)}$$

10.453 INVALID-ORDER-453
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5R_4g_ms^4 - C_1C_5L_1R_4s^3 - C_5R_4s + R_4g_m + s^2\left(C_1L_1R_4g_m + C_5L_5R_4g_m\right)}{2C_1C_5L_1L_5g_ms^4 + 2g_m + s^3\left(2C_1C_5L_1R_4g_m + 2C_1C_5L_1 + 2C_1C_5L_5\right) + s^2\left(C_1C_5R_4 + 2C_1L_1g_m + 2C_5L_5g_m\right) + s\left(2C_1 + 2C_5R_4g_m + 2C_5\right)}$$

10.454 INVALID-ORDER-454
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_4s^4 + C_1L_1L_5R_4g_ms^3 + L_5R_4g_ms - R_4 + s^2\left(-C_1L_1R_4 - C_5L_5R_4\right)}{2R_4g_m + s^4\left(2C_1C_5L_1L_5R_4g_m + 2C_1C_5L_1L_5\right) + s^3\left(C_1C_5L_5R_4 + 2C_1L_1L_5g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_1 + 2C_1L_5 + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2L_5g_m\right) + 2C_5R_4g_m + s^4\left(2C_1C_5L_1L_5R_4g_m + 2C_1L_5R_4g_m + 2C_1L_5R_4g_m\right) + s^4\left(2C_1C_5L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5R_4g_m\right) + s^4\left(2C_1C_5L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5R_4g_m\right) + s^4\left(2C_1C_5L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5R_4g_m\right) + s^4\left(2C_1C_5L_5R_4g_m + 2C_5L_5R_5g_m\right) + s^4\left(2C_1C_5L_5R_5R_5g_m\right) + s^4\left(2C_1C_5L_5R_5g_m\right) + s^4\left(2C_1C_5L_5$$

10.455 INVALID-ORDER-455
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5R_4g_ms^4 + R_4g_m + s^3\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4\right) + s^2\left(C_1L_1R_4g_m + C_5L_5R_4g_m\right) + s\left(C_5R_4R_5g_m - C_5R_4\right)}{2C_1C_5L_1L_5g_ms^4 + 2g_m + s^3\left(2C_1C_5L_1R_4g_m + 2C_1C_5L_1R_5g_m + 2C_1C_5L_1 + 2C_1C_5L_5\right) + s^2\left(C_1C_5R_4 + 2C_1C_5R_5 + 2C_1L_1g_m + 2C_5L_5g_m\right) + s\left(2C_1 + 2C_5R_4g_m + 2C_5R_5g_m + 2C_5\right)}$$

10.456 INVALID-ORDER-456
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_4R_5s^4 - R_4R_5 + s^3\left(C_1L_1L_5R_4R_5g_m - C_1L_1L_5R_4\right) + s^2\left(-C_1L_1R_4R_5 - C_5L_5R_4R_5\right) + s\left(L_5R_4R_5g_m - L_5R_4\right)}{2R_4R_5g_m + 2R_5 + s^4\left(2C_1C_5L_1L_5R_4g_m + 2C_1L_5R_5\right) + s^3\left(C_1C_5L_5R_4R_5 + 2C_1L_1L_5R_4g_m + 2C_1L_1L_5\right) + s^2\left(2C_1L_1R_4R_5g_m + 2C_1L_1R_5 + C_1L_5R_4 + 2C_1L_5R_5\right) + s\left(C_1R_4R_5g_m + 2C_5L_5R_5\right) + s\left(C_1R_4R_5g_m + 2C_5L_5R$$

10.457 INVALID-ORDER-457
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_1L_1L_5R_4g_ms^3 + L_5R_4g_ms + R_4R_5g_m - R_4 + s^4\left(C_1C_5L_1L_5R_4R_5g_m - C_1C_5L_1L_5R_4\right) + s^2\left(C_1L_1R_4R_5g_m - C_1L_1R_4 + C_5L_5R_4R_5g_m - C_5L_5R_4\right)}{2R_4g_m + 2R_5g_m + s^4\left(2C_1C_5L_1L_5R_4g_m + 2C_1C_5L_1L_5\right) + s^3\left(C_1C_5L_5R_4 + 2C_1C_5L_5R_5 + 2C_1L_1L_5g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_1 + 2C_1L_5 + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2L_5g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_1R_5g_m + 2C_1L_1 + 2C_1L_5 + 2C_5L_5R_5g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2L_5g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_1R_5g_m + 2C_1L_1R_5g_m + 2C_5L_5R_5g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2L_5g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_1R_5g_m + 2C_1L_1R_5g_m + 2C_5L_5R_5g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_5L_5R_5g_m + 2C_5L_5R_5g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_5L_5\right) + s\left(C_1R_4 + 2C_1R_5\right) + s\left(C_1R_4 + 2C_1R_5$$

10.458 INVALID-ORDER-458 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$ $-C_1 C_5 L_1 R_4 R_5 s^3 - C_5 R_4 R_5 s + R_4 R_5 g_m - R_4 + s^4 \left(C_1 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_5 L_1 L_5 R_4\right) + s^2 \left(C_1 L_1 R_4 R_5 g_m - C_1 L_1 R_4 + C_5 L_5 R_4 R_5 g_m - C_5 L_5 R_4\right)$ $-C_1 C_5 L_1 R_4 R_5 s^3 - C_5 R_4 R_5 s + R_4 R_5 g_m - R_4 + s^4 \left(C_1 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_5 L_1 L_5 R_4\right) + s^2 \left(C_1 L_1 R_4 R_5 g_m - C_1 L_1 R_4 + C_5 L_5 R_4 R_5 g_m - C_5 L_5 R_4\right)$ $-C_1 C_5 L_1 R_4 R_5 s^3 - C_5 R_4 R_5 s + R_4 R_5 g_m - R_4 + s^4 \left(C_1 C_5 L_1 L_5 R_4\right) + s^2 \left(C_1 L_1 R_4 R_5 g_m - C_1 L_1 R_4 + C_5 L_5 R_4 R_5 g_m - C_5 L_5 R_4\right)$ $-C_1 C_5 L_1 R_4 R_5 s^3 - C_5 R_4 R_5 s + R_4 R_5 g_m - R_4 + s^4 \left(C_1 C_5 L_1 L_5 R_4 R_5 g_m - C_1 L_1 R_4 R_5 g_m - C_1 L$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1 \right) - 1}{2 g_m + s^3 \left(2 C_1 C_4 L_1 R_5 g_m + 2 C_1 C_4 L_1 \right) + s^2 \left(2 C_1 C_4 R_5 + 2 C_1 L_1 g_m \right) + s \left(C_1 + 2 C_4 R_5 g_m + 2 C_4 \right)}$$

10.460 INVALID-ORDER-460 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1s^3 + C_1L_1g_ms^2 - C_5s + g_m}{2C_1C_4C_5L_1s^4 + s^3\left(2C_1C_4L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.461 INVALID-ORDER-461 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1R_5s^3 - C_5R_5s + R_5g_m + s^2\left(C_1L_1R_5g_m - C_1L_1\right) - 1}{2C_1C_4C_5L_1R_5s^4 + 2g_m + s^3\left(2C_1C_4L_1R_5g_m + 2C_1C_5L_1R_5g_m\right) + s^2\left(2C_1C_4R_5 + C_1C_5R_5 + 2C_1L_1g_m + 2C_4C_5R_5\right) + s\left(C_1 + 2C_4R_5g_m + 2C_4 + 2C_5R_5g_m\right)}$$

10.462 INVALID-ORDER-462 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1L_1g_ms^2 + g_m + s^3\left(C_1C_5L_1R_5g_m - C_1C_5L_1\right) + s\left(C_5R_5g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1\right) + s^3\left(2C_1C_4C_5R_5 + 2C_1C_4L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_5g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.463 INVALID-ORDER-463 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5g_ms^4 - C_1C_5L_1s^3 - C_5s + g_m + s^2\left(C_1L_1g_m + C_5L_5g_m\right)}{2C_1C_4C_5L_1L_5g_ms^5 + s^4\left(2C_1C_4C_5L_1 + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4L_1g_m + 2C_1C_5L_1g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.464 INVALID-ORDER-464 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5s^4 + C_1L_1L_5g_ms^3 + L_5g_ms + s^2\left(-C_1L_1 - C_5L_5\right) - 1}{2C_1C_4C_5L_1L_5s^5 + 2g_m + s^4\left(2C_1C_4L_1L_5g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_4L_1 + 2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(2C_1L_1g_m + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(C_1 + 2C_4\right)}$$

10.465 INVALID-ORDER-465 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_5L_1L_5g_ms^4 + g_m + s^3\left(C_1C_5L_1R_5g_m - C_1C_5L_1\right) + s^2\left(C_1L_1g_m + C_5L_5g_m\right) + s\left(C_5R_5g_m - C_5\right)}{2C_1C_4C_5L_1L_5g_ms^5 + s^4\left(2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1\right) + s^3\left(2C_1C_4C_5R_5 + 2C_1C_4L_1g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_5g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.466 INVALID-ORDER-466 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_1C_5L_1L_5R_5s^4 - R_5 + s^3\left(C_1L_1L_5R_5g_m - C_1L_1L_5\right) + s^2\left(-C_1L_1R_5 - C_5L_5R_5\right) + s\left(L_5R_5g_m - L_5\right)}{2C_1C_4C_5L_1L_5R_5s^5 + 2R_5g_m + s^4\left(2C_1C_4L_1L_5R_5g_m + 2C_1C_4L_1L_5 + 2C_1C_4L_1R_5 + 2C_1C_4L_1R_5$$

10.467 INVALID-ORDER-467 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{C_1L_1L_5g_ms^3 + L_5g_ms + R_5g_m + s^4\left(C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 + C_5L_5R_5g_m - C_5L_5\right) - 1}{2g_m + s^5\left(2C_1C_4C_5L_1L_5\right) + s^4\left(2C_1C_4C_5L_1L_5\right) + s^4\left(2C_1C_4C_5L_1L_5g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_4L_1R_5g_m + 2C_1C_4L_1 + 2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_1L_1g_m + 2C_4L_5g_m\right) + s\left(C_1 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4C_5L_5\right) + s^2\left(2C_1C_4C_5L$$

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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(2C_1C_4C_5L_1L_5\right) + s^4\left(2C_1C_4C_5L_1R_5 + 2C_1C_4C_5L_5R_5 + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_4L_1R_5g_m + 2C_1C_4L_1 + 2C_1C_5L_1R_5g_m + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_5 + C_1C_5R_5 + 2C_1L_1g_m + 2C_4C_5R_5 + 2C_5L_5g_m\right)}
10.469 INVALID-ORDER-469 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                        H(s) = \frac{R_4 R_5 g_m - R_4 + s^2 \left(C_1 L_1 R_4 R_5 g_m - C_1 L_1 R_4\right)}{2 R_4 g_m + 2 R_5 g_m + s^3 \left(2 C_1 C_4 L_1 R_4 R_5 g_m + 2 C_1 C_4 L_1 R_4\right) + s^2 \left(2 C_1 C_4 R_4 R_5 + 2 C_1 L_1 R_4 g_m + 2 C_1 L_1\right) + s \left(C_1 R_4 + 2 C_1 R_5 + 2 C_4 R_4 R_5 g_m + 2 C_4 R_4\right) + 2 C_1 R_5 g_m + 2 C_1 R_5 g_
10.470 INVALID-ORDER-470 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                            H(s) = \frac{-C_1C_5L_1R_4s^3 + C_1L_1R_4g_ms^2 - C_5R_4s + R_4g_m}{2C_1C_4C_5L_1R_4s^4 + 2g_m + s^3\left(2C_1C_4L_1R_4g_m + 2C_1C_5L_1R_4g_m + 2C_1C_5L_1\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_1L_1g_m + 2C_4C_5R_4\right) + s\left(2C_1 + 2C_4R_4g_m + 2C_5R_4g_m + 2C_5R_4g_m + 2C_5R_4g_m\right)}
10.471 INVALID-ORDER-471 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_1C_5L_1R_4R_5s^3 - C_5R_4R_5s + R_4R_5g_m - R_4 + s^2\left(C_1L_1R_4R_5g_m - C_1L_1R_4\right)}{2C_1C_4C_5L_1R_4R_5s^4 + 2R_4g_m + 2R_5g_m + s^3\left(2C_1C_4L_1R_4R_5g_m + 2C_1C_5L_1R_4\right) + s^2\left(2C_1C_4R_4R_5 + C_1C_5R_4R_5 + 2C_1L_1R_4g_m + 2C_1L_1R_5g_m + 2C_1L_1 + 2C_4C_5R_4R_5\right) + s\left(C_1R_4 + 2C_1R_5 + 2C_4R_4R_5g_m + 2C_4R_4 + 2C_5R_4R_5g_m + 2C_4R_4R_5g_m + 2C_4R_5g_m + 2C_
10.472 INVALID-ORDER-472 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_1L_1R_4g_ms^2 + R_4g_m + s^3\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4\right) + s\left(C_5R_4R_5g_m - C_5R_4\right)}{2g_m + s^4\left(2C_1C_4C_5L_1R_4R_5g_m + 2C_1C_4L_1R_4g_m + 2C_1C_5L_1R_5g_m + 2C_1C_5L_1\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_1C_5R_4 + 2C_1C_5R_4\right) + s\left(2C_1C_4R_4 + 2C_1C_
10.473 INVALID-ORDER-473 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_1C_5L_1L_5R_4g_ms^4 - C_1C_5L_1R_4s^3 - C_5R_4s + R_4g_m + s^2\left(C_1L_1R_4g_m + C_5L_5R_4g_m\right)}{2C_1C_4C_5L_1L_5R_4g_ms^5 + 2g_m + s^4\left(2C_1C_4C_5L_1R_4 + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_4L_1R_4g_m + 2C_1C_5L_1R_4g_m + 2C_1C_5L_1 + 2C_1C_5L_5R_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_1L_1g_m + 2C_4C_5R_4 + 2C_5L_5g_m\right) + s\left(2C_1C_4R_4g_m + 2C_5R_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_4C_5R_4 + 2C_5R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_5R_4 + 2C_5R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_5R_4 + 2C_4C_5R_4 + 2C_5R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_5R_4 + 
10.474 INVALID-ORDER-474 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_1C_5L_1L_5R_4s^4 + C_1L_1L_5R_4g_ms^3 + L_5R_4g_ms - R_4 + s^2\left(-C_1L_1R_4 - C_5L_5R_4\right)}{2C_1C_4C_5L_1L_5R_4s^5 + 2R_4g_m + s^4\left(2C_1C_4L_1L_5R_4g_m + 2C_1C_5L_1L_5\right) + s^3\left(2C_1C_4L_1R_4 + 2C_1C_4L_5R_4 + C_1C_5L_5R_4\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_1 + 2C_1L_5 + 2C_4L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_4C_5L_5R_4\right) + s^2\left(2C_1L_1R_4g_m + 2C_4L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_4C_5L_5R_4\right) + s^2\left(2C_1L_1R_4g_m + 2C_4L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(C_1R_4 + 2C_4C_5L_5R_4\right) + s^2\left(2C_1L_1R_4g_m + 2C_4L_5R_4g_m + 2C_5L_5R_4\right) + s^2\left(2C_1L_1R_4g_m + 2C_4L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5R_4\right) + s^2\left(2C_1L_1R_4g_m + 2C_4L_5R_4g_m + 2C_5L_5R_4g_m + 2C_5L_5R_5g_m + 2C
10.475 INVALID-ORDER-475 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                            \frac{C_{1}C_{5}L_{1}L_{5}R_{4}g_{m}s^{4}+R_{4}g_{m}+s^{3}\left(C_{1}C_{5}L_{1}R_{4}R_{5}g_{m}-C_{1}C_{5}L_{1}R_{4}\right)+s^{2}\left(C_{1}L_{1}R_{4}g_{m}+C_{5}L_{5}R_{4}g_{m}\right)+s\left(C_{5}R_{4}R_{5}g_{m}-C_{5}R_{4}\right)}{2C_{1}C_{4}C_{5}L_{1}L_{5}R_{4}g_{m}+s^{4}\left(2C_{1}C_{4}C_{5}L_{1}R_{4}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{1}C_{
10.476 INVALID-ORDER-476 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -C_{1}C_{5}L_{1}L_{5}R_{4}R_{5}s - R_{4}R_{5}s - R_{4}R_{5}s - C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} - C_{1}L_{1}L_{5}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5}) + s \left( -C_{1}L_{1}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5} \right) + s \left( -C_{1}L_{1}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5} \right) + s \left( -C_{1}L_{1}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5} \right) + s \left( -C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} - C_{1}L_{1}L_{5}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5} \right) + s \left( -C_{1}L_{1}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5} \right) + s \left( -C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} - C_{1}L_{1}L_{5}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5} \right) + s \left( -C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} - C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} - C_{1}L_{1}L_{5}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5} \right) + s \left( -C_{1}L_{1}R_{4}R_{5} - C_{5}L_{5}R_{4}R_{5} \right) + s \left( -C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} - C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} - C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} - C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} + 2C_{1}L_{1}L_{5}R_{4}R_{5}g_{m} + 2C_{1}L_{1}L_{5
10.477 INVALID-ORDER-477 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1L_1L_5R_4g_ms^3 + L_5R_4g_ms + R_4R_5g_m - R_4 + s^4(C_1C_5L_1L_5R_4R_5g_m - C_1C_5L_1L_5R_4) + s^2
                                            \frac{2R_4g_m + 2R_5g_m + s^5 \left(2C_1C_4C_5L_1L_5R_4g_m + 2C_1C_5L_1L_5R_4g_m + 2C_1C_5L_1L
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10.468 INVALID-ORDER-468 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.478 INVALID-ORDER-478 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -C_{1}C_{5}L_{1}R_{4}R_{5}s^{3}-C_{5}R_{4}R_{5}s+R_{4}R_{5}g_{m}-R_{4}+s^{4}\left(C_{1}C_{5}L_{1}L_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{4}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}g_{m}-C_{1}C_{5}R_{5}g_{m}-C_{1}C_{5}
H(s) = \frac{1}{2R_4g_m + 2R_5g_m + s^5\left(2C_1C_4C_5L_1L_5R_4R_5g_m + 2C_1C_4L_5L_1L_5R_4g_m + 2C_1C_5L_1L_5R_4g_m + 2C_1C_5L_1R_4R_5g_m + 2C_1C_5L_1R_5g_m + 2C_1C_5L_1R_5g_
10.479 INVALID-ORDER-479 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                                                                         H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_4 L_1 R_4 R_5 g_m - C_1 C_4 L_1 R_4\right) + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1\right) + s \left(C_4 R_4 R_5 g_m - C_4 R_4\right) - 1}{2 g_m + s^3 \left(2 C_1 C_4 L_1 R_4 g_m + 2 C_1 C_4 L_1 R_5 g_m + 2 C_1 C_4 L_1\right) + s^2 \left(C_1 C_4 R_4 + 2 C_1 C_4 R_5 + 2 C_1 L_1 g_m\right) + s \left(C_1 + 2 C_4 R_4 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(C_1 + 2 C_4 R_4 g_m + 2 C_4 R_5 g_m\right) + s \left(C_1 + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(C_1 + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(C_1 + 2 C_4 R_5 g_m\right) + s \left(C_
10.480 INVALID-ORDER-480 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                        H(s) = \frac{-C_1C_4C_5L_1R_4s^4 + g_m + s^3\left(C_1C_4L_1R_4g_m - C_1C_5L_1\right) + s^2\left(C_1L_1g_m - C_4C_5R_4\right) + s\left(C_4R_4g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5L_1\right) + s^3\left(C_1C_4C_5R_4 + 2C_1C_4L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}
10.481 INVALID-ORDER-481 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_1C_4C_5L_1R_4R_5s^4 + R_5g_m + s^3\left(C_1C_4L_1R_4R_5g_m - C_1C_4L_1R_4 - C_1C_5L_1R_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 - C_4C_5R_4R_5\right) + s\left(C_4R_4R_5g_m - C_4R_4 - C_5R_5\right) - 1}{2g_m + s^4\left(2C_1C_4C_5L_1R_4Sg_m + 2C_1C_4L_1R_5g_m + 2C_1C_4L_1R_5g_m + 2C_1C_4L_1 + 2C_1C_5L_1R_5g_m\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + C_1C_5R_5 + 2C_1L_1g_m + 2C_4C_5R_4R_5g_m + 2C_4C_5R_5\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4R_5g_m + 2C_4R_5g_m\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_5 + C_4R_5g_m + 2C_4C_5R_4R_5g_m + 2C_4C_5R_5\right) + s\left(C_1 + 2C_4R_4g_m + 2C_4R_5g_m + 2C_4R_5g_m + 2C_4R_5g_m\right) + s^2\left(C_1C_4R_5 + C_1C_5R_5 + 2C_4R_5g_m + 2C_4C_5R_5\right) + s\left(C_1C_4R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5\right) + s\left(C_1C_4R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(C_1C_4R_5g_m + 2C
10.482 INVALID-ORDER-482 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                         H(s) = \frac{g_m + s^4 \left(C_1 C_4 C_5 L_1 R_4 R_5 g_m - C_1 C_4 C_5 L_1 R_4\right) + s^3 \left(C_1 C_4 L_1 R_4 g_m + C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1\right) + s^2 \left(C_1 L_1 g_m + C_4 C_5 R_4 R_5 g_m - C_4 C_5 R_4\right) + s \left(C_4 R_4 g_m + C_5 R_5 g_m - C_5\right)}{s^4 \left(2 C_1 C_4 C_5 L_1 R_5 g_m + 2 C_1 C_4 C_5 L_1\right) + s^3 \left(C_1 C_4 C_5 R_4 + 2 C_1 C_4 C_5 R_5 + 2 C_1 C_4 L_1 g_m + 2 C_1 C_5 L_1 g_m\right) + s^2 \left(2 C_1 C_4 + C_1 C_5 + 2 C_4 C_5 R_4 g_m + 2 C_4 C_5 R_5 g_m + 2 C_4 C_5\right) + s \left(2 C_4 g_m + 2 C_5 g_m\right)}
10.483 INVALID-ORDER-483 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                    H(s) = \frac{C_1C_4C_5L_1L_5R_4g_ms^5 + g_m + s^4\left(-C_1C_4C_5L_1R_4 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_4L_1R_4g_m - C_1C_5L_1 + C_4C_5L_5R_4g_m\right) + s^2\left(C_1L_1g_m - C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_4R_4g_m - C_5\right)}{2C_1C_4C_5L_1L_5g_ms^5 + s^4\left(2C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5L_1\right) + s^3\left(C_1C_4C_5R_4 + 2C_1C_4L_1g_m + 2C_1C_5L_1g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}
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10.484 INVALID-ORDER-484
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_4C_5L_1L_5R_4s^5 + s^4\left(C_1C_4L_1L_5R_4g_m - C_1C_5L_1L_5\right) + s^3\left(-C_1C_4L_1R_4 + C_1L_1L_5g_m - C_4C_5L_5R_4\right) + s^2\left(-C_1L_1 + C_4L_5R_4g_m - C_5L_5\right) + s\left(-C_4R_4 + L_5g_m\right) - 1}{2g_m + s^5\left(2C_1C_4C_5L_1L_5R_4g_m + 2C_1C_4L_1L_5g_m + 2C_1C_4L_1L_5g_m\right) + s^3\left(2C_1C_4L_1R_4g_m + 2C_1C_4L_1 + 2C_1C_4L_5 + C_1C_5L_5 + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_1L_1g_m + 2C_4L_5g_m\right) + s\left(C_1C_4C_5L_1L_5R_4g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4L_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4L_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4L_5g_m + 2C_4C_5L_5\right) + s^2\left(C_1C_4R_4 + 2C_4C_5\right) +$$

10.485 INVALID-ORDER-485
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_4C_5L_1L_5R_4g_ms^5 + g_m + s^4\left(C_1C_4C_5L_1R_4R_5g_m - C_1C_4C_5L_1R_4 + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_4L_1R_4g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_4C_5L_5R_4g_m\right) + s^2\left(C_1L_1g_m + C_4C_5R_4R_5g_m - C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_4R_4g_m + C_5R_5g_m - C_5\right)}{2C_1C_4C_5L_1L_5g_ms^5 + s^4\left(2C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1\right) + s^3\left(C_1C_4C_5R_4 + 2C_1C_4C_5R_5 + 2C_1C_4L_1g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5R_5g_m + 2C_4C_5\right) + s^3\left(2C_4C_5R_4 + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(2C_4C_5R_4 + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(2C_4C_5R_4g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(2C_4C_5R_4g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(2C_4C_5R_4g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(2C_4C_5R_4g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(2C_4C_5R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(2C_5R_5g_m + 2C_4C_5R_5g_m + 2C_4C_5R_5g_m\right) + s^2\left(2C_5R_5g_m + 2C_4C_5R_5g_m +$$

10.486 INVALID-ORDER-486
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_4C_5L_1L_5R_4R_5s^5 - R_5 + s^4\left(C_1C_4L_1L_5R_4R_5g_m - C_1C_4L_1L_5R_4 - C_1C_5L_1L_5R_5\right) + s^3\left(-C_1C_4L_1R_4R_5 + C_1L_1L_5R_5g_m - C_1L_1L_5 - C_4C_5L_5R_4R_5\right) + s^2\left(-C_1L_1L_5R_5g_m + s^5\left(2C_1C_4C_5L_1L_5R_4R_5g_m + 2C_1C_4L_1L_5R_4g_m + 2C_1C_4L_1L_5R_5g_m + 2C_1C_4L_1R_4R_5g_m + 2C_1C_4L_1R_5 + C_1C_4L_5R_5g_m + 2C_1C_4L_5R_5g_m + 2C_1C_4L_5R_$$

10.487 INVALID-ORDER-487
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

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10.488 INVALID-ORDER-488 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{R_5g_m + s^5 \left(C_1C_4C_5L_1L_5R_4g_m - C_1C_4C_5L_1L_5R_4g_m - C_1C_4C_5L_1L_5R_4g_m - C_1C_4L_1R_4R_5g_m - C_1C_4L_1R_4g_m - C_1C_4L_1R_4g_m + C_1C_5L_1R_5R_4R_5g_m - C_1C_4L_1R_4g_m + C_1C_4L_1R_4g
10.489 INVALID-ORDER-489 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                                           H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_4 L_1 L_4 R_5 g_m - C_1 C_4 L_1 L_4\right) + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1 + C_4 L_4 R_5 g_m - C_4 L_4\right) - 1}{2 C_1 C_4 L_1 L_4 g_m s^4 + 2 g_m + s^3 \left(2 C_1 C_4 L_1 R_5 g_m + 2 C_1 C_4 L_1 + C_1 C_4 L_4\right) + s^2 \left(2 C_1 C_4 R_5 + 2 C_1 L_1 g_m + 2 C_4 L_4 g_m\right) + s \left(C_1 + 2 C_4 R_5 g_m + 2 C_4\right)}
10.490 INVALID-ORDER-490 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                       H(s) = \frac{-C_1C_4C_5L_1L_4s^5 + C_1C_4L_1L_4g_ms^4 - C_5s + g_m + s^3\left(-C_1C_5L_1 - C_4C_5L_4\right) + s^2\left(C_1L_1g_m + C_4L_4g_m\right)}{2C_1C_4C_5L_1L_4g_ms^5 + s^4\left(2C_1C_4C_5L_1 + C_1C_4C_5L_4\right) + s^3\left(2C_1C_4L_1g_m + 2C_1C_5L_1g_m + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}
10.491 INVALID-ORDER-491 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                -C_{1}C_{4}C_{5}L_{1}L_{4}R_{5}s^{5}-C_{5}R_{5}s+R_{5}g_{m}+s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{5}g_{m}-C_{1}C_{4}L_{1}L_{4}\right)+s^{3}\left(-C_{1}C_{5}L_{1}R_{5}-C_{4}C_{5}L_{4}R_{5}\right)+s^{2}\left(C_{1}L_{1}R_{5}g_{m}-C_{1}L_{1}+C_{4}L_{4}R_{5}g_{m}-C_{4}L_{4}\right)-1
-C_{1}C_{4}C_{5}L_{1}L_{4}R_{5}g_{m}+s^{4}\left(2C_{1}C_{4}C_{5}L_{1}R_{5}+C_{1}C_{4}C_{5}L_{4}R_{5}+C_{1}C_{4}L_{1}L_{4}g_{m}\right)+s^{3}\left(2C_{1}C_{4}L_{1}L_{4}R_{5}g_{m}+2C_{1}C_{4}L_{1}+C_{1}C_{4}L_{4}+2C_{1}C_{5}L_{1}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}+C_{1}C_{5}R_{5}+2C_{1}L_{1}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}L_{4}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}\right)+s\left(C_{1}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}C_{5}R_{5}+2C_{4}R_{5}g_{m}+2C_{4}R_{5}g_{m}+2C_{4}R_{5}g_{m}+2C_{4}R_{5}g_{m}+2C_{4}R_{5}g_{m}+2C_{4}R_{5}g_{m}+2C_{4}
10.492 INVALID-ORDER-492 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                H(s) = \frac{C_1C_4L_1L_4g_ms^4 + g_m + s^5\left(C_1C_4C_5L_1L_4R_5g_m - C_1C_4C_5L_1L_4\right) + s^3\left(C_1C_5L_1R_5g_m - C_1C_5L_1 + C_4C_5L_4R_5g_m - C_4C_5L_4\right) + s^2\left(C_1L_1g_m + C_4L_4g_m\right) + s\left(C_5R_5g_m - C_5\right)}{2C_1C_4C_5L_1L_4g_ms^5 + s^4\left(2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_4\right) + s^3\left(2C_1C_4C_5R_5 + 2C_1C_4L_1g_m + 2C_1C_5L_1g_m + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_5g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}
10.493 INVALID-ORDER-493 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                            H(s) = \frac{C_1C_4C_5L_1L_4L_5g_ms^6 - C_1C_4C_5L_1L_4s^5 - C_5s + g_m + s^4\left(C_1C_4L_1L_4g_m + C_1C_5L_1L_5g_m + C_4C_5L_4L_5g_m\right) + s^3\left(-C_1C_5L_1 - C_4C_5L_4\right) + s^2\left(C_1L_1g_m + C_4L_4g_m + C_5L_5g_m\right)}{s^5\left(2C_1C_4C_5L_1L_4g_m + 2C_1C_4C_5L_1 + C_1C_4C_5L_4 + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4L_1g_m + 2C_1C_5L_1g_m + 2C_4C_5L_4g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}
10.494 INVALID-ORDER-494 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_1C_4C_5L_1L_4L_5s^6 + C_1C_4L_1L_4L_5g_ms^5 + L_5g_ms + s^4\left(-C_1C_4L_1L_4 - C_1C_5L_1L_5 - C_4C_5L_4L_5\right) + s^3\left(C_1L_1L_5g_m + C_4L_4L_5g_m\right) + s^2\left(-C_1L_1 - C_4L_4 - C_5L_5\right) - 1}{2C_1C_4C_5L_1L_4L_5g_ms^6 + 2g_m + s^5\left(2C_1C_4C_5L_1L_5 + C_1C_4C_5L_4L_5\right) + s^4\left(2C_1C_4L_1L_4g_m + 2C_1C_4L_1L_5g_m + 2C_4C_5L_4L_5g_m\right) + s^3\left(2C_1C_4L_1 + C_1C_4L_4 + 2C_1C_4L_5 + C_1C_5L_5\right) + s^2\left(2C_1L_1g_m + 2C_4L_4g_m + 2C_4L_5g_m\right) + s^2\left(2C_1L_1g_m +
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10.495 INVALID-ORDER-495
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_4C_5L_1L_4L_5g_ms^6 + g_m + s^5\left(C_1C_4C_5L_1L_4R_5g_m - C_1C_4C_5L_1L_4\right) + s^4\left(C_1C_4L_1L_4g_m + C_1C_5L_1L_5g_m + C_4C_5L_4L_5g_m\right) + s^3\left(C_1C_5L_1R_5g_m - C_1C_5L_1 + C_4C_5L_4R_5g_m - C_4C_5L_4\right) + s^2\left(C_1L_1g_m + C_4L_4g_m + C_5L_5g_m\right) + s\left(C_5R_5g_m - C_5\right)}{s^5\left(2C_1C_4C_5L_1L_4g_m + 2C_1C_4C_5L_1L_5g_m\right) + s^4\left(2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1 + C_4C_5L_4 + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4C_5R_5 + 2C_1C_4L_1g_m + 2C_4C_5L_4g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_5g_m + 2C_4C_5\right) + s^2\left(2C_1C_4C_5L_1R_5g_m + 2C_4C_5L_4g_m + 2C_4C_5L_4g_m + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4 + C_1C_5 + 2C_4C_5R_5g_m + 2C_4C_5\right) + s^2\left(2C_1C_4C_5L_1R_5g_m + 2C_4C_5L_4g_m + 2C_4C_5L_4g_m + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4C_5L_1R_5g_m + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4C_5L_4G_5L_$$

10.496 INVALID-ORDER-496
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_5g_m - C_1C_4L_1L_4L_5}{2C_1C_4C_5L_1L_4E_5g_ms^6 + 2R_5g_ms^6 + 2R_5g_ms^6 + 2R_5g_ms^6 + 2R_5g_ms^6 + 2R_5g_ms^6 + 2R_5g_ms^6 + 2C_1C_4L_1L_5R_5g_m - C_1L_1L_5R_5g_m - C_1L_1L_$$

10.497 INVALID-ORDER-497
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{C_1C_4L_1L_4L_5g_ms^5 + L_5g_ms + R_5g_m + s^6\left(C_1C_4C_5L_1L_4L_5R_5g_m - C_1C_4L_1L_4 + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5 + C_4C_5L_4L_5R_5g_m - C_4C_5L_4L_5\right) + s^3\left(C_1L_1L_5g_m + C_4L_4L_5g_m\right) + s^3\left(C_1L_4L_5g_ms^6 + 2g_m + s^5\left(2C_1C_4C_5L_1L_5R_5g_m + 2C_1C_4C_5L_4L_5\right) + s^4\left(2C_1C_4C_5L_5R_5 + 2C_1C_4L_1L_4g_m + 2C_1C_4L_1L_5g_m\right) + s^3\left(2C_1C_4L_1R_5g_m + 2C_1C_4L_1R_5g_m + 2C_1C_4L_1R_5g_m\right) + s^3\left(2C_1C_4L_1R_5g_m + 2C_1C_4L_1R_5g_m + 2C_1C_4L_1R_5g_m\right) + s^3\left(2C_1C_4L_1R_5g_m + 2C_1C_4L_1R_5g_m\right) + s^3\left(2C_1C_4L_1R_5g_m\right) + s^3\left(2C_1C_4L_1R_5$$

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10.498 INVALID-ORDER-498 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_1C_4C_5L_1L_4R_5s^5 - C_5R_5s + R_5g_m + s^6\left(C_1C_4C_5L_1L_4L_5R_5g_m - C_1C_4C_5L_1L_4R_5g_m - C_1C_4L_1L_4 + C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5 + C_4C_5L_4L_5R_5g_m - C_1C_4L_5R_5g_m - C_1C_4R_5R_5g_m - C_1C_4R_5
10.499 INVALID-ORDER-499 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                                         H(s) = \frac{s^3 \left( C_1 L_1 L_4 R_5 g_m - C_1 L_1 L_4 \right) + s \left( L_4 R_5 g_m - L_4 \right)}{2 R_5 g_m + s^4 \left( 2 C_1 C_4 L_1 L_4 R_5 g_m + 2 C_1 C_4 L_1 L_4 \right) + s^3 \left( 2 C_1 C_4 L_4 R_5 + 2 C_1 L_1 L_4 g_m \right) + s^2 \left( 2 C_1 L_1 R_5 g_m + 2 C_1 L_1 + C_1 L_4 + 2 C_4 L_4 R_5 g_m + 2 C_4 L_4 \right) + s \left( 2 C_1 R_5 + 2 L_4 g_m \right) + 2 C_1 L_4 R_5 g_m + 2 C_1 L_4 R_5 g_m + 2 C_1 L_4 R_5 g_m + 2 C_2 L_4 R_5 g_m + 2 C_3 L_4 R_5 g_m + 2 C_4 
10.500 INVALID-ORDER-500 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                             H(s) = \frac{-C_1C_5L_1L_4s^4 + C_1L_1L_4g_ms^3 - C_5L_4s^2 + L_4g_ms}{2C_1C_4C_5L_1L_4s^5 + 2g_m + s^4\left(2C_1C_4L_1L_4g_m + 2C_1C_5L_1L_4g_m\right) + s^3\left(2C_1C_4L_4 + 2C_1C_5L_1 + C_1C_5L_4 + 2C_4C_5L_4\right) + s^2\left(2C_1L_1g_m + 2C_4L_4g_m + 2C_5L_4g_m\right) + s\left(2C_1 + 2C_5\right)}
10.501 INVALID-ORDER-501 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_1C_5L_1L_4R_5s^4 - C_5L_4R_5s^2 + s^3\left(C_1L_1L_4R_5g_m - C_1L_1L_4\right) + s\left(L_4R_5g_m - L_4\right)}{2C_1C_4C_5L_1L_4R_5s^5 + 2R_5g_m + s^4\left(2C_1C_4L_1L_4R_5g_m + 2C_1C_5L_1L_4R_5g_m\right) + s^3\left(2C_1C_4L_4R_5 + 2C_1C_5L_1R_5 + C_1C_5L_4R_5\right) + s^2\left(2C_1L_1R_5g_m + 2C_1L_1 + C_1L_4 + 2C_4L_4R_5g_m + 2C_4L_4 + 2C_5L_4R_5g_m\right) + s\left(2C_1R_5 + 2C_5L_4R_5g_m + 2C_4L_4R_5g_m\right) + s\left(2C_1R_5 + 2C_5L_4R_5g_m + 2C_4L_4R_5g_m\right) + s\left(2C_1R_5 + 2C_5L_4R_5g_m + 2C_4L_4R_5g_m\right) + s\left(2C_1R_5 + 2C_5L_4R_5g_m\right) + s\left(2C_1R_5 + 2C_5L_4
10.502 INVALID-ORDER-502 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_1L_1L_4g_ms^3 + L_4g_ms + s^4\left(C_1C_5L_1L_4R_5g_m - C_1C_5L_1L_4\right) + s^2\left(C_5L_4R_5g_m - C_5L_4\right)}{2g_m + s^5\left(2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_1L_4\right) + s^4\left(2C_1C_4C_5L_4R_5 + 2C_1C_4L_4L_4g_m + 2C_1C_5L_1R_5g_m + 2C_1C_5L_1 + C_1C_5L_4 + 2C_4C_5L_4\right) + s^2\left(2C_1C_5R_5 + 2C_1L_4g_m + 2C_4L_4g_m + 2C_5L_4g_m\right) + s\left(2C_1C_4C_5L_4R_5g_m + 2C_4C_5L_4\right) + s^2\left(2C_4C_5L_4R_5g_m + 2C_4C_5L_4\right) 
10.503 INVALID-ORDER-503 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_1C_5L_1L_4L_5g_ms^5 - C_1C_5L_1L_4s^4 - C_5L_4s^2 + L_4g_ms + s^3\left(C_1L_1L_4g_m + C_5L_4L_5g_m\right)}{2C_1C_4C_5L_1L_4L_5g_ms^6 + 2g_m + s^5\left(2C_1C_4C_5L_1L_4 + 2C_1C_4C_5L_4L_5\right) + s^4\left(2C_1C_4L_1L_4g_m + 2C_1C_5L_1L_5g_m\right) + s^3\left(2C_1C_4L_4 + 2C_1C_5L_4 + 2C_1C_5L_5 + 2C_4C_5L_4\right) + s^2\left(2C_1L_1g_m + 2C_4L_4g_m + 2C_5L_5g_m\right) + s^3\left(2C_1C_4L_4 + 2C_1C_5L_4 + 2C_1C_5L_4 + 2C_1C_5L_4\right) + s^2\left(2C_1L_1g_m + 2C_4L_4g_m + 2C_5L_4g_m\right) + s^2\left(2C_1L_1g_m + 2C_4L_4g_m\right) + s^2\left(2C_1L_1g_m 
10.504 INVALID-ORDER-504 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_1C_5L_1L_4L_5s^5 + C_1L_1L_4L_5g_ms^4 + L_4L_5g_ms^2 - L_4s + s^3\left(-C_1L_1L_4 - C_5L_4L_5\right)}{2C_1C_4C_5L_1L_4L_5s^6 + s^5\left(2C_1C_4L_1L_4L_5g_m + 2C_1C_5L_1L_4L_5g_m\right) + s^4\left(2C_1C_4L_1L_4 + 2C_1C_4L_4L_5 + 2C_4C_5L_4L_5\right) + s^3\left(2C_1L_1L_4g_m + 2C_1L_1L_5g_m + 2C_4L_4L_5g_m\right) + s^2\left(2C_1L_1 + C_1L_4 + 2C_4L_4 + 2C_5L_5\right) + s\left(2C_4C_5L_4L_5\right) + s^3\left(2C_4C_5L_4L_5g_m + 2C_4L_4L_5g_m + 2C_4L_4L_5g_m\right) + s^2\left(2C_4L_4L_5g_m + 2C_4L_5L_5g_m\right) + s^2\left(2C_4L_5L_5g_m + 2C_4L_5L_5g_m\right) + s^2\left(2C_4L_5L_5g_m + 2C_4L_5L_5g_m\right) + s^2\left(2C_4L_5L_5g_m + 2C_5L_5L
10.505 INVALID-ORDER-505 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                \frac{C_{1}C_{5}L_{1}L_{4}L_{5}g_{m}s^{5}+L_{4}g_{m}s+s^{4}\left(C_{1}C_{5}L_{1}L_{4}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{4}\right)+s^{3}\left(C_{1}L_{1}L_{4}g_{m}+C_{5}L_{4}L_{5}g_{m}\right)+s^{2}\left(C_{5}L_{4}R_{5}g_{m}-C_{5}L_{4}\right)}{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}g_{m}s^{6}+2g_{m}+s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}+2C_{1}C_{4}L_{5}L_{4}L_{5}\right)+s^{4}\left(2C_{1}C_{4}C_{5}L_{4}L_{5}+2C_{1}C_{5}L_{1}L_{4}g_{m}+2C_{1}C_{5}L_{1}L_{5}g_{m}+2C_{1}C_{5}L_{1}L_{4}+2C_{1}C_{5}L_{4}+2C_{1}C_{5}L_{4}+2C_{1}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+2C_{4}C_{5}L_{5}L_{5}+
10.506 INVALID-ORDER-506 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            H(s) = \frac{-C_1C_5L_1L_4L_5R_5s^5 - L_4R_5s + s^5 \left(C_1L_1L_4L_5R_5g_m - C_1L_1L_4L_5\right) + s^5 \left(-C_1L_1L_4R_5 - C_5L_4L_5R_5\right) + s^5 \left(-C_1L_4L_5R_5 - C_5L_4L_5R_5\right) + s^5 \left(
10.507 INVALID-ORDER-507 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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 $\frac{1}{2R_5g_m + s^6 \left(2C_1C_4C_5L_1L_4L_5R_5g_m + 2C_1C_4L_5L_4L_5\right) + s^5 \left(2C_1C_4C_5L_4L_5R_5 + 2C_1C_4L_4L_5g_m + 2C_1C_5L_4L_5R_5g_m + 2C_1C_5L_5L_5R_5g_m + 2C_1C_5L_5L_5R_5g_m + 2C_1C_5L_5R_5g_m + 2C_1C_5R_5g_m + 2C_1C$

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10.508 INVALID-ORDER-508 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^3 + 1}, \frac{R_5(C_5 L_5 s^2 + 1)}{C_5 I_5 c^3 I_5 c^3 I_5 C_5 R_5 s^4 + 1}, \infty\right)
-C_1 C_5 L_1 L_4 R_5 s^4 - C_5 L_4 R_5 s^2 + s^5 (C_1 C_5 L_1 L_4 L_5 R_5 g_m - C_1 C_5 L_1 L_4 L_5) + s^2 (C_1 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 L_5) + s^3 (C_1 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_5 g_m + 2 C_1 L_5 R_5 g_m + 2 C_1
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10.511 INVALID-ORDER-511 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_4C_5L_1L_4R_5s^5 + R_5g_m + s^4\left(-C_1C_4C_5L_1R_4R_5 + C_1C_4L_1L_4R_5g_m - C_1C_4L_1R_4 + s^3\left(C_1C_4L_1R_4R_5g_m - C_1C_4L_1R_4 - C_1C_5L_1R_5 - C_4C_5L_4R_5\right) + s^2\left(C_1L_1R_5g_m - C_1L_1 - C_4C_5R_4R_5 + C_4L_4R_5g_m - C_4C_5L_4R_5\right)}{2C_1C_4C_5L_1L_4R_5g_m + s^4\left(2C_1C_4C_5L_1R_4R_5g_m + 2C_1C_4L_1L_4g_m\right) + s^3\left(C_1C_4C_5R_4R_5 + 2C_1C_4L_1R_4g_m + 2C_1C_4L_1R_5g_m + 2C_4C_5L_4R_5g_m\right) + s^2\left(C_1C_4R_4R_5g_m + 2C_4C_5L_4R_5g_m\right) + s^2\left(C_1C_4R_4R_5g_m + 2C_4C_5L_4R_5g_m\right) + s^2\left(C_4R_5g_m + 2C_4C_5$$

10.512 INVALID-ORDER-512 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

10.513 INVALID-ORDER-513 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_4C_5L_1L_4L_5g_ms^6 + g_m + s^5\left(-C_1C_4C_5L_1L_4 + C_1C_4C_5L_1L_5R_4g_m\right) + s^4\left(-C_1C_4C_5L_1R_4 + C_1C_4L_1L_4g_m + C_1C_5L_1L_5g_m + C_4C_5L_4L_5g_m\right) + s^3\left(C_1C_4L_1R_4g_m - C_1C_5L_1 - C_4C_5L_4 + C_4C_5L_4R_4g_m\right) + s^2\left(C_1L_1g_m - C_4C_5R_4 + C_4L_4g_m + C_5L_5g_m\right) + s\left(C_4R_4C_5L_4R_4g_m + C_4C_5L_4R_4g_m + C_4C_5L_4R_4g_m\right) + s^2\left(C_4R_4C_5L_4R_4g_m + C_4C_5L_4R_4g_m\right) + s^2\left(C_4R_4R_4G_4R_4G_4R_4G_4R_4G_4R_4G_4R_4G_4R_4G_4R_4G_4R_4G_4R_4G_4R_4G_4R_4$$

10.514 INVALID-ORDER-514 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{-C_1C_4C_5L_1L_4L_5s^6 + s^5 \left(-C_1C_4C_5L_1L_5R_4 + C_1C_4L_1L_4E_5g_m\right) + s^4 \left(-C_1C_4L_1L_4 + C_1C_4L_1L_5R_4g_m - C_1C_5L_1L_5 - C_4C_5L_4L_5\right) + s^3 \left(-C_1C_4L_1R_4 + C_1L_1L_5g_m - C_4C_5L_5R_4 + C_4L_4L_5g_m\right) + s^2 \left(-C_1L_1C_4C_5L_4L_5g_m + s^5 \left(2C_1C_4C_5L_4L_5g_m + s^5 \left(2C_1C_4C_5L_4L_5g_m + s^5 \left(2C_1C_4L_5R_4g_m - C_4C_5L_4L_5g_m\right) + s^3 \left(2C_1C_4L_1R_4g_m + 2C_1C_4L_1 + C_4C_4L_4 + 2C_1C_4L_5g_m\right) + s^4 \left(-C_1C_4L_5g_m + s^5 \left(2C_1C_4L_5g_m + s^5 c_1C_4G_5g_m + s^$$

10.515 INVALID-ORDER-515 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

$$H(s) = \frac{C_1C_4C_5L_1L_4L_5g_ms^6 + g_m + s^5\left(C_1C_4C_5L_1L_4R_5g_m - C_1C_4C_5L_1L_4 + C_1C_4C_5L_1L_5R_4g_m\right) + s^4\left(C_1C_4C_5L_1R_4R_5g_m - C_1C_4C_5L_1R_4 + C_1C_4L_1L_4g_m + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_4L_1R_4g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_4C_5L_4R_5g_m - C_4C_5L_4 + C_4C_5L_4R_5g_m\right) + s^4\left(C_1C_4C_5L_1L_4g_m + 2C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5L_1R_4g_m\right) + s^4\left(C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5L_1$$

10.516 INVALID-ORDER-516 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

$$H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_5s^6 - R_5 + s^5\left(-C_1C_4C_5L_1L_5R_4R_5 + C_1C_4L_1L_4L_5\right) + s^4\left(-C_1C_4L_1L_4R_5 + C_1C_4L_1L_5R_4R_5g_m - C_1C_4L_1L_5R_4R_5g_m - C_1C_4L_1L_5R_4R_5g_m - C_1C_4L_1L_5R_4R_5g_m - C_1C_4L_1L_5R_4g_m + s^4\left(-C_1C_4L_1L_4R_5g_m + s^4\left(-C_1C_4L_1L_4R_5g_m + s^4\left(-C_1C_4L_1L_4R_5g_m + s^4\left(-C_1C_4L_1L_4R_5g_m + s^4\left(-C_1C_4L_1L_5R_4g_m + s^4\left(-C_1C_4L_1L_5R_5g_m + s^4c_1C_4L_1L_5R_5g_m + s^4c_1C$$

10.517 INVALID-ORDER-517 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

$$H(s) = \frac{R_5 g_m + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_5 g_m - C_1 C_4 C_5 L_1 L_4 L_5 \right) + s^5 \left(C_1 C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_4 C_5 L_1 L_5 R_4 + C_1 C_4 L_1 L_4 R_5 g_m - C_1 C_4 L_1 L_4 R_5 g_m - C_1 C_4 L_1 L_5 R_5 g_m - C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_5 L_4 L_5 \right) + s^3 \left(C_1 C_4 L_5 L_4 L_5 R_5 g_m - C_4 C_5 L_4 L$$

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10.518 INVALID-ORDER-518 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.519 INVALID-ORDER-519 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)
H(s) = \frac{s^3 \left( C_1 L_1 L_4 R_4 R_5 g_m - C_1 L_1 L_4 R_4 \right) + s \left( L_4 R_4 R_5 g_m - L_4 R_4 \right)}{2 R_4 R_5 g_m + 2 R_4 + s^4 \left( 2 C_1 C_4 L_1 L_4 R_4 R_5 g_m + 2 C_1 L_1 L_4 R_4 g_m + 2 C_1 L_1 L_4 R_5 g_m + 2 C_1 L_1 L_4 \right) + s^2 \left( 2 C_1 L_1 R_4 R_5 g_m + 2 C_1 L_1 R_4 + C_1 L_4 R_5 g_m + 2 C_4 L_4 R_4 \right) + s \left( 2 C_1 R_4 R_5 + 2 L_4 R_4 g_m + 2 L_4 R_5 g_m + 2 C_4 L_4 R_4 \right) + s \left( 2 C_1 R_4 R_5 g_m + 2 C_4 L_4 R_4 R_5 g_m + 2 C_4 L_4 R_4 \right) + s \left( 2 C_1 R_4 R_5 g_m + 2 C_4 L_4 R_4 R_5 g_m + 2 C_4 L_4 R_4 \right) + s \left( 2 C_1 R_4 R_5 g_m + 2 C_4 L_4 R_4 R_5 g_m + 2 C_4 L_4 R_4 \right) + s \left( 2 C_1 R_4 R_5 g_m + 2 C_4 L_4 R_5 g
10.520 INVALID-ORDER-520 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{-C_1C_5L_1L_4R_4s^4 + C_1L_1L_4R_4g_ms^3 - C_5L_4R_4s^2 + L_4R_4g_ms}{2C_1C_4L_5L_1L_4R_4s^5 + 2R_4g_m + s^4\left(2C_1C_4L_1L_4R_4g_m + 2C_1C_5L_1L_4\right) + s^3\left(2C_1C_4L_4R_4 + 2C_1C_5L_1R_4 + C_1C_5L_4R_4\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_4 + 2C_4L_4R_4g_m + 2C_5L_4\right) + s\left(2C_1R_4 + 2C_5R_4 + 2C_5R_4\right) + s\left(2C_1R_4 + 2C_5R_4 + 2C_5R_4\right) + s\left(2C_1R_4 + 2C_1R_4\right) + s\left
10.521 INVALID-ORDER-521 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -C_{1}C_{5}L_{1}L_{4}R_{4}R_{5}s^{4}-C_{5}L_{4}R_{4}R_{5}s^{2}+s^{3}\left(C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}\right)+s\left(L_{4}R_{4}R_{5}g_{m}-L_{4}R_{4}R_{5}g_{m}-L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{4}R_{5}g_{m}-C_{1}L_{1}L_{1}R_{2}g_{m}-C_{1}L_{1}L_{1}R_{2}g_{m}-C_{1}L_{1}L_{1}R_{2}g_{m}-C_{1}L_{1}L_{1}R_{2}g_{m}-C_{1}L_{1}L_{1}R_{2}g_{m}-C_{1}L_{1}L_{1}R_{2}g_{m}-C_{1}L_{
                                  10.522 INVALID-ORDER-522 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       H(s) = \frac{C_1L_1L_4R_4g_ms^s + L_4R_4g_ms + s^s \cdot (C_1C_5L_1L_4R_4R_5g_m - C_1C_5L_1L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m - C_1C_5L_1L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m - C_1C_5L_1L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m + 2C_1C_5L_1L_4R_4g_m + 2C_1C_5L_1L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m + 2C_1C_5L_1L_4R_4g_m + 2C_1C_5L_1L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m - C_1C_5L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m + 2C_1C_5L_4R_4 + 2C_1C_5L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m - C_1C_5L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m - C_1C_5L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m + 2C_1C_5L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m + 2C_5L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m + 2C_5L_4R_4) + s^s \cdot (C_5L_4R_4R_5g_m + 2C_5L_4R_4) + s^s
10.523 INVALID-ORDER-523 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_1C_5L_1L_4L_5R_4g_ms^5 - C_1C_5L_1L_4R_4s^4 - C_5L_4R_4s^2 + L_4R_4g_ms + s^3(C_1L_1L_4R_4g_m + C_5L_4R_4g_m)
                                  \frac{C_1C_5L_1L_4L_5R_4g_ms^5 - C_1C_5L_1L_4R_4s - C_5L_4R_4s + L_4R_4g_ms + s^5 (C_1L_1L_4R_4g_m + C_5L_4R_4s + L_4R_4g_ms + s^5 (C_1L_4L_4R_4g_m + C_5L_4L_5R_4g_m + S_5)}{2C_1C_4C_5L_1L_4L_5R_4g_m + S_5(2C_1C_4L_5L_4L_5R_4g_m + S_5(2C_1C_4L_5L_4R_4g_m + S_5(2C_1C_4L_4L_4R_4g_m + S_5(2C_1C_4L_4L_4R_4g_m + S_5(2C_1C_4L_4R_4g_m + S_5(2C_1C_4C_4R_4R_4g_m + S_5(2C_1C_4C_4R_4R_4g_m + S_5(2C_1C_4C_4R_4R_4g_m + S_5(2C_1C_4C_4R_4R_4g_m + S_5(2C_1C_4C_4R_4R_4g_m + S_5(2C_1C_4C_4R_4R_4g_m + S_5(2C_1C_4C_4R_4R_
10.524 INVALID-ORDER-524 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_1C_5L_1L_4L_5R_4s^5 + C_1L_1L_4L_5R_4g_ms^4 + L_4L_5R_4g_ms^2 - L_4R_4s + s^3\left(-C_1L_1L_4R_4 - C_5L_4L_5R_4g_ms^2 - L_4R_4s + s^3\left(-C_1L_1L_4R_4 - C_5L_4L_5R_4g_ms^2 - L_4R_4s + s^3\left(-C_1L_1L_4R_4 - C_5L_4L_5R_4s^6 + 2R_4 + s^5\left(2C_1C_4L_1L_4L_5R_4g_m + 2C_1C_5L_1L_4R_4 + 2C_1C_4L_4L_5R_4 + 2C_1C_4L_5L_5R_4 + 2C_1C_4L_5L_5R_4 + 2C_1C_4L_5L_5R_4 + 2C_1C_4L_5L_5R_4 + 2C_1C_4L_5L_5R_4 + 2C_1C_4L_5L
10.525 INVALID-ORDER-525 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_1C_5L_1L_4L_5R_4g_ms^5 + L_4R_4g_m
                                  10.526 INVALID-ORDER-526 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
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 $\frac{1}{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5}s^{6} + 2R_{4}R_{5} + s^{5}\left(2C_{1}C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{4}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{5}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5} + 2C_{1}C_{4}L_{1}L_{4}L_{5}R_{4}R_{5} + 2C_{1}C_{4}L_{4}L_{5}R_{4}R_{5} + 2C_{1}C_{4}L_{4}L_{5}R_{4}R$

10.527 INVALID-ORDER-527 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

10.531 INVALID-ORDER-531
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_4R_5s^5 + R_4R_5g_m - R_4 + s^4\left(C_1C_4L_1L_4R_4g_m - C_1C_5L_1L_4R_5\right) + s^3\left(-C_1C_5L_1R_4R_5 + C_1L_1L_4R_5g_m - C_1L_1L_4 - C_4C_5L_1L_4R_5g_m - C_4L_4R_5g_m - C_4L_4R_5g_m + 2C_4C_5L_4R_5g_m + 2C_4C_5L_4R_5g$

10.532 INVALID-ORDER-532
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_4 g_m + s^5 \left(C_1 C_4 C_5 L_1 L_4 R_4 g_m + C_1 C_5 L_1 L_4 R_5 g_m - C_1 C_5 L_1 L_4 \right) + s^4 \left(C_1 C_4 L_1 L_4 R_5 g_m - C_1 C_5 L_1 L_4 \right) + s^3 \left(C_1 C_5 L_1 R_4 R_5 g_m - C_1 C_5 L_1 R_4 + C_1 L_1 L_4 g_m + C_4 C_5 L_4 R_4 R_5 g_m - C_4 C_5 L_4 R_4 \right) + s^2 \left(C_1 L_1 R_4 g_m + C_4 C_5 L_4 R_4 R_5 g_m - C_4 C_5 L_4 R_4 R_5 g_m - C_4 C_5 L_4 R_4 \right) + s^2 \left(C_1 L_1 R_4 g_m + C_4 C_5 L_4 R_4 R_5 g_m - C_4 C_5 L_4 R$

10.533 INVALID-ORDER-533
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_4g_ms^6 + R_4g_m + s^5\left(-C_1C_4C_5L_1L_4R_4 + C_1C_5L_1L_4R_4g_m - C_1C_5L_1L_4 + C_1C_5L_1L_5R_4g_m + C_4C_5L_4L_5R_4g_m\right) + s^3\left(-C_1C_5L_1R_4 + C_1L_1L_4g_m - C_4C_5L_4R_4 + C_5L_4L_5g_m\right) + s^2\left(-C_1C_5L_1L_4R_4g_m + S^5\left(-C_1C_4C_5L_4R_4 + C_1C_5L_4R_4 +$

10.534 INVALID-ORDER-534
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_4s^6 - R_4 + s^5\left(C_1C_4L_1L_4L_5R_4g_m - C_1C_5L_1L_4R_4 - C_1C_5L_1L_5R_4 + C_1L_1L_4L_5g_m - C_4C_5L_4L_5R_4\right) + s^3\left(-C_1L_1L_4L_5R_4g_m - C_1C_5L_1L_4L_5R_4g_m + 2C_1C_5L_1L_4L_5R_4g_m + 2C_1C_5L_1L_4L_5g_m\right) + s^4\left(2C_1C_4L_1L_4R_4g_m + 2C_1C_4L_4L_5R_4g_m + 2C_1C_5L_4L_5 + 2C_1C_5L_4L_5 + 2C_4C_5L_4L_5 + 2C_4C_5L_4L_5 + 2C_4C_5L_4L_5\right) + s^4\left(-C_1C_4L_4L_4R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_$

10.535 INVALID-ORDER-535
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_4g_ms^6 + R_4g_m + s^5\left(C_1C_4C_5L_1L_4R_4g_m - C_1C_4C_5L_1L_4R_4g_m + C_1C_5L_1L_4R_5g_m - C_1C_5L_1L_$

10.536 INVALID-ORDER-536
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_4R_5s^6 - R_4R_5 + s^5\left(C_1C_4L_1L_4L_5R_4R_5g_m - C_1C_4L_1L_4L_5R_4 - C_1C_4L_1L_4L_5R_4g_m + 2C_1C_4L_1L_4L_5R_5g_m + 2C_1C_4L_4L_5R_5g_m + 2C_1C_4L_4L_5R_5g_m + 2C_1C_4L_5L_5R_5g_m + 2C_1$

10.537 INVALID-ORDER-537
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

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10.538 INVALID-ORDER-538 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R_4R_5g_m - R_4 + s^6\left(C_1C_4C_5L_1L_4L_5R_4R_5g_m - C_1C_4C_5L_1L_4L_5R_4\right) + s^5\left(-C_1C_4C_5L_1L_4R_4R_5 + c_1C_4C_5L_1L_4C_5R_4\right) + s^6\left(-C_1C_4C_5L_1L_4L_5R_4R_5g_m - C_1C_4C_5L_1L_4L_5R_4\right) + s^6\left(-C_1C_4C_5L_1L_4R_5R_4R_5g_m - C_1C_4C_5L_1L_4L_5R_4\right) + s^6\left(-C_1C_4C_5L_1L_4R_5R_4R_5g_m - C_1C_4C_5L_1L_4L_5R_4\right) + s^6\left(-C_1C_4C_5L_1L_4R_5R_4R_5g_m - C_1C_4C_5L_1L_4L_5R_4\right) + s^6\left(-C_1C_4C_5L_1L_4R_5R_5g_m - C_1C_4C_5L_5L_5R_4\right) + s^6\left(-C_1C_4C_5L_5L_5R_5R_5g_m - C_1C_4C_5L_5R_5R_5g_m - C_1C_4C_5R_5R_5R_5g_m - C_1C_4C_5R_5R_5g_m - C_1C_5R_5R_5g_m - C_1C_5R_5g_m - C_1C_5R_5g_m
10.539 INVALID-ORDER-539 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)
H(s) = \frac{R_4 R_5 g_m - R_4 + s^4 \left(C_1 C_4 L_1 L_4 R_4 g_m - C_1 C_4 L_1 L_4 R_5 g_m - C_1 L_1 R_4 + C_4 L_4 R_4 g_m - C_4 L_4 R_4 \right)}{2 R_4 g_m + 2 R_5 g_m + s^4 \left(2 C_1 C_4 L_1 L_4 R_5 g_m + 2 C_1 C_4 L_1 L_4 \right) + s^3 \left(2 C_1 C_4 L_1 R_4 R_5 g_m + 2 C_1 C_4 L_1 R_4 + C_1 C_4 L_4 R_5 \right) + s^2 \left(2 C_1 C_4 R_4 R_5 + 2 C_1 L_1 R_4 g_m + 2 C_1 L_1 R_5 g_m + 2 C_4 L_4 R_5 g_m + 2 C_4 L
10.540 INVALID-ORDER-540 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{-C_1C_4C_5L_1L_4R_4s^5 + C_1C_4L_1L_4R_4g_ms^4 - C_5R_4s + R_4g_m + s^3\left(-C_1C_5L_1R_4 - C_4C_5L_4R_4\right) + s^2\left(C_1L_1R_4g_m + C_4L_4R_4g_m\right)}{2g_m + s^5\left(2C_1C_4C_5L_1L_4R_4g_m + 2C_1C_4L_4\right) + s^4\left(2C_1C_4C_5L_1R_4 + C_1C_4C_5L_4R_4 + 2C_1C_4L_1L_4g_m\right) + s^3\left(2C_1C_4L_1R_4g_m + 2C_1C_5L_1R_4g_m + 2C_4C_5L_4\right) + s^2\left(2C_1C_4R_4 + C_1C_5R_4 + 2C_1L_1g_m + 2C_4C_5R_4 + 2C_4C_5R_4\right) + s^2\left(2C_1C_4R_4 + C_4C_5L_4R_4g_m + 2C_4C_5L_4R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_5L_4R_4g_m + 2C_4C_5L_4R_4g_m\right) + s^2\left(2C_4C_5L_4R_4g_m + 2C_4C_5L_4R_4g_m + 2C_4C_5L_4R_4g_m\right) + s^2\left(2C_4C_5L_4R_4g_m + 2C_4C_5L_4R_4g_m + 2C_4C_5L_4R_4g_m\right) + s^2\left(2C_4C_5L_4R_4g_m + 2C_4C_5L_4R_4g_m\right) + s^2\left(2C_4C_5L_4R_4g_m\right) + s^2\left(2C_4C_5L_4
10.541 INVALID-ORDER-541 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
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 $\frac{- \cup_1 \cup_4 \cup_5 L_1 L_4 R_4 R_5 s^* - \cup_5 R_4 R_5 s^* + R_4 R_5 g_m - R_4 + s^* (\cup_1 \cup_4 L_1 L_4 R_4 R_5 g_m - \cup_1 \cup_4 L_1 L_4 R_4 R_5 + s^* (-\cup_2 R_4 R_5 g_m + 2 C_1 C_4 L_1 L_4 R_5 g_m + 2 C_1 C_4 L_1 L_4 R_5 g_m + 2 C_1 C_4 L_1 L_4 R_5 g_m + 2 C_1 C_4 L_1 R_4 R_5 g_m + 2 C_1 C$

10.542 INVALID-ORDER-542 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_4L_1L_4R_4g_ms^4 + R_4g_m + s^3\left(C_1C_4C_5L_1L_4R_4S_{g_m} - C_1C_4C_5L_1L_4R_4\right) + s^3\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_4C_5L_4R_4R_5g_m - C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_5g_m - C_1C_5$

10.543 INVALID-ORDER-543 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_4g_ms^6 - C_1C_4C_5L_1L_4R_4s^5 - C_5R_4s + R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_1C_5L_1L_5R_4g_m + C_4C_5L_4L_5R_4g_m\right) + s^3\left(C_1C_4C_5L_1L_4L_5g_ms^6 + 2g_m + s^5\left(2C_1C_4C_5L_1L_4R_4g_m + 2C_1C_4C_5L_4L_5\right) + s^4\left(2C_1C_4C_5L_4R_4 + 2C_1C_4C_5L_4R_4 + 2C_1C_4L_5L_4R_4g_m + 2C_4C_5L_4L_5g_m\right) + s^3\left(2C_1C_4L_4R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5g_m\right) + s^3\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^3\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^3$

10.544 INVALID-ORDER-544 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $-C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}s^{6}+C_{1}C_{4}L_{1}L_{4}L_{5}R_{4}g_{m}s^{5}+L_{5}R_{4}g_{m}s-R_{4}+s^{4}\left(-C_{1}C_{4}L_{1}L_{4}R_{4}-C_{1}C_{5}L_{1}L_{5}R_{4}-C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}+C_{1}C_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}L_{5}+C_{1}C_{5}L_{5}R_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}+C_{1}C_{5}L_{5}+C_{1}C_{5}+C_{$ $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_4g_ms^5 + L_5R_4g_ms^5 + L_5R_4g_m$

10.545 INVALID-ORDER-545 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $C_1C_4C_5L_1L_4L_5R_4g_ms^6 + R_4g_m + s^5\left(C_1C_4C_5L_1L_4R_4R_5g_m - C_1C_4C_5L_1L_4R_4\right) + s^4\left(C_1C_4C_5L_1L_4R_4\right)$ $\frac{C_1C_4C_5L_1L_4L_5R_4g_ms^6 + R_4g_m + s^3\left(C_1C_4C_5L_1L_4R_4R_5g_m - C_1C_4C_5L_1L_4R_4\right) + s^4\left(C_1C_4C_5L_1L_4L_5g_ms^6 + 2g_m + s^5\left(2C_1C_4C_5L_1L_4R_4g_m + 2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_4R_4 + 2C_1C_4C_5L_4R_5 + 2C_1C_4C_5L_4R_5 +$

10.546 INVALID-ORDER-546 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $\frac{1}{2R_{4}R_{5}g_{m}+2R_{5}+s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{5}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{5}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}+C_{1}C_{4}L_{1}L_{4}L_{5}R_{4}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{5}g_{m}+2C_{1}C_{4}L_{4}L_{5}R_{5}g_{m}+2C_{1}C_{4}L_{4}L_{5}R_{5}g_{m}+2C_{1}C_{4}L_{5}L_{5}R_{5}g_{m}+2C_{1}C_{4}L_{5}L_{5}R_{5}g_{m}+2C_{1}C_{4}L_{5}$

10.547 INVALID-ORDER-547
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{1}{2R_4g_m + 2R_5g_m + s^6\left(2C_1C_4C_5L_1L_4L_5R_4g_m + 2C_1C_4C_5L_1L_4L_5R_5g_m + 2C_1C_4C_5L_1L_5R_4R_5g_m + 2C_1C_4C_5L_1L_5R_4 + C_1C_4C_5L_4L_5R_5 + 2C_1C_4L_5L_4L_5R_6g_m + 2C_1C_4C_5L_4L_5R_4 + C_1C_4C_5L_4L_5R_4 + 2C_1C_4C_5L_4L_5R_5 + 2C_1C_4L_5L_4L_5R_6g_m + 2C_1C_4C_5L_4L_5R_6g_m + 2C_1C_4C_5L_5L_5R_6g_m + 2C_1C_4C_5L_5R_$

10.548 INVALID-ORDER-548
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.549 INVALID-ORDER-549
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_5 L_1 R_4 s^2 + L_1 R_4 g_m s}{C_1 C_5 L_1 R_4 s^3 + s^2 \left(2 C_1 L_1 + 2 C_5 L_1 R_4 g_m + 2 C_5 L_1\right) + s \left(C_5 R_4 + 2 L_1 g_m\right) + 2}$$

10.550 INVALID-ORDER-550
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_1R_4R_5s^2 + s\left(L_1R_4R_5g_m - L_1R_4\right)}{C_1C_5L_1R_4R_5s^3 + R_4 + 2R_5 + s^2\left(C_1L_1R_4 + 2C_1L_1R_5 + 2C_5L_1R_4R_5g_m + 2C_5L_1R_5\right) + s\left(C_5R_4R_5 + 2L_1R_4g_m + 2L_1R_5g_m + 2L_1\right)}$$

10.551 INVALID-ORDER-551
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_1 R_4 g_m s + s^2 \left(C_5 L_1 R_4 R_5 g_m - C_5 L_1 R_4 \right)}{s^3 \left(C_1 C_5 L_1 R_4 + 2 C_1 C_5 L_1 R_5 \right) + s^2 \left(2 C_1 L_1 + 2 C_5 L_1 R_4 q_m + 2 C_5 L_1 R_5 q_m + 2 C_5 L_1 \right) + s \left(C_5 R_4 + 2 C_5 R_5 + 2 L_1 q_m \right) + 2 C_5 L_1 R_5 q_m + 2 C_5 L_1$$

10.552 INVALID-ORDER-552
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

10.553 INVALID-ORDER-553
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_1L_5R_4s^3 + L_1L_5R_4g_ms^2 - L_1R_4s}{C_1C_5L_1L_5R_4s^4 + R_4 + s^3\left(2C_1L_1L_5 + 2C_5L_1L_5R_4g_m + 2C_5L_1L_5\right) + s^2\left(C_1L_1R_4 + C_5L_5R_4 + 2L_1L_5g_m\right) + s\left(2L_1R_4g_m + 2L_1 + 2L_5\right)}$$

10.554 INVALID-ORDER-554
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

10.555 INVALID-ORDER-555
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_5L_1L_5R_4R_5s^3 - L_1R_4R_5s + s^2\left(L_1L_5R_4R_5g_m - L_1L_5R_4\right)}{C_1C_5L_1L_5R_4R_5s^4 + R_4R_5 + s^3\left(C_1L_1L_5R_4 + 2C_1L_1L_5R_5 + 2C_5L_1L_5R_4R_5g_m + 2C_5L_1L_5R_5\right) + s^2\left(C_1L_1R_4R_5 + C_5L_5R_4R_5 + 2L_1L_5R_4g_m + 2L_1L_5\right) + s\left(2L_1R_4R_5g_m + 2L_1R_5 + L_5R_4 + 2L_5R_5\right)}$$

10.556 INVALID-ORDER-556 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = \frac{L_1L_5R_4g_ms^2 + s^3\left(C_5L_1L_5R_4R_5g_m - C_5L_1L_5R_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)}{R_4 + 2R_5 + s^4\left(C_1C_5L_1L_5R_4 + 2C_1C_5L_1L_5R_5\right) + s^3\left(2C_1L_1L_5 + 2C_5L_1L_5R_4g_m + 2C_5L_1L_5\right) + s^2\left(C_1L_1R_4 + 2C_1L_1R_5 + C_5L_5R_5 + 2L_1L_5g_m\right) + s\left(2L_1R_4g_m + 2L_1R_5g_m + 2L_1 + 2L_5\right)}$ 10.557 INVALID-ORDER-557 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$ $H(s) = \frac{-C_5L_1R_4R_5s^2 + s^3\left(C_5L_1L_5R_4R_5g_m - C_5L_1L_5R_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)}{R_4 + 2R_5 + s^4\left(C_1C_5L_1L_5R_4 + 2C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_5L_1R_4R_5 + 2C_5L_1L_5R_6g_m + 2C_5L_1L_5\right) + s^2\left(C_1L_1R_4 + 2C_1L_1R_5 + 2C_5L_1R_5 + 2C_5L_1R_5 + 2C_5L_1R_5\right) + s\left(C_5R_4R_5 + 2L_1R_4g_m + 2L_1R_5g_m + 2L_1R_5\right)}$ **10.558** INVALID-ORDER-558 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$ $H(s) = \frac{s \left(L_1 R_5 g_m - L_1 \right)}{2C_1 C_4 L_1 R_5 s^3 + s^2 \left(C_1 L_1 + 2C_4 L_1 R_5 g_m + 2C_4 L_1 \right) + s \left(2C_4 R_5 + 2L_1 g_m \right) + 1}$ **10.559** INVALID-ORDER-559 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$ $H(s) = \frac{-C_5L_1R_5s^2 + s\left(L_1R_5g_m - L_1\right)}{s^3\left(2C_1C_4L_1R_5 + C_1C_5L_1R_5 + 2C_4C_5L_1R_5\right) + s^2\left(C_1L_1 + 2C_4L_1R_5g_m + 2C_4L_1 + 2C_5L_1R_5g_m\right) + s\left(2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}$ **10.560** INVALID-ORDER-560 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{L_1 g_m + s \left(C_5 L_1 R_5 g_m - C_5 L_1 \right)}{2 C_1 C_4 C_5 L_1 R_5 s^3 + 2 C_4 + C_5 + s^2 \left(2 C_1 C_4 L_1 + C_1 C_5 L_1 + 2 C_4 C_5 L_1 R_5 g_m + 2 C_4 C_5 L_1 \right) + s \left(2 C_4 C_5 R_5 + 2 C_4 L_1 g_m + 2 C_5 L_1 g_m \right)}$ **10.561** INVALID-ORDER-561 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{C_5 L_1 L_5 g_m s^2 - C_5 L_1 s + L_1 g_m}{2C_1 C_4 C_5 L_1 L_5 s^4 + 2C_4 C_5 L_1 L_5 g_m s^3 + 2C_4 + C_5 + s^2 \left(2C_1 C_4 L_1 + C_1 C_5 L_1 + 2C_4 C_5 L_1 + 2C_4 C_5 L_5\right) + s \left(2C_4 L_1 g_m + 2C_5 L_1 g_m\right)}$ **10.562** INVALID-ORDER-562 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$ $H(s) = \frac{-C_5L_1L_5s^3 + L_1L_5g_ms^2 - L_1s}{2L_1g_ms + s^4\left(2C_1C_4L_1L_5 + C_1C_5L_1L_5 + 2C_4C_5L_1L_5\right) + s^3\left(2C_4L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(C_1L_1 + 2C_4L_1 + 2C_4L_5 + C_5L_5\right) + 1}$ **10.563** INVALID-ORDER-563 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$ $H(s) = \frac{C_5L_1L_5g_ms^2 + L_1g_m + s\left(C_5L_1R_5g_m - C_5L_1\right)}{2C_1C_4C_5L_1L_5s^4 + 2C_4 + C_5 + s^3\left(2C_1C_4C_5L_1R_5 + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + 2C_4C_5L_5\right) + s\left(2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m\right)}$ 10.564 INVALID-ORDER-564 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$ $H(s) = \frac{-C_5L_1L_5R_5s^3 - L_1R_5s + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{R_5 + s^4\left(2C_1C_4L_1L_5R_5 + C_1C_5L_1L_5R_5 + 2C_4C_5L_1L_5R_5\right) + s^3\left(C_1L_1L_5 + 2C_4L_1L_5R_5g_m + 2C_4L_1L_5 + 2C_5L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1R_5 +$ **10.565** INVALID-ORDER-565 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

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

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10.566 INVALID-ORDER-566 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                H(s) = \frac{-C_5L_1R_5s^2 + s^3\left(C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s\left(L_1R_5g_m - L_1\right)}{2C_1C_4C_5L_1L_5R_5s^5 + s^4\left(C_1C_5L_1L_5 + 2C_4C_5L_1L_5\right) + s^3\left(2C_1C_4L_1R_5 + C_1C_5L_1R_5 + 2C_4C_5L_1R_5 + 2C_4C_5L_1L_5g_m\right) + s^2\left(C_1L_1 + 2C_4L_1R_5g_m + 2C_4L_1 + 2C_5L_1R_5g_m + C_5L_5\right) + s\left(2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}
10.567 INVALID-ORDER-567 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)
                                                                                                                                                                                                                                                               H(s) = \frac{s\left(L_{1}R_{4}R_{5}g_{m} - L_{1}R_{4}\right)}{2C_{1}C_{4}L_{1}R_{4}R_{5}s^{3} + R_{4} + 2R_{5} + s^{2}\left(C_{1}L_{1}R_{4} + 2C_{1}L_{1}R_{5} + 2C_{4}L_{1}R_{4}R_{5}g_{m} + 2C_{4}L_{1}R_{4}\right) + s\left(2C_{4}R_{4}R_{5} + 2L_{1}R_{4}g_{m} + 2L_{1}R_{5}g_{m} + 2L_{1}R_{5}g_{m}\right)}
10.568 INVALID-ORDER-568 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                  H(s) = \frac{-C_5L_1R_4s^2 + L_1R_4g_ms}{s^3\left(2C_1C_4L_1R_4 + C_1C_5L_1R_4 + 2C_4C_5L_1R_4\right) + s^2\left(2C_1L_1 + 2C_4L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1\right) + s\left(2C_4R_4 + C_5R_4 + 2L_1g_m\right) + 2C_5L_1R_4g_m + 2C_5
10.569 INVALID-ORDER-569 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                        H(s) = \frac{-C_5L_1R_4R_5s^2 + s\left(L_1R_4R_5g_m - L_1R_4\right)}{R_4 + 2R_5 + s^3\left(2C_1C_4L_1R_4R_5 + C_1C_5L_1R_4R_5 + 2C_4C_5L_1R_4R_5\right) + s^2\left(C_1L_1R_4 + 2C_1L_1R_5 + 2C_4L_1R_4R_5g_m + 2C_4L_1R_4 + 2C_5L_1R_4Sg_m + 2C_5L_1R_5\right) + s\left(2C_4R_4R_5 + C_5R_4R_5 + 2L_1R_4g_m + 2L_1R_5g_m + 2L_1R_5g_m + 2C_4L_1R_4R_5g_m + 2C_5L_1R_4R_5g_m + 2C_5L_1R_5\right) + s\left(2C_4R_4R_5 + C_5R_4R_5 + 2L_1R_4g_m + 2L_1R_5g_m + 2L_1R_5g_m + 2C_4L_1R_4R_5g_m + 2C_5L_1R_4R_5g_m + 2C_5L_1R_5\right) + s\left(2C_4R_4R_5 + 2C_5L_1R_4g_m + 2L_1R_5g_m + 2C_4L_1R_4g_m + 2C_5L_1R_4g_m + 2C_5L_1R_4g_m
10.570 INVALID-ORDER-570 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                H(s) = \frac{L_1 R_4 g_m s + s^2 \left(C_5 L_1 R_4 R_5 g_m - C_5 L_1 R_4\right)}{2 C_1 C_4 C_5 L_1 R_4 R_5 s^4 + s^3 \left(2 C_1 C_4 L_1 R_4 + C_1 C_5 L_1 R_4 + 2 C_1 C_5 L_1 R_5 + 2 C_4 C_5 L_1 R_4\right) + s^2 \left(2 C_1 L_1 + 2 C_4 C_5 R_4 R_5 + 2 C_4 L_1 R_4 g_m + 2 C_5 L_1 R_5 g_m + 2 C_5 L_1\right) + s \left(2 C_4 R_4 + C_5 R_4 + 2 C_5 R_5 + 2 L_1 g_m\right) + 2 C_5 L_1 R_5 g_m + 2 C_5 L_1 R_5 
10.571 INVALID-ORDER-571 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                         10.572 INVALID-ORDER-572 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                   H(s) = \frac{-C_5L_1L_5R_4s^3 + L_1L_5R_4g_ms^2 - L_1R_4s}{R_4 + s^4\left(2C_1C_4L_1L_5R_4 + C_1C_5L_1L_5R_4 + 2C_4C_5L_1L_5R_4\right) + s^3\left(2C_1L_1L_5 + 2C_4L_1L_5R_4g_m + 2C_5L_1L_5\right) + s^2\left(C_1L_1R_4 + 2C_4L_1R_4 + 2C_4L_5R_4 + C_5L_5R_4 + 2L_1L_5g_m\right) + s\left(2L_1R_4g_m + 2L_1 + 2L_5\right)}
10.573 INVALID-ORDER-573 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                   \frac{C_5L_1L_5R_4g_ms^3 + L_1R_4g_ms + s^2\left(C_5L_1R_4R_5g_m - C_5L_1R_4\right)}{2C_1C_4C_5L_1L_5R_4s^5 + s^4\left(2C_1C_4C_5L_1L_5 + 2C_4C_5L_1L_5 + 2C_4C_5L_1R_4 + 2C_1C_5L_1R_4 + 2C_4C_5L_1R_4 + 2C_
10.574 INVALID-ORDER-574 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_5L_1L_5R_4R_5s^3 - L_1R_4R_5s + s^2\left(L_1L_5R_4R_5g_m - L_1L_5R_4\right)}{R_4R_5 + s^4\left(2C_1C_4L_1L_5R_4R_5 + 2C_4L_5L_1L_5R_4R_5 + 2C_4L_1L_5R_4R_5g_m + 2C_4L_1L_5R_4R_5g_m + 2C_4L_1L_5R_4R_5g_m + 2C_4L_1L_5R_4R_5 + 2C_4L_1R_4R_5 + 2C_4L_5R_4R_5 + 2C_4L_5R_5R_5 + 2C_4L_5R_5R_5 + 2C_4L_5R_5R_5 + 2C_4L_5R_5R_5
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10.575 INVALID-ORDER-575 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

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10.576 INVALID-ORDER-576 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -C_5L_1R_4R_5s^2 + s^3\left(C_5L_1L_5R_4R_5g_m - C_5L_1L_5R_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)
H(s) = \frac{-C_5 L_1 L_5 R_4 R_5 s^5 + s \cdot (C_5 L_1 L_5 R_4 R_5 g_m - C_5 L_1 L_5 R_4) + s \cdot (E_1 R_4 R_5 g_m - E_1 R_4)}{2 C_1 C_4 C_5 L_1 L_5 R_4 R_5 s^5 + R_4 + 2 R_5 + s^4 \cdot (C_1 C_5 L_1 L_5 R_4 + 2 C_1 C_5 L_1 L_5 R_4) + s^3 \cdot (2 C_1 C_4 L_1 R_4 R_5 + C_1 C_5 L_1 R_4 R_5 + 2 C_4 C_5 L_1 L_5 R_4 R_5 + 2 C_5 L_1 L_5 R_4 g_m + 2 C_5 L_1 L_5 R_5 g_m + 2 C_5 L_1 L_
10.577 INVALID-ORDER-577 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                H(s) = \frac{s^2 \left( C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4 \right) + s \left( L_1 R_5 g_m - L_1 \right)}{s^3 \left( C_1 C_4 L_1 R_4 + 2 C_1 C_4 L_1 R_5 \right) + s^2 \left( C_1 L_1 + 2 C_4 L_1 R_4 q_m + 2 C_4 L_1 R_5 q_m + 2 C_4 L_1 \right) + s \left( C_4 R_4 + 2 C_4 R_5 + 2 L_1 q_m \right) + 1}
10.578 INVALID-ORDER-578 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                      H(s) = \frac{-C_4C_5L_1R_4s^2 + L_1g_m + s\left(C_4L_1R_4g_m - C_5L_1\right)}{C_1C_4C_5L_1R_4s^3 + 2C_4 + C_5 + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1\right) + s\left(C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right)}
10.579 INVALID-ORDER-579 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                       H(s) = \frac{-C_4C_5L_1R_4R_5s^3 + s^2\left(C_4L_1R_4R_5g_m - C_4L_1R_4 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_4C_5L_1R_4R_5s^4 + s^3\left(C_1C_4L_1R_4 + 2C_1C_4L_1R_5 + C_1C_5L_1R_5 + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1R_5\right) + s^2\left(C_1L_1 + C_4C_5R_4R_5 + 2C_4L_1R_4g_m + 2C_4L_1R_5g_m + 2C_4L_1 + 2C_5L_1R_5g_m\right) + s\left(C_4R_4 + 2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}
10.580 INVALID-ORDER-580 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                               H(s) = \frac{L_1 g_m + s^2 \left( C_4 C_5 L_1 R_4 R_5 g_m - C_4 C_5 L_1 R_4 \right) + s \left( C_4 L_1 R_4 g_m + C_5 L_1 R_5 g_m - C_5 L_1 \right)}{2 C_4 + C_5 + s^3 \left( C_1 C_4 C_5 L_1 R_4 + 2 C_1 C_4 C_5 L_1 R_5 \right) + s^2 \left( 2 C_1 C_4 L_1 + C_1 C_5 L_1 + 2 C_4 C_5 L_1 R_4 g_m + 2 C_4 C_5 L_1 R_5 g_m + 2 C_4 C_5 L_1 \right) + s \left( C_4 C_5 R_4 + 2 C_4 C_5 R_5 + 2 C_4 L_1 g_m + 2 C_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, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                             H(s) = \frac{C_4C_5L_1L_5R_4g_ms^3 + L_1g_m + s^2\left(-C_4C_5L_1R_4 + C_5L_1L_5g_m\right) + s\left(C_4L_1R_4g_m - C_5L_1\right)}{2C_1C_4C_5L_1L_5s^4 + 2C_4 + C_5 + s^3\left(C_1C_4C_5L_1R_4 + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1 + 2C_4C_5L_5\right) + s\left(C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right)}
10.582 INVALID-ORDER-582 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                    H(s) = \frac{-C_4C_5L_1L_5R_4s^4 - L_1s + s^3\left(C_4L_1L_5R_4g_m - C_5L_1L_5\right) + s^2\left(-C_4L_1R_4 + L_1L_5g_m\right)}{C_1C_4C_5L_1L_5R_4s^5 + s^4\left(2C_1C_4L_1L_5 + C_1C_5L_1L_5 + 2C_4C_5L_1L_5\right) + s^3\left(C_1C_4L_1R_4 + C_4C_5L_5R_4 + 2C_4L_1L_5g_m\right) + s^2\left(C_1L_1 + 2C_4L_1R_4g_m + 2C_4L_1 + 2C_4L_5 + C_5L_5\right) + s\left(C_4R_4 + 2L_1g_m\right) + 1}
10.583 INVALID-ORDER-583 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                          H(s) = \frac{C_4C_5L_1L_5R_4g_ms^3 + L_1g_m + s^2\left(C_4C_5L_1R_4R_5g_m - C_4C_5L_1R_4 + C_5L_1L_5g_m\right) + s\left(C_4L_1R_4g_m + C_5L_1R_5g_m - C_5L_1\right)}{2C_1C_4C_5L_1L_5s^4 + 2C_4 + C_5 + s^3\left(C_1C_4C_5L_1R_4 + 2C_1C_4C_5L_1R_5g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1 + 2C_4C_5L_1\right) + s\left(C_4C_5R_4 + 2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m\right)}
10.584 INVALID-ORDER-584 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_5R_4R_5s^4 - L_1R_5s + s^3\left(C_4L_1L_5R_4R_5g_m - C_4L_1L_5R_4 - C_5L_1L_5R_5\right) + s^2\left(-C_4L_1R_4R_5 + L_1L_5R_5g_m - L_1L_5\right)}{C_1C_4C_5L_1L_5R_4R_5s^5 + R_5 + s^4\left(C_1C_4L_1L_5R_4 + 2C_1C_4L_1L_5R_5 + C_1C_5L_1L_5R_5\right) + s^3\left(C_1C_4L_1R_4R_5 + C_1L_1L_5 + C_4C_5L_5R_4R_5 + 2C_4L_1L_5R_4g_m + 2C_4L_1L_5R_5g_m + 2C_4L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1R_5g_m - C_4L_1L_5R_5g_m + 2C_4L_1L_5R_5g_m + 2C_4L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1L_5R_5g_m - C_4L_1L_5R_5g_m + 2C_4L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1L_5R_5g_m - C_4L_1L_5R_5g_m + 2C_4L_1L_5R_5g_m + 2C_4L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1L_5R_5g_m - C_4L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1L_5R_5g_m - C_4L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1L_5R_5g_m - C_4L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1L_5R_5g_m + 2C_4L_1L_5R_5g_m\right) + s^2\left(C_1L_1R_5 + 2C_4L_1L_
10.585 INVALID-ORDER-585 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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 $\frac{s^4 \left(C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_4 g_m + C_5 L_1 L_5 R_4 g_m + C_5 L_1 L_5 R_5 g_m - C_4 L_1 R_4 + L_1 L_5 g_m\right) + s \left(L_1 R_5 g_m - L_1\right)}{s^5 \left(C_1 C_4 C_5 L_1 L_5 R_4 g_m + 2 C_4 C_5 L_1 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_5\right) + s^3 \left(C_1 C_4 L_1 R_4 + 2 C_1 C_4 L_1 R_5 + C_4 C_5 L_5 R_5 + 2 C_4 L_1 L_5 g_m\right) + s^2 \left(C_1 L_1 + 2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m\right)}$

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10.586 INVALID-ORDER-586 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 (C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{s^4 \left( C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_4 \right) + s^3 \left( -C_4 C_5 L_1 R_4 R_5 + C_5 L_1 L_5 R_5 g_m - C_5 L_1 L_5 \right) + s^2 \left( C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4 - C_5 L_1 R_5 \right) + s \left( L_1 R_4 R_5 g_m - C_4 L_1 R_5 \right) + s^2 \left( C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_5 R_5 g_m + 2 C_4 C_5 L_1 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_5 R_5 g_m + 2 C_4 C_5 L_1 R_5 R
10.587 INVALID-ORDER-587 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                           H(s) = \frac{s^3 \left( C_4 L_1 L_4 R_5 g_m - C_4 L_1 L_4 \right) + s \left( L_1 R_5 g_m - L_1 \right)}{C_1 C_4 L_1 L_4 s^4 + s^3 \left( 2 C_1 C_4 L_1 R_5 + 2 C_4 L_1 L_4 g_m \right) + s^2 \left( C_1 L_1 + 2 C_4 L_1 R_5 g_m + 2 C_4 L_1 + C_4 L_4 \right) + s \left( 2 C_4 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, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                 H(s) = \frac{-C_4C_5L_1L_4s^3 + C_4L_1L_4g_ms^2 - C_5L_1s + L_1g_m}{C_1C_4C_5L_1L_4s^4 + 2C_4C_5L_1L_4g_ms^3 + 2C_4 + C_5 + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1 + C_4C_5L_4\right) + s\left(2C_4L_1g_m + 2C_5L_1g_m\right)}
10.589 INVALID-ORDER-589 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                  H(s) = \frac{-C_4C_5L_1L_4R_5s^4 - C_5L_1R_5s^2 + s^3\left(C_4L_1L_4R_5g_m - C_4L_1L_4\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_4C_5L_1L_4R_5s^5 + s^4\left(C_1C_4L_1L_4 + 2C_4C_5L_1L_4R_5g_m\right) + s^3\left(2C_1C_4L_1R_5 + C_4C_5L_1R_5 + 2C_4C_5L_1R_5 + 2C_4L_1L_4g_m\right) + s^2\left(C_1L_1 + 2C_4L_1R_5g_m + 2C_4L_1 + C_4L_4 + 2C_5L_1R_5g_m\right) + s\left(2C_4R_5 + C_5R_5 + 2L_1g_m\right) + 1}
10.590 INVALID-ORDER-590 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                           H(s) = \frac{C_4L_1L_4g_ms^2 + L_1g_m + s^3\left(C_4C_5L_1L_4R_5g_m - C_4C_5L_1L_4\right) + s\left(C_5L_1R_5g_m - C_5L_1\right)}{C_1C_4C_5L_1L_4s^4 + 2C_4 + C_5 + s^3\left(2C_1C_4C_5L_1R_5 + 2C_4C_5L_1L_4g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + C_4C_5L_4\right) + s\left(2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m\right)}
10.591 INVALID-ORDER-591 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                        H(s) = \frac{C_4C_5L_1L_4L_5g_ms^4 - C_4C_5L_1L_4s^3 - C_5L_1s + L_1g_m + s^2\left(C_4L_1L_4g_m + C_5L_1L_5g_m\right)}{2C_4 + C_5 + s^4\left(C_1C_4C_5L_1L_4 + 2C_1C_4C_5L_1L_5\right) + s^3\left(2C_4C_5L_1L_4g_m + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1 + C_4C_5L_4 + 2C_4C_5L_5\right) + s\left(2C_4L_1g_m + 2C_5L_1g_m\right)}
10.592 INVALID-ORDER-592 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                     H(s) = \frac{-C_4C_5L_1L_4L_5s^5 + C_4L_1L_4L_5g_ms^4 + L_1L_5g_ms^2 - L_1s + s^3\left(-C_4L_1L_4 - C_5L_1L_5\right)}{C_1C_4C_5L_1L_4L_5s^6 + 2C_4C_5L_1L_4L_5g_ms^5 + 2L_1g_ms + s^4\left(C_1C_4L_1L_4 + 2C_1C_4L_1L_5 + C_1C_5L_1L_5 + 2C_4C_5L_1L_5 + C_4C_5L_4L_5\right) + s^3\left(2C_4L_1L_4g_m + 2C_4L_1L_5g_m + 2C_5L_1L_5g_m\right) + s^2\left(C_1L_1 + 2C_4L_1 + C_4L_4 + 2C_4L_5 + C_5L_5\right) + 1}
10.593 INVALID-ORDER-593 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                       H(s) = \frac{C_4C_5L_1L_4L_5g_ms^4 + L_1g_m + s^3\left(C_4C_5L_1L_4R_5g_m - C_4C_5L_1L_4\right) + s^2\left(C_4L_1L_4g_m + C_5L_1L_5g_m\right) + s\left(C_5L_1R_5g_m - C_5L_1\right)}{2C_4 + C_5 + s^4\left(C_1C_4C_5L_1L_4\right) + s^3\left(2C_1C_4C_5L_1L_4g_m + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_5g_m + 2C_4C_5L_4 + 2C_4C_5L_5\right) + s\left(2C_4C_5R_5 + 2C_4L_1g_m + 2C_5L_1g_m\right)}
10.594 INVALID-ORDER-594 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_5s^5 - L_1R_5s + s^4\left(C_4L_1L_4L_5R_5g_m - C_4L_1L_4L_5\right) + s^3\left(-C_4L_1L_4R_5 - C_5L_1L_5R_5\right) + s^2\left(L_1L_5R_5g_m - L_1L_5\right)}{C_1C_4C_5L_1L_4L_5R_5s^6 + R_5 + s^5\left(C_1C_4L_1L_4L_5 + 2C_4C_5L_1L_4R_5 + 2C_4C_5L_1L_5R_5 + 2C_4C_5L_1L_5R_5 + 2C_4C_5L_1L_5R_5 + 2C_4L_1L_4L_5g_m\right) + s^3\left(C_1L_1L_5 + 2C_4L_1L_4R_5g_m + 2C_4L_1L_5R_5g_m + 2C_4L_1L_
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114

 $\frac{C_4L_1L_4L_5g_ms^4 + L_1L_5g_ms^2 + s^5\left(C_4C_5L_1L_4L_5R_5g_m - C_4C_5L_1L_4F_5g_m - C_4L_1L_4 + C_5L_1L_5R_5g_m - C_5L_1L_5\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_4C_5L_1L_4E_5s^6 + s^5\left(2C_1C_4C_5L_1L_5R_5 + 2C_4C_5L_1L_5R_5g_m + 2C_4C_5L_1L_5 + 2C_4C_5L_$

10.595 INVALID-ORDER-595 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

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10.597 INVALID-ORDER-597 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                                                                                                        H(s) = \frac{s^2 \left( L_1 L_4 R_5 g_m - L_1 L_4 \right)}{2C_1 C_4 L_1 L_4 R_5 s^4 + 2R_5 + s^3 \left( C_1 L_1 L_4 + 2C_4 L_1 L_4 R_5 g_m + 2C_4 L_1 L_4 \right) + s^2 \left( 2C_1 L_1 R_5 + 2C_4 L_4 R_5 + 2L_1 L_4 g_m \right) + s \left( 2L_1 R_5 g_m + 2L_1 + L_4 \right)}{s^2 \left( 2C_1 L_1 L_4 R_5 g_m + 2C_4 L_1 L_4 R_5 g_m + 2C_4 L_1 L_4 R_5 g_m + 2C_4 L_4 R_5 \right) + s \left( 2C_1 L_1 R_5 g_m + 2C_4 L_4 R_5 g_m + 2C_
10.598 INVALID-ORDER-598 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                              10.599 INVALID-ORDER-599 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                        H(s) = \frac{-C_5L_1L_4R_5s^3 + s^2\left(L_1L_4R_5g_m - L_1L_4\right)}{2R_5 + s^4\left(2C_1C_4L_1L_4R_5 + C_1C_5L_1L_4R_5 + 2C_4C_5L_1L_4R_5\right) + s^3\left(C_1L_1L_4 + 2C_4L_1L_4R_5g_m + 2C_4L_1L_4 + 2C_5L_1L_4R_5g_m\right) + s^2\left(2C_1L_1R_5 + 2C_4L_4R_5 + 2C_5L_1R_5 + C_5L_4R_5 + 2L_1L_4g_m\right) + s\left(2L_1R_5g_m + 2L_1 + L_4\right)}
10.600 INVALID-ORDER-600 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                     H(s) = \frac{L_1L_4g_ms^2 + s^3\left(C_5L_1L_4R_5g_m - C_5L_1L_4\right)}{2C_1C_4C_5L_1L_4R_5s^5 + s^4\left(2C_1C_4L_1L_4 + C_1C_5L_1L_4 + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4\right) + s^3\left(2C_1C_5L_1R_5 + 2C_4C_5L_4R_5 + 2C_4L_1L_4g_m\right) + s^2\left(2C_1L_1 + 2C_4L_4 + 2C_5L_1R_5g_m + 2C_5L_1 + C_5L_4\right) + s\left(2C_5R_5 + 2L_1g_m\right) + 2C_5R_5 + 2C_4R_5R_5 + 2C_5R_5 + 2C_5R_
10.601 INVALID-ORDER-601 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                       10.602 INVALID-ORDER-602 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                            H(s) = \frac{-C_5L_1L_4L_5s^3 + L_1L_4L_5g_ms^2 - L_1L_4s}{2L_1 + L_4 + 2L_5 + s^4\left(2C_1C_4L_1L_4L_5 + C_1C_5L_1L_4L_5 + s^3\left(2C_4L_1L_4L_5g_m + 2C_5L_1L_4L_5g_m\right) + s^2\left(C_1L_1L_4 + 2C_4L_1L_4 + 2C_4L_4L_5 + 2C_5L_1L_5 + C_5L_4L_5\right) + s\left(2L_1L_4g_m + 2L_1L_5g_m\right)}
10.603 INVALID-ORDER-603 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
                              \frac{C_5L_1L_4L_5g_ms^4 + L_1L_4g_ms^2 + s^3\left(C_5L_1L_4R_5g_m - C_5L_1L_4\right)}{2C_1C_4C_5L_1L_4L_5s^6 + s^5\left(2C_1C_4C_5L_1L_4R_5 + 2C_4C_5L_1L_4 + 2C_1C_5L_1L_4 + 2C_4C_5L_1L_4 
10.604 INVALID-ORDER-604 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{-C_5L_1L_4L_5R_5s^3 - L_1L_4R_5s + s^2\left(L_1L_4L_5R_5g_m - L_1L_4L_5\right)}{2L_1R_5 + L_4R_5 + 2L_5R_5 + s^4\left(2C_1C_4L_1L_4L_5R_5 + 2C_4C_5L_1L_4L_5R_5\right) + s^3\left(C_1L_1L_4L_5 + 2C_4L_1L_4L_5 + 2C_5L_1L_4L_5R_5g_m\right) + s^2\left(C_1L_1L_4R_5 + 2C_4L_1L_4R_5 + 2C_4L_1L_4R_5 + 2C_4L_4L_5R_5 + 2C_4L_5L_5R_5 + 2C_4L_5L_5R_
10.605 INVALID-ORDER-605 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             L_1L_4L_5g_ms^3 + s^4(C_5L_1L_4L_5R_5g_m - C_5L_1L_4L_5) + s^2(L_1L_4R_5g_m - L_1L_4)
                              \frac{L_1L_4L_5y_ms - s - (C_5L_1L_4L_5y_m - C_5L_1L_4L_5y_m - C_5L_5L_5x_5 - (C_5L_5L_5x_5 - C_5L_5x_5 - C_5L
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10.596 INVALID-ORDER-596 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.607 INVALID-ORDER-607 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                    H(s) = \frac{s^3 \left(C_4 L_1 L_4 R_5 g_m - C_4 L_1 L_4\right) + s^2 \left(C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4\right) + s \left(L_1 R_5 g_m - L_1\right)}{C_1 C_4 L_1 L_4 s^4 + s^3 \left(C_1 C_4 L_1 R_4 + 2 C_1 C_4 L_1 R_5 + 2 C_4 L_1 L_4 g_m\right) + s^2 \left(C_1 L_1 + 2 C_4 L_1 R_4 g_m + 2 C_4 L_1 R_5 g_m + 2 C_4 L_1 + C_4 L_4\right) + s \left(C_4 R_4 + 2 C_4 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, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                               H(s) = \frac{-C_4C_5L_1L_4s^3 + L_1g_m + s^2\left(-C_4C_5L_1R_4 + C_4L_1L_4g_m\right) + s\left(C_4L_1R_4g_m - C_5L_1\right)}{C_1C_4C_5L_1L_4s^4 + 2C_4 + C_5 + s^3\left(C_1C_4C_5L_1R_4 + 2C_4C_5L_1L_4g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1 + C_4C_5L_4\right) + s\left(C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right)}
10.609 INVALID-ORDER-609 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4R_5s^4 + s^3\left(-C_4C_5L_1R_4R_5 + C_4L_1L_4R_5g_m - C_4L_1L_4\right) + s^2\left(C_4L_1R_4R_5g_m - C_4L_1R_4 - C_5L_1R_5\right) + s\left(L_1R_5g_m - L_1\right)}{C_1C_4C_5L_1L_4R_5s^5 + s^4\left(C_1C_4C_5L_1R_4R_5 + C_1C_4L_1L_4 + 2C_4C_5L_1R_4R_5g_m\right) + s^3\left(C_1C_4L_1R_5 + C_1C_5L_1R_5 + 2C_4C_5L_1R_5 + 2C_4C_5L_1R_5 + 2C_4L_1L_4g_m\right) + s^2\left(C_1L_1 + C_4C_5R_4R_5 + 2C_4L_1R_4g_m + 2C_4L_1R_5g_m + 2C_4L_1R_5g_m\right)}
10.610 INVALID-ORDER-610 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                      H(s) = \frac{L_1 g_m + s^3 \left( C_4 C_5 L_1 L_4 R_5 g_m - C_4 C_5 L_1 L_4 \right) + s^2 \left( C_4 C_5 L_1 R_4 R_5 g_m - C_4 C_5 L_1 R_4 + C_4 L_1 L_4 g_m \right) + s \left( C_4 L_1 R_4 g_m + C_5 L_1 R_5 g_m - C_5 L_1 \right)}{C_1 C_4 C_5 L_1 L_4 s^4 + 2 C_4 C_5 L_1 R_4 + 2 C_1 C_4 C_5 L_1 R_5 + 2 C_4 C_5 L_1 L_4 g_m \right) + s^2 \left( 2 C_1 C_4 L_1 + C_1 C_5 L_1 + 2 C_4 C_5 L_1 R_5 g_m + 2 C_4 C_5 L_1 R_5 g_m + 2 C_4 C_5 L_4 + C_4 C_5 L_4 \right) + s \left( C_4 C_5 R_4 + 2 C_4 C_5 R_5 + 2 C_4 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, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                  H(s) = \frac{C_4C_5L_1L_4L_5g_ms^4 + L_1g_m + s^3\left(-C_4C_5L_1L_4 + C_4C_5L_1L_5R_4g_m\right) + s^2\left(-C_4C_5L_1R_4 + C_4L_1L_4g_m + C_5L_1L_5g_m\right) + s\left(C_4L_1R_4g_m - C_5L_1\right)}{2C_4 + C_5 + s^4\left(C_1C_4C_5L_1L_4\right) + s^3\left(C_1C_4C_5L_1L_4\right) + s^3\left(C_1C_4C_5L_1L_4g_m + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_4g_m + 2C_4C_5L_1 + C_4C_5L_4 + 2C_4C_5L_5\right) + s\left(C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right)}
10.612 INVALID-ORDER-612 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5s^5 - L_1s + s^4\left(-C_4C_5L_1L_5R_4 + C_4L_1L_4L_5g_m\right) + s^3\left(-C_4L_1L_4 + C_4L_1L_5R_4g_m - C_5L_1L_5\right) + s^2\left(-C_4L_1R_4 + L_1L_5g_m\right)}{C_1C_4C_5L_1L_4L_5s^6 + s^5\left(C_1C_4C_5L_1L_5R_4 + 2C_4C_5L_1L_5 + C_4C_5L_1L_5 + 2C_4C_5L_1L_5 + 2C_4C_5L_1L_5 + C_4C_5L_4L_5\right) + s^3\left(C_1C_4L_1R_4 + C_4C_5L_1L_5g_m + 2C_4L_1L_5g_m\right) + s^2\left(C_1L_1 + 2C_4L_1R_4g_m + 2C_4C_5L_1L_5 + C_4C_5L_4L_5\right) + s^3\left(C_1C_4L_1R_4 + C_4C_5L_4L_5g_m + 2C_4C_5L_4L_5g_m\right) + s^2\left(C_1L_4 + 2C_4L_4L_5g_m\right) + s^2\left(
10.613 INVALID-ORDER-613 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                    \frac{C_4C_5L_1L_4L_5g_ms^4 + L_1g_m + s^3\left(C_4C_5L_1L_4R_5g_m - C_4C_5L_1L_4 + C_4C_5L_1L_5R_4g_m\right) + s^2\left(C_4C_5L_1R_4R_5g_m - C_4C_5L_1R_4 + C_4L_1L_4g_m + C_5L_1L_5g_m\right) + s\left(C_4L_1R_4g_m + C_5L_1R_5g_m - C_5L_1\right)}{2C_4 + C_5 + s^4\left(C_1C_4C_5L_1L_4 + 2C_1C_4C_5L_1R_5 + 2C_4C_5L_1R_5 + 2C_4C_5L_1L_5g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_5L_1 + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + C_4C_5L_1 + 2C_4C_5L_1\right) + s\left(C_4C_5L_1R_4g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + 2C_4C_5L_1\right) + s\left(C_4C_5R_4 + 2C_4C_5R_5 + 2C_4C_5R_5 + 2C_4L_1g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + 2C_4C_5L_1 + 2C_4C_5L_1 + 2C_4C_5L_1\right) + s\left(C_4C_5R_4 + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1 + 2C_4C_5L_1R_5g_m + 
10.614 INVALID-ORDER-614 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -C_4C_5L_1L_4L_5R_5s^5 - L_1R_5s + s^4\left(-C_4C_5L_1L_5R_4R_5 + C_4L_1L_4L_5R_5g_m - C_4L_1L_4L_5\right) + s^3\left(-C_4L_1L_5R_5g_m - C_4L_5R_5g_m - C_4L_5R_5g_m - C_4L_5R_5g_m - C_4R_5R_5g_m - C_5R_5R_5g_m - 
H(s) = \frac{C_4C_5L_1L_4L_5R_5s^6 + R_5 + s^5\left(C_1C_4C_5L_1L_5R_4R_5 + C_1C_4L_1L_4L_5 + 2C_4C_5L_1L_4R_5 + C_1C_4L_1L_5R_4 + 2C_1C_4L_1L_5R_5 + C_1C_4L_1L_5R_5 + C_4C_5L_1L_5R_4 + 2C_4C_5L_1L_5R_5 + C_4C_5L_1L_5R_5 + C_4C_5L_4L_5R_5 + C_4C_5L_5L_5R_5 + C_4C_5L_5L_
10.615 INVALID-ORDER-615 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                    s^{5} \left(C_{4} C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}-C_{4} C_{5} L_{1} L_{5} R_{4} R_{5} g_{m}-C_{4} C_{5} L_{1} L_{5} R_{4} +C_{4} L_{1} L_{4} R_{5} g_{m}+S^{3} \left(C_{4} L_{1} L_{4} R_{5} g_{m}-C_{4} L_{1} L_{4}+C_{4} L_{1} L_{5} R_{4} g_{m}+C_{5} L_{1} L_{5} R_{5} g_{m}-C_{5} L_{1} L_{5} R_{5} g_{m}-C_{5} L_{1} L_{5} R_{5} g_{m}+C_{5} L_{5} L_{5} R_{5} g_{m}+C_{5}
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 $H(s) = \frac{-C_5L_1L_4R_5s^6 + s^4\left(C_5L_1L_4L_5R_5g_m - C_5L_1L_4L_5\right) + s^2\left(L_1L_4R_5g_m - L_1L_4\right)}{2C_1C_4C_5L_1L_4L_5R_5s^6 + 2R_5 + s^5\left(C_1C_5L_1L_4L_5 + 2C_4C_5L_1L_4L_5\right) + s^4\left(2C_1C_4L_1L_4R_5 + 2C_4C_5L_1L_4R_5 + 2C_4C_5L_1L_4L_5R_5g_m + 2C_4L_5L_4L_5\right) + s^4\left(2C_1C_4L_1L_4R_5 + 2C_4C_5L_1L_4R_5 + 2C_4C_5L_4L_5R_5 + 2C_4C_5L_5L_5R_5 + 2C_5L_5L_5R_5 +$

 $-C_5L_1L_4R_5s^3 + s^4\left(C_5L_1L_4L_5R_5g_m - C_5L_1L_4L_5\right) + s^2\left(L_1L_4R_5g_m - L_1L_4\right)$

10.606 INVALID-ORDER-606 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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H(s) = \frac{s^5 \left( C_4 C_5 L_1 L_4 L_5 R_5 g_m - C_4 C_5 L_1 L_4 R_5 + C_4 C_5 L_1 L_4 R_5 + C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_4 \right) + s^3 \left( -C_4 C_5 L_5 L_5 L_5 R_5 G_m - C_4 C_5 L_1 L_5 R_4 R_5 G_m - C_4 C_5 L_1 L_5 R_4 R_5 G_m \right) + s^4 \left( C_1 C_4 C_5 L_1 L_4 L_5 G_m + 2 C_4 C_5 L_1 L_5 R_4 G_m + 2 C_4 C_5 L_1 L_5 R_5 G_m \right) + s^4 \left( C_1 C_4 C_5 L_1 L_4 R_5 G_m + 2 C_4 C_5 L_1 L_5 R_5 G_m \right) + s^4 \left( C_1 C_4 C_5 L_1 L_5 R_5 G_m + 2 C_4 C_5 L_1 L_5 R_5 G_m + 2
10.617 INVALID-ORDER-617 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)
                                                                                        H(s) = \frac{s^2 \left( L_1 L_4 R_4 R_5 g_m - L_1 L_4 R_4 \right)}{2 C_1 C_4 L_1 L_4 R_4 R_5 s^4 + 2 R_4 R_5 + s^3 \left( C_1 L_1 L_4 R_4 + 2 C_1 L_1 L_4 R_5 + 2 C_4 L_1 L_4 R_4 R_5 g_m + 2 C_4 L_1 L_4 R_4 \right) + s^2 \left( 2 C_1 L_1 R_4 R_5 + 2 C_4 L_4 R_4 R_5 + 2 C_4 L_4 R_4 R_5 + 2 C_4 L_4 R_4 R_5 \right)}
10.618 INVALID-ORDER-618 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
                                                                                                           H(s) = \frac{-C_5L_1L_4R_4s^3 + L_1L_4R_4g_ms^2}{2R_4 + s^4\left(2C_1C_4L_1L_4R_4 + C_1C_5L_1L_4R_4 + 2C_4C_5L_1L_4R_4\right) + s^3\left(2C_1L_1L_4 + 2C_4L_1L_4R_4g_m + 2C_5L_1L_4\right) + s^2\left(2C_1L_1R_4 + 2C_4L_4R_4 + 2C_5L_1R_4 + 2C_4L_4R_4 + 2L_1L_4g_m\right) + s\left(2L_1R_4g_m + 2L_4\right)}
10.619 INVALID-ORDER-619 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_5L_1L_4R_4R_5s^3 + s^2\left(L_1L_4R_4R_5g_m - L_1L_4R_4\right)}{2R_4R_5 + s^4\left(2C_1C_4L_1L_4R_4R_5 + C_1C_5L_1L_4R_4R_5 + 2C_4L_1L_4R_4 + 2C_1L_1L_4R_5 + 2C_4L_1L_4R_4R_5g_m + 2C_5L_1L_4R_5\right) + s^2\left(2C_1L_1R_4R_5 + 2C_4L_4R_4R_5 + 2C_5L_1R_4R_5 + 2C_5L_1R_5R_5 + 2C_5L_1R_5R_5 + 2C_5L_1R_5R_5 + 2C_5L_1R_5R_5 + 2C_5L_1R_5R_5 + 2C_5L_1R_5R_5 + 2C
10.620 INVALID-ORDER-620 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_1 L_4 R_4 g_m s^2 + s^3 \left(C_5 L_1 L_4 R_4 R_5 g_m - C_5 L_1 L_4 R_4\right)}{2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 s^5 + 2 R_4 + s^4 \left(2 C_1 C_4 L_1 L_4 R_4 + 2 C_1 C_5 L_1 L_4 R_5 g_m + 2 C_4 C_5 L_1 L_4 R_4 \right) + s^3 \left(2 C_1 C_5 L_1 R_4 R_5 + 2 C_4 L_1 L_4 R_4 g_m + 2 C_5 L_1 L_4 R_4 g_m + 2 C_5 L_1 L_4 R_5 g_m + 2 C_5 L_4 R_5 g_m + 2 C_5 L_5 L_5 R_5 g_m + 2 C_5 L_5 R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L_1L_4R_4g_ms^2 + s^3\left(C_5L_1L_4R_4R_5g_m - C_5L_1L_4R_4\right)
10.621 INVALID-ORDER-621 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_5L_1L_4L_5R_4g_ms^4 - C_5L_1L_4R_4s^3 + L_1L_4R_4g_ms^2
                                        \frac{C_5L_1L_4L_5R_4g_ms^2 - C_5L_1L_4R_4g^2 + L_1L_4R_4g_ms^2}{2C_1C_4C_5L_1L_4L_5R_4g_m + 2C_4C_5L_1L_4R_4 + 2C_5L_1L_4R_4 + 2C_5L_4L_4R_4 + 2C_5L_4L_4R
10.622 INVALID-ORDER-622 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_5L_1L_4L_5R_4g_ms^2 - L_1L_4R_4s}{2L_1R_4 + L_4R_4 + 2L_5R_4 + s^4\left(2C_1C_4L_1L_4L_5R_4 + 2C_4L_1L_4L_5R_4 + 2C_4L_1L_4L_5R_4g_m + 2C_5L_1L_4L_5\right) + s^2\left(C_1L_1L_4R_4 + 2C_4L_1L_4R_4 + 2C_4L_4L_5R_4 + 2C_4L_5L_5R_4 + 2C_4L_5L_5R_4 + 2C_4L_5L_5R_4 + 2C_4L_5
10.623 INVALID-ORDER-623 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                        \frac{C_5 L_1 L_4 L_5 I_4 q_{m^3} + L_1 L_4 L_5 q_{m^3} + L_1 L_4 q_{m^3} + L_2 L_4 q_{m^3} + L_1 L_4 q_{m^3} + L_2 L_4 q_{m^3} + L_
10.624 INVALID-ORDER-624 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        H(s) = \frac{C_5 L_1 L_4 L_5 R_4 R_5 + L_4 R_5 R_4 R
10.625 INVALID-ORDER-625 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                        \frac{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5}s^{6} + 2R_{4}R_{5} + s^{5}\left(2C_{1}C_{4}L_{1}L_{4}L_{5}R_{4} + C_{1}C_{5}L_{1}L_{4}L_{5}R_{4} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{4} + 2
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10.616 INVALID-ORDER-616 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 (C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.626 INVALID-ORDER-626 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.627 INVALID-ORDER-627 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                      H(s) = \frac{s^3 \left( C_4 L_1 L_4 R_4 R_5 g_m - C_4 L_1 L_4 R_4 \right) + s^2 \left( L_1 L_4 R_5 g_m - L_1 L_4 \right) + s \left( L_1 R_4 R_5 g_m - L_1 R_4 \right)}{R_4 + 2 R_5 + s^4 \left( C_1 C_4 L_1 L_4 R_4 + 2 C_1 C_4 L_1 L_4 R_5 \right) + s^3 \left( C_1 L_1 L_4 + 2 C_4 L_1 L_4 R_5 g_m + 2 C_4 L_1 L_4 \right) + s^2 \left( C_1 L_1 R_4 + 2 C_1 L_1 R_5 + C_4 L_4 R_5 + 2 L_1 L_4 g_m \right) + s \left( 2 L_1 R_4 g_m + 2 L_1 R_5 g_m + 2 L_1 L_4 R_5 g_m + 2 L_1 L_4 R_5 g_m \right)} \\ = \frac{s^3 \left( C_4 L_1 L_4 R_4 R_5 g_m - C_4 L_1 L_4 R_5 g_m - L_1 L_4 \right) + s^2 \left( L_1 L_4 R_5 g_m - L_1 L_4 \right) + s \left( L_1 R_4 R_5 g_m - L_1 L_4 \right)}{R_4 + 2 R_5 + s^4 \left( C_1 C_4 L_1 L_4 R_5 + 2 C_4 L_1 L_4 R_5 \right) + s^3 \left( C_1 L_1 L_4 R_5 g_m + 2 C_4 L_1 L_4 R_5 g_m + 2 C_4 L_1 L_4 R_5 g_m - L_1 R_4 \right)} \\ = \frac{s^3 \left( C_4 L_1 L_4 R_4 + 2 C_4 L_1 L_4 R_5 + 2 C_4 L_1 L_4 R_5 g_m - L_1 L_4 \right)}{R_4 + 2 R_5 + s^4 \left( C_1 C_4 L_1 L_4 R_5 + 2 C_4 L_1 L_4 R_5 g_m + 2 C_4 L_4
10.628 INVALID-ORDER-628 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                     10.629 INVALID-ORDER-629 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4R_4R_5s^4 + s^3\left(C_4L_1L_4R_4R_5g_m - C_4L_1L_4R_4 - C_5L_1L_4R_5\right) + s^2\left(-C_5L_1R_4R_5 + L_1L_4R_5g_m - L_1L_4\right) + s\left(L_1R_4R_5g_m - L_1L_4\right) + s\left(L_1R_5g_m - L_1L_4\right) + s\left(L_1R_5g_m - L_1L_4\right)
10.630 INVALID-ORDER-630 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
10.631 INVALID-ORDER-631 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                    \frac{C_4C_5L_1L_4L_5R_4g_ms^5 + L_1R_4g_ms + s^4\left(-C_4C_5L_1L_4R_4 + C_5L_1L_4R_4g_m - C_5L_1L_4 + C_5L_1L_5R_4g_m\right) + s^3\left(C_4L_1L_4R_4g_m - C_5L_1L_4 + C_5L_1L_5R_4g_m\right) + s^2\left(-C_5L_1R_4 + L_1L_4g_m\right)}{2C_1C_4C_5L_1L_4L_5s^6 + s^5\left(C_1C_4C_5L_1L_4R_4 + 2C_4C_5L_1L_4 +
10.632 INVALID-ORDER-632 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_4s^5 - L_1R_4s + s^4\left(C_4L_1L_4L_5R_4g_m - C_5L_1L_4L_5\right) + s^3\left(-C_4L_1L_4R_4 - C_5L_1L_5R_4 + L_1L_4L_5g_m\right) + s^2\left(-L_1L_4 + L_1L_4L_5R_4g_m - C_5L_1L_4L_5R_4s^6 + R_4 + s^5\left(2C_1C_4L_1L_4L_5 + C_4C_5L_1L_4L_5\right) + s^4\left(C_1C_4L_1L_4R_4 + C_4C_5L_4L_5R_4 + 2C_4L_4L_5g_m\right) + s^3\left(C_1L_4L_5R_4g_m + 2C_4L_4L_5R_4g_m + 2C_4L_4L_5R_4g_m\right) + s^3\left(C_4L_4L_4R_4 + C_4C_5L_4L_5R_4 + C_4C_5L_4L_5R_4 + 2C_4L_4L_5R_4 + 2C_4L_4L_5g_m\right) + s^3\left(C_4L_4L_4R_4 + C_4C_5L_4L_5R_4 + 2C_4L_4L_5R_4 + 2C_4L_4L_5R_4g_m\right) + s^3\left(C_4L_4L_4R_4 + C_4C_5L_4L_5R_4 + 2C_4L_4L_5R_4 + 2C_
10.633 INVALID-ORDER-633 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                    \frac{C_4C_5L_1L_4L_5R_4g_ms^5 + L_1R_4g_ms + s^4\left(C_4C_5L_1L_4R_4S_{gm} - C_4C_5L_1L_4R_5g_m - C_4C_5L_1L_4R_4g_m + C_5L_1L_4R_5g_m - C_5L_
10.634 INVALID-ORDER-634 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -C_4C_5L_1L_4L_5R_4R_5s^5 - L_1R_4R_5s + s^4(C_4L_1L_4R_5s^5)
H(s) = \frac{C_1C_4C_5L_1L_4L_5R_4R_5s^6 + R_4R_5 + s^5\left(C_1C_4L_1L_4L_5R_4 + 2C_1C_4L_1L_4L_5R_5 + C_1C_5L_1L_4L_5R_5 + C_1C_5L_5L_5R_5 
10.635 INVALID-ORDER-635 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              s^{5} \left(C_{4} C_{5} L_{1} L_{4} L_{5} R_{4} R_{5} g_{m}-C_{4} C_{5} L_{1} L_{4} L_{5} R_{4}\right)+s^{4} \left(C_{4} L_{1} L_{4} L_{5} R_{4} g_{m}+C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}\right)+s^{4} \left(C_{4} L_{1} L_{4} L_{5} R_{4} g_{m}+C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}\right)+s^{4} \left(C_{4} L_{1} L_{4} L_{5} R_{4} g_{m}+C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}\right)+s^{4} \left(C_{4} L_{1} L_{4} L_{5} R_{4} g_{m}+C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}\right)+s^{4} \left(C_{4} L_{1} L_{4} L_{5} R_{4} g_{m}+C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}\right)+s^{4} \left(C_{4} L_{1} L_{4} L_{5} R_{5} g_{m}+C_{5} L_{1} L_{4} L_{5} R_{5} g_{m}-C_{5} L_{5} L_
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10.636 INVALID-ORDER-636 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
10.637 INVALID-ORDER-637 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)
                H(s) = \frac{s^3 \left( C_4 L_1 L_4 R_4 g_m - C_4 L_1 L_4 R_4 \right) + s \left( L_1 R_4 R_5 g_m - L_1 R_4 \right)}{R_4 + 2 R_5 + s^4 \left( C_1 C_4 L_1 L_4 R_4 + 2 C_1 C_4 L_1 L_4 R_5 \right) + s^3 \left( 2 C_1 C_4 L_1 R_4 R_5 + 2 C_4 L_1 L_4 R_5 g_m + 2 C_4 L_1 L_4 \right) + s^2 \left( C_1 L_1 R_4 + 2 C_1 L_1 R_4 + 2 C_4 L_1 R_4 + 2 C_4 L_4 R_5 \right) + s \left( 2 C_4 R_4 R_5 + 2 L_1 R_4 g_m + 2 L_1 R_5 g_m + 2 L_1 R_5 g_m + 2 C_4 L_1 R_4 R_5 g_m + 2 C_4 L_1
10.638 INVALID-ORDER-638 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
             10.639 INVALID-ORDER-639 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -C_{4}C_{5}L_{1}L_{4}R_{4}R_{5}s^{4}-C_{5}L_{1}R_{4}R_{5}s^{2}+s^{3}\left(C_{4}L_{1}L_{4}R_{4}R_{5}g_{m}-C_{4}L_{1}L_{4}R_{4}\right)+s\left(L_{1}R_{4}R_{5}g_{m}-L_{1}R_{4}\right)
                                  \frac{-C_4C_5L_1L_4R_4R_5s^4 - C_5L_1R_4R_5s^4 - C_5L_1R_4R_5s^4 - C_5L_1R_4R_5s^2 + s^3\left(C_4L_1L_4R_4R_5g_m - C_4L_1L_4R_4\right) + s\left(L_1R_4R_5g_m - L_1R_4\right)}{C_1C_4C_5L_1L_4R_4S^5 + R_4 + 2R_5 + s^4\left(C_1C_4L_1L_4R_4 + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5\right) + s^3\left(2C_1C_4L_1R_4R_5 + C_4C_5L_1R_4R_5 + 2C_4C_5L_1R_4R_5 + 2C_4L_1L_4R_4g_m + 2C_4L_1L_4R_5g_m + 2C_4L_1L_4\right) + s^2\left(C_1L_1R_4 + 2C_4L_1L_4R_5g_m + 2C_4L
10.640 INVALID-ORDER-640 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4L_1L_4R_4g_ms^3 + L_1R_4g_ms + s^4\left(C_4C_5L_1L_4R_4S_{g_m} - C_4C_5L_1L_4R_4\right) + s^2\left(C_5L_1R_4R_5g_m - C_5L_1R_4\right)}{s^5\left(C_1C_4C_5L_1L_4R_4 + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1L_4R_5g_m + 2C_4C_5L_1R_4 + 2C_4C
10.641 INVALID-ORDER-641 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4C_5L_1L_4L_5R_4g_ms^5 - C_4C_5L_1L_4R_4s^4 - C_5L_1R_4s^2 + L_1R_4g_ms + s^3\left(C_4L_1L_4R_4g_m + C_5L_1L_5R_4g_m\right)}{2C_1C_4C_5L_1L_4L_5s^6 + s^5\left(C_1C_4C_5L_1L_4R_4 + 2C_4C_5L_1L_4R_4 + 2C_4C_5L_1R_4 + 2C_4C_5L_1L_4R_4 + 2C_4C_5L_4R_4 + 2C_4C_5L
10.642 INVALID-ORDER-642 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_4s^5 + C_4L_1L_4L_5R_4g_ms^4 + L_1L_5R_4g_ms^2 - L_1R_4s + s^3\left(-C_4L_1L_4R_4 - C_5L_1L_5R_4\right)}{C_1C_4C_5L_1L_4L_5R_4s^6 + R_4 + s^5\left(2C_1C_4L_1L_4L_5 + 2C_4C_5L_1L_4L_5\right) + s^4\left(C_1C_4L_1L_4R_4 + 2C_1C_4L_1L_5R_4 + C_4C_5L_1L_5R_4 + 2C_4C_5L_1L_5R_4 + 2C_4C_5L_1L_5R_4 + 2C_4C_5L_1L_4L_5g_m\right) + s^3\left(2C_1L_1L_5 + 2C_4L_1L_4R_4g_m + 2C_4L_1L_4R_
10.643 INVALID-ORDER-643 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
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 $H(s) = \frac{\sum_{4 \leq 5} L_{1} L_{4} L_{5} R_{4} R_{5} + s^{6} + R_{4} R_{5} + s^{5} \left(C_{1} C_{4} L_{1} L_{4} L_{5} R_{4} + 2 C_{1} C_{4} L_{1} L_{4} L_{5} R_{4} R_{5} + 2 C_{4} C_{5} L_{1} L_{4} L_{5} R_{4} R_{5} + 2 C_{4} C_{5} L_{1} L_{4} L_{5} R_{4} R_{5} + 2 C_{4} C_{5} L_{1} L_{4} L_{5} R_{4} R_{5} + 2 C_{4} C_{5} L_{1} L_{5} R_{4} R_{5} + 2 C_{4} C_{5} L_{1} L_{5} R_{4} R_{5} + 2 C_{4} C_{5} L_{1} L_{4} L_{5} R_{4} R_{5} + 2 C_{4} C_{5} L_{4} L_{5} L_{4} L_{5} R_{4} R_{5} + 2 C_{4} C_{5} L_{4} L_{5} L_{$

 $\frac{ \cup_{4} \cup_{5} L_{1} L_{4} L_{5} r_{4} y_{m} s + L_{1} r_{4} y_{m} s + s + (\cup_{4} \cup_{5} L_{1} L_{4} r_{4} r_{5} y_{m} s + v_{4} C_{5} L_{1} L_{4} L_{5} y_{m} s + v_{4} C_{5} L_{5} L_{4} L_{5} y_{m} s + v_{4} C_{5} L_{5} L_{5}$

 $C_4C_5L_1L_4L_5R_4g_ms^5 + L_1R_4g_ms + s^4(C_4C_5L_1L_4R_4R_5g_m)$

 $-C_4C_5L_1L_4L_5R_4R_5s^5-L_1R_4R_5s^5$

10.644 INVALID-ORDER-644 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

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10.645 INVALID-ORDER-645 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
```

10.646 INVALID-ORDER-646
$$Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{1}{R_4 + 2R_5 + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_4 + 2 C_1 C_4 C_5 L_1 L_4 L_5 R_5 \right) + s^5 \left(C_1 C_4 C_5 L_1 L_4 R_5 + 2 C_4 C_5 L_1 L_4 L_5 R_4 R_5 + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_1 L_4 L_5 R_5 g_m + 2 C_4 C_5 L_5 L_5 R_5 g_m + 2 C_5 L_5 L_5 R_5 g_m + 2$

10.647 INVALID-ORDER-647
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_4s^3 + R_4g_m + s^2\left(-C_1C_5R_1R_4 + C_1L_1R_4g_m\right) + s\left(C_1R_1R_4g_m - C_5R_4\right)}{2g_m + s^3\left(2C_1C_5L_1R_4g_m + 2C_1C_5L_1\right) + s^2\left(2C_1C_5R_1R_4g_m + 2C_1C_5R_1 + C_1C_5R_4 + 2C_1L_1g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_5R_4g_m + 2C_5\right)}$$

10.648 INVALID-ORDER-648
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_4R_5s^3 + R_4R_5g_m - R_4 + s^2\left(-C_1C_5R_1R_4R_5 + C_1L_1R_4R_5g_m - C_1L_1R_4\right) + s\left(C_1R_1R_4R_5g_m - C_1R_1R_4 - C_5R_4R_5\right)}{2R_4g_m + 2R_5g_m + s^3\left(2C_1C_5L_1R_4R_5g_m + 2C_1C_5L_1R_5\right) + s^2\left(2C_1C_5R_1R_4R_5g_m + 2C_1C_5R_1R_5 + C_1C_5R_4R_5 + 2C_1L_1R_4g_m + 2C_1L_1R_5g_m + 2C_1R_1R_5g_m + 2C_1R_1R_5$$

10.649 INVALID-ORDER-649
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{R_4 g_m + s^3 \left(C_1 C_5 L_1 R_4 R_5 g_m - C_1 C_5 L_1 R_4\right) + s^2 \left(C_1 C_5 R_1 R_4 R_5 g_m - C_1 C_5 R_1 R_4 + C_1 L_1 R_4 g_m\right) + s \left(C_1 R_1 R_4 g_m + C_5 R_4 R_5 g_m - C_5 R_4\right)}{2 g_m + s^3 \left(2 C_1 C_5 L_1 R_5 g_m + 2 C_1 C_5 L_1\right) + s^2 \left(2 C_1 C_5 R_1 R_4 g_m + 2 C_1 C_5 R_1 R_5 g_m + 2 C_1 C_5 R_4 + 2 C_1 C_5 R_5 + 2 C_1 L_1 g_m\right) + s \left(2 C_1 R_1 g_m + 2 C_1 + 2 C_5 R_4 g_m + 2 C_5 R_5 g_m + 2 C_5 R_5 g_m\right)}$$

10.650 INVALID-ORDER-650
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5R_4g_ms^4 + R_4g_m + s^3\left(-C_1C_5L_1R_4 + C_1C_5L_5R_1R_4g_m\right) + s^2\left(-C_1C_5R_1R_4 + C_1L_1R_4g_m + C_5L_5R_4g_m\right) + s\left(C_1R_1R_4g_m - C_5R_4\right)}{2C_1C_5L_1L_5g_ms^4 + 2g_m + s^3\left(2C_1C_5L_1R_4g_m + 2C_1C_5L_5 + s^2\left(2C_1C_5R_1R_4g_m + 2C_1C_5R_4 + 2C_1L_1g_m + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_5R_4g_m + 2C_5R_4g_m + 2C_5R_4g_m\right)}$$

10.651 INVALID-ORDER-651
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_4s^4 - R_4 + s^3\left(-C_1C_5L_5R_1R_4 + C_1L_1L_5R_4g_m\right) + s^2\left(-C_1L_1R_4 + C_1L_5R_1R_4g_m - C_5L_5R_4\right) + s\left(-C_1R_1R_4 + L_5R_4g_m\right)}{2R_4g_m + s^4\left(2C_1C_5L_1L_5R_4g_m + 2C_1C_5L_5R_1R_4g_m + 2C_1C_5L_5R_1 + C_1C_5L_5R_4 + 2C_1L_1L_5g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_1 + 2C_1L_5R_1g_m + 2C_1L_5 + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(2C_1R_1R_4g_m + 2C_1R_1 + C_1R_4 + 2L_5g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_5R_1g_m + 2C_1L_5 + 2C_5L_5R_4g_m + 2C_5L_5\right) + s\left(2C_1R_1R_4g_m + 2C_1R_1 + 2C_1R_4g_m + 2C_1R_4g_m\right) + s^2\left(2C_1R_1R_4g_m + 2C_1R_4g_m + 2C_1R_4g_m + 2C_1R_4g_m\right) + s^2\left(2C_1R_1R_4g_m + 2C_1R_4g_m + 2C_1R_4g_m + 2C_1R_4g_m\right) + s^2\left(2C_1R_1R_4g_m + 2C_1R_4g_m\right) + s^2\left(2C_1R_1R_4g_m\right) + s^2\left(2C_1R_1R_4g_m\right)$$

10.652 INVALID-ORDER-652
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5R_4g_ms^4 + R_4g_m + s^3\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_1C_5L_5R_1R_4g_m\right) + s^2\left(C_1C_5R_1R_4R_5g_m - C_1C_5R_1R_4 + C_1L_1R_4g_m + C_5L_5R_4g_m\right) + s\left(C_1R_1R_4g_m + C_5R_4R_5g_m - C_5R_4\right)}{2C_1C_5L_1L_5g_ms^4 + 2g_m + s^3\left(2C_1C_5L_1R_4g_m + 2C_1C_5L_1R_5g_m + 2C_1C_5L_5\right) + s^2\left(2C_1C_5R_1R_4g_m + 2C_1C_5R_1R_5g_m + 2C_1C_5R_5\right) + s\left(2C_1R_5g_m + 2C_1C_5R_5\right) + s\left($$

10.653 INVALID-ORDER-653
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_4R_5s^4 - R_4R_5 + s^3\left(-C_1C_5L_5R_1R_4R_5 + C_1L_1L_5R_4R_5g_m - C_1L_1L_5R_4\right) + s^2\left(-C_1L_1R_4R_5 + C_1L_5R_1R_4R_5g_m - C_1L_5R_1R_4 - C_5L_5R_4R_5\right) + s\left(-C_1R_1R_4R_5g_m + 2C_1L_5R_4R_5g_m + 2C_1L_5R_5g_m + 2C_1L_5R_5g$$

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10.654 INVALID-ORDER-654 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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10.655 INVALID-ORDER-655
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{R_4 R_5 g_m - R_4 + s^4 \left(C_1 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_5 L_5 R_1 R_4 R_5 g_m - C_1 L_5 R_4 R_5 g_m - C_1 L_5 R_4 R_5 g_m - C_1 C_5 L_5 R_1 R_5 g_m - C_1 C_5 L_5 R_5 g_m$$

10.656 INVALID-ORDER-656
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5, \infty\right)$$

$$H(s) = \frac{R_5 g_m + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1\right) - 1}{2 g_m + s^3 \left(2 C_1 C_4 L_1 R_5 g_m + 2 C_1 C_4 L_1\right) + s^2 \left(2 C_1 C_4 R_1 R_5 g_m + 2 C_1 C_4 R_1 + 2 C_1 C_4 R_5 + 2 C_1 L_1 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_4 R_5 g_m + 2 C_4\right)}$$

10.657 INVALID-ORDER-657
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1s^3 + g_m + s^2\left(-C_1C_5R_1 + C_1L_1g_m\right) + s\left(C_1R_1g_m - C_5\right)}{2C_1C_4C_5L_1s^4 + s^3\left(2C_1C_4C_5R_1 + 2C_1C_4L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.658 INVALID-ORDER-658
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_5s^3 + R_5g_m + s^2\left(-C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1\right) + s\left(C_1R_1R_5g_m - C_1R_1 - C_5R_5\right) - 1}{2C_1C_4C_5L_1R_5s^4 + 2g_m + s^3\left(2C_1C_4C_5R_1R_5 + 2C_1C_4L_1R_5g_m + 2C_1C_4L_1 + 2C_1C_5L_1R_5g_m\right) + s^2\left(2C_1C_4R_1R_5g_m + 2C_1C_4R_1 + 2C_1C_4R_5 + 2C_1C_5R_1R_5g_m + C_1C_5R_5\right) + s\left(2C_1R_1g_m + C_1 + 2C_4R_5g_m + 2C_4C_5R_5\right)}$$

10.659 INVALID-ORDER-659
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{g_m + s^3 \left(C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1 \right) + s^2 \left(C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_1 L_1 g_m \right) + s \left(C_1 R_1 g_m + C_5 R_5 g_m - C_5 \right)}{s^4 \left(2 C_1 C_4 C_5 L_1 R_5 g_m + 2 C_1 C_4 C_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 R_1 + 2 C_1 C_4 C_5 R_5 + 2 C_1 C_4 L_1 g_m + 2 C_1 C_5 L_1 g_m \right) + s^2 \left(2 C_1 C_4 R_1 g_m + 2 C_1 C_5 R_1 g_m + C_1 C_5 + 2 C_4 C_5 R_5 g_m + 2 C_4 C_5 \right) + s \left(2 C_4 g_m + 2 C_5 g_m \right)}$$

10.660 INVALID-ORDER-660
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5g_ms^4 + g_m + s^3\left(-C_1C_5L_1 + C_1C_5L_5R_1g_m\right) + s^2\left(-C_1C_5R_1 + C_1L_1g_m + C_5L_5g_m\right) + s\left(C_1R_1g_m - C_5\right)}{2C_1C_4C_5L_1L_5g_ms^5 + s^4\left(2C_1C_4C_5L_1 + 2C_1C_4C_5L_5R_1g_m + 2C_1C_4C_5L_5\right) + s^3\left(2C_1C_4C_5R_1 + 2C_1C_4L_1g_m + 2C_1C_5L_1g_m + 2C_4C_5L_5g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$$

10.661 INVALID-ORDER-661
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5s^4 + s^3\left(-C_1C_5L_5R_1 + C_1L_1L_5g_m\right) + s^2\left(-C_1L_1 + C_1L_5R_1g_m - C_5L_5\right) + s\left(-C_1R_1 + L_5g_m\right) - 1}{2C_1C_4C_5L_1L_5s^5 + 2g_m + s^4\left(2C_1C_4L_5L_5g_m + 2C_1C_4L_1L_5g_m + 2C_1C_4L_5R_1g_m + 2C_1C_4L_5 + 2C_1C_5L_5R_1g_m + C_1C_5L_5\right) + s^2\left(2C_1C_4R_1 + 2C_1L_1g_m + 2C_4L_5g_m + 2C_5L_5g_m\right) + s\left(2C_1R_1g_m + C_1 + 2C_4L_5g_m + 2C_4L_5g_m + 2C_4L_5g_m\right) + s^2\left(2C_1C_4R_1 + 2C_4L_5g_m + 2C_4L_5g_m + 2C_5L_5g_m\right) + s^2\left(2C_4C_5L_5R_1 + 2C_4L_5g_m + 2C_4L_5g_m\right) + s^2\left(2C_4C_5L_5R_1 + 2C_4L_5g_m + 2C_4L_5g_m\right) + s^2\left(2C_4C_5L_5R_1 + 2C_4C_5L_5g_m\right) + s^2\left(2C_4C_5L_5R_1 + 2C_4C_5L_5R_1 + 2C_4C_5L_5g_m\right) + s^2\left(2C_4C_5L_5R_1 + 2C_4C_5L_5R_1 + 2C_4C_5L_5R_1\right) + s^2\left(2C_4C_5L_5R_1 + 2C_4C_5L_5R_1 + 2C_$$

10.662 INVALID-ORDER-662
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5g_ms^4 + g_m + s^3\left(C_1C_5L_1R_5g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m\right) + s^2\left(C_1C_5R_1R_5g_m - C_1C_5R_1 + C_1L_1g_m + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_5R_5g_m - C_5\right)}{2C_1C_4C_5L_1L_5g_ms^5 + s^4\left(2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1\right) + s^2\left(2C_1C_4C_5R_1R_5g_m + 2C_1C_4C_5R_1 + 2C_1C_4C_5R_1 + 2C_1C_4C_5R_1\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_5R_1g_m + 2C_1C_4C_5R_1\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_5R_1g_m + 2C_1C_4C_5R_1\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_5R_1g_m + 2C_1C_4C_5R_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_5R_1g_m + 2C_1C_4C_5R_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_5R_1g_m + 2C_1C_4C_5R_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C$$

 $H(s) = \frac{R_5g_m + s^4 \left(C_1C_5L_1L_5R_5g_m - C_1C_5L_1L_5 \right) + s^3 \left(-C_1C_5L_1R_5 + C_1C_5L_5R_1R_5g_m - C_1C_5L_5R_1 \right) + s^2 \left(-C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 + s^2 \left(-C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 \right) \right) + s^2 \left(-C_1C_5R_1R_5 + C_1C_5L_1R_5g_m + 2C_1C_5L_1R_5g_m + 2C_1C_5L_1$

10.666 INVALID-ORDER-666 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)$

$$H(s) = \frac{R_4 R_5 g_m - R_4 + s^2 \left(C_1 L_1 R_4 R_5 g_m - C_1 L_1 R_4\right) + s \left(C_1 R_1 R_4 R_5 g_m - C_1 R_1 R_4\right)}{2 R_4 g_m + 2 R_5 g_m + s^3 \left(2 C_1 C_4 L_1 R_4 R_5 g_m + 2 C_1 C_4 L_1 R_4\right) + s^2 \left(2 C_1 C_4 R_1 R_4 R_5 g_m + 2 C_1 L_1 R_4 g_m + 2 C_1 L_1 R_5 g_m + 2 C_1 L_1\right) + s \left(2 C_1 R_1 R_4 g_m + 2 C_1 R_1 R_5 g_m$$

10.667 INVALID-ORDER-667
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_4s^3 + R_4g_m + s^2\left(-C_1C_5R_1R_4 + C_1L_1R_4g_m\right) + s\left(C_1R_1R_4g_m - C_5R_4\right)}{2C_1C_4C_5L_1R_4s^4 + 2g_m + s^3\left(2C_1C_4C_5R_1R_4 + 2C_1C_4L_1R_4g_m + 2C_1C_5L_1\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_5R_1R_4g_m + 2C_1C_5R_1 + C_1C_5R_4 + 2C_1L_1g_m + 2C_4C_5R_4\right) + s\left(2C_1R_1g_m + 2C_1+2C_4R_4g_m + 2C_5R_4g_m + 2C_5R_5g_m + 2C_5R_5g$$

10.668 INVALID-ORDER-668
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_5L_1R_4R_5s^3 + R_4R_5g_m - R_4 + s^2\left(-C_1C_5R_1R_4R_5 + C_1L_1R_4R_5g_m - C_1L_1R_4\right) + s\left(C_1R_1R_4R_5g_m - C_1R_1R_4 - C_1R_1R_4 - C_1R_1R_4R_5g_m + 2C_1C_4R_1R_4R_5g_m + 2C_1C_4R_1R_4R_5g_m + 2C_1C_4R_1R_4R_5g_m + 2C_1C_4R_1R_4R_5g_m + 2C_1C_4R_1R_4R_5g_m + 2C_1C_4R_1R_4R_5g_m + 2C_1C_5R_1R_4R_5g_m + 2C_1C_5R_1R_5g_m + 2C_1C_5R_1R_5g_m$

10.669 INVALID-ORDER-669
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{R_4 g_m + s^3 \left(C_1 C_5 L_1 R_4 R_5 g_m - C_1 C_5 L_1 R_4 \right) + s^2 \left(C_1 C_5 R_1 R_4 R_5 g_m - C_1 C_5 R_1 R_4 + C_1 L_1 R_4 g_m\right) + s \left(C_1 R_1 R_4 g_m + C_5 R_4 R_5 g_m - C_5 R_4 R_5 g_m - C_5 R_4 R_5 g_m\right)}{2 g_m + s^4 \left(2 C_1 C_4 C_5 L_1 R_4 R_5 g_m + 2 C_1 C_4 L_1 R_4 g_m + 2 C_1 C_5 L_1 R_4 g_m + 2 C_1 C_5 L_1 R_4 g_m + 2 C_1 C_5 R_1 R_5 g_m + 2 C$

10.670 INVALID-ORDER-670 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_5L_1L_5R_4g_ms^4 + R_4g_m + s^3\left(-C_1C_5L_1R_4 + C_1C_5L_5R_1R_4g_m\right) + s^2\left(-C_1C_5R_1R_4 + C_1L_1R_4g_m + C_5L_5R_4g_m\right) + s\left(C_1R_1R_4g_m - C_1C_5L_1L_5R_4g_ms^5 + 2g_m + s^4\left(2C_1C_4C_5L_1R_4 + 2C_1C_4C_5L_5R_4g_m\right) + s^2\left(2C_1C_4C_5L_1L_5g_m\right) + s^3\left(2C_1C_4C_5R_1R_4 + 2C_1C_4L_1R_4g_m + 2C_1C_5L_1R_4g_m + 2C_1C_5L_5R_4g_m\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_5L_5R_4g_m\right) + s^2\left(2C_1C_4C_5R_4R_4 + 2C_1C_5L_5R_4g_m\right) + s^2\left(2C_1C_4R_4R_4g_m\right) + s^2\left(2C_1C_4C_5R_4R_4 + 2C_1C_5L_5R_4g_m\right) + s^2\left(2C_1C_4R_4R_4g_m\right) + s^2\left(2C_1C_4C_5R_4R_4 + 2C_1C_5L_5R_4g_m\right) + s^2\left(2C_1C_4R_4R_4g_m\right) +$

10.671 INVALID-ORDER-671 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_5L_1L_5R_4s^4 - R_4 + s^3\left(-C_1C_5L_5R_1R_4 + C_1L_1L_5R_4g_m\right) + s^2\left(-C_1L_1R_4 + C_1L_5R_1R_4g_m - C_5L_5R_4\right) + s\left(-C_1R_1R_4 + C_1L_5R_4g_m\right) + s^2\left(-C_1L_1R_4 + C_1L_5R$

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10.672 INVALID-ORDER-672 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
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 $C_1C_5L_1L_5R_4g_ms^4 + R_4g_m + s^3(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_1C_5L_5R_1R_4g_m) + s^3(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_1C_5L_5R_5R_5g_m) + s^3(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_1C_5L_5R_5R_5g_m) + s^3(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_1C_5L_5R_5R_5g_m) + s^3(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_1C_5L_5R_5g_m) + s^3(C_1C_5L_1R_4R_5g_m - C_1C_5L_5R_5g_m) + s^3(C_1C_5L_1R_4R_5g_m - C_1C_5L_5R_5g_m) + s^3(C_1C_5L_5R_5g_m - C_1C_5R_5g_m)$

 $H(s) = \frac{C_1C_5L_1L_5R_4g_ms^5 + R_4g_m + s^6\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_1C_5L_5R_1R_4g_m\right) + s^6\left(C_1C_5L_1R_4R_5g_m + S^6\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4 + C_1C_5L_5R_1R_4g_m\right) + s^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4g_m\right) + s^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4g_m\right) + s^6\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4g_m\right) + s^6\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4g_m\right) + s^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4R_5g_m - C_1C_5L_1R_4g_m\right) + s^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4g_m\right) + S^6\left(C_1C_5L_1R_4g_m\right) + s^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4g_m\right) + S^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4g_m + S^6\left(C_1C_5L_1R_4g_m\right) + S^6\left(C_1C_5L_1R_4g_m +$

10.673 INVALID-ORDER-673 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $-C_1C_5L_1L_5R_4R_5s^4 - R_4R_5 + s^3(-C_1C_5L_5R_5)$

 $\frac{c_1c_5L_1L_5R_4R_5s^5 + 2R_4R_5g_m + 2R_5 + s^4(2C_1C_4C_5L_5R_1R_4R_5 + 2C_1C_4L_1L_5R_4R_5g_m + 2C_1C_4L_1L_5R_4R_5g_m + 2C_1C_4L_5R_4R_5g_m + 2C_1C_4L_5R_5R_5g_m + 2C_1C_4L_5R_5g_m + 2C_1C_4L_5R_5R_5g_m + 2C_1C_4L_5R_5R_5g_m + 2C_1C_4L$

10.674 INVALID-ORDER-674 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $R_4R_5g_m - R_4 + s^4(C_1C_5L_1L_5)$

 $H(s) = \frac{1}{2R_4g_m + 2R_5g_m + s^5\left(2C_1C_4C_5L_1L_5R_4R_5g_m + 2C_1C_4C_5L_1L_5R_4g_m + 2C_1C_4C_5L_1L_5R_4g_m + 2C_1C_5L_1L_5R_4g_m + 2C_1C_5L_1L_5R_$

10.675 INVALID-ORDER-675 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{1}{2R_4g_m + 2R_5g_m + s^5\left(2C_1C_4C_5L_1L_5R_4R_5g_m + 2C_1C_4C_5L_1L_5R_4\right) + s^4\left(2C_1C_4C_5L_1R_4R_5 + 2C_1C_4C_5L_5R_1R_4 + 2C_1C_4C_5L_5R_4R_5 + 2C_1C_5L_1L_5R_4g_m + 2C_1C_5L_1L_5R$

10.676 INVALID-ORDER-676 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^3 \left(C_1 C_4 L_1 R_4 R_5 g_m - C_1 C_4 L_1 R_4\right) + s^2 \left(C_1 C_4 R_1 R_4 R_5 g_m - C_1 C_4 R_1 R_4 + C_1 L_1 R_5 g_m - C_1 L_1\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1 + C_4 R_4 R_5 g_m - C_4 R_4\right) - 1}{2 g_m + s^3 \left(2 C_1 C_4 L_1 R_5 g_m + 2 C_1 C_4 L_1 R_5 g_m + 2 C_1 C_4 R_1 R_5 g_m + 2 C_1 C_4 R_1 + C_1 C_4 R_4 + 2 C_1 C_4 R_5 + 2 C_1 L_1 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_4 R_4 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 R_5 g_m - C_4 R_5 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 R_5 g_m - C_4 R_5 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 R_5 g_m - C_4 R_5 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 R_5 g_m - C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 R_5 g_m - C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 R_5 g_m + 2 C_4 R_5 g_m + 2 C_4 R_5 g_m\right) + s \left(2 C_1 R_1 R_5 g_m +$

10.677 INVALID-ORDER-677 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1R_4s^4 + g_m + s^3\left(-C_1C_4C_5R_1R_4 + C_1C_4L_1R_4g_m - C_1C_5L_1\right) + s^2\left(C_1C_4R_1R_4g_m - C_1C_5R_1 + C_1L_1g_m - C_4C_5R_4\right) + s\left(C_1R_1g_m + C_4R_4g_m - C_5\right)}{s^4\left(2C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5R_1R_4g_m + 2C_1C_4C_5R_1 + C_1C_4C_5R_4 + 2C_1C_4L_1g_m + 2C_1C_5L_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5R_4g_m + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$

10.678 INVALID-ORDER-678 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1R_4R_5s^4 + R_5g_m + s^3\left(-C_1C_4C_5R_1R_4R_5 + C_1C_4L_1R_4R_5g_m - C_1C_4L_1R_4 - C_1C_5L_1R_5\right) + s^2\left(C_1C_4R_1R_4R_5g_m - C_1C_4R_1R_4 - C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1 - C_4C_5R_4R_5\right) + s^2\left(2C_1C_4C_5L_1R_4R_5g_m + 2C_1C_4C_5R_1R_4R_5g_m + 2C_1C_4L_1R_4g_m + 2C_1C_4L_1R_5g_m + 2C_1C_4L_1R_5g_m + 2C_1C_4R_1R_5g_m + 2C$

10.679 INVALID-ORDER-679 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{g_m + s^4 \left(C_1 C_4 C_5 L_1 R_4 R_5 g_m - C_1 C_4 C_5 L_1 R_4 \right) + s^3 \left(C_1 C_4 C_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 R_1 R_4 + C_1 C_4 L_1 R_4 g_m + C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1 \right) + s^2 \left(C_1 C_4 R_1 R_4 g_m + C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_1 L_1 g_m + C_4 C_5 R_4 R_5 g_m - C_4 C_5 R_4 \right) + s \left(C_1 R_1 g_m + C_4 R_4 g_m + C_4 C_5 R_4 R_5 g_m - C_$

10.680 INVALID-ORDER-680 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_4C_5L_1L_5R_4g_ms^5 + g_m + s^4\left(-C_1C_4C_5L_1R_4 + C_1C_4C_5L_1R_4g_m + C_1C_5L_1L_5g_m\right) + s^3\left(-C_1C_4C_5R_1R_4 + C_1C_4L_1R_4g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m + C_4C_5L_5R_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m - C_1C_5R_1 + C_1L_1g_m - C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_4C_5L_1R_4g_m + C_4C_5L_5R_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m - C_1C_5R_1 + C_1L_1g_m - C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_4C_5L_1R_4g_m + C_4C_5L_5R_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m - C_1C_5R_4 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_4C_5R_4 + C_5L_5g_m\right) + s\left(C_1R_1g_m + C_4C_5R_4 + C_5R_4g_m\right) + s\left(C_1R_1g_m + C_4C_5R_4g_m\right) + s\left(C_1R_1$

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10.681 INVALID-ORDER-681 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
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 $H(s) = \frac{-C_1C_4C_5L_1L_5R_4s^5 + s^4\left(-C_1C_4C_5L_5R_1R_4 + C_1C_4L_1L_5R_4g_m - C_1C_5L_1L_5\right) + s^3\left(-C_1C_4L_1R_4 + C_1C_4L_5R_1R_4g_m - C_1C_5L_5R_1 + C_1L_1L_5g_m - C_4C_5L_5R_4\right) + s^2\left(-C_1C_4R_1R_4 - C_1L_1 + C_1L_5R_4g_m + C_1C_5L_5R_4\right) + s^2\left(-C_1C_4C_5L_5R_4R_4g_m + C_1C_5L_5R_4R_4g_m + C_1C_5L_5R_4\right) + s^2\left(-C_1C_4R_1R_4 + C_1C_4L_5R_4g_m + C_1C_5L_5R_4\right) + s^2\left(-C_1C_4R_1R_4 + C_1C_4C_5L_5R_4\right) + s^2$

10.682 INVALID-ORDER-682
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_5R_4g_ms^5 + g_m + s^4\left(C_1C_4C_5L_1R_4R_5g_m - C_1C_4C_5L_1R_4 + C_1C_4C_5L_1R_4g_m + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_4C_5R_1R_4R_5g_m - C_1C_4C_5R_1R_4 + C_1C_4L_1R_4g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m + C_4C_5L_5R_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_5L_1R_5g_m - C_1C_4C_5R_1R_4g_m + C_1C_5L_1R_5g_m - C_1C_4C_5R_1R_4g_m + C_1C_5L_1R_5g_m - C_1C_5L_1R_5g_m - C_1C_5L_1R_5g_m + C_4C_5L_5R_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_5L_1R_5g_m - C_1C_4C_5R_1R_4g_m + C_1C_5L_1R_5g_m - C_1C_5L_1R_4g_m + C_1C_5L_1R_4g_$

10.683 INVALID-ORDER-683 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_5R_4R_5s^5 - R_5 + s^4\left(-C_1C_4C_5L_5R_1R_4R_5 + C_1C_4L_1L_5R_4R_5g_m - C_1C_4L_1L_5R_4 - C_1C_5L_1L_5R_5\right) + s^3\left(-C_1C_4L_1R_4R_5 + C_1C_4L_1L_5R_4R_5g_m + 2C_1C_4L_1L_5R_4g_m + 2C_1C_4L_1L_5R_4g_m + 2C_1C_4L_1L_5R_5g_m + 2C_1C_4L_1L_5R_5g_m + 2C_1C_4L_1R_5R_5g_m + 2C_1C_4L_1R_5$

10.684 INVALID-ORDER-684 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_5 R_1 R_4 + C_1 C_4 L_1 L_5 R_4 g_m + C_1 C_5 L_1 L_5 R_5 g_m - C_1 C_4 L_1 R_4 R_5 g_m - C_1 C_4 L_1$

10.685 INVALID-ORDER-685 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^5 \left(C_1 C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_1 C_4 C_5 L_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_1 L_5 R_5 g_m - C_1 C_4 C_5 L_1 R_5 R_5 g_m - C_1 C_5 L_1 R_5 R_5 g_m - C_1 C_5 L_1 R_5 R_5 g_m - C_1 C$

10.686 INVALID-ORDER-686 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{R_5 g_m + s^4 \left(C_1 C_4 L_1 L_4 R_5 g_m - C_1 C_4 L_1 L_4\right) + s^3 \left(C_1 C_4 L_4 R_1 R_5 g_m - C_1 C_4 L_4 R_1\right) + s^2 \left(C_1 L_1 R_5 g_m - C_1 L_1 + C_4 L_4 R_5 g_m - C_4 L_4\right) + s \left(C_1 R_1 R_5 g_m - C_1 R_1\right) - 1}{2 C_1 C_4 L_1 L_4 g_m s^4 + 2 g_m + s^3 \left(2 C_1 C_4 L_1 R_5 g_m + 2 C_1 C_4 L_4 R_1 g_m + C_1 C_4 L_4\right) + s^2 \left(2 C_1 C_4 R_1 R_5 g_m + 2 C_1 C_4 R_1 + 2 C_1 C_4 R_5 + 2 C_1 L_1 g_m + 2 C_4 L_4 g_m\right) + s \left(2 C_1 R_1 g_m + C_1 + 2 C_4 R_5 g_m + 2 C_4 L_4\right)}$

10.687 INVALID-ORDER-687 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_4s^5 + g_m + s^4\left(-C_1C_4C_5L_4R_1 + C_1C_4L_1L_4g_m\right) + s^3\left(C_1C_4L_4R_1g_m - C_1C_5L_1 - C_4C_5L_4\right) + s^2\left(-C_1C_5R_1 + C_1L_1g_m + C_4L_4g_m\right) + s\left(C_1R_1g_m - C_5\right)}{2C_1C_4C_5L_1L_4g_ms^5 + s^4\left(2C_1C_4C_5L_1 + 2C_1C_4C_5L_4\right) + s^3\left(2C_1C_4C_5R_1 + 2C_1C_4L_1g_m + 2C_1C_5L_1g_m + 2C_4C_5L_4g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_5R_1g_m + C_1C_5 + 2C_4C_5\right) + s\left(2C_4g_m + 2C_5g_m\right)}$

10.688 INVALID-ORDER-688 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_5s^5 + R_5g_m + s^4\left(-C_1C_4C_5L_4R_1R_5 + C_1C_4L_1L_4R_5g_m - C_1C_4L_1L_4\right) + s^3\left(C_1C_4L_4R_1R_5g_m - C_1C_4L_4R_1 - C_1C_5L_1R_5 - C_4C_5L_4R_5\right) + s^2\left(-C_1C_5R_1R_5 + C_1L_1R_5g_m - C_1L_1R_5g_m - C_1L_1R_5g_m - C_1C_4L_4R_1R_5g_m + s^4\left(2C_1C_4C_5L_1R_5 + 2C_1C_4C_5L_4R_5g_m + s^4\left(2C_1C_4C_5L_4R_5g_m + 2C_1C_4L_1L_4g_m\right) + s^3\left(2C_1C_4C_5R_1R_5 + 2C_1C_4L_1R_5g_m + 2C_1C_4L_1R_5g_m + 2C_1C_4L_4R_1g_m + C_1C_4L_4R_1g_m +$

10.689 INVALID-ORDER-689 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{g_m + s^5 \left(C_1 C_4 C_5 L_1 L_4 R_5 g_m - C_1 C_4 C_5 L_1 L_4\right) + s^4 \left(C_1 C_4 C_5 L_4 R_1 R_5 g_m - C_1 C_4 C_5 L_4 R_1 + C_1 C_4 L_1 L_4 g_m\right) + s^3 \left(C_1 C_4 L_4 R_1 g_m + C_1 C_5 L_1 R_5 g_m - C_1 C_5 L_1 + C_4 C_5 L_4 R_5 g_m - C_1 C_5 R_1 R_5 g_m - C_1 C_5 R_1 + C_1 L_1 g_m + C_4 L_4 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_4 C_5 L_4 R_1 g_m + C_1 C_4 C_5 L_4 R_1 g_m + C_1 C_4 C_5 R_1 + C_1 C_4 C_5 R_1 R_5 g_m + C_1 C_4 C$

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10.690 INVALID-ORDER-690 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
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 $H(s) = \frac{C_1C_4C_5L_1L_4L_5g_ms^6 + g_m + s^5\left(-C_1C_4C_5L_1L_4 + C_1C_4C_5L_4L_5g_m\right) + s^4\left(-C_1C_4C_5L_4L_5g_m\right) + s^4\left(-C_1C_4C_5L_4L_5g_m + C_4C_5L_4L_5g_m\right) + s^3\left(C_1C_4L_4R_1g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m - C_4C_5L_4\right) + s^2\left(-C_1C_5R_1 + C_1L_1g_m + C_4L_4g_m + C_5L_5g_m\right) + s^4\left(-C_1C_4C_5L_4R_1g_m + C_1C_4L_5g_m\right) + s^4\left(-C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m\right) + s^4\left(-C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m\right) + s^4\left(-C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m\right) + s^4\left(-C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m\right) + s^4\left(-C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1g_m + C_1C_4C_5L_4R_1$

10.691 INVALID-ORDER-691
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4L_5s^6 + s^5 \left(-C_1C_4C_5L_4L_5R_1 + C_1C_4L_1L_4 + C_1C_4L_1L_4 + C_1C_4L_4L_5R_1g_m - C_1C_5L_1L_5 - C_4C_5L_4L_5\right) + s^3 \left(-C_1C_4L_4R_1 - C_1C_5L_5R_1 + C_1L_1L_5g_m + C_4L_4L_5g_m\right) + s^2}{2C_1C_4C_5L_1L_4L_5g_ms^6 + 2g_m + s^5 \left(2C_1C_4C_5L_4L_5R_1g_m + C_1C_4C_5L_4L_5\right) + s^4 \left(2C_1C_4C_5L_4L_5g_m + 2C_1C_4L_4L_5g_m\right) + s^3 \left(2C_1C_4L_1 + 2C_1C_4L_4R_1g_m + C_1C_4L_4R_1g_m + C_1C_4L_4R_1g_m + C_1C_4L_4R_1g_m\right) + s^4 \left(2C_1C_4C_5L_4L_5g_m\right) + s^4 \left(2C_1C_4C_5L_5L_5g_m\right) + s^4 \left(2C_1C_4C_5L_5L_5g_m\right) + s^4 \left($

10.692 INVALID-ORDER-692
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5g_ms^6 + g_m + s^5\left(C_1C_4C_5L_1L_4R_5g_m - C_1C_4C_5L_1L_4 + C_1C_4C_5L_4L_5R_1g_m\right) + s^4\left(C_1C_4C_5L_4R_1R_5g_m - C_1C_4C_5L_4R_1 + C_1C_4L_1L_4g_m + C_1C_5L_1L_5g_m\right) + s^3\left(C_1C_4L_4R_1g_m + C_1C_5L_1R_5g_m - C_1C_5L_1 + C_1C_5L_5R_1g_m + C_4C_5L_4R_1R_5g_m\right) + s^4\left(2C_1C_4C_5L_1L_4g_m + 2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1R_5g_m\right) + s^4\left(2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1R_5g_m\right) + s^4\left(2C_1C_4C_$

10.693 INVALID-ORDER-693
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_5s^6 - R_5 + s^5\left(-C_1C_4C_5L_4L_5R_1R_5 + C_1C_4L_1L_4L_5R_5g_m - C_1C_4L_1L_4L_5\right) + s^4\left(-C_1C_4L_1L_4R_5 + C_1C_4L_4L_5R_1R_5g_m - C_1C_4L_4L_5R_5g_m - C_1C_4L_4L_5R_5g_m + C_1C_4L_5L_5R_5g_m + C_1C_4L_5L$

10.694 INVALID-ORDER-694
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

10.695 INVALID-ORDER-695
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{R_5g_m + s^6\left(C_1C_4C_5L_1L_4L_5R_5g_m - C_1C_4C_5L_1L_4R_5 + C_1C_4C_5L_4L_5R_1R_5g_m - C_1C_4C_5L_4L_5R_1\right) + s^4\left(-C_1C_4C_5L_4R_1R_5 + C_1C_4L_5L_4R_5g_m - C_1C_4C_5L_4L_5R_1\right) + s^4\left(-C_1C_4C_5L_4R_1R_5 + C_1C_4C_5L_4R_1R_5g_m - C_1C_4C_5L_4L_5R_1g_m + C_1C_4C_5L_4L_5R_1g_m + C_1C_4C_5L_4R_1R_5g_m + C$

10.696 INVALID-ORDER-696
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)$$

 $H(s) = \frac{s^3 \left(C_1 L_1 L_4 R_5 g_m - C_1 L_1 L_4 \right) + s^2 \left(C_1 L_4 R_1 R_5 g_m - C_1 L_4 R_1 \right) + s \left(L_4 R_5 g_m - L_4 \right)}{2 R_5 g_m + s^4 \left(2 C_1 C_4 L_1 L_4 R_5 g_m + 2 C_1 C_4 L_4 L_4 \right) + s^3 \left(2 C_1 C_4 L_4 R_1 R_5 g_m + 2 C_1 L_4 L_4 R_5 + 2 C_1 L_1 L_4 g_m \right) + s^2 \left(2 C_1 L_1 R_5 g_m + 2 C_1 L_4 + 2 C_4 L_4 R_5 g_m + 2 C_4 L_4 \right) + s \left(2 C_1 R_1 R_5 g_m + 2 C_1 R_5 g_m + 2 C_1$

10.697 INVALID-ORDER-697
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{-C_1C_5L_1L_4s^4 + L_4g_ms + s^3\left(-C_1C_5L_4R_1 + C_1L_1L_4g_m\right) + s^2\left(C_1L_4R_1g_m - C_5L_4\right)}{2C_1C_4C_5L_1L_4s^5 + 2g_m + s^4\left(2C_1C_4C_5L_4R_1 + 2C_1C_5L_1L_4g_m\right) + s^3\left(2C_1C_4L_4R_1g_m + 2C_1C_5L_1 + 2C_1C_5L_4R_1g_m + C_1C_5L_4\right) + s^2\left(2C_1C_5R_1 + 2C_1L_1g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_5R_1 + 2C_1L_1g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_5R_1 + 2C_1C_5L_4R_1g_m + C_5L_4\right)}$

10.698 INVALID-ORDER-698
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_5L_1L_4R_5s^4 + s^3\left(-C_1C_5L_4R_1R_5 + C_1L_1L_4R_5g_m - C_1L_1L_4\right) + s^2\left(C_1L_4R_1R_5g_m - C_1L_4R_1 - C_5L_4R_5\right) + s\left(L_4R_5S_m - C_1L_4R_5s^4 + s^3\left(-C_1C_5L_4R_1R_5 + C_1L_4R_5g_m - C_1L_4R_1 - C_5L_4R_5\right) + s\left(L_4R_5S_m - C_1L_4R_5s^4 + s^3\left(-C_1C_5L_4R_1R_5 + C_1L_4R_5g_m - C_1L_4R_1 - C_5L_4R_5\right) + s\left(L_4R_5S_m - C_1L_4R_5s^4 + s^3\left(-C_1C_5L_4R_1R_5 + C_1L_4R_5s^4 + s^3\left(-C_1C_5L_4R_1R_5s^4 + s^3c^4\right) + s^3c^2\left(-C_1C_5L_4$

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10.699 INVALID-ORDER-699 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           L_{4}g_{m}s + s^{4}\left(C_{1}C_{5}L_{1}L_{4}R_{5}g_{m} - C_{1}C_{5}L_{1}L_{4}\right) + s^{3}\left(C_{1}C_{5}L_{4}R_{1}R_{5}g_{m} - C_{1}C_{5}L_{4}R_{1} + C_{1}L_{1}L_{4}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{1}g_{m} + C_{5}L_{4}R_{5}g_{m} - C_{5}L_{4}R_{1}R_{5}g_{m} - C_{5}L_{4}R_{1}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{1}g_{m} + C_{5}L_{4}R_{5}g_{m} - C_{5}L_{4}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{1}g_{m} + C_{5}L_{4}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{5}g_{m} - C_{5}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{5}g_{m} - C_{5}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{5}R_{5}g_{m}\right) + s^{2}\left(C_{1}L_{5}R_{5}g_{m}\right) + s
H(s) = \frac{L_4 g_m s + s \cdot (C_1 C_5 L_1 L_4 R_5 g_m - C_1 C_5 L_1 L_4) + s \cdot (C_1 C_5 L_4 R_1 R_5 g_m - C_1 C_5 L_4 R_1 + C_1 L_1 L_4 g_m) + s \cdot (C_1 L_4 R_1 g_m + C_5 L_4 R_5 g_m - C_1 C_5 L_4 R_1 R_
10.700 INVALID-ORDER-700 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_{1}C_{5}L_{1}L_{4}L_{5}g_{m}s^{5} + L_{4}g_{m}s + s^{4}\left(-C_{1}C_{5}L_{1}L_{4} + C_{1}C_{5}L_{4}L_{5}R_{1}g_{m}\right) + s^{3}\left(-C_{1}C_{5}L_{4}R_{1} + C_{1}L_{1}L_{4}g_{m} + C_{5}L_{4}L_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{1}g_{m} - C_{1}C_{5}L_{4}R_{1} + C_{1}L_{4}R_{1}g_{m} + C_{5}L_{4}L_{5}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{1}g_{m} - C_{1}C_{5}L_{4}R_{1} + C_{1}L_{5}L_{4}R_{1}\right) + s^{2}\left(C_{1}L_{4}R_{1}g_{m} - C_{1}C_{5}L_{4}R_{1}\right) + s^{2}\left(C
                                                                    \frac{C_1C_5L_1L_4L_5g_ms^\circ + L_4g_ms + s^\circ (-C_1C_5L_1L_4 + C_1C_5L_4L_5R_1g_m) + s^\circ (-C_1C_5L_4R_1 + C_1L_1L_4g_m + C_5L_4L_5g_m) + s^\circ (-C_1C_5L_4R_1 + C_1L_4L_5g_ms^\circ + L_4g_ms + s^\circ (2C_1C_4C_5L_4L_5g_m) + s^\circ (2C_1C_4C_5L
10.701 INVALID-ORDER-701 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
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 $-C_{1}C_{5}L_{1}L_{4}L_{5}s^{5}-L_{4}s+s^{4}\left(-C_{1}C_{5}L_{4}L_{5}R_{1}+C_{1}L_{1}L_{4}L_{5}g_{m}\right)+s^{3}\left(-C_{1}L_{1}L_{4}+C_{1}L_{4}L_{5}R_{1}g_{m}-C_{5}L_{4}L_{5}\right)+s^{2}\left(-C_{1}L_{4}R_{1}+C_{1}L_{4}L_{5}g_{m}\right)+s^{2}\left(-C_{1}L_{4}L_{5}R_{1}+C_{1}L_{4}L_{5$ $H(s) = \frac{-c_1c_5L_1L_4L_5s - L_4s + s - (-c_1c_5L_4L_5g_{m_1} + c_1L_1L_4L_5g_{m_1} + s - (-c_1c_5L_4L_5g_{m_1} + s - (-c_1c_5L_4L_5g_{m_1}$

10.702 INVALID-ORDER-702 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

10.703 INVALID-ORDER-703 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $-C_1C_5L_1L_4L_5R_5s^5 - L_4R_5s + s^4(-C_1C_5L_4R_5s^5)$ $H(s) = \frac{\frac{1}{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{5}s^{6} + 2R_{5} + s^{5}\left(2C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}R_{5} + 2C_{1}C_{4}L_{1}L_{4}L_{5}R_{5}g_{m} + 2C_{1}C_{4}L_{1}L_{4}L_{5}R_{5}g_{m} + 2C_{1}C_{4}L_{4}L_{5}R_{5}g_{m} + 2C_{1}C_{5}L_{4}L_{5}R_{5}g_{m} + 2C_{1}C_{5}L_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{5}L_{5}L$

10.704 INVALID-ORDER-704 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

10.705 INVALID-ORDER-705 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

10.706 INVALID-ORDER-706 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $\frac{R_5g_m + s^4 \left(C_1C_4L_1L_4R_5g_m - C_1C_4L_1L_4\right) + s^3 \left(C_1C_4L_1R_4R_5g_m - C_1C_4L_1R_4 + C_1C_4L_4R_1R_5g_m - C_1C_4L_1R_4 + C_1L_1R_5g_m - C_1L_1 + C_4L_4R_5g_m - C_1L_1 + C_4L_4R_5g_m - C_4L_4\right) + s \left(C_1R_1R_5g_m - C_1R_1 + C_4R_4R_5g_m - C_4R_4\right) - 1}{2C_1C_4L_1L_4g_ms^4 + 2g_m + s^3 \left(2C_1C_4L_1R_4g_m + 2C_1C_4L_1R_5g_m + 2C_1C_4L_1 + 2C_1C_4L_4R_1g_m + C_1C_4L_4\right) + s^2 \left(2C_1C_4R_1R_4g_m + 2C_1C_4R_1 + C_1C_4R_4 + 2C_1C_4R_5 + 2C_1L_1g_m + 2C_4L_4g_m\right) + s \left(2C_1R_1g_m + C_1+2C_4R_4g_m + 2C_4R_5g_m + 2C$

10.707 INVALID-ORDER-707 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_4s^5 + g_m + s^4\left(-C_1C_4C_5L_1R_4 - C_1C_4C_5L_4R_1 + C_1C_4L_1L_4g_m\right) + s^3\left(-C_1C_4C_5R_1R_4 + C_1C_4L_1R_4g_m + C_1C_4L_1R_4g_m + C_1C_4L_1R_4g_m - C_1C_5L_1 - C_4C_5L_4\right) + s^2\left(C_1C_4R_1R_4g_m - C_1C_5R_1 + C_1L_1g_m - C_4C_5R_4 + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_4C_5R_4 + C_4C_5R_4\right) + s^2\left(C_1C_4R_1g_m + 2C_1C_4C_5L_1R_4g_m + 2C_1C_4C_5R_4\right) + s^2\left(C_1C_4R_1g_m + 2C_1C_4C_5R_4 + C_4C_5R_4\right) + s^2\left(C_1C_4R_1g_m + 2C_1C_4C_5R_4 + C_4C_5R_4\right) + s^2\left(C_1C_4R_1g_m + 2C_1C_4C_5R_4 + C_4C_5R_4\right) + s^2\left(C_1C_4R_1g_m + 2C_1C_4C_5R_4\right) + s^2\left(C_1C_4R_1g_m + 2C_1C_$

- 10.708 INVALID-ORDER-708 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
- $H(s) = \frac{-C_1C_4C_5L_1L_4R_5s^5 + R_5g_m + s^4\left(-C_1C_4C_5L_1R_4R_5 C_1C_4C_5L_4R_1R_5 + C_1C_4L_1L_4\right) + s^3\left(-C_1C_4C_5R_1R_4R_5 + C_1C_4L_1R_4R_5g_m C_1C_4L_1R_4 + C_1C_4L_1R_4R_5g_m C_1C_4L_1R_4\right) + s^3\left(-C_1C_4C_5R_1R_4R_5 + C_1C_4L_1R_4R_5g_m C_1C_4L_1R_4g_m C_1C_4L_1R_$
- **10.709** INVALID-ORDER-709 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{g_m + s^5 \left(C_1 C_4 C_5 L_1 L_4 R_5 g_m C_1 C_4 C_5 L_1 L_4\right) + s^4 \left(C_1 C_4 C_5 L_1 R_4 R_5 g_m C_1 C_4 C_5 L_4 R_1 R_5 g_m C_1 C_4 C_5 L_4 R_1 R_5 g_m C_1 C_4 C_5 L_4 R_1 R_5 g_m C_1 C_4 C_5 L_1 R_4 R_5 g_m C_1 C_4 C_5 L_1 R$
- 10.710 INVALID-ORDER-710 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{C_1C_4C_5L_1L_4L_5g_ms^6 + g_m + s^5\left(-C_1C_4C_5L_1L_4 + C_1C_4C_5L_1L_5R_4g_m + C_1C_4C_5L_4R_4 C_1C_4C_5L_4R_4 C_1C_4C_5L_4R_4 C_1C_4C_5L_5R_1R_4g_m + C_1C_4L_1L_4g_m + C_1C_4L_5g_m\right) + s^3\left(-C_1C_4C_5R_1R_4 + C_1C_4L_1R_4g_m + C_1C_4C_5L_1R_4g_m + C_1C_4C_5L_$
- 10.711 INVALID-ORDER-711 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$
- $H(s) = \frac{-C_1C_4C_5L_1L_4L_5s^6 + s^5\left(-C_1C_4C_5L_1L_5R_4 C_1C_4C_5L_4L_5R_1 + C_1C_4L_1L_4E_5g_m\right) + s^4\left(-C_1C_4C_5L_5R_1R_4 C_1C_4L_1L_4 + C_1C_4L_1L_5R_4g_m + C_1C_4L_4L_5R_1g_m C_1C_5L_1L_5 C_4C_5L_4L_5\right) + s^3\left(-C_4C_5L_4L_5g_ms^6 + 2g_m + s^5\left(2C_1C_4C_5L_1L_5R_4g_m + 2C_1C_4C_5L_4L_5R_1g_m + C_1C_4C_5L_4L_5\right) + s^4\left(2C_1C_4C_5L_5R_1R_4g_m + 2C_1C_4C_5L_5R_4 + 2C_1C_4L_4L_5g_m + 2C_1C_4L_4L_5g_m + 2C_4C_5L_4L_5g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5g_m\right) + s^4\left(2C_4C_5L_5R_4R_4 C_4C_5L_5R_4R_4 C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_5R_4R_4 C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_5R_4R_4 + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_5R_4R_4 + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_5R_4R_4 + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m + 2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m\right) + s^4\left(2C_4C_5L_4L_5R_4g_m\right) + s^4$
- 10.712 INVALID-ORDER-712 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{C_1C_4C_5L_1L_4L_5g_ms^6 + g_m + s^5\left(C_1C_4C_5L_1L_4R_5g_m C_1C_4C_5L_1L_4 + C_1C_4C_5L_1L_5R_4g_m + C_1C_4C_5L_1R_4R_5g_m C_1C_4C_5L_1R_4 + C_1C_4C_5L_4R_1R_5g_m C_1C_4C_5L_4R_1 + C_1C_4C_5L_$
- 10.713 INVALID-ORDER-713 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
- $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_5s^6 R_5 + s^5\left(-C_1C_4C_5L_1L_5R_4R_5 C_1C_4C_5L_4L_5R_1R_5 + C_1C_4L_1L_4L_5R_5g_m C_1C_4L_1L_4L_5\right) + s^4\left(-C_1C_4C_5L_5R_4R_5 C_1C_4C_5L_4L_5R_5g_m + s^5\left(2C_1C_4C_5L_4L_5R_5g_m + 2C_1C_4C_5L_4L_5R_5g_m + 2C_1C_4C_5L_4L_5R_5g_m + 2C_1C_4C_5L_4L_5R_5g_m + 2C_1C_4C_5L_5R_4R_5 + 2C_1C_4C_5L_5R_4R_5g_m + 2C_1C_4C_5L_5R_5R_5g_m + 2C_1C_4C_5L_5R_5R_5g_m + 2C_1C_4C_5L_5R_5g_m + 2C_1C_4C_5L_5R_5$
- 10.714 INVALID-ORDER-714 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$
- $H(s) = \frac{R_5 g_m + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_5 g_m C_1 C_4 C_5 L_1 L_4 L_5\right) + s^5 \left(C_1 C_4 C_5 L_1 L_5 R_4 R_5 g_m C_1 C_4 C_5 L_1 L_5 R_4 + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m C_1 C_4 C_5 L_4 L_5 R_1 R_4 R_5 g_m C_1 C_4 C_5 L_5 R_1 R_4 R_5 g_m C_1 C_4 C_5 L_5 R_1 R_4 R_5 g_m C_1 C_4 C_5 L_5 R_1 R_4 + C_1 C_4 L_1 L_4 R_5 g_m C_1 C_4 L_5 L_4 L_5 R_4 R_5 g_m C_1 C_4 C_5 L_5 R_1 R_5 g_m C_1 C_4 C_5 L$
- 10.715 INVALID-ORDER-715 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$
- $H(s) = \frac{R_5 g_m + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_5 g_m C_1 C_4 C_5 L_1 L_4 R_5 + C_1 C_4 C_5 L_1 L_5 R_4 + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m C_1 C_4 C_5 L_4 L_5 R_1\right) + s^4 \left(-C_1 C_4 C_5 L_1 L_4 R_5 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 R_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 R_5 R_1 R_5 g_m + C_1 C_4 C_5 L_4 R_5 R_1 R_5 R_$
- 10.716 INVALID-ORDER-716 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$
- $H(s) = \frac{s^3 \left(C_1 L_1 L_4 R_4 R_5 g_m C_1 L_1 L_4 R_4 \right) + s^2 \left(C_1 L_4 R_1 R_4 R_5 g_m C_1 L_4 R_1 R_4 \right) + s \left(L_4 R_4 R_5 g_m L_4 R_4 \right)}{2 R_4 R_5 g_m + 2 R_4 + s^4 \left(2 C_1 C_4 L_1 L_4 R_4 g_m + 2 C_1 L_4 L_4 R_4 g_m + 2 C_1 L_4 L_4 R_4 g_m + 2 C_1 L_4 L_4 R_5 g_m + 2 C_1 L_4 R_4 R_5 g_m + 2 C_1 L_4 R_5 g_m + 2 C_1 L_4 R_4 R_5 g_m + 2 C_1 L_4 R_5$

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10.717 INVALID-ORDER-717 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)
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 $-C_{1}C_{5}L_{1}L_{4}R_{4}s^{4} + L_{4}R_{4}g_{m}s + s^{3}\left(-C_{1}C_{5}L_{4}R_{1}R_{4} + C_{1}L_{1}L_{4}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{1}R_{4}g_{m} - C_{5}L_{4}R_{4}\right)$ $H(s) = \frac{-C_1C_5L_1L_4R_4s^4 + L_4R_4g_ms + s^3\left(-C_1C_5L_4R_1R_4 + C_1L_1L_4R_4g_m\right) + s^2\left(C_1L_4R_1R_4g_m - C_5L_4R_4\right)}{2C_1C_4C_5L_1L_4R_4s^5 + 2R_4g_m + s^4\left(2C_1C_5L_4R_1R_4 + 2C_1C_5L_4R_1R_4g_m + 2C_1C_5L_4R_1 +$

10.718 INVALID-ORDER-718 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $\frac{-C_1C_5L_1L_4R_4R_5s + s^2}{2C_1C_4C_5L_1L_4R_4R_5s^5 + 2R_4R_5g_m + 2R_4 + s^4\left(2C_1C_4C_5L_4R_1R_4R_5 + 2C_1C_4L_1L_4R_4R_5g_m + 2C_1C_5L_1L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5$

10.719 INVALID-ORDER-719 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$

10.720 INVALID-ORDER-720 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1 C_5 L_1 L_4 L_5 R_4 g_m s^5 + L_4 R_4 g_m}{2 C_1 C_4 C_5 L_1 L_4 L_5 R_4 g_m s^6 + 2 R_4 g_m + s^5 \left(2 C_1 C_4 C_5 L_1 L_4 R_4 g_m + 2 C_1 C_5 L_4 L_5 R_4 g_m + 2 C_1 C_5 L_5 L_5 L_5 R_5 g_m + 2 C_1 C_5 L_5 R_5 g_m + 2 C_1 C_5 L_5 L_5 R_5 g_m + 2 C_1 C_5 L_5 L_5 R_5$

10.721 INVALID-ORDER-721 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

 $-C_1C_5L_1L_4L_5R_4s^5-L_4R_4$

10.722 INVALID-ORDER-722 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{1}{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}g_{m}s^{6} + 2R_{4}g_{m} + s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}R_{4}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{4}L_{5}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{4}R_{4}R_{5}g_{m} + 2C_{1}C_{5}L_{4}R_{5}R_{5}g_{m} + 2C_{1}C_{5}L_{5}L_{5}R_{5}R_{5}g_{m} + 2C_{1}C_{5}L_{5}R_{5}R_{5}g_{m} + 2C_{1}C_{5}R_{5}R_{5}R_{5}g_{m} + 2C_{1}C_{5}R_{5}R_{5}g_{m} + 2C_{1}C_{5}R_{5}R_{5}g_$

10.723 INVALID-ORDER-723 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $\overline{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5}s^{6} + 2R_{4}R_{5} + s^{5}\left(2C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}R_{4}R_{5} + 2C_{1}C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m} + 2C_{1}C_{4}L_{1}L_{4}L_{5}R_{4}R_{5}g_{m} + 2C_{1}C_{4}L_{4}L_{5}R_{4}R_{5}g_{m} + 2C_{1}C$

10.724 INVALID-ORDER-724 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $\overline{2R_4R_5g_m + 2R_4 + s^6\left(2C_1C_4C_5L_1L_4L_5R_4g_m + 2C_1C_4C_5L_1L_4L_5R_4g_m + 2C_1C_4C_5L_4L_5R_4R_5g_m + 2C_1C_4L_5L_4L_5R_4g_m + 2C_1C_5L_1L_4L_5R_4g_m + 2C_1C_5L_5L_5R_4g_m + 2C_1C_5L_5L_5R_5g_m + 2C_1C_5L_5L_5R_5g_m + 2C_1C_5L_5R_5g_m + 2C_1C_5L_5R_5g_m$

10.725 INVALID-ORDER-725 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.726 INVALID-ORDER-726 Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, R_5, \infty\right)
H(s) = \frac{R_4R_5g_m - R_4 + s^4\left(C_1C_4L_1L_4R_4g_5g_m - C_1C_4L_1L_4R_4\right) + s^3\left(C_1C_4L_4R_1R_4g_5g_m - C_1C_4L_4R_1R_4 + C_1L_1L_4R_5g_m - C_1L_1L_4\right) + s^2\left(C_1L_1R_4R_5g_m - C_1L_1R_4 + C_1L_4R_1g_5g_m - C_1L_4R_1 + C_4L_4R_4g_5g_m - C_4L_4R_4g_
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- 10.728 INVALID-ORDER-728 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$
- $H(s) = \frac{-C_1C_4C_5L_1L_4R_4R_5s^5 + R_4R_5g_m R_4 + s^4\left(-C_1C_4C_5L_4R_1R_4R_5 + C_1C_4L_1L_4R_4R_5g_m C_1C_4L_1L_4R_4 C_1C_5L_1L_4R_5\right) + s^4\left(2C_1C_4C_5L_4R_1R_4R_5g_m + 2C_1C_4C_5L_4R_1R_4R_5g_m + 2C_1C_4L_1L_4R_4g_m + 2C_1C_4L_1L_4R_5g_m + 2C_1C_4L_1L_4R_5g_m + s^5\left(2C_1C_4L_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4L_4R_4R_5g_m + s^5\left(2C_1C_4C_5L_4R_4R_5g_m + s^5\left(2C_1$
- 10.729 INVALID-ORDER-729 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$
- 10.730 INVALID-ORDER-730 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_4g_ms^6 + R_4g_m + s^5\left(-C_1C_4C_5L_1L_4R_4 + C_1C_4C_5L_4L_5R_1R_4g_m + C_1C_5L_1L_4R_4g_m + C_1C_5L_1L_4R_4g_m + C_1C_5L_1L_4R_4g_m + C_1C_5L_1L_4R_4g_m + C_1C_5L_4L_5R_4g_m + C_1C_5L_4L$
- 10.731 INVALID-ORDER-731 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$
- 10.732 INVALID-ORDER-732 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$
- $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_4g_ms^6 + R_4g_m + s^5\left(C_1C_4C_5L_1L_4R_4g_m C_1C_4C_5L_1L_4R_4g_m + C_1C_5L_1L_4R_5g_m C_1C_4C_5L_4L_5R_1R_4g_m + C_1C_5L_4L_5g_m\right) + s^4\left(C_1C_4C_5L_4R_1R_4R_5g_m C_1C_4C_5L_4R_1R_4 + C_1C_4L_4L_4R_4g_m + C_1C_5L_4L_4R_5g_m C_1C_5L_4L_5R_5g_m C_1C_5L_4R_5R_5g_m C_1C_5L_5R_5g_m C_1C_5L_5R_5g_m C_1C_5L_5R_5g_m C_1C_5L_5R_5g_m C_1C_5L_5R_5g_m C_1C_5L_5R$
- 10.733 INVALID-ORDER-733 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$
- $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_4R_5s^6 C_1C_4C_5L_1L_4L_5R_4R_5g_m + 2C_1C_4C_5L_1L_4L_5R_4g_m + 2C_1C_4C_5L_4L_5R_4R_5g_m + 2C_1C_4C_5L_4L_5R_4R_5g_m + 2C_1C_4L_5R_4R_5g_m + 2C_1C_4L_5R_5R_5g_m + 2C_1C_4R_5R_5g_m + 2C_1C_4R_5$
- 10.734 INVALID-ORDER-734 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$
- $H(s) = \frac{R_4 R_5 g_m R_4 + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_4 R_5 g_m C_1 C_4 C_5 L_4 L_5 R_1 R_4 R_5 g_m C_1 C_4 C_5 L_4 L_5 R_1 R_4 + C_1 C_4 L_1 L_4 L_5 R_4 g_m + C_1 C_5 L_1 L_4 L_5 R_4 g_m + C_1 C_5 L_4 L_5 R_1 R_4 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_5 L_5 L_5 R_5 g_m$
- 10.735 INVALID-ORDER-735 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$
 - $s) = \frac{R_4 R_5 g_m R_4 + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_4 g_m + 2 C_1 C_4 C_5 L_1 L_4 L_5 R_5 g_m C_1 C_4 C_5 L_4 L_5 R_5 g_m C_1 C_4 C_5 L_4 L_5 R_5 g_m C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_4 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_5 L_5 L_5 R_5 g_m + 2 C_1 C_4 C_5 L_5 L_5 L_5 R_5 g_m + 2 C_1 C_5 L_5 L_5 R_5 g_m + 2 C_1 C$

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10.736 INVALID-ORDER-736 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)
```

 $H(s) = \frac{R_4 R_5 g_m - R_4 + s^4 \left(C_1 C_4 L_1 L_4 R_4 R_5 g_m - C_1 C_4 L_1 L_4 R_4 \right) + s^3 \left(C_1 C_4 L_4 R_1 R_4 R_5 g_m - C_1 L_4 L_4 R_4 R_5 g_m - C_1 L_4 R_4 R_5 g_m -$

10.737 INVALID-ORDER-737
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_4s^5 + R_4g_m + s^4\left(-C_1C_4C_5L_4R_1R_4 + C_1C_4L_1L_4R_4g_m\right) + s^3\left(C_1C_4L_4R_1R_4g_m - C_1C_5L_1R_4 - C_4C_5L_4R_4\right) + s^2\left(-C_1C_5R_4R_4\right) + s^2\left(-C_1C_5R_4R_4\right) + s^2\left(-C_1C_4C_5L_4R_4R_4g_m + s^4\left(-C_1C_4C_5L_4R_4R_4g_m + s^4c_4C_5L_4R_4R_4g_m + s^4c_4C_5L_4R_4R_4g_m + s^4c_4C_4C_5L_4R_4R_4g_m + s^4c_4C_4C_4C_4L_4R_4g_m + s^4c_$

10.738 INVALID-ORDER-738
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_4R_5s^5 + R_4R_5g_m - R_4 + R_5R_5 + R_4R_5g_m - R_4 + R_5R_5 + R_4R_5g_m - R_4 + R_5R_5 + R_5R_5R_5 + R_5R_5$

10.739 INVALID-ORDER-739
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

10.740 INVALID-ORDER-740
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_4g_ms^6 + R_4g_m + s^5\left(-C_1C_4C_5L_1L_4R_4 + C_1C_4C_5L_4L_5R_1R_4g_m\right) + s^4\left(-C_1C_4C_5L_1L_4L_5g_ms^6 + 2g_m + s^5\left(2C_1C_4C_5L_1L_4R_4g_m + 2C_1C_4C_5L_4L_5R_1g_m + 2C_1C_4C_5L_4R_1 + 2C_1C_4C_5L_5R_1R_4g_m + 2C_1C_4C_5L_5R_4 + 2C_1C_4C_5L_5R_5 + 2C_1C_5C_5L_5R_5 + 2C_1C_5C_5L_5R_$

10.741 INVALID-ORDER-741
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $(s) = \frac{-C_1C_4C_5L_1L_4L_5R_4s^6 - R_4 + s^5\left(-C_1C_4C_5L_1L_4L_5R_4g_m + 2C_1C_4C_5L_1L_4L_5\right) + s^5\left(2C_1C_4C_5L_1L_5R_4 + 2C_1C_4C_5L_4L_5R_1 + C_1C_4C_5L_4L_5R_4 + 2C_1C_4L_1L_4L_5g_m\right) + s^4\left(2C_1C_4C_5L_5R_1R_4 + 2C_1C_4L_1L_4R_4g_m + 2C_1C_4L_1L_4R_4g_m + 2C_1C_4L_1L_5R_4g_m + 2C_1C_4L_4L_5R_4g_m + 2C_1C_4L_4L_5R_4g_m + 2C_1C_4L_4L_5R_4g_m + 2C_1C_4L_4L_5R_4g_m\right)}$

10.742 INVALID-ORDER-742
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_4g_ms^6 + R_4g_m + s_5}{2C_1C_4C_5L_1L_4L_5g_ms^6 + 2g_m + s_5\left(2C_1C_4C_5L_1L_4R_4g_m + 2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_4L_5R_4g_m + 2C_1C_4C_5L_4L_5\right) + s_4\left(2C_1C_4C_5L_1R_4R_5g_m + 2C_1C_4C_5L_4R_4R_5g_m + 2C_1C_4C_5L_4R_5R_5g_m + 2C_1C_4C_5L_4R_5g_m + 2C_1C_4C_5L_4R_5g_m + 2C_1C_4C_5L_4R_5g_m + 2C_1C_4C_$

10.743 INVALID-ORDER-743
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{1}{2R_4R_5g_m + 2R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_4g_m + 2C_1C_4C_5L_1L_4L_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_5R_4R_5 + 2C_1C_4C_5L_4L_5R_1R_4R_5g_m + 2C_1C_4C_5L_4L_5R_4R_5 + 2C_1C_4C_5L_4L_5R_4R_5 + 2C_1C_4L_5R_4R_5 + 2C_1C_4L_5R_5R_5 + 2C_1C_4L_5R_5R_5 + 2C_1C_4R_5R_5R_5 + 2C_1C_4R_5R_5R_5R_5 + 2C_1C_4R_5R_5R_5 + 2C_1C_4R_5R_5R$

10.744 INVALID-ORDER-744
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{1}{2R_4g_m + 2R_5g_m + s^6\left(2C_1C_4C_5L_1L_4L_5R_4g_m + 2C_1C_4C_5L_1L_4L_5R_5g_m + 2C_1C_4C_5L_1L_5R_4R_5g_m + 2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4C_5L_4L_5R_1R_4g_m + 2C_1C_4C_5L_4L_5R_4R_5g_m + 2C_1C_4C_5L_4L_5R_5g_m + 2C_1C_4C_5L_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5$

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10.745 INVALID-ORDER-745 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{1}{2R_4g_m + 2R_5g_m + s^6\left(2C_1C_4C_5L_1L_4L_5R_4g_m + 2C_1C_4C_5L_1L_4L_5R_5g_m + 2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_1L_4R_5g_m + 2C_1C_4C_5L_4L_5R_4g_m + 2C_1C_4C_5L_4L_5R_5g_m + 2C_1C_4C_5L_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g_m + 2C_1C_4C_5L_5L_5R_5g
10.746 INVALID-ORDER-746 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                             H(s) = \frac{-C_5L_1R_1R_4s^2 + L_1R_1R_4g_ms}{C_1C_5L_1R_1R_4s^3 + 2R_1 + s^2\left(2C_1L_1R_1 + 2C_5L_1R_1R_4g_m + 2C_5L_1R_1 + C_5L_1R_4\right) + s\left(C_5R_1R_4 + 2L_1R_1g_m + 2L_1\right)}
10.747 INVALID-ORDER-747 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                  H(s) = \frac{-C_5L_1R_1R_4R_5s^2 + s\left(L_1R_1R_4R_5g_m - L_1R_1R_4\right)}{C_1C_5L_1R_1R_4R_5s^3 + R_1R_4 + 2R_1R_5 + s^2\left(C_1L_1R_1R_4 + 2C_1L_1R_1R_5 + 2C_5L_1R_1R_4R_5g_m + 2C_5L_1R_1R_5 + C_5L_1R_4R_5\right) + s\left(C_5R_1R_4R_5 + 2L_1R_1R_4g_m + 2L_1R_1R_5g_m + 2L_1R_1 + L_1R_4 + 2L_1R_5\right)}
10.748 INVALID-ORDER-748 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                       H(s) = \frac{L_1 R_1 R_4 g_m s + s^2 \left(C_5 L_1 R_1 R_4 R_5 g_m - C_5 L_1 R_1 R_4\right)}{2 R_1 + s^3 \left(C_1 C_5 L_1 R_1 R_4 + 2 C_1 C_5 L_1 R_1 R_5\right) + s^2 \left(2 C_1 L_1 R_1 + 2 C_5 L_1 R_1 R_4 g_m + 2 C_5 L_1 R_1 R_5 g_m + 2 C_5 L_1 R_1 + C_5 L_1 R_4 + 2 C_5 L_1 R_5\right) + s \left(C_5 R_1 R_4 + 2 C_5 R_1 R_5 + 2 L_1 R_1 g_m + 2 L_1\right)}
10.749 INVALID-ORDER-749 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                     H(s) = \frac{C_5L_1L_5R_1R_4g_ms^3 - C_5L_1R_1R_4s^2 + L_1R_1R_4g_ms}{2C_1C_5L_1L_5R_1s^4 + 2R_1 + s^3\left(C_1C_5L_1R_1R_4 + 2C_5L_1L_5R_1g_m + 2C_5L_1L_5\right) + s^2\left(2C_1L_1R_1 + 2C_5L_1R_1R_4g_m + 2C_5L_1R_1 + C_5L_1R_4 + 2C_5L_5R_1\right) + s\left(C_5R_1R_4 + 2L_1R_1g_m + 2L_1\right)}
10.750 INVALID-ORDER-750 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
                                                               H(s) = \frac{-C_5L_1L_5R_1R_4s^3 + L_1L_5R_1R_4g_ms^2 - L_1R_1R_4s}{C_1C_5L_1L_5R_1R_4s^4 + R_1R_4 + s^3\left(2C_1L_1L_5R_1 + 2C_5L_1L_5R_1R_4g_m + 2C_5L_1L_5R_1 + C_5L_1L_5R_4\right) + s^2\left(C_1L_1R_1R_4 + C_5L_5R_1R_4 + 2L_1L_5R_1g_m + 2L_1L_5\right) + s\left(2L_1R_1R_4g_m + 2L_1R_1 + L_1R_4 + 2L_5R_1\right)}
10.751 INVALID-ORDER-751 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                 H(s) = \frac{C_5L_1L_5R_1R_4g_ms^3 + L_1R_1R_4g_ms + s^2\left(C_5L_1R_1R_4R_5g_m - C_5L_1R_1R_4\right)}{2C_1C_5L_1L_5R_1s^4 + 2R_1 + s^3\left(C_1C_5L_1R_1R_4 + 2C_1C_5L_1R_1R_5 + 2C_5L_1L_5\right) + s^2\left(2C_1L_1R_1 + 2C_5L_1R_1R_4g_m + 2C_5L_1R_1R_5g_m + 2C_5L_1R_1 + C_5L_1R_4 + 2C_5L_1R_5 + 2C_5L_5R_1\right) + s\left(C_5R_1R_4 + 2C_5R_1R_5 + 2L_1R_1g_m + 2L_1\right)}
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10.752 INVALID-ORDER-752
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_5L_1L_5R_1R_4R_5s^3 - L_1R_1R_4R_5s + s^2\left(L_1L_5R_1R_4R_5g_m - L_1L_5R_1R_4\right)}{C_1C_5L_1L_5R_1R_4R_5s^4 + R_1R_4R_5 + s^3\left(C_1L_1L_5R_1R_4 + 2C_1L_1L_5R_1R_5 + 2C_5L_1L_5R_1R_4R_5\right) + s^2\left(C_1L_1R_1R_4R_5 + C_5L_5L_5R_1R_4R_5 + 2L_1L_5R_1R_4g_m + 2L_1L_5R_1R_5g_m + 2L_1L_5R_1R_4g_m + 2L_1L_5R_1R_4g_m$

10.753 INVALID-ORDER-753
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{L_1L_5R_1R_4g_ms^2 + s^3\left(C_5L_1L_5R_1R_4R_5g_m - C_5L_1L_5R_1R_4\right) + s\left(L_1R_1R_4R_5g_m - L_1R_1R_4\right)}{R_1R_4 + 2R_1R_5 + s^4\left(C_1C_5L_1L_5R_1R_4 + 2C_1C_5L_1L_5R_1R_5\right) + s^3\left(2C_1L_1L_5R_1 + 2C_5L_1L_5R_1R_4g_m + 2C_5L_1L_5R_1 + C_5L_1L_5R_1 + C_5L_1L_5R_1\right) + s^2\left(C_1L_1R_1R_4 + 2C_1L_1R_1R_5 + C_5L_5R_1R_4 + 2C_5L_5R_1R_5 + 2L_1L_5R_1g_m + 2L_1L_5\right) + s\left(2L_1R_1R_4 + 2C_5L_1L_5R_1R_4 + 2C_5L_1L_5R_1R_4 + 2C_5L_5R_1R_4 + 2C_5L_5R_1R_5 + 2L_5L_5R_1R_5 + 2L_5L_5R_1R_5\right) + s^2\left(2L_1R_1R_4 + 2C_5L_5R_1R_5 + 2C_5L_5R_1R_5 + 2C_5L_5R_1R_5 + 2C_5L_5R_1R_5\right) + s^2\left(2L_1R_1R_5 + 2C_5L_5R_1R_5 + 2C_5L_5R_1R_5 + 2C_5L_5R_1R_5\right) + s^2\left(2L_1R_1R_5 + 2C_5L_5R_1R_5 + 2C_5L_5R_1R_5 + 2C_5L_5R_1R_5\right) + s^2\left(2L_1R_1R_5 + 2C_5L_5R_1R_5\right) + s^2\left(2L_1R_5R_5 + 2C_5L_5R_5R_5\right) + s^2\left(2L_1R_5R_5 + 2C_5L_5R_5R_5\right) + s^2\left(2L_1R_5$

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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, \infty, R_4, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_5L_1R_1R_4R_5s^2 + s^3\left(C_5L_1L_5R_1R_4R_5g_m - C_5L_1L_5R_1R_4\right) + s\left(L_1R_1R_4R_5g_m - L_1R_1R_4\right)}{R_1R_4 + 2R_1R_5 + s^4\left(C_1C_5L_1L_5R_1R_4 + 2C_5L_1L_5R_1R_4 + 2C_5L_1R_1R_4 + 2C_5L
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, \infty, \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                                               H(s) = \frac{s \left( L_1 R_1 R_5 g_m - L_1 R_1 \right)}{2 C_1 C_4 L_1 R_1 R_5 s^3 + R_1 + s^2 \left( C_1 L_1 R_1 + 2 C_4 L_1 R_1 R_5 g_m + 2 C_4 L_1 R_1 + 2 C_4 L_1 R_5 \right) + s \left( 2 C_4 R_1 R_5 + 2 L_1 R_1 g_m + L_1 \right)}{s \left( L_1 R_1 R_5 g_m - L_1 R_1 \right)}
```

10.756 INVALID-ORDER-756
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_1R_1R_5s^2 + s\left(L_1R_1R_5g_m - L_1R_1\right)}{R_1 + s^3\left(2C_1C_4L_1R_1R_5 + C_1C_5L_1R_1R_5 + 2C_4C_5L_1R_1R_5\right) + s^2\left(C_1L_1R_1 + 2C_4L_1R_1R_5g_m + 2C_4L_1R_1 + 2C_4L_1R_5 + 2C_5L_1R_1R_5g_m + C_5L_1R_5\right) + s\left(2C_4R_1R_5 + C_5R_1R_5 + 2L_1R_1g_m + L_1\right)}$$

10.757 INVALID-ORDER-757
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{L_1 R_1 g_m + s \left(C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1 \right)}{2 C_1 C_4 C_5 L_1 R_1 R_5 s^3 + 2 C_4 R_1 + C_5 R_1 + s^2 \left(2 C_1 C_4 L_1 R_1 + C_1 C_5 L_1 R_1 + 2 C_4 C_5 L_1 R_1 R_5 g_m + 2 C_4 C_5 L_1 R_1 + 2 C_4 C_5 L_1 R_5 \right) + s \left(2 C_4 C_5 R_1 R_5 + 2 C_4 L_1 R_1 g_m + 2 C_4 L_1 + 2 C_5 L_1 R_1 g_m + C_5 L_1 \right)}$$

10.758 INVALID-ORDER-758
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5L_1L_5R_1g_ms^2 - C_5L_1R_1s + L_1R_1g_m}{2C_1C_4C_5L_1L_5R_1s^4 + 2C_4R_1 + C_5R_1 + s^3\left(2C_4C_5L_1L_5R_1g_m + 2C_4C_5L_1L_5\right) + s^2\left(2C_1C_4L_1R_1 + C_1C_5L_1R_1 + 2C_4C_5L_1R_1 + 2C_4C_5L_5R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4L_1 + 2C_5L_1R_1g_m + C_5L_1\right)}$$

10.759 INVALID-ORDER-759
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_5L_1L_5R_1s^3 + L_1L_5R_1g_ms^2 - L_1R_1s}{R_1 + s^4\left(2C_1C_4L_1L_5R_1 + C_1C_5L_1L_5R_1 + 2C_4C_5L_1L_5R_1\right) + s^3\left(2C_4L_1L_5R_1g_m + 2C_4L_1L_5 + 2C_5L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + 2C_4L_1R_1 + 2C_4L_5R_1 + C_5L_5R_1\right) + s\left(2L_1R_1g_m + L_1\right)}$$

10.760 INVALID-ORDER-760
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_5L_1L_5R_1g_ms^2 + L_1R_1g_m + s\left(C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{2C_1C_4C_5L_1L_5R_1s^4 + 2C_4R_1 + C_5R_1 + s^3\left(2C_1C_4C_5L_1R_1R_5 + 2C_4C_5L_1L_5\right) + s^2\left(2C_1C_4L_1R_1 + C_1C_5L_1R_1 + 2C_4C_5L_1R_1 + 2C_$$

10.761 INVALID-ORDER-761
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_5L_1L_5R_1R_5s^3 - L_1R_1R_5s + s^2\left(L_1L_5R_1R_5g_m - L_1L_5R_1\right)}{R_1R_5 + s^4\left(2C_1C_4L_1L_5R_1R_5 + C_1C_5L_1L_5R_1R_5 + 2C_4L_5R_1R_5\right) + s^3\left(C_1L_1L_5R_1 + 2C_4L_1L_5R_1 + 2C_4L_1L_5R_1$$

10.762 INVALID-ORDER-762
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{L_1 L_5 R_1 g_m s^2 + s^3 \left(C_5 L_1 L_5 R_1 R_5 g_m - C_5 L_1 L_5 R_1\right) + s \left(L_1 R_1 R_5 g_m - L_1 R_1\right)}{2 C_1 C_4 C_5 L_1 L_5 R_1 R_5 s^5 + R_1 + s^4 \left(2 C_1 C_4 L_1 L_5 R_1 + 2 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_4 L_1 L_5 R_1 g_m + 2 C_4 L_$$

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H(s) = \frac{-C_5L_1R_1R_5s^2 + s^3\left(C_5L_1L_5R_1R_5g_m - C_5L_1L_5R_1\right) + s\left(L_1R_1R_5g_m - L_1R_1\right)}{2C_1C_4C_5L_1L_5R_1R_5s^5 + R_1 + s^4\left(C_1C_5L_1L_5R_1 + 2C_4C_5L_1L_5R_1 + 2C_4C_5L_1L_5R_5\right) + s^3\left(2C_1C_4L_1R_1R_5 + C_1C_5L_1R_1R_5 + 2C_4C_5L_1L_5R_1R_5 + 2C_4C_5L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1R_1 + 2C_4L_1R_1R_5g_m + 2C_4L_1R_1R_5 + 2C_4C_5L_1R_1R_5 + 2C_4C
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, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5, \infty\right)
                                                                                                                                                H(s) = \frac{s\left(L_{1}R_{1}R_{4}R_{5}g_{m} - L_{1}R_{1}R_{4}\right)}{2C_{1}C_{4}L_{1}R_{1}R_{4} + 2R_{1}R_{5} + s^{2}\left(C_{1}L_{1}R_{1}R_{4} + 2C_{1}L_{1}R_{1}R_{5} + 2C_{4}L_{1}R_{1}R_{4}R_{5}g_{m} + 2C_{4}L_{1}R_{1}R_{4} + 2C_{4}L_{1}R_{4}R_{5}\right) + s\left(2C_{4}R_{1}R_{4}R_{5} + 2L_{1}R_{1}R_{4}g_{m} + 2L_{1}R_{1}R_{5}g_{m} + 2L_{1}R_{1} + L_{1}R_{4} + 2L_{1}R_{5}\right)}{2C_{1}C_{4}L_{1}R_{1}R_{4} + 2R_{1}R_{5} + s^{2}\left(C_{1}L_{1}R_{1}R_{4} + 2C_{1}L_{1}R_{1}R_{5} + 2C_{4}L_{1}R_{1}R_{4} + 2C_{4}L_{1}R_{4}R_{5}\right) + s\left(2C_{4}R_{1}R_{4}R_{5} + 2L_{1}R_{1}R_{4}g_{m} + 2L_{1}R_{1}R_{5}g_{m} + 2L_{1}R_{1}R_{4} + 2L_{1}R_{5}\right)}{2C_{1}C_{4}L_{1}R_{1}R_{4} + 2R_{1}R_{5} + s^{2}\left(C_{1}L_{1}R_{1}R_{4} + 2C_{1}L_{1}R_{1}R_{5}g_{m} + 2C_{4}L_{1}R_{1}R_{4} + 2C_{4}L_{1}R_{4}R_{5}\right) + s\left(2C_{4}R_{1}R_{4}R_{5} + 2L_{1}R_{1}R_{5}g_{m} + 2L_{1}R_{1}R_{5}g_{m} + 2L_{1}R_{1}R_{5}g_{m} + 2L_{1}R_{1}R_{5}g_{m} + 2L_{1}R_{1}R_{5}g_{m}\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, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                          H(s) = \frac{-C_5L_1R_1R_4s^2 + L_1R_1R_4g_ms}{2R_1 + s^3\left(2C_1C_4L_1R_1R_4 + C_1C_5L_1R_1R_4 + 2C_4C_5L_1R_1R_4\right) + s^2\left(2C_1L_1R_1 + 2C_4L_1R_1R_4g_m + 2C_4L_1R_4 + 2C_5L_1R_1R_4g_m + 2C_5L_1R_1 + C_5L_1R_4\right) + s\left(2C_4R_1R_4 + C_5R_1R_4 + 2L_1R_1g_m + 2L_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, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_5L_1R_1R_4R_5s^2 + s\left(L_1R_1R_4R_5g_m - L_1R_1R_4\right)}{R_1R_4 + 2R_1R_5 + s^3\left(2C_1C_4L_1R_1R_4R_5 + C_1C_5L_1R_1R_4R_5 + 2C_4C_5L_1R_1R_4R_5\right) + s^2\left(C_1L_1R_1R_4 + 2C_4L_1R_1R_4 + 2C_4L_1R_1R_4 + 2C_4L_1R_1R_4 + 2C_5L_1R_1R_4 + 2C_5L_1R_1R_
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, \infty, \frac{R_4}{C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_1 R_1 R_4 g_m s + s^2 \left(C_5 L_1 R_1 R_4 R_5 g_m - C_5 L_1 R_1 R_4\right)}{2 C_1 C_4 C_5 L_1 R_1 R_4 R_5 s^4 + 2 R_1 + s^3 \left(2 C_1 C_4 L_1 R_1 R_4 + C_1 C_5 L_1 R_1 R_4 + 2 C_4 C_5 L_1 R_1 R_4 R_5 g_m + 2 C_4 C_5 L_1 R_1 R_4 R_5\right) + s^2 \left(2 C_1 L_1 R_1 + 2 C_4 C_5 L_1 R_1 R_4 g_m + 2 C_4 L_1 R_4 R_5 g_m + 2 C_5 L_1 R_1 R_4 g_m + 2 C_5 L_1 R_1 R_5 g_m + 2 C_5 L_1 R_1 R_5 g_m + 2 C_5 L_1 R_1 R_5 g_m + 2 C_
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, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                           \frac{C_5L_1L_5R_1R_4g_ms^3 - C_5L_1R_1R_4s^2 + L_1R_1R_4g_ms}{2C_1C_4C_5L_1L_5R_1R_4s^5 + 2R_1 + s^4\left(2C_1C_5L_1L_5R_1 + 2C_4C_5L_1L_5R_1R_4g_m + 2C_4C_5L_1R_1R_4 + C_4C_5L_1R_1R_4 + 2C_4C_5L_1R_1R_4 + 2C_4C_5L_1L_5R_1g_m + 2C_5L_1L_5\right) + s^2\left(2C_1L_1R_1 + 2C_4L_1R_1R_4g_m + 2C_4
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, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_5L_1L_5R_1R_4s^3 + L_1L_5R_1R_4g_ms^2 - L_1R_1R_4s}{R_1R_4 + s^4\left(2C_1C_4L_1L_5R_1R_4 + C_1C_5L_1L_5R_1R_4 + 2C_4L_5L_1L_5R_1R_4 + 2C_4L_1L_5R_1R_4g_m + 2C_4L_1L_5R_1R_4g_m + 2C_5L_1L_5R_1R_4g_m + 2C_5L_1L_5R_1R_4 + 2C_4L_5R_1R_4 + 2C_4L_5R
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, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_5L_1L_5R_1R_4g_ms^3 + L_1R_1R_4g_ms + s^2(C_5L_1R_1R_4R_5g_n)
                                           \frac{C_5L_1L_5R_1R_4g_ms + L_1R_1R_4g_ms + s}{2C_1C_4C_5L_1L_5R_1R_4s^5 + 2R_1 + s^4\left(2C_1C_4C_5L_1R_1R_4R_5 + 2C_4C_5L_1L_5R_1R_4g_m + 2C_4C_5L_1L_5R_1R_4g_m + 2C_4C_5L_1L_5R_1R_4g_m + 2C_4C_5L_1L_5R_1R_4g_m + 2C_4C_5L_1L_5R_1R_4g_m + 2C_4C_5L_1R_1R_4 + 2C_4C_
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, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -C_5L_1L_5R_1R_4R_5s^3 - L_1R_1R_4R_5s + s^2(L_1L_5R_1R_4R_5g_m - L_1L_5R_1R_4)
H(s) = \frac{-C_5L_1L_5R_1R_4R_5s^{\circ} - L_1R_1R_4R_5s^{\circ} - L_1R_1R_4R_5s + s^{\circ} (L_1L_5R_1R_4R_5g_m - L_1L_5R_1R_4)}{R_1R_4R_5 + s^{\circ} (2C_1C_4L_1L_5R_1R_4R_5 + s^{\circ} (2C_1C_4L_1L_5R_1R_4R_5 + 2C_4L_1L_5R_1R_4R_5 + 2C_4L_1L_5R_1R_4 + 2C_
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, \infty, \frac{R_4}{C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                           \frac{2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}R_{5}s^{5}+R_{1}R_{4}+2R_{1}R_{5}+s^{4}\left(2C_{1}C_{4}L_{1}L_{5}R_{1}R_{4}+2C_{1}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+2C_{4}C_{5}L_
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10.763 INVALID-ORDER-763 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.773 INVALID-ORDER-773 Z(s) = \left(\frac{L_1R_{1s}}{C_2L_2R_2L_2L_2R_1R_2}, \infty, \infty, \frac{R_1}{C_2R_2s^2+L_2R_2R_2}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2L_2R_2R_2n_1}, \infty\right)
-C_1L_1R_1R_2s^2
-C_2L_1R_1R_1R_2s^2 + C_2C_2L_2R_1R_1R_2s^2 + C_2C_2L_2R_1R_2s^2 + C_2C_2L_2R_1R_2s^2 + C_2C_2L_2R_1R_2s^2 + C_2C_2L_2R_2R_2s^2 + C_2C_2L_
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10.777 INVALID-ORDER-777
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \infty, R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$L_1 R_1 g_m + s^2 \left(C_4 C_5 L_1 R_1 R_4 R_5 g_m - C_4 C_5 L_1 R_1 R_4\right) + s \left(C_4 L_1 R_1 R_4 g_m + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1\right)$$

$$H(s) = \frac{L_1 R_1 g_m + s^2 \left(C_4 C_5 L_1 R_1 R_4 R_5 g_m - C_4 C_5 L_1 R_1 R_4 \right) + s \left(C_4 L_1 R_1 R_4 g_m + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1 \right)}{2 C_4 R_1 + C_5 R_1 + s^3 \left(C_1 C_4 C_5 L_1 R_1 R_4 \right) + s^2 \left(2 C_1 C_4 L_1 R_1 + C_1 C_5 L_1 R_1 + 2 C_4 C_5 L_1 R_1 R_5 g_m + 2 C_4 C_5 L_1 R_1 + C_4 C_5 L_1 R_4 + 2 C_4 C_5 L_1 R_5 \right) + s \left(C_4 C_5 R_1 R_4 + 2 C_4 C_5 R_1 R_5 + 2 C_4 L_1 R_1 g_m + 2 C_4 L_1 R_1 g_m + 2 C_4 L_1 R_1 g_m + C_5 L_1 R_1 R_5 g_m \right)} \\ = \frac{L_1 R_1 g_m + s^2 \left(C_4 C_5 L_1 R_1 R_4 R_5 g_m - C_4 C_5 L_1 R_1 R_4 g_m + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1 \right)}{2 C_4 R_1 + C_5 R_1 R_4 + 2 C_4 C_5 L_1 R_1 R_5 g_m + 2 C_4 C_5 L_1 R_5 g_m + 2 C_4 C_$$

$$\textbf{10.778} \quad \textbf{INVALID-ORDER-778} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ L_5 s + \frac{1}{C_5 s}, \ \infty \right)$$

$$\qquad \qquad C_4 C_5 L_1 L_5 R_1 R_4 g_m s^3 + L_1 R_1 g_m + s^2 \left(-C_4 C_5 L_1 R_1 R_4 + C_5 L_1 L_5 R_1 g_m \right) + s \left(C_4 L_1 R_1 R_4 g_m - C_5 L_1 R_1 \right)$$

$$\qquad \qquad C_4 C_5 L_1 L_5 R_1 s^4 + 2 C_4 R_1 + C_5 R_1 + s^3 \left(C_1 C_4 C_5 L_1 R_1 R_4 + 2 C_4 C_5 L_1 L_5 R_1 g_m + 2 C_4 C_5 L_1 R_1 + C_1 C_5 L_1 R_1 + 2 C_4 C_5 L_1 R_1 + 2 C_4 C_5 L_1 R_1 + C_4 C_5 L_1 R_1 + C_4 C_5 L_1 R_1 + 2 C_4 C_5 L_1 R_1 + C_$$

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

$$H(s) = \frac{-C_4C_5L_1L_5R_1R_4s^4 - L_1R_1s + s^3\left(C_4L_1L_5R_1R_4g_m - C_5L_1L_5R_1\right) + s^2\left(-C_4L_1R_1R_4 + L_1L_5R_1g_m\right)}{C_1C_4C_5L_1L_5R_1R_4s^5 + R_1 + s^4\left(2C_1C_4L_1L_5R_1 + 2C_4C_5L_1L_5R_1 + 2C_4C_5L_1L_5R_1 + 2C_4C_5L_1L_5R_1\right) + s^3\left(C_1C_4L_1R_1R_4 + C_4C_5L_1L_5R_1g_m + 2C_4L_1L_5R_1g_m + 2C_4L_1L_5R_1g_m + 2C_4L_1L_5R_1g_m + 2C_4L_1L_5R_1g_m + 2C_4L_1R_1R_4g_m + 2C_4L_1R_1R_$$

10.780 INVALID-ORDER-780
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

$$H(s) = \frac{C_4C_5L_1L_5R_1R_4g_ms^3 + L_1R_1g_m + s^2\left(C_4C_5L_1R_1R_4R_5g_m - C_4C_5L_1R_1R_4 + C_5L_1L_5R_1g_m\right) + s\left(C_4L_1R_1R_4g_m + C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{2C_1C_4C_5L_1L_5R_1s^4 + 2C_4R_1 + C_5R_1 + s^3\left(C_1C_4C_5L_1R_1R_4 + 2C_4C_5L_1R_1R_5 + 2C_4C_5L_1R_1\right) + s^2\left(2C_1C_4L_1R_1 + C_4C_5L_1R_1R_4g_m + 2C_4C_5L_1R_1R_5g_m + 2C_4C_5L_1R_1 + C_4C_5L_1R_1 + C_4C_5L_1R$$

10.781 INVALID-ORDER-781
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_4C_5L_1L_5R_1R_4R_5s^4 - L_1R_1R_5s + s^3\left(C_4L_1L_5R_1R_4R_5g_m - C_4L_1L_5R_1R_4R_5g_m - C_4L_1L_5R_1R_4R_5g_m - C_4L_1L_5R_1R_4R_5g_m - C_4L_1L_5R_1R_4R_5g_m - C_4L_1L_5R_1R_4R_5g_m + 2C_4C_5L_1L_5R_1R_4R_5g_m + 2C_4C_5L_1L_5R_1R_4g_m + 2C_4C_5L_1L_5R_1R_5g_m + 2C_4C_5L_1L_5R_1R_5g_m + 2C_4C_5L_1L_5R_1R_5g_m + 2C_4C_5L_1L_5R_1R_5g_m + 2C_4C_5L$$

10.782 INVALID-ORDER-782
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$$

$$H(s) = \frac{s^4 \left(C_4 C_5 L_1 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_1 R_4 \right) + s^3 \left(C_4 L_1 L_5 R_1 R_4 g_m + C_5 L_1 L_5 R_1 R_5 g_m - C_5 L_1 L_5 R_1 \right) + s^2 \left(C_4 L_1 L_5 R_1 R_5 g_m - C_5 L_1 L_5 R_1 R_5 g_m + 2 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2$$

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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, \infty, R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 s^4 \left( C_4 C_5 L_1 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_1 R_4 \right) + s^3 \left( -C_4 C_5 L_1 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_1 R_4 \right)
10.784 INVALID-ORDER-784 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                                                                                                           H(s) = \frac{s^3 \left( C_4 L_1 L_4 R_1 R_5 g_m - C_4 L_1 L_4 R_1 \right) + s \left( L_1 R_1 R_5 g_m - L_1 R_1 \right)}{C_1 C_4 L_1 L_4 R_1 s^4 + R_1 + s^3 \left( 2 C_1 C_4 L_1 R_1 R_5 + 2 C_4 L_1 L_4 R_1 g_m + C_4 L_1 L_4 \right) + s^2 \left( C_1 L_1 R_1 + 2 C_4 L_1 R_1 R_5 g_m + 2 C_4 L_1 R_1 + 2 C_4 L_1 R_5 + C_4 L_4 R_1 \right) + s \left( 2 C_4 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, \infty, L_4 s + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                  H(s) = \frac{-C_4C_5L_1L_4R_1s^3 + C_4L_1L_4R_1g_ms^2 - C_5L_1R_1s + L_1R_1g_m}{C_1C_4C_5L_1L_4R_1s^4 + 2C_4R_1 + C_5R_1 + s^3\left(2C_4C_5L_1L_4R_1g_m + C_4C_5L_1L_4\right) + s^2\left(2C_1C_4L_1R_1 + C_1C_5L_1R_1 + 2C_4C_5L_1R_1 + C_4C_5L_4R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4L_1 + 2C_5L_1R_1g_m + C_5L_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, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4R_1R_5s^4 - C_5L_1R_1R_5s^2 + s^3\left(C_4L_1L_4R_1R_5g_m - C_4L_1L_4R_1\right) + s\left(L_1R_1R_5g_m - L_1R_1\right)}{C_1C_4C_5L_1L_4R_1R_5s^5 + R_1 + s^4\left(C_1C_4L_1L_4R_1 + 2C_4C_5L_1L_4R_1R_5g_m + C_4C_5L_1R_1R_5 + C_4C
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, \infty, L_4 s + \frac{1}{C_{48}}, R_5 + \frac{1}{C_{58}}, \infty\right)
H(s) = \frac{C_4L_1L_4R_1g_ms^2 + L_1R_1g_m + s^3\left(C_4C_5L_1L_4R_1R_5g_m - C_4C_5L_1L_4R_1\right) + s\left(C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{C_1C_4C_5L_1L_4R_1s^4 + 2C_4R_1 + C_5R_1 + s^3\left(2C_1C_4C_5L_1R_1R_5 + 2C_4C_5L_1L_4\right) + s^2\left(2C_1C_4L_1R_1 + C_1C_5L_1R_1 + 2C_4C_5L_1R_1 + 2C_4C_5L_1R_1 + 2C_4C_5L_1R_1\right) + s\left(2C_4C_5R_1R_5 + 2C_4L_1R_1g_m + 2C_4L_1 + 2C_5L_1R_1g_m + C_5L_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, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{C_4C_5L_1L_4L_5R_1g_ms^4 - C_4C_5L_1L_4R_1s^3 - C_5L_1R_1s + L_1R_1g_m + s^2\left(C_4L_1L_4R_1g_m + C_5L_1L_5R_1g_m\right)}{2C_4R_1 + C_5R_1 + s^4\left(C_1C_4C_5L_1L_4R_1 + 2C_4C_5L_1L_5R_1\right) + s^3\left(2C_4C_5L_1L_4R_1g_m + C_4C_5L_1L_4R_1g_m + 2C_4C_5L_1L_5\right) + s^2\left(2C_1C_4L_1R_1 + C_4C_5L_1R_1 + 2C_4C_5L_1R_1 + 2C_4C_5L_1R_1\right) + s^2\left(2C_4C_5L_1R_1g_m + 2C_4C_5L_1R_1\right) + s^2\left(2C_4C_5L_1R_1 + 2C_4C_5L_1R_1 + 2C_4C_5L_1R_1\right) + s^2\left(2C_4C_5L_1R_1g_m + 2C_4C_5L_1R_1g_m + 2C_4C_5L_1R_1g_m\right) + s^2\left(2C_4C_5L_1R_1g_m + 2C_4C_5L_1R_1g_m\right) + s^2\left(2C_4C_5L_1R_1g_m + 2C_4C_5L_1R_1g_m\right) + s^2\left(2C_4C_5L_1R_1g_m + 2C_4C_5L_1R_1g_m\right) + s^2\left(2C_4C_5L_1R_1g_m + 2C_4C_5L_1R_1g_m\right) + s^2\left(
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, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_1s^5 + C_4L_1L_4L_5R_1g_ms^4 + L_1L_5R_1g_ms^2 - L_1R_1s + s^3\left(-C_4L_1L_4R_1 - C_5L_1L_5R_1\right)}{C_1C_4C_5L_1L_4L_5R_1s^6 + R_1 + s^5\left(2C_4C_5L_1L_4L_5R_1g_m + C_4C_5L_1L_4L_5\right) + s^4\left(C_1C_4L_1L_4R_1 + 2C_1C_4L_1L_5R_1 + C_4C_5L_1L_5R_1 + 2C_4C_5L_4L_5R_1\right) + s^3\left(2C_4L_1L_4R_1g_m + C_4L_1L_4 + 2C_4L_1L_5R_1g_m + 2C_4L_1L_5 + 2C_5L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1L_4R_1g_m + C_4L_1L_4R_1g_m + C_4L_1L_4R_1g_m + C_4L_1L_4R_1g_m + C_4L_1L_5R_1g_m + C_5L_1L_5\right) + s^2\left(C_1L_1L_4R_1g_m + C_4L_1L_4R_1g_m + C_4L_1L_4R_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, \infty, L_4 s + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                               \frac{C_4C_5L_1L_4L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(C_4C_5L_1L_4R_1R_5g_m - C_4C_5L_1L_4R_1\right) + s^2\left(C_4L_1L_4R_1g_m + C_5L_1L_5R_1g_m\right) + s\left(C_5L_1R_1R_5g_m - C_5L_1R_1\right)}{2C_4R_1 + C_5R_1 + s^4\left(C_1C_4C_5L_1L_4R_1 + 2C_4C_5L_1L_4R_1\right) + s^3\left(2C_1C_4C_5L_1R_1R_5 + 2C_4C_5L_1L_4R_1g_m + C_4C_5L_1L_5R_1g_m + 2C_4C_5L_1L_5\right) + s^2\left(2C_1C_4L_1R_1 + 2C_4C_5L_1R_1 + 2C_4C_5L_1R_1\right)}
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, \infty, L_4 s + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -C_4C_5L_1L_4L_5R_1R_5s^5 - L_1R_1R_5s + s^4(C_4L_1L_4L_5R_1R_5g_m - C_4L_1L_4L_5R_1R_5g_m - C_4L_5R_5g_m - C_4L_5R_5R_5g_m - C_4L_5R_5R_5g_m - C_4L_5R_5R_5g_m - C_4L_5R_5R_5g_m - C_4L_5R_5R_5g_m - C_5R_5R_5g_m - C_5R_5R
H(s) = \frac{C_4C_5L_1L_4L_5R_1R_5s^6 + R_1R_5 + s^5\left(C_1C_4L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1R_5g_m + C_4C_5L_1L_4L_5R_1R_5 + s^4\left(C_1C_4L_1L_4R_1R_5 + 2C_1C_4L_1L_5R_1R_5 + 2C_4C_5L_1L_5R_1R_5 + 2C_4C_5L_4L_5R_1R_5 + 2C_4C_5L_5L_5R_1R_5 + 2C_4C_5L_5L_5R_1R_5 + 2C_4C_5L_5R_1R_5 + 2C_4C_5L_5R_5R_5 + 2C_5C_5R_5R_5R_5 + 2C_5C_5R_5R_5R_5 + 2C_5C_5R_5R_5R_5 + 2C_5C_5R_5R_5R_5 + 2C_5C_5R_5R_5R_5 + 2C_5C_5R_5R_
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, \infty, L_4 s + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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 $\frac{C_4 L_1 L_4 L_5 R_1 s^6 + R_1 + s^5 \left(2 C_1 C_4 C_5 L_1 L_5 R_1 R_5 + 2 C_4 C_5 L_1 L_4 L_5 R_1 g_m + C_4 C_5 L_1 L_5 R_1 + 2 C_4 C_5 L_1 L_5 R_1$

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

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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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
                                                                                                                                          H(s) = \frac{s^2 \left( L_1 L_4 R_1 R_5 g_m - L_1 L_4 R_1 \right)}{2 C_1 C_4 L_1 L_4 R_1 R_5 s^4 + 2 R_1 R_5 + s^3 \left( C_1 L_1 L_4 R_1 + 2 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_4 L_1 L_4 R_1 \right) + s^2 \left( 2 C_1 L_1 R_1 R_5 + 2 C_4 L_4 R_1 R_5 + 2 L_1 L_4 R_1 g_m + L_1 L_4 \right) + s \left( 2 L_1 R_1 R_5 g_m + 2 L_1 R_1 + 2 L_1 R_5 + L_4 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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                     H(s) = \frac{-C_5L_1L_4R_1s^3 + L_1L_4R_1g_ms^2}{2R_1 + s^4\left(2C_1C_4L_1L_4R_1 + C_1C_5L_1L_4R_1 + 2C_4C_5L_1L_4R_1\right) + s^3\left(2C_4L_1L_4R_1g_m + 2C_4L_1L_4 + 2C_5L_1L_4R_1g_m + C_5L_1L_4\right) + s^2\left(2C_1L_1R_1 + 2C_4L_4R_1 + 2C_5L_1R_1 + C_5L_4R_1\right) + s\left(2L_1R_1g_m + 2L_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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{-C_5L_1L_4R_1R_5s^3 + s^2\left(L_1L_4R_1R_5g_m - L_1L_4R_1\right)}{2R_1R_5 + s^4\left(2C_1C_4L_1L_4R_1R_5 + C_1C_5L_1L_4R_1R_5 + 2C_4C_5L_1L_4R_1R_5\right) + s^3\left(C_1L_1L_4R_1 + 2C_4L_1L_4R_1R_5g_m + 2C_4L_1L_4R_1\right) + s^2\left(2C_1L_1R_1R_5 + 2C_4L_4R_1R_5 + 2C_5L_4R_1R_5 + 2C_4L_4R_1R_5\right) + s^2\left(2C_1L_1R_1R_5 + 2C_4L_4R_1R_5 + 2C_4L_4R_1R_5 + 2C_4L_4R_1R_5\right) + s^2\left(2C_1L_4R_1R_5 + 2C_4L_4R_1R_5 + 2C_4L_4R_1R_5 + 2C_4L_4R_1R_5\right) + s^2\left(2C_1L_4R_1R_5 + 2C_4L_4R_1R_5 + 2C_4L_4R_1R_5 + 2C_4L_4R_1R_5\right) + s^2\left(2C_1L_4R_1R_5 + 2C_4L_4R_1R_5\right) + s^2\left(2C_1L_4R_1R_5\right) + s^2
10.797 INVALID-ORDER-797 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_1L_4R_1g_ms^2 + s^3\left(C_5L_1L_4R_1R_5g_m - C_5L_1L_4R_1\right)}{2C_1C_4C_5L_1L_4R_1R_5s^5 + 2R_1 + s^4\left(2C_1C_4L_1L_4R_1 + 2C_4C_5L_1L_4R_1 + 2C_4C_5L_1L_4R_1 + 2C_4C_5L_1L_4R_1\right) + s^3\left(2C_1C_5L_1R_1R_5 + 2C_4C_5L_1L_4R_1g_m + 2C_4L_1L_4R_1g_m + 2C_4L_1L_4\right) + s^2\left(2C_1L_1R_1 + 2C_4L_4R_1 + 2C_4L_4R_1 + 2C_4L_4R_1\right) + s^2\left(2C_1L_1R_1 + 2C_4L_4R_1\right) + s^2\left(2C_1L_1R_1 + 2C_4L_4R_1\right) + s^2\left(2C_1L_1R_1 + 2C_4L_4R_1\right) + s^2\left(2C_1L_1R_1 + 2C_4L_4R_1\right) + s^2\left(2C_1L_4R_1\right) + s^2\left(2C_
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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                           \frac{C_5L_1L_4L_5R_1g_ms^4 - C_5L_1L_4R_1s^3 + L_1L_4R_1g_ms^2}{2C_1C_4C_5L_1L_4L_5R_1s^6 + 2R_1 + s^5\left(2C_4C_5L_1L_4L_5R_1g_m + 2C_4C_5L_1L_4R_1 + C_1C_5L_1L_4R_1 + 2C_4C_5L_1L_4R_1 + 2C_4C_5L_4L_5R_1\right) + s^3\left(2C_4L_1L_4R_1g_m + 2C_4L_1L_4R_1g_m + C_5L_1L_4R_1g_m + 2C_5L_1L_5R_1g_m + 2C_5L_1L_5R_1
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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_5L_1L_4L_5R_1g_ms^2 - L_1L_4R_1s}{2L_1R_1 + L_4R_1 + 2L_5R_1 + s^4\left(2C_1C_4L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1\right) + s^3\left(2C_4L_1L_4L_5R_1g_m + 2C_4L_1L_4L_5\right) + s^2\left(C_1L_1L_4R_1 + 2C_4L_1L_4R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_5L_4L_5R_1\right) + s^2\left(2C_4L_4L_5R_1g_m + 2C_4L_4L_5R_1g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_5R_1g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_5R_1g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4L_5R_1g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4L_5R_1g_m + 2C_4L_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4L_5R_1g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4L_5R_1g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4L_5R_1g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4L_5R_1g_m + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4L_5R_1g_m + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_5R_1g_m + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_5R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4R_1 + 2C_4L_4L_5R_1\right) + s^2\left(2C_4L_4L_4R_
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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_5L_1L_4L_5R_1g_ms^4 + L_1L_4R_1g_ms^2 + s^3(C_5L_1L_4R_1R_5g_ms^2)
                                           \frac{ \sqrt{5} L_1 L_4 L_5 I_1 I_2 m^5 + L_1 L_4 I_4 I_2 I_m s}{2 C_1 C_4 C_5 L_1 L_4 L_5 R_1 s^6 + 2 R_1 + s^5 \left(2 C_1 C_4 C_5 L_1 L_4 R_1 R_5 + 2 C_4 C_5 L_1 L_4 L_5 R_1 g_m + 2 C_4 C_5 L_1 L_4 R_1 + 2 C_1 C_5 L_1 L_4 R_1 + 2 C_4 C_5 L_4 L_5 R_1 + 2 C_4 C_5 L_5 L_5 R_1 + 2 C_5 L_5 L_5 R_1 + 2 C_5 L_5 L_5 L_5 R_1 + 2 C_5
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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -C_5L_1L_4L_5R_1R_5s^3 - L_1L_4R_1R_5s + s^2(L_1L_4L_5R_1R_5g_m - L_1L_4L_5R_1)
H(s) = \frac{-C_5L_1L_4L_5R_1R_5s^\circ - L_1L_4R_1R_5s + s^2\left(L_1L_4L_5R_1R_5g_m - L_1L_4L_5R_1R_5g_m - L_1L_4L_5R_1\right)}{2L_1R_1R_5 + L_4R_1R_5 + 2L_5R_1R_5 + s^4\left(2C_1C_4L_1L_4L_5R_1R_5 + 2C_4C_5L_1L_4L_5R_1R_5\right) + s^3\left(C_1L_1L_4L_5R_1R_5g_m + 2C_4L_1L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_4L_5R_1 + 2C_4L_5L_4L_5R_1 + 2C_4L_5L_5R_1 + 2C_4L_5L_5R_1 + 2C_4L_5L_5R_1 + 2C_4L_5L_5R_1 + 2C_4L_5L_5R_1 + 2C_4L_5L_5R_1 + 2C_4L_5L_5
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, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                           \frac{L_{1}L_{4}L_{5}R_{1}}{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}s^{6}+2R_{1}R_{5}+s^{5}\left(2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              136
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 $H(s) = \frac{-C_4C_5L_1L_4R_1R_5s^4 - C_5L_1R_1R_5s^2 + s^5\left(C_4C_5L_1L_4L_5R_1R_5g_m - C_5L_1L_4R_1R_5s^4 - C_5L_1L$

10.793 INVALID-ORDER-793 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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10.803 INVALID-ORDER-803 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \frac{R_5 (C_5 L_5 s^2 + 1)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
H(s) = \frac{1}{2C_1C_4C_5L_1L_4L_5R_1R_5s^6 + 2R_1R_5 + s^5\left(C_1C_5L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1 + 2C_4C_5L_1L_4R_1R_5 + 2C_4C_5L_1R_5R_1R_5 + 2C_4C_5L_1R_5R_1R_5 + 2C_4C_5L_1R_5R_1R_5 + 2C_4C_5L_1R_5R_1R_5 + 2C_4C_5L_1R_5R_1R_5 + 2C_4C_5L_1R_5R_1R_5 + 2C_4C_5
10.804 INVALID-ORDER-804 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)
                                                                 H(s) = \frac{s^3 \left( C_4 L_1 L_4 R_1 R_5 g_m - C_4 L_1 L_4 R_1 \right) + s^2 \left( C_4 L_1 R_1 R_4 R_5 g_m - C_4 L_1 R_1 R_4 \right) + s \left( L_1 R_1 R_5 g_m - L_1 R_1 \right)}{C_1 C_4 L_1 L_4 R_1 s^4 + R_1 + s^3 \left( C_1 C_4 L_1 R_1 R_4 + 2 C_1 C_4 L_1 R_1 R_5 + 2 C_4 L_1 L_4 R_1 g_m + C_4 L_1 L_4 \right) + s^2 \left( C_1 L_1 R_1 + 2 C_4 L_1 R_1 R_5 g_m + 2 C_4 L_1 R_1 R_5 g_m + 2 C_4 L_1 R_1 + C_4 L_1 R_5 + C_4 L_4 R_1 \right) + s \left( C_4 R_1 R_4 + 2 C_4 R_1 R_5 + 2 C_4 L_1 R_1 R_5 g_m + C_4 L_1
10.805 INVALID-ORDER-805 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4R_1s^3 + L_1R_1g_m + s^2\left(-C_4C_5L_1R_1R_4 + C_4L_1L_4R_1g_m\right) + s\left(C_4L_1R_1R_4g_m - C_5L_1R_1\right)}{C_1C_4C_5L_1L_4R_1s^4 + 2C_4R_1 + C_5R_1 + s^3\left(C_1C_4C_5L_1R_1R_4 + 2C_4C_5L_1L_4R_1g_m + C_4C_5L_1R_1 + 2C_4C_5L_1R_1 + 2C_4C_5L_
10.806 INVALID-ORDER-806 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -C_4C_5L_1L_4R_1R_5s^4 + s^3\left(-C_4C_5L_1R_1R_4R_5 + C_4L_1L_4R_1R_5g_m - C_4L_1L_4R_1\right) + s^2\left(C_4L_1R_1R_4R_5g_m - C_4L_1R_1R_4R_5g_m\right) + s^2\left(C_4L_1R_1R_4R_5g_m - C_4L_1R_1R_4R_5g_m\right) + s^2\left(C_4L_1R_1R_4R_5g_m - C_4L_1R_1R_5g_m\right) + s^2\left(C_4L_1R_1R_4R_5g_m - C_4L_1R_1R_5g_m\right) + s^2\left(C_4L_1R_1R_1R_5g_m - C_4L_1R_1R_1R_5g_m
H(s) = \frac{-C_4C_5L_1L_4R_1R_5s^5 + s^5 \left(-C_4C_5L_1R_1R_4R_5 + C_4L_1L_4R_1R_5g_m - C_4L_1L_
10.807 INVALID-ORDER-807 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{L_1 R_1 g_m + s^3 \left( C_4 C_5 L_1 L_4 R_1 R_5 g_m - C_4 C_5 L_1 R_1 R_4 R_5 g_m - C_4 C_5 L_1 R_1 R_4 + C_4 L_1 L_4 R_1 g_m \right) + s \left( C_4 L_1 R_1 R_4 g_m + C_5 L_1 R_1 R_5 g_m - C_5 L_1 R_1 \right)}{C_1 C_4 C_5 L_1 L_4 R_1 s^4 + 2 C_4 R_1 + C_5 R_1 + s^3 \left( C_1 C_4 C_5 L_1 R_1 R_4 + 2 C_1 C_4 C_5 L_1 R_1 R_5 g_m + C_4 C_5 L_1 R_1 + C_4 C_5 L_1 R_1 R_5 g_m + 2 C_4 C_5 L_1 R_1 R_5 g_m + 2 C_4 C_5 L_1 R_1 + C_4 C_5 L_1 R
10.808 INVALID-ORDER-808 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                \frac{C_4C_5L_1L_4L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(-C_4C_5L_1L_4R_1 + C_4C_5L_1L_5R_1R_4g_m\right) + s^2\left(-C_4C_5L_1R_1R_4 + C_4L_1L_4R_1g_m + C_5L_1L_5R_1g_m\right) + s\left(C_4L_1R_1R_4g_m - C_5L_1R_1\right)}{2C_4R_1 + C_5R_1 + s^4\left(C_1C_4C_5L_1L_4R_1 + 2C_4C_5L_1L_4R_1g_m + C_4C_5L_1L_4R_1g_m + 2C_4C_5L_1L_5R_1g_m\right) + s^2\left(2C_1C_4L_1R_1 + 2C_4C_5L_1R_1R_4 + 2C_4C_5L_1R_1R_4 + 2C_4C_5L_1R_1\right)}
10.809 INVALID-ORDER-809 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_{48}}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_1s^5 - L_1R_1s + s^4\left(-C_4C_5L_1L_5R_1R_4 + C_4L_1L_4L_5R_1g_m\right) + s^3\left(-C_4L_1L_4R_1 + C_4L_1L_5R_1R_4 + C_4L_5L_5R_1R_4 + C_4C_5L_5R_1R_4 + C_4
10.810 INVALID-ORDER-810 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                \frac{C_4C_5L_1L_4L_5R_1g_ms^4 + L_1R_1g_m + s^3\left(C_4C_5L_1L_4R_1R_5g_m - C_4C_5L_1L_4R_1 + C_4C_5L_1L_5R_1R_4g_m\right) + s^2\left(C_4C_5L_1R_1R_4R_5g_m - C_4C_5L_1R_1R_4 + C_4L_1L_4R_1g_m + C_5L_1L_5R_1g_m\right)}{2C_4R_1 + C_5R_1 + s^4\left(C_1C_4C_5L_1L_4R_1 + 2C_1C_4C_5L_1L_4R_1 + 2C_4C_5L_1L_4R_1g_m + C_4C_5L_1L_5R_1g_m + 2C_4C_5L_1L_5R_1g_m + 2C_4C_5L_1L_5R_1g_m + 2C_4C_5L_1R_1R_4 + 2C_4C_5L_1R_1R_4g_m + 2
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10.811 INVALID-ORDER-811 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

 $H(s) = \frac{1}{C_1 C_4 C_5 L_1 L_4 L_5 R_1 R_5 s^6 + R_1 R_5 + s^5 \left(C_1 C_4 C_5 L_1 L_5 R_1 R_4 R_5 + C_1 C_4 L_1 L_4 L_5 R_1 + 2 C_4 C_5 L_1 L_4 L_5 R_1 R_5 + c_1 C_4 L_1 L_5 R_1 R_4 + 2 C_1 C_4 L_1 L_5 R_1 R_5 + c_1 C_5 L_1 L_5 R_1 R_4 R_5 + c_1 C_4 L_1 L_5 R_1 R_4 R_5 + c_1 C_4 L_4 L_5 R_1 R_5 + c_1 C_4 L_5 L_5 R_1 R_5 + c_1 C_4 L_5 L_5 R_1 R_5 + c_1 C_5 L_5 L_5 R_1 R_5 + c_1 C_5 L_5 L_5 R_5 R_5 R_5 R$

10.812 INVALID-ORDER-812 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $\frac{c_4 c_5 L_1 L_4 L_5 R_1 s^6 + R_1 + s^5 \left(C_1 C_4 C_5 L_1 L_5 R_1 R_4 + 2 C_1 C_4 C_5 L_1 L_5 R_1 R_4 + 2 C_4 C_5 L_1 L_5 R_1 R_4 + 2 C_4 C_5 L_1 L_5 R_1 R_4 + 2 C_4 C_5 L_1 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_1 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_1 L_5 R_1 R_4 g_m + 2 C_4 C_5 L_1 L_5 R_1 R_5$

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10.813 INVALID-ORDER-813 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
```

 $H(s) = \frac{s - (\sqrt{4}\sqrt{5}L_1}{C_1C_4C_5L_1L_4L_5R_1s^6 + R_1 + s^5\left(C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_5R_1R_4 + 2C_1C_4C_5L_1L_4R_5 + 2C_4C_5L_1L_4L_5R_1g_m + C_4C_5L_1L_4R_5 + C_1C_4L_5L_1L_4R_1 + C_1C_5L_1L_5R_1 + 2C_4C_5L_1L_4R_1R_5g_m + C_4C_5L_1L_4R_1 + C_$

10.814 INVALID-ORDER-814 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5, \infty\right)$

 $H(s) = \frac{s^2 \left(L_1 L_4 R_1 R_4 R_5 g_m - L_1 L_4 R_1 R_4 \right)}{2 C_1 C_4 L_1 L_4 R_1 R_4 R_5 s^4 + 2 R_1 R_4 R_5 s^4 + 2 R_1 R_4 R_5 s^4 + 2 C_1 L_1 L_4 R_1 R_4 + 2 C_4 L_1 L_4 R_1 R_4 R_5 g_m + 2 C_4 L_1 L_4 R_1 R_4 R_5 \right) + s^2 \left(2 C_1 L_1 R_1 R_4 R_5 + 2 C_4 L_1 L_4 R_1 R_4 g_m + 2 L_1 L_4 R_1 R_5 g_m + 2 L_1 L_$

10.815 INVALID-ORDER-815 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{-C_5L_1L_4R_1R_4s^3 + L_1L_4R_1R_4g_ms^2}{2R_1R_4 + s^4\left(2C_1C_4L_1L_4R_1R_4 + C_1C_5L_1L_4R_1R_4 + 2C_4L_5L_1L_4R_1R_4 + 2C_4L_1L_4R_1R_4g_m + 2C_4L_1L_4R_1R_4g_m + 2C_5L_1L_4R_1 + C_5L_1L_4R_1 + 2C_4L_4R_1R_4 + 2C_5L_1L_4R_1R_4 + 2C_5L_1L_4R_1R_4 + 2C_5L_1L_4R_1R_4 + 2C_5L_1L_4R_1R_4 + 2C_5L_1L_4R_1R_4 + 2C_5L_1R_1R_4 +$

10.816 INVALID-ORDER-816 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$

 $-C_5L_1L_4R_1R_4R_5s^3 + s^2(L_1L_4R_1R_4R_5g_m - L_1L_4R_1R_4)$

 $\frac{-C_5L_1L_4R_1R_4R_5s^\circ + s^\circ (L_1L_4R_1R_4R_5g_m - L_1L_4R_1R_4)}{2R_1R_4R_5 + s^4 (2C_1C_4L_1L_4R_1R_4R_5 + C_5L_1L_4R_1R_4R_5 + C_5L_1L_4R_1R_4R_5) + s^3 (C_1L_1L_4R_1R_4 + 2C_4L_1L_4R_1R_4 + 2C_4L_1L_4R_1R_4 + 2C_4L_1L_4R_1R_4 + 2C_5L_1L_4R_1R_4 + 2C_5L_5L_5L_4R_1R_4 + 2C_5L_5L_5L_4R_1R_4 + 2C_5L_5L_5L_5R_1R_4 + 2C_5L_5L_5R_1R_4 + 2C_5L_5L_5R_1R_4 + 2C_5L_5L_5R_1R_4 + 2C_5L_5L_5R_1R_4 + 2C_5L_5R_1R_4 + 2C_5R_1R_4 + 2C_5R_$

10.817 INVALID-ORDER-817 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, R_5 + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{L_1L_4R_1R_4g_ms^2 + s^3}{2C_1C_4C_5L_1L_4R_1R_4R_5s^5 + 2R_1R_4 + s^4\left(2C_1C_4L_1L_4R_1R_4 + 2C_1C_5L_1L_4R_1R_4 + 2C_4C_5L_1L_4R_1R_4 + 2C_4C_5L_4L_4R_1R_4 + 2C_4C_5L_4L_4R_1R_4 + 2C_4C_5L_4L_4R_1R_4 + 2C_4C_5L_4R_1R_4 + 2C_4C_5L_4R_1R_4$

10.818 INVALID-ORDER-818 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $\frac{C_5L_1L_4L_5R_1R_4g_ms^2}{2C_1C_4C_5L_1L_4L_5R_1R_4s^6+2R_1R_4+s^5\left(2C_1C_5L_1L_4L_5R_1+2C_4C_5L_1L_4L_5R_1R_4g_m+2C_4C_5L_1L_4R_1R_4+C_1C_5L_1L_4R_1R_4+2C_4C_5L_4R_1R_4+2C_4C_5L_4R_1R_4+2C_5L_4R_1R_4+2C_5L_4R_1R_4+2C_5L_5R_1R_4+2C_5L_5R_1R_5R_1R_5+2C_5R_1R_5R_1R_5+2C_5R_1R_5R_1R_5+2C_5R_1R_5R_1R_5+2C_5R_1R_5R_1R_5+2C_5R_1R_5+2C_5R$

10.819 INVALID-ORDER-819 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$

10.820 INVALID-ORDER-820 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$

 $\overline{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}s^{6}+2R_{1}R_{4}+s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}R_{5}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+2C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}\right)+s^{4}\left(2C_{1}C_{4}L_{1}L_{4}R_{1}R_{4}+2C_{1}C_{5}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{4}R_{1}R_{5}+2C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+2C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+2C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+2C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+2C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+2C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+2C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+2C_{4}C_{5}L_{5}L_{5}L_{5}R_{5}+2C_{5}C_{5}L_{5}L_{5}L_{5}R_{5}+2C_{5}C_{5$

10.821 INVALID-ORDER-821 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_5 L_4 R_4 s^2 + L_4 s + R_4}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$

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

10.822 INVALID-ORDER-822 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)$

 $\frac{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}s^{6} + 2R_{1}R_{4}R_{5} + s^{5}\left(2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}R_{4} + C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4} + 2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4} + 2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5} + 2C_{4}C_{5}L_{4}L_{5}R_{1}R_{5} + 2C_{4}C_{5}L_{5}L_{5}L_{5}R_{1}R_{5} + 2C_{4}C_{$

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H(s) = \frac{1}{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}s^{6} + 2R_{1}R_{4}R_{5}s^{6} + 2R_{1}R_{4
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5, \infty\right)
H(s) = \frac{s^3 \left( C_4 L_1 L_4 R_1 R_4 R_5 g_m - C_4 L_1 L_4 R_1 R_4 \right) + s^2 \left( L_1 L_4 R_1 R_5 g_m - L_1 L_4 R_1 \right) + s \left( L_1 R_1 R_4 R_5 g_m - L_1 R_1 R_4 \right)}{R_1 R_4 + 2 R_1 R_5 + s^4 \left( C_1 C_4 L_1 L_4 R_1 R_4 + 2 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_4 L_1 L_4 R_1 + 2 C_4 L_1 L_4 R_1 R_5 + 2 C_4 L_4 R_1 R_5 \right) + s^3 \left( C_1 L_1 L_4 R_1 R_4 + 2 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_4 L_1 L_4 R_1 R_5 + 2 C_4 L_4 R_1 R_5 + 2 C_4 L_4 R_1 R_5 + 2 C_4 L_4 R_1 R_5 \right) + s^2 \left( C_1 L_1 R_1 R_4 + 2 C_4 L_4 R_1 R_5 \right) + s^2 \left( C_1 L_4 R_1 R_5 g_m - L_4 R_4 R_5
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{1}{C_5 s}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4R_1R_4s^4 + L_1R_1R_4g_m s + s^3\left(C_4L_1L_4R_1R_4g_m - C_5L_1L_4R_1\right) + s^2\left(-C_5L_1R_1R_4 + L_1L_4R_1g_m\right)}{C_1C_4C_5L_1L_4R_1R_4s^5 + 2R_1 + s^4\left(2C_1C_4L_1L_4R_1 + 2C_4C_5L_1L_4R_1 + 2C_4C_5L_1L_4R_1\right) + s^2\left(2C_1L_1R_1 + 2C_4L_4R_1 + 2C_4L_4R_1\right) + s^2\left(2C_1L_1R_1 + 2C
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -C_4C_5L_1L_4R_1R_4R_5s^4 + s^3\left(C_4L_1L_4R_1R_4R_5g_m - C_4R_5g_m\right)
H(s) = \frac{-C_4C_5L_1L_4R_1R_4R_5s + s^-(C_4L_1L_4R_1R_4R_5s + s^-(C_4L_1L_4R_1R_4s + s^-(C_4L_1L_4R
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      L_{1}R_{1}R_{4}g_{m}s + s^{4}\left(C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} + C_{5}L_{1}L_{4}R_{1}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}\right) + s^{4}\left(C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} + C_{5}L_{1}L_{4}R_{1}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} + C_{5}L_{1}L_{4}R_{1}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} + C_{5}L_{1}L_{4}R_{1}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} + C_{5}L_{1}L_{4}R_{1}R_{5}g_{m} - C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{5}g_{m} + C_{5}L_{1}L_{4}R_{1}R_{5}g_{m}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{5}g_{m} + C_{5}L_{1}L_{4}R_{5}g_{m}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{5}g_{m} + C_{5}L_{1}L_{4}R_{5}g_{m}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{5}g_{m} + C_{5}L_{1}L_{4}R_{5}g_{m}\right) + s^{4}\left(C_{4}L_{1}L_{4}R_{1}R_{5}g_{m} + 
H(s) = \frac{L_1 R_1 R_4 g_m s + s^4 \left(C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4\right) + s^3 \left(C_4 L_1 L_4 R_1 R_4 g_m + C_5 L_1 L_4 R_1 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_4 R_5 g_m - C_4 C_5 L_1 L_4 R_1 R_5 g_m - C_4 C_5 L_4 R_1 R
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}s^{5} + L_{1}R_{1}R_{4}g_{m}s + s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{1}R_{4} + C_{5}L_{1}L_{4}L_{5}R_{1}g_{m}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} - G_{4}C_{5}L_{1}L_{4}R_{1}R_{4}\right) + s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{1}R_{4} + C_{5}L_{1}L_{4}L_{5}R_{1}g_{m}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} - G_{4}C_{5}L_{1}L_{4}R_{1}R_{4}\right) + s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{1}R_{4} + C_{5}L_{1}L_{4}L_{5}R_{1}g_{m}\right) + s^{3}\left(C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} - G_{4}C_{5}L_{1}L_{4}R_{1}R_{4}\right) + s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{1}R_{4} + C_{5}L_{1}L_{4}L_{5}R_{1}g_{m}\right) + s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{1}R_{4} + C_{5}L_{1}L_{4}R_{1}R_{2}R_{1}R_{2}\right) + s^{4}\left(-C_{4}C_{5}L_{1}L_{4}R_{1}R_{2}R_{2}R_{2}\right) + s^{4}\left(-C_{4}C_{5}L_{1}R_{1}R_{2}R_{2}R_{2}R_{2}\right) + s^{4}\left(-C_{4}C_{5}L_{1}R_{1}R_{2}R_{2}R_
                                                           \frac{C_4C_5L_1L_4L_5R_1R_4g_ms^* + L_1R_1R_4g_ms + s^* (-C_4C_5L_1L_4R_1R_4 + C_5L_1L_4L_5R_1g_m) + s^* (C_4L_1L_4R_1R_4g_m - C_4C_5L_1L_4L_5R_1s^6 + 2R_1 + s^5 (C_1C_4C_5L_1L_4R_1R_4 + 2C_4C_5L_1L_4R_1 + 2C_4C_5L_4L_5R_1 + 2C_4C_5L_5L_5R_1 + 2C_4C_5L_5L_5R_1 + 2C_4C_5L_5L_5L_5R_1 + 2C_4C_5L_5L_5L_5R_1 + 2C_5L_5L_5L_5R_1 + 2C_5L_5L_5L_
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)
H(s) = \frac{-C_4C_5L_1L_4L_5R_1R_4s^5 - L_1R_1R_4s + s^4\left(C_4L_1L_4L_5R_1R_4s^5 - L_1R_1R_4s + s^4\left(C_4L_1L_4L_5R_1R_4s^6 + R_1R_4 + s^5\left(2C_1C_4L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_4\right) + s^4\left(C_1C_4L_1L_4R_1R_4 + C_1C_5L_1L_5R_1R_4 + C_4C_5L_4L_5R_1R_4 + 2C_4L_4L_5R_1R_4 + 2C_4L_5L_4L_5R_1R_4 + 2C_4L_5L_4L_5R_1R_4 + 2C_4L_5L_4L_5R_1R_4 + 2C_4L_5L_4L_5R_1R_4 + 2C_4L_5L_5R_1R_4 + 2C_4L_5L_5R_1R_5 + 2C_5L_5L_5R_5R_5 + 2C_5L_5L_5R_5R_5 + 2C_5L_5L_5R_5R_5 + 2C_5L_5L_5R_5R_5 + 2C_5L_5L_5R_5
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_4C_5L_1L_4L_5R_1R_4g_ms^5 + L_1R_1R_4g_ms + s^4\left(C_4C_5L_1L_4R_1R_4R_5g_m - \frac{1}{2}R_4R_5g_m - \frac{1}{2}R_5g_m 
                                                           \frac{C_4C_5L_1L_4L_5R_1R_4g_ms + L_1R_1R_4g_ms + C_4C_5L_1L_4R_1R_4g_ms 
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)
H(s) = \frac{1}{C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}s^{6} + R_{1}R_{4}R_{5} + s^{5}\left(C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}R_{5} + C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5} + C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5} + C_{4}C_{5}L_{4}L_{5}R_{1}R_{5} + C_{4}C_{5}L_{4}L_{5}R_{4}R_{5} + C_{4}C_{5}L_{4}L_{5}R_{1}R_{5} + C_{4}C_{5}L_{4}L_{5}R_
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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
                                                            \overline{R_{1}R_{4} + 2R_{1}R_{5} + s^{6}\left(C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4} + 2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}\right) + s^{5}\left(2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1} + C_{1}C_{5}L_{1}L_{4}L_{5}R_{1} + 2C_{4}C_{5}L_{1}L_{4}L_{5}R_{1} + 2C_{4}C_{
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10.823 INVALID-ORDER-823 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$

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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, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)
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10.834 INVALID-ORDER-834
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5, \infty\right)$$

 $H(s) = \frac{s^3 \left(C_4 L_1 L_4 R_1 R_4 R_5 g_m - C_4 L_1 L_4 R_1 R_4 \right) + s \left(L_1 R_1 R_4 R_5 g_m - L_1 R_1 R_4 \right)}{R_1 R_4 + 2 R_1 R_5 + s^4 \left(C_1 C_4 L_1 L_4 R_1 R_4 + 2 C_4 L_1 L_4 R_1 R_5 \right) + s^3 \left(2 C_1 C_4 L_1 R_1 R_4 R_5 + 2 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_4 L_1 L_4 R_1 R_5 \right) + s^2 \left(C_1 L_1 R_1 R_4 + 2 C_1 L_1 R_1 R_5 + 2 C_4 L_1 R_1 R_4 R_5 g_m + 2 C_4 L_1 R_4 R_5 g_m + 2$

10.835 INVALID-ORDER-835
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{-C_4C_5L_1L_4R_1R_4s^4 + C_4L_1L_4R_1R_4g_ms^3 - C_5L_1R_1R_4s^2 + L_1R_1R_4g_ms}{C_1C_4C_5L_1L_4R_1R_4s^5 + 2R_1 + s^4\left(2C_1C_4L_1L_4R_1 + 2C_4C_5L_1L_4R_1 + C_4C_5L_1L_4R_1 + C_4C_5L_1L_4R_1 + C_4C_5L_1R_1R_4 + C_4C$

10.836 INVALID-ORDER-836
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5}{C_5 R_5 s + 1}, \infty\right)$$

 $-C_4C_5L_1L_4R_1R_4R_5s^4 - C_5L_1L_4R_1R_4R_5s^4 - C_5L_1L_4R_1R_4R_5s^4 - C_5L_1L_4R_1R_4R_5s^4 - C_5L_1L_4R_1R_4R_5s^5 + R_1R_4 + 2R_1R_5s^4 + 2C_4C_5L_1L_4R_1R_4R_5s^4 + 2C_4C_5L_1L_4R_1R_4s^4 + 2C_4C_5L_1L_4R_1R_5s^4 + 2C_4C_5L_1L_4R_1R_5s^4 + 2C_4C_5L_1L_4R_1R_5s^4 + 2C_4C_5L_1L_4R_1R_5s^4 + 2C_4C_5L_1L_4R_1R_5s^4 + 2C_4C_5L_1L_4R_1R_5s^4 + 2C_4C_5L_1L_4R_1R_5$

10.837 INVALID-ORDER-837
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, R_5 + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_4 L_1 L_4 R_1 R_4 g_m s^3 + L_1 R_1 R_2 g_m s^3 + L_1 R_1 R_1 g_m s^3 + L_1 R_1 R_1 g_m s^3 + L_1 R_1 g_m s^3$

10.838 INVALID-ORDER-838
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $H(s) = \frac{C_4C_5L_1L_4L_5R_1s^6 + 2R_1 + s^5\left(C_1C_4C_5L_1L_4R_1R_4 + 2C_4C_5L_1L_4R_1R_4 + 2C_4C_5L_1L_4R_1R_4 + 2C_4C_5L_1L_4R_1 + 2C_4C_5L_4L_5L_4R_1 + 2C_4C_5L_$

10.839 INVALID-ORDER-839
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_4C_5L_1L_4L_5R_1R_4s^5 + C_4L_1L_4}{C_1C_4C_5L_1L_4L_5R_1R_4s^6 + R_1R_4 + s^5\left(2C_1C_4L_1L_4L_5R_1 + 2C_4C_5L_1L_4L_5R_1 + C_4C_5L_1L_4L_5R_1 + C_4C_5L_4L_5R_1 + C_4C_5L_5L_5R_1 + C_4$

10.840 INVALID-ORDER-840
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, L_5 s + R_5 + \frac{1}{C_5 s}, \infty\right)$$

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

10.841 INVALID-ORDER-841
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{L_5 R_5 s}{C_5 L_5 R_5 s^2 + L_5 s + R_5}, \infty\right)$$

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10.842 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, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{C_5 L_5 R_5 s^2 + L_5 s + R_5}{C_5 L_5 s^2 + 1}, \infty\right)
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10.843 INVALID-ORDER-843
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \frac{R_5 \left(C_5 L_5 s^2 + 1\right)}{C_5 L_5 s^2 + C_5 R_5 s + 1}, \infty\right)$$

10.844 INVALID-ORDER-844
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1R_1R_4s^3 + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m - C_5L_1R_4\right) + s\left(-C_5R_1R_4 + L_1R_4g_m\right)}{2R_1g_m + s^3\left(2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_4\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + 2C_5L_1R_4g_m + 2C_5L_1\right) + s\left(2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4 + 2L_1g_m\right) + 2C_5R_1R_4g_m + 2C_5R_1R_4g_$$

10.845 INVALID-ORDER-845
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \frac{R_5}{C_5R_5s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_5L_1R_1R_4R_5s^3 + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4 - C_5L_1R_4R_5\right) + s\left(-C_5R_1R_4R_5 + L_1R_4R_5g_m - L_1R_4\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^3\left(2C_1C_5L_1R_1R_4R_5g_m + 2C_1C_5L_1R_1R_5 + C_1C_5L_1R_1R_5\right) + s^2\left(2C_1L_1R_1R_4g_m + 2C_1L_1R_1 + C_1L_1R_4 + 2C_1L_1R_5 + 2C_5L_1R_4\right) + s\left(-C_5R_1R_4R_5g_m - L_1R_4\right)}$

10.846 INVALID-ORDER-846
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{R_1R_4g_m + s^3\left(C_1C_5L_1R_1R_4R_5g_m - C_1C_5L_1R_1R_4g_m + C_5L_1R_4g_m + C_5L_1R_4F_5g_m - C_5R_1R_4 + L_1R_4g_m\right)}{2R_1g_m + s^3\left(2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1R_5g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_4 + 2C_1C_5L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + 2C_5L_1R_4g_m + 2C_5L_1R_5g_m + 2C_5R_1R_4g_m + 2C_5R_1R_5g_m + 2C_5R_5g_m + 2C_5R_1R_5g_m + 2C_$$

10.847 INVALID-ORDER-847
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(-C_1C_5L_1R_1R_4 + C_5L_1L_5R_4g_m\right) + s^2\left(C_1L_1R_1R_4g_m - C_5L_1R_4 + C_5L_5R_1R_4g_m\right) + s\left(-C_5R_1R_4 + L_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_1C_5L_1L_5R_1g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_4 + 2C_5L_1L_5g_m\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + 2C_5L_1R_4g_m + 2C_5L_1 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4 + 2L_1g_m\right) + s\left(2C_5R_1R_4g_m + 2C_5R_1R_4g_m + 2C_5R_1R_4g_m + 2C_5R_1R_4g_m\right) + s\left(2C_5R_1R_4g_m + 2C_5R_1$$

10.848 INVALID-ORDER-848
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_4s^4 - R_1R_4 + s^3\left(C_1L_1L_5R_1R_4g_m - C_5L_1L_5R_4\right) + s^2\left(-C_1L_1R_1R_4 - C_5L_5R_1R_4 + L_1L_5R_4g_m\right) + s\left(-L_1R_4 + L_5R_1R_4g_m\right)}{2R_1R_4g_m + 2R_1 + R_4 + s^4\left(2C_1C_5L_1L_5R_1R_4g_m + 2C_1L_5R_1 + C_1C_5L_1L_5R_4g_m + 2C_1L_1L_5 + 2C_5L_1L_5R_4g_m + 2C_5L_5R_1R_4 + L_1L_5R_4g_m\right) + s\left(-L_1R_4 + L_5R_1R_4g_m\right)}$$

10.849 INVALID-ORDER-849
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(C_1C_5L_1R_1R_4R_5g_m - C_1C_5L_1R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_5L_1R_4R_5g_m - C_5L_1R_4 + C_5L_5R_1R_4g_m\right) + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4 + L_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_1C_5L_1L_5R_1g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_4g_m + 2C_1C_5L_1R_4g$$

10.850 INVALID-ORDER-850
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_4R_5s^4 - R_1R_4R_5s^4 - R_1R_4R_5s^4 - R_1R_4R_5s^4 - C_1L_1L_5R_1R_4R_5g_m - C_1L_1L_5R_1R_4 - C_5L_1L_5R_4R_5) + s^2\left(-C_1L_1R_1R_4R_5 - C_5L_5R_1R_4R_5 + L_1R_4R_5g_m - C_1L_1L_5R_1R_4R_5g_m + 2C_1L_1L_5R_1R_4R_5g_m + 2C_1L_1L_5R_1R_4g_m + 2C_1L_1L_5R_1$$

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10.851 INVALID-ORDER-851 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)
H(s) = \frac{R_1R_4R_5g_m - R_1R_4 + s^4\left(C_1C_5L_1L_5R_1R_4g_m - C_1C_5L_1L_5R_1R_4g_m + C_5L_1L_5R_4R_5g_m - C_5L_1L_5R_4\right) + s^2\left(C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4 + C_5R_5R_5g_m - C_5R_5R_5g_m - C_5R_5R_5g_m + C_5R_5R_5g_m - C_5R
10.852 INVALID-ORDER-852 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^2 \left(C_1 C_5 L_1 L_5 R_1 R_4 R_5 g_m - C_1 C_5 L_1 L_5 R_1 R_4 \right) + s^2 \left(-C_1 C_5 L_1 L_5 R_4 R_5 g_m - C_5 L_1 L_5 R_4 R_5 g_m - C_5 L_1 L_5 R_4 + s^2 \left(C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_4 R_5 g_m + 2 C_1 C_5 L_1 L_5 R_5 g_m + 2 C_1 C_5
10.853 INVALID-ORDER-853 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, \infty, \frac{1}{C_{4s}}, 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(2C_1C_4L_1R_1R_5g_m + 2C_1C_4L_1R_1 + 2C_1C_4L_1R_5\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_1R_5g_m + 2C_4L_1\right) + s\left(2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_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, \infty, \frac{1}{C_4s}, \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)}{2C_1C_4C_5L_1R_1s^4 + s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_4C_5L_1\right) + s^2\left(2C_4C_5R_1 + 2C_4L_1g_m + 2C_5L_1g_m\right) + s\left(2C_4R_1g_m + 2C_4 + 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, \infty, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s + 1}, \infty\right)
                                 -C_{1}C_{5}L_{1}R_{1}R_{5}s^{3}+R_{1}R_{5}g_{m}-R_{1}+s^{2}\left(C_{1}L_{1}R_{1}R_{5}g_{m}-C_{1}L_{1}R_{1}-C_{5}L_{1}R_{5}\right)+s\left(-C_{5}R_{1}R_{5}+L_{1}R_{5}g_{m}-L_{1}\right)\\ -C_{1}C_{4}L_{1}R_{1}R_{5}s^{3}+R_{1}R_{5}g_{m}-R_{1}+s^{2}\left(C_{1}L_{1}R_{1}R_{5}g_{m}-C_{1}L_{1}R_{1}-C_{5}L_{1}R_{5}\right)+s\left(-C_{5}R_{1}R_{5}+L_{1}R_{5}g_{m}-L_{1}\right)\\ -C_{1}C_{4}L_{1}R_{1}R_{5}s^{3}+R_{1}R_{5}g_{m}-R_{1}+s^{2}\left(C_{1}L_{1}R_{1}R_{5}g_{m}-C_{1}L_{1}R_{5}+L_{1}R_{5}g_{m}-L_{1}\right)\\ -C_{1}C_{5}L_{1}R_{1}R_{5}s^{3}+R_{1}R_{5}g_{m}-R_{1}+s^{2}\left(C_{1}L_{1}R_{1}R_{5}g_{m}-C_{1}L_{1}R_{5}+L_{1}R_{5}g_{m}-L_{1}\right)\\ -C_{1}C_{5}L_{1}R_{1}R_{5}s^{3}+R_{1}R_{5}g_{m}-R_{1}+s^{2}\left(C_{1}L_{1}R_{1}R_{5}g_{m}-C_{1}L_{1}R_{5}+L_{1}R_{5}g_{m}-L_{1}\right)\\ -C_{1}C_{5}L_{1}R_{1}R_{5}s^{3}+R_{1}R_{5}g_{m}-R_{1}+s^{2}\left(C_{1}L_{1}R_{1}R_{5}g_{m}+C_{1}L_{1}+C_{5}L_{1}R_{5}+L_{1}R_{5}g_{m}-L_{1}\right)\\ -C_{1}C_{5}L_{1}R_{1}R_{5}s^{3}+R_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{5}g_{m}+C_{1}L_{1}R_{1}R_{5}g_{m}+C_{1}L_{1}R_{1}R_{1}R_{
10.856 INVALID-ORDER-856 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, \infty, \frac{1}{C_4 s}, R_5 + \frac{1}{C_5 s}, \infty\right)
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$$10.856 \quad \text{INVALID-ORDER-856} \ Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ R_5 + \frac{1}{C_5s}, \ \infty\right)$$

$$R_1g_m + s^3 \left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1\right) + s^2 \left(C_1L_1R_1g_m + C_5L_1R_5g_m - C_5L_1\right) + s \left(C_5R_1R_5g_m - C_5R_1 + L_1g_m\right)$$

$$H(s) = \frac{R_1g_m + s^3 \left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1\right) + s^2 \left(C_1L_1R_1g_m + C_5L_1R_5g_m - C_5R_1 + L_1g_m\right)}{s^4 \left(2C_1C_4C_5L_1R_1R_5g_m + 2C_1C_4C_5L_1R_5\right) + s^3 \left(2C_1C_4L_1R_1g_m + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_4C_5L_1R_5g_m + 2C_4C_5R_1 + 2C_4C_5R_1$$

10.857 INVALID-ORDER-857
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5R_1g_ms^4 + R_1g_m + s^3\left(-C_1C_5L_1R_1 + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m - C_5L_1 + C_5L_5R_1g_m\right) + s\left(-C_5R_1 + L_1g_m\right)}{s^5\left(2C_1C_4C_5L_1L_5R_1g_m + 2C_1C_4C_5L_1L_5\right) + s^4\left(2C_1C_4C_5L_1R_1 + 2C_4C_5L_1L_5g_m\right) + s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + 2C_4C_5L_1\right) + s^2\left(2C_4C_5R_1 + 2C_4C_5L_1\right) + s^2\left(2C_4C_5R_1 + 2C_4C_5L_1g_m\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m\right) + s\left(2C_4R_1g_$$

10.858 INVALID-ORDER-858
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_1s^4 - R_1 + s^3\left(C_1L_1L_5R_1g_m - C_5L_1L_5\right) + s^2\left(-C_1L_1R_1 - C_5L_5R_1 + L_1L_5g_m\right) + s\left(-L_1 + L_5R_1g_m\right)}{2C_1C_4C_5L_1L_5R_1s^5 + 2R_1g_m + s^4\left(2C_1C_4L_1L_5R_1g_m + 2C_1C_4L_1L_5 + 2C_4C_5L_1L_5\right) + s^3\left(2C_1C_4L_1R_1 + 2C_4C_5L_5R_1 + 2C_4L_1L_5g_m\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_1 + 2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m\right)}$$

10.859 INVALID-ORDER-859
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

$$H(s) = \frac{C_1C_5L_1L_5R_1g_ms^4 + R_1g_m + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m + C_5L_1R_5g_m - C_5L_1 + C_5L_5R_1g_m\right) + s\left(C_5R_1R_5g_m - C_5R_1 + L_1g_m\right)}{s^5\left(2C_1C_4C_5L_1L_5R_1g_m + 2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1R_5g_m\right) + s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + 2C_1C_5L_1R_5g_m + 2C_4C_5L_1 + 2C_4C_5L_1R_5g_m + 2C_4C_5L_1\right) + s^4\left(2C_1C_4C_5L_1R_5g_m + 2C_4C_5L_1R_5g_m + 2C_$$

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10.860 INVALID-ORDER-860 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}s^{4}-R_{1}R_{5}+s^{3}\left(C_{1}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}L_{1}L_{5}R_{1}-C_{5}L_{1}L_{5}R_{5}\right)+s^{2}\left(-C_{1}L_{1}R_{1}R_{5}-C_{5}L_{5}R_{1}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}\right)+s^{2}\left(-C_{1}L_{1}R_{1}R_{5}-C_{5}L_{5}R_{1}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}\right)+s^{2}\left(-C_{1}L_{1}R_{1}R_{5}-C_{5}L_{5}R_{1}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}R_{5}+L_{1}L_{5}+L_{1}
 H(s) = \frac{-C_1C_5L_1L_5R_1R_5s^2 - 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_5\right)}{2C_1C_4C_5L_1L_5R_1R_5s^5 + 2R_1R_5s^5 + 2R_1R_5g_m + C_1C_4L_1L_5R_1R_5g_m + C_1C_5L_1L_5R_5\right) + s^3\left(2C_1C_4L_1R_1R_5 + 2C_1L_1L_5R_1g_m + C_1L_1L_5R_1R_5g_m + C_1L_1L_5R
 10.861 INVALID-ORDER-861 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R_{1}R_{5}g_{m}-R_{1}+s^{4}\left(C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}\right)+s^{3}\left(C_{1}L_{1}L_{5}R_{1}g_{m}+C_{5}L_{1}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{5}\right)+s^{2}\left(C_{1}L_{1}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{5}L_{1}L_
                                                       \frac{R_1R_5g_m - R_1 + s^2 \left(C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1g_m + C_5L_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_5L_1L_5R_1g_m + C_5L_1L_5
10.862 INVALID-ORDER-862 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R_{1}R_{5}g_{m}-R_{1}+s^{4}\left(C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}\right)+s^{3}\left(-C_{1}C_{5}L_{1}R_{1}R_{5}+C_{5}L_{1}L_{5}R_{5}g_{m}-C_{5}L_{1}L_{5}R_{5}\right)
 H(s) = \frac{R_1 R_5 g_m - R_1 + s - (C_1 C_5 L_1 L_5 R_1 R_5 g_m - C_1 C_5 L_1 L_5 R_1 R_5 g_m - C_1 C_5 L_1 L_5 R_1 R_5 g_m - C_1 C_5 L_1 L_5 R_2 g_m - C_
 10.863 INVALID-ORDER-863 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, R_5, \infty\right)
 H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^2 \left(C_1 L_1 R_1 R_4 R_5 g_m - C_1 L_1 R_1 R_4\right) + s \left(L_1 R_4 R_5 g_m - L_1 R_4\right)}{2 R_1 R_4 g_m + 2 R_1 R_5 g_m + 2 R_1 + R_4 + 2 R_5 + s^3 \left(2 C_1 C_4 L_1 R_1 R_4 R_5 g_m + 2 C_1 L_1 R_1 R_4 g_m + 2 C_1 L_1 R_1 + C_1 L_1 R_4 + 2 C_1 L_1 R_5 g_m + 2 C_4 L_1 R_4 R_5 g_m + 2 C_
 10.864 INVALID-ORDER-864 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \frac{1}{C_5s}, \infty\right)
                                                       \frac{-C_{1}C_{5}L_{1}R_{1}R_{4}s^{3}+R_{1}R_{4}g_{m}+s^{2}\left(C_{1}L_{1}R_{1}R_{4}g_{m}-C_{5}L_{1}R_{4}\right)+s\left(-C_{5}R_{1}R_{4}+L_{1}R_{4}g_{m}\right)}{2C_{1}C_{4}C_{5}L_{1}R_{1}R_{4}s^{4}+2R_{1}g_{m}+s^{3}\left(2C_{1}C_{4}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{1}R_{4}+2C_{1}C_{5}L_{1}R_{1}+C_{1}C_{5}L_{1}R_{4}+2C_{4}C_{5}L_{1}R_{4}\right)+s^{2}\left(2C_{1}L_{1}R_{1}g_{m}+2C_{1}L_{1}+2C_{4}C_{5}R_{1}R_{4}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}\right)+s\left(2C_{4}R_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L_{1}R_{4}g_{m}+2C_{5}L
 10.865 INVALID-ORDER-865 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \frac{R_5}{C_5R_5s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -C_{1}C_{5}L_{1}R_{1}R_{4}R_{5}s^{3}+R_{1}R_{4}R_{5}g_{m}-R_{1}R_{4}+s^{2}\left(C_{1}L_{1}R_{1}R_{4}R_{5}g_{m}-C_{1}L_{1}R_{1}R_{4}-C_{5}L_{1}R_{4}R_{5}g_{m}\right)
 H(s) = \frac{-C_1C_5L_1R_1R_4R_5s^2 + R_1R_4R_5g_m - R_1R_4 + s \cdot (C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4 - C_5L_1R_4R_5)}{2C_1C_4C_5L_1R_1R_4R_5s^4 + 2R_1R_4g_m + 2R_1R_5g_m + 2R_1R_4g_m + 2R_1R_5g_m + 2C_1C_4L_1R_1R_4R_5g_m + 2C_1C_5L_1R_1R_5 + C_1C_5L_1R_4R_5 + 2C_4C_5L_1R_4R_5) + s^2\left(2C_1L_1R_1R_4g_m + 2C_1L_1R_1R_4g_m + 2C_1L_1R_1R_4g_
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10.866 INVALID-ORDER-866
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $R_1R_4g_m + s^3\left(C_1C_5L_1R_1R_4R_5g_m - C_1C_5L_1R_1R_4\right) + s^2\left(C_1L_1R_1R_4g_m + C_5L_1R_4R_5g_m - C_5L_1R_4R_5g_m\right) + s^2\left(C_1L_1R_4R_5g_m - C_5L_1R_5R_5g_m\right) + s^2\left(C_1L_1R_4R_5g_m - C_5L_1R_5R_5g_m\right) + s^2\left(C_1L_1R_4R_5g_m - C_5L_1R_5R_5g_m\right) + s^2\left(C_1L_1R_5R_5g_m - C_5L_5R_5g_m\right) + s^2\left(C_1L_1R_5R_5g_m - C_5L_5R_5g_m\right) + s^2\left(C_1L_1R_5R_5g_m - C_5L_5R_5g_m\right) + s^2\left(C_1L_1R_5R_$ $H(s) = \frac{1}{2R_1g_m + s^4 \left(2C_1C_4C_5L_1R_1R_4R_5g_m + 2C_1C_5L_1R_1R_4 + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_4g_m + 2C$

10.867 INVALID-ORDER-867
$$Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, L_5 s + \frac{1}{C_5 s}, \infty\right)$$

 $C_1C_5L_1L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(-C_1C_5L_1R_1R_4 + C_5L_1L_5R_4g_m\right) + s^2\left(C_1L_1R_1R_4g_m - C_5R_1R_4g_m\right) + s^2\left(C_1R_1R_4g_m - C_5R_1R_4g_m\right) + s^2\left(C_1R_1R_1$ $H(s) = \frac{C_1C_5L_1L_5R_1R_4g_m s + R_1R_4g_m + s^* (-C_1C_5L_1R_1R_4 + C_5L_1L_5R_4g_m) + s}{2R_1g_m + s^5 (2C_1C_4C_5L_1L_5R_4g_m + 2C_1C_4L_5L_1L_5R_4g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1R_4$

10.868 INVALID-ORDER-868
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

 $-C_1C_5L_1L_5R_1R_4s^4 - R_1R_4 + s^3\left(C_1L_1L_5R_1R_4g_m - C_5L_1L_5R_4\right) + s^2\left(-C_1L_1R_1R_4 - C_5L_5R_4\right)$ $H(s) = \frac{1}{2C_{1}C_{3}C_{1}C_{3}C_{1}C_{3}C_{1}C_{3}C_{1}C_{4}C_{5}C_{1}C_{1}C_{5}C$ **10.869** INVALID-ORDER-869 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $C_1C_5L_1L_5R_1R_4g_ms^4 + R_1R_4g_m$

 $H(s) = \frac{C_1C_5L_1L_5R_1R_4g_ms + R_1R_4g_m + C_1C_5L_1L_5R_1R_4g_m + R_1R_4g_m + R_1R_4$

10.870 INVALID-ORDER-870 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

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

10.871 INVALID-ORDER-871 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

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

10.872 INVALID-ORDER-872 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

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

10.873 INVALID-ORDER-873 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, R_5, \infty\right)$

10.874 INVALID-ORDER-874 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1R_1R_4s^4 + R_1g_m + s^3\left(C_1C_4L_1R_1R_4g_m - C_1C_5L_1R_1 - C_4C_5L_1R_4\right) + s^2\left(C_1L_1R_1g_m - C_4C_5R_1R_4 + C_4L_1R_4g_m - C_5L_1\right) + s\left(C_4R_1R_4g_m - C_5R_1 + L_1g_m\right)}{s^4\left(2C_1C_4C_5L_1R_1R_4g_m + 2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1R_4g_m + 2C_4C_5L_1\right) + s^2\left(2C_4C_5R_1R_4g_m + 2C_4C_5R_1 + C_4C_5R_4 + 2C_4L_1g_m + 2C_5L_1g_m\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1R_4g_m + 2C_4$

10.875 INVALID-ORDER-875 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1R_1R_4R_5s^4 + R_1R_5g_m - R_1 + s^3\left(C_1C_4L_1R_1R_4R_5g_m - C_1C_4L_1R_1R_4 - C_1C_5L_1R_1R_5 - C_4C_5L_1R_4R_5\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 - C_4C_5R_1R_5\right)}{2R_1g_m + s^4\left(2C_1C_4C_5L_1R_1R_4Sg_m + 2C_1C_4L_1R_1R_5g_m + 2C_1C_4L_1R_1 + C_1C_4L_1R_1 + C_1C_4L_1R_1 + C_4C_5L_1R_1R_5g_m + C_4C_5L_1R_4R_5\right) + s^2\left(2C_1L_1R_1R_5g_m - C_1L_1R_1R_5g_m - C_1L_1R_1R_5g_m + 2C_1C_4L_1R_1R_5g_m + 2C_1C_4L_1R_1R_$

10.876 INVALID-ORDER-876 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{R_1g_m + s^4 \left(C_1C_4C_5L_1R_1R_4R_5g_m - C_1C_4C_5L_1R_1R_4g_m + C_1C_5L_1R_1R_4g_m + C_1C_5L_1R_1R_5g_m - C_4C_5L_1R_4 + s^2 \left(C_1L_1R_1g_m + C_4C_5R_1R_4R_5g_m - C_4C_5R_1R_4 + C_4L_1R_4g_m + C_5L_1R_5g_m - C_4C_5R_1R_4 + C_4L_1R_4g_m + C_5L_1R_5g_m - C_4C_5L_1R_1R_4g_m + C_4C_5L_1R_4g_m + C_4C_5L_1R_4g$

10.877 INVALID-ORDER-877 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, L_5 s + \frac{1}{C_5 s}, \infty\right)$

 $H(s) = \frac{C_1C_4C_5L_1L_5R_1R_4g_ms^5 + R_1g_m + s^4\left(-C_1C_4C_5L_1R_1R_4 + C_1C_5L_1L_5R_1g_m + C_4C_5L_1L_5R_4g_m\right) + s^3\left(C_1C_4L_1R_1R_4g_m - C_1C_5L_1R_1 - C_4C_5L_1R_4 + C_4C_5L_5R_1R_4g_m + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m - C_4C_5R_1R_4 + C_4L_1R_4g_m - C_4C_5L_1R_4 + C_4C_5L_1R_$

10.879 INVALID-ORDER-879
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_5R_1R_4g_ms^5 + R_1g_m + s^4\left(C_1C_4C_5L_1R_1R_4R_5g_m - C_1C_4C_5L_1R_1R_4R_5g_m - C_1C_4C_5L_1R_1R_4g_m + C_1C_5L_1L_5R_4g_m\right) + s^3\left(C_1C_4L_1R_1R_4g_m + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_4C_5L_1R_4R_5g_m - C_4C_5L_1R_4 + C_4C_5L_1R_4g_m + C_5L_1R_5g_m + C_4C_5L_1R_4g_m + C_4C_5L_1R_4g$

10.880 INVALID-ORDER-880
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_5R_1R_4R_5s^5 - R_1R_5 + s^4\left(C_1C_4L_1L_5R_1R_4R_5g_m - C_1C_4L_1L_5R_1R_4 - C_1C_5R_1R_4R_5g_m - C_1C_4L_1L_5R_1R_4R_5g_m - C_1C_4L_1L_5R_1R_4R_5g_m - C_1C_4L_1L_5R_1R_4g_m + 2C_1C_4L_1L_5R_1R_5g_m + 2C_1C_4L_1L_5R_1R_4g_m + 2C_1C_4L_1L_5R_1R_5g_m + 2C_1C_4L_1L_5R_1R_$

10.881 INVALID-ORDER-881
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^5 \left(C_1 C_4 C_5 L_1 L_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_1 L_5 R_1 R_4 g_m + C_1 C_5 L_1 L_5 R_1 R_5 g_m - C_1 C_5 L_1 L_5 R_1 R_5 g_m - C_4 C_5 L_1 L_5 R_4 R_5 g_m - C_4 C_5 L_1 L_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5 R_5$

10.882 INVALID-ORDER-882
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$$

10.883 INVALID-ORDER-883
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, R_5, \infty\right)$$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_1 C_4 L_1 L_4 R_1 R_5 g_m - C_1 C_4 L_1 L_4 R_1\right) + s^3 \left(C_4 L_1 L_4 R_5 g_m - C_4 L_1 L_4\right) + s^2 \left(C_1 L_1 R_1 R_5 g_m - C_1 L_1 R_1 + C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1\right) + s \left(L_1 R_5 g_m - L_1\right)}{2 R_1 g_m + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 g_m + C_1 C_4 L_1 L_4\right) + s^3 \left(2 C_1 C_4 L_1 R_1 R_5 g_m + 2 C_4 L_1 R_1 g_m + C_1 L_1 + 2 C_4 L_1 R_5 g_m + 2 C_4 L_1 R_5 g_m + 2 C_4 L_1 R_5 g_m + 2 C_4 R_1 R_5 g_$

10.884 INVALID-ORDER-884
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1s^5 + R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m - C_4C_5L_1L_4\right) + s^3\left(-C_1C_5L_1R_1 - C_4C_5L_4R_1 + C_4L_1L_4g_m\right) + s^2\left(C_1L_1R_1g_m + C_4L_4R_1g_m - C_5L_1\right) + s\left(-C_5R_1 + L_1g_m\right)}{s^5\left(2C_1C_4C_5L_1L_4\right) + s^4\left(2C_1C_4C_5L_1L_4\right) + s^4\left(2C_1C_4C_5L_1L_4g_m\right) + s^3\left(2C_1C_4L_1R_1g_m + C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_4C_5L_4R_1g_m + C_4C_5L_4\right) + s^2\left(2C_4C_5R_1 + 2C_4L_1g_m\right) + s\left(2C_4R_1g_m + 2C_4R_1g_m + 2C_4R_1g_m + C_4C_5L_4\right) + s^2\left(2C_4C_5R_1 + 2C_4C_5L_1R_1g_m + C_4C_5L_4\right) + s^2\left(2C_4C_5R_1 + 2C_4C_5L_4\right) + s^2\left(2C_4C$

10.885 INVALID-ORDER-885
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1 - C_4C_5L_1L_4R_5\right) + s^3\left(-C_1C_5L_1R_1R_5 - C_4C_5L_4R_1R_5 + C_4L_1L_4R_5g_m - C_4L_1R_5g_m - C_4L_1R_5g_m + C_4R_5R_5g_m + C_$

10.886 INVALID-ORDER-886
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_4 C_5 L_1 L_4 R_1 g_m + C_4 C_5 L_1 L_4 R_1 g_m + C_4 C_5 L_1 L_4 R_1 g_m + C_4 C_5 L_1 L_4 R_5 g_m - C_1 C_5 L_1 R_1 + C_4 C_5 L_4 R_1 R_5 g_m - C_4 C_5 L_4 R_1 + C_4 L_1 L_4 g_m \right) + s^2 \left(C_1 L_1 R_1 g_m + C_4 L_4 R_1 g_m + C_4 C_5 L_1 R_1 R_5 g_m - C_4 C_5 L_$

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10.887 INVALID-ORDER-887 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_ms^6 + R_1g_m + s^5\left(-C_1C_4C_5L_1L_4R_1 + C_4C_5L_1L_4L_5g_m\right) + s^4\left(C_1C_4L_1L_4R_1g_m + C_1C_5L_1L_5R_1g_m - C_4C_5L_1L_4 + C_4C_5L_4L_5R_1g_m\right) + s^3\left(-C_1C_5L_1R_1 - C_4C_5L_4R_1 + C_4L_1L_4g_m + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m + C_1C_5L_1L_4R_1g_m + C_1C_5L_1L_4R_1g_m + C_1C_5L_1R_1 - C_4C_5L_4R_1 + C_4L_5L_4R_1g_m + C_5L_1L_5g_m\right) + s^2\left(C_1L_1R_1g_m + C_1C_5L_1L_4R_1g_m + C_1C_5L_1R_1g_m + C_
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 $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_1g_m - C_4C_5L_1L_4L_5R_1g_m - C_4C_5L_1L_4L_5) + s^4\left(-C_1C_4L_1L_4R_1 - C_1C_5L_1L_5R_1 - C_4C_5L_4L_5R_1 + C_4L_1L_4L_5g_m\right) + s^3\left(C_1L_1L_5R_1g_m - C_4C_5L_4L_5R_1g_m + C_4C_5L_4L_5R$

10.889 INVALID-ORDER-889 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_4C_5L_1L_4R_1g_m - C_1C_4C_5L_1L_4R_1g_m + C_1C_5L_1L_4R_1g_m + C_1C_5L_1L_4R_1g_m + C_4C_5L_1L_4R_1g_m + C_4C_5L_4L_4R_1g_m + C_4C_5L_4L_4R_1g_m + C_4C_5L_4L_4R_1g_m + C_4C_5L_4L_4R_1g_m + C_4C_5L_4L_4R_1g_m + C_4C_5L_4L_4R_1g_m + C_4C_5L_4R_1g_m + C_$

10.890 INVALID-ORDER-890 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_1R_5s^6 - R_1R_5 + s^5\left(C_1C_4L_1L_4L_5R_1R_5g_m - C_1C_4L_1L_4L_5R_1 - C_4C_5L_1L_4C_5R_1R_5g_m - C_1C_4L_1L_4L_5R_1 - C_4C_5L_1L_4C_5R_1R_5g_m - C_4C_5L_1L_4L_5R_1R_5g_m + C_4C_5L_4L_5R_1R_5g_m + C_4C_5L_5L_5R_1R_5g_m + C_4C_5L_5R_1R_5g_m + C_4C_5L_5R_1R_5g_m + C_4C_5L_5R_1R_5g_m + C_4C_5L_5R_1R_5g_m + C_4C_5L_5R_1R_5g_m + C_4C_5L$

10.891 INVALID-ORDER-891 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_1 g_m - C_1 C_4 C_5 L_1 L_4 L_5 R_1 g_m + C_4 C_5 L_1 L_4 L_5 R_3 g_m - C_4 C_5 L_1 L_4 L_5 \right) + s^4 \left(C_1 C_4 L_1 L_4 R_1 R_5 g_m - C_1 C_4 L_4 L_4 R_1$

10.892 INVALID-ORDER-892 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_1 R_5 g_m - C_1 C_4 C_5 L_1 L_4 L_5 R_1\right) + s^5 \left(-C_1 C_4 C_5 L_1 L_4 R_1 R_5 + C_4 C_5 L_1 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 L_5 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m + C_1 C_4 C_5 L_1 R_1 R_5$

10.893 INVALID-ORDER-893 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, R_5, \infty\right)$

 $H(s) = \frac{s^3 \left(C_1 L_1 L_4 R_1 R_5 g_m - C_1 L_1 L_4 R_1 \right) + s^2 \left(L_1 L_4 R_5 g_m - L_1 L_4 \right) + s \left(L_4 R_1 R_5 g_m - L_4 R_1 \right)}{2 R_1 R_5 g_m + 2 R_1 + 2 R_5 + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_1 L_4 L_4 R_1 R_5 g_m + 2 C_4 L_4 R_1 R_5 g_m$

10.894 INVALID-ORDER-894 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{-C_1C_5L_1L_4R_1s^4 + L_4R_1g_ms + s^3\left(C_1L_1L_4R_1g_m - C_5L_1L_4\right) + s^2\left(-C_5L_4R_1 + L_1L_4g_m\right)}{2C_1C_4C_5L_1L_4R_1s^5 + 2R_1g_m + s^4\left(2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1L_4 + 2C_1C_5L_1L_4R_1g_m + C_1C_5L_1L_4\right) + s^3\left(2C_1C_5L_1R_1 + 2C_4L_5L_4R_1g_m + 2C_5L_1L_4g_m\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + 2C_4L_4R_1g_m + 2C_5L_1L_4R_1g_m + 2C_5L_1L_4R_1g_m\right)}$

10.895 INVALID-ORDER-895 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{-C_1C_5L_1L_4R_1R_5s^4 + s^3\left(C_1L_1L_4R_1R_5g_m - C_1L_1L_4R_1 - C_5L_1L_4R_1\right) + s^2\left(-C_5L_4R_1R_5 - C_5L_4R_1R_5g_m + C_4L_5L_4R_1R_5g_m + C_4L_5L_5L_5R_5g_m + C_$

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10.896 INVALID-ORDER-896 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, R_5 + \frac{1}{C_5s}, \infty\right)
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10.897 INVALID-ORDER-897 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_5L_1L_4L_5R_1g_ms^5 + L_4R_1g_ms + s^4\left(-C_1C_5L_1L_4R_1 + C_5L_1L_4L_5g_m\right) + s^3\left(C_1L_1L_4R_1g_m - C_5L_1L_4R_1g_m - C_5L_1L_4R_1g_m + s^6\left(2C_1C_4C_5L_1L_4L_5R_1g_m + 2C_1C_5L_1L_4R_1g_m + 2C_1C_5L_1L$

10.898 INVALID-ORDER-898 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$

10.899 INVALID-ORDER-899 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_5L_1L_4L_5R_1g_ms^3 + L_4R_1g_ms + C_1C_5L_1L_4L_5R_1g_m + C_1C_5L_1L_4L_5R_1g_m + C_1C_5L_1L_4L_5R_1g_m + C_1C_5L_1L_4R_1g_m + C_1C_5L_1L_4$

10.900 INVALID-ORDER-900 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$

 $H(s) = \frac{-c}{2C_1C_4C_5L_1L_4L_5R_1R_5s^6 + 2R_1R_5 + s^5\left(2C_1C_4L_1L_4L_5R_1R_5g_m + 2C_1C_4L_1L_4L_5R_1 + 2C_1C_4L_1L_4L_5R_5 + 2C_4C_5L_1L_4L_5R_5 + 2C_4C_5L_4L_5R_5 + 2C_4C_5L_5L_5R_5 + 2C_5L_5L_5R_5 + 2C_5L_5L_5$

10.901 INVALID-ORDER-901 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

 $H(s) = \frac{1}{2R_1R_5g_m + 2R_1 + 2R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_5g_m + 2C_1C_4C_5L_1L_4L_5R_1 + 2C_1C_4C_5L_1L_4L_5R_1g_m + 2C_1C_4L_1L_4L_5R_1g_m + 2C_1C_4L_1L_4L_5$

10.902 INVALID-ORDER-902 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$

 $H(s) = \frac{1}{2R_1R_5g_m + 2R_1 + 2R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_5g_m + 2C_1C_4C_5L_1L_4L_5R_1 + 2C_1C_4C_5L_1L_4L_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_4L_5R_1g_m + C_1C_5L_1L_4L_5 + 2C_4C_5L_1L_4L_5R_5g_m + 2C_4C_5L_1L_4L_5\right) + s^4\left(2C_1C_4L_1L_4R_1R_5g_m + 2C_1C_4L_4L_5R_1g_m + 2C_4C_5L_1L_4L_5R_5g_m + 2C_4C_5L_1L_4L_5\right) + s^4\left(2C_1C_4L_4L_4R_1R_5g_m + 2C_4C_5L_4L_4R_1R_5 + 2C_4C_5L_4L_4R_1R_5\right) + s^4\left(2C_4C_5L_4L_4R_1R_5g_m + 2C_4C_5L_4L_4R_1R_5g_m + 2C_4C_5L_4R_4R_1R_5g_m + 2C_4C_5L_4R_4R_5g_m + 2C_4C_5L_4R_5R_5g_m + 2C_4C_5L_4R_5R_5g$

10.903 INVALID-ORDER-903 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, R_5, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_1 C_4 L_1 L_4 R_1 R_5 g_m - C_1 C_4 L_1 L_4 R_1 R_5 g_m - C_1 C_4 L_1 R_4 R_5 g_m - C_1 C_4 L_1 R_4 R_5 g_m - C_1 L_1 R_1 R_4 R_5 g_m - C_1 L_1 R_1 R_5 g_m - C_1 L_1 R_1 + C_4 L_1 R_4 R_5 g_m - C_4 L_1 R_4 + C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_1 + S_5 g_m - C_4 L_4 R_1 R_5 g_m - C_4 L_4 R_4 R_5$

10.904 INVALID-ORDER-904 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1s^5 + R_1g_m + s^4\left(-C_1C_4C_5L_1R_1R_4 + C_1C_4L_1L_4R_1g_m - C_4C_5L_1R_1 - C_4C_5L_1R_1 - C_4C_5L_1R_4 - C_4C_5L_4R_1 + C_4L_1L_4g_m\right) + s^2\left(C_1L_1R_1g_m - C_4C_5R_1R_4 + C_4L_1R_4g_m + C_4L_4R_4g_m + C_4L_4R_4g_m + C_4L_4R_4g_m + C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4R_4g_m + C_4C_5L_4R_4g_m + C_4C_5L_4R_$

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10.905 INVALID-ORDER-905 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s + 1}, \infty\right)
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 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(-C_1C_4C_5L_1R_1R_4R_5 + C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1 - C_4C_5L_1L_4R_5\right) + s^3\left(C_1C_4L_1R_1R_4R_5g_m - C_1C_4L_1L_4R_1R_5g_m + C_1C_4L_1L_4R_1R_5g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1R_1R_4g_m + C_1C_4L_1R_4g_m + C_$

10.906 INVALID-ORDER-906
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_4 C_5 L_1 R_4 R_5 g_m - C_4 C_5 L_1$

10.907 INVALID-ORDER-907
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_ms^6 + R_1g_m + s^5\left(-C_1C_4C_5L_1L_4R_1 + C_1C_4C_5L_1L_5R_1g_m + C_4C_5L_1L_4R_1g_m + C_1C_4C_5L_1L_4R_1g_m + C_4C_5L_1L_4R_1g_m + C_1C_4L_5L_1L_4R_1g_m + C_1C_4L_5L_1L_4R_1g_m + C_4C_5L_1L_4R_1g_m + C_4C$

10.908 INVALID-ORDER-908
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_1s^6 - R_1 + s^5\left(-C_1C_4C_5L_1L_5R_1R_4 + C_1C_4L_1L_4R_1 + C_1C_4L_1L_4R_1 + C_1C_4L_1L_4R_1 + C_1C_4L_1L_5R_1R_4g_m - C_1C_5L_1L_5R_1R_4g_m - C_1C_5L_1L_5R_1R_4g_m - C_1C_5L_1L_5R_1R_4g_m - C_1C_5L_1L_5R_1R_4g_m + C_1C_4C_5L_1L_4L_5g_m\right) + s^4\left(2C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_5R_1g_m + C$

10.909 INVALID-ORDER-909
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_4C_5L_1L_4R_1R_5g_m - C_1C_4C_5L_1L_4R_1+ C_1C_4C_5L_1L_4R_1g_m + C_4C_5L_1L_4R_1g_m + C_4C_5L_1$

10.910 INVALID-ORDER-910
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_1R_5s^6 - R_1R_5 + s^5\left(-C_1C_4C_5L_1L_5R_1R_5s^6 - R_1R_5 + s^5\left(-C_1C_4C_5L_1L_5R_1R_5s^6 - R_1R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_5s^6 - R_1R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1S_5m + C_1C_4C_5L_1L_5R_1R_5 + C_1C_4C_5L_1L_5R_1R_5 + C_1C_4C_5L_1L_4L_5R_1S_m + C_1C_4L_5R_1S_m + C_1C_4L_5R_1S_m + C_1C_4L_5R_1S_m + C_1C_4C_5L_5R_1S_m + C_$

10.911 INVALID-ORDER-911
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$$

10.912 INVALID-ORDER-912
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2 + 1)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$$

10.913 INVALID-ORDER-913
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, R_5, \infty\right)$$

 $H(s) = \frac{s^3 \left(C_1 L_1 L_4 R_1 R_4 R_5 g_m - C_1 L_1 L_4 R_1 R_4 \right) + s^2 \left(L_1 L_4 R_4 R_5 g_m - L_1 L_4 R_4 \right) + s \left(L_4 R_1 R_4 R_5 g_m - L_1 L_4 R_4 R_5 g_m - L_1 L_4 R_4 R_5 g_m - L_1 L_4 R_4 R_5 g_m + 2 C_1 L_1 L_4 R_5 g_m + 2 C_1$

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10.914 INVALID-ORDER-914 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{1}{C_5s}, \infty\right)
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 $H(s) = \frac{-C_1C_5L_1L_4R_1R_4s^4 + L_4R_1R_4g_ms + s^3\left(C_1L_1L_4R_1R_4g_m - C_5L_1L_4R_4\right) + s^2\left(-C_5L_4R_4R_4\right)}{2C_1C_4C_5L_1L_4R_1R_4s^5 + 2R_1R_4g_m + 2R_4 + s^4\left(2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_4 + 2C_4C_5L_1L_4R_4\right) + s^3\left(2C_1C_5L_1L_4R_1R_4s^5 + 2R_1R_4g_m + 2C_4L_5L_4R_4\right) + s^3\left(2C_1C_5L_1L_4R_4\right) + s^3\left(2C_$

10.915 INVALID-ORDER-915
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_5L_4s + L_4s + R_4}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$$

 $\overline{2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}R_{5}s^{5} + 2R_{1}R_{4}R_{5}g_{m} + 2R_{1}R_{4} + 2R_{4}R_{5} + s^{4}\left(2C_{1}C_{4}L_{1}L_{4}R_{1}R_{4}R_{5}g_{m} + 2C_{1}C_{4}L_{1}L_{4}R_{1}R_{4}R_{5} + 2C_{1}C_{5}L_{1}L_{4}R_{1}R_{5} + C_{1}C_{5}L_{1}L_{4}R_{1}R_{5} + 2C_{1}C_{5}L_{1}L_{4}R_{1}R_{5} + 2C_{1}C_{5}L_{1}$

10.916 INVALID-ORDER-916
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, R_5 + \frac{1}{C_5s}, \infty\right)$$

10.917 INVALID-ORDER-917
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, L_5s + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{1}{2R_1R_4g_m + 2R_4 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4C_5L_1L_4L_5R_4\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4 + 2C_1C_5L_1L_4L_5R_1g_m + 2C_1C_5L_1L_4L_5R_4g_m\right) + s^4\left(2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1R_4g_m\right) + s^4\left(2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1$

10.918 INVALID-ORDER-918
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

 $H(s) = \frac{1}{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}s^{6} + 2R_{1}R_{4} + s^{5}\left(2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1} + C_{1}C_{5}L_{1}L_{4}L_{5}R_{4} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1} + C_{1}C_{5}L_{1}L_{4}L_{5}R_{4} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{4} + 2C_{1}C_{5}L_{5}L_{4}L_{5}R_{4} + 2C_{1}$

10.919 INVALID-ORDER-919
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

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

10.920 INVALID-ORDER-920
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

10.921 INVALID-ORDER-921
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$$

 $\overline{2R_{1}R_{4}R_{5}g_{m}+2R_{1}R_{4}+2R_{4}R_{5}+s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}g_{m}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}g_{m}+$

10.922 INVALID-ORDER-922
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$$

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10.923 INVALID-ORDER-923 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, R_5, \infty\right)
H(s) = \frac{R_1R_4R_5g_m - R_1R_4 + s^4\left(C_1C_4L_1L_4R_1R_4g_m - C_1C_4L_1L_4R_1R_5g_m - C_1L_1L_4R_1 + C_4L_1L_4R_4g_m - C_4L_1L_4R_4\right) + s^2\left(C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4 + C_4L_1L_4R_1 + C_4L_1L_4R_4 + C_4L_4R_4 + C_4L_4R
10.924 INVALID-ORDER-924 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{1}{C_5s}, \infty\right)
                                               -C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}s^{5} + R_{1}R_{4}g_{m} + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{1}R_{4}g_{m} - C_{1}C_{5}L_{1}L_{4}R_{1} - C_{4}C_{5}L_{1}L_{4}R_{1} + C_{1}L_{1}L_{4}R_{1}g_{m} - C_{4}C_{5}L_{4}R_{1}R_{4} + C_{4}L_{1}L_{4}R_{2}g_{m} - C_{5}C_{5}L_{1}L_{4}R_{1}R_{2}g_{m} + s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{5}L_{1}L_{4}R_{1}g_{m} + 2C_{1}C_{5}L_{1}L_{4}R_{1}g_{m} + 2C_{1}C_{5}L_{1}L_{4}R_{2}g_{m} + 2C_{1}C_{5}L_{1}L_{4}R_{2}g_{m} + 2C_{1}C_{5}L_{1}R_{1}R_{4}g_{m} + 2C_{1}C_{5}L_{1}R_{1}R_{2}g_{m} + 2C_{1}C_
10.925 INVALID-ORDER-925 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{R_5}{C_5R_5s + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \frac{C_1C_4C_5L_1L_4R_1R_5g_m + 2R_1R_5g_m + 2R_1R_5g_m + 2R_1R_5g_m + 2R_1R_5g_m + 2R_1R_4R_5g_m + 2R_1R_4R_5g_m + 2R_1R_4R_5g_m + 2R_1R_4R_5g_m + 2R_1R_4R_5g_m + 2R_1R_4R_4R_5g_m + 2R_1R_4R_5g_m + 2R_1R_4R
10.926 INVALID-ORDER-926 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, R_5 + \frac{1}{C_5s}, \infty\right)
                                              \frac{R_{1}R_{4}g_{m}+s^{5}\left(C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}g_{m}-C_{1}C_{5}L_{1}L_{4}R_{1}R_{4}g_{m}+C_{1}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{4}R_{1}+C_{4}C_{5}L_{1}L_{4}R_{1}+C_{4}C_{5}L_{1}L_{4}R_{2}+S^{3}\left(C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{4}R_{1}+C_{4}C_{5}L_{1}L_{4}R_{1}+C_{4}C_{5}L_{1}L_{4}R_{2}+S^{3}\left(C_{1}C_{4}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{5}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{5}g_{m}+C_{4}C_{5}L_{1}L_{4}R_{5}+S^{3}\left(C_{1}C_{4}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{5}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{5}+S^{3}\left(C_{1}C_{4}L_{1}L_{4}R_{1}R_{2}+C_{1}C_{5}L_{1}L_{4}R_{1}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{1}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}L_{4}R_{2}+C_{4}C_{5}L_{4}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_{2}+C_{4}C_{5}L_{4}R_
10.927 INVALID-ORDER-927 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, L_5s + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_m + s^5 \left(-C_1C_4C_5L_1L_4R_1R_4 + C_1C_5L_1L_4L_5R_1g_m + C_4C_5L_1L_4L_5R_4g_m\right) + s^4 \left(C_1C_4L_1L_4R_1R_4g_m - C_1C_5L_1L_4R_1 + C_1C_5L_1L_5R_1R_4g_m\right)}{2R_1g_m + s^6 \left(2C_1C_4C_5L_1L_4L_5R_1g_m + 2C_1C_4L_5L_1L_4R_1\right) + s^5 \left(2C_1C_4C_5L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1\right) + s^5 \left(2C_1C_4C_5L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1\right) + s^6 \left(2C_1C_4C_5L_1L_4R_1g_m + 2C_1C_4L_5L_4R_1\right) + s^6 \left(2C_1C_4C_5L_1L_4R_1g_m + 2C_1C_5L_1L_4R_1\right) + s^6 \left(2C_1C_4C_5L_1L_4R_1g_m + 2C_1C_4C_5L_1L_4R_1\right) + s^6 \left(2C_1C_4C_5L_1L_4R_1g_m + 2C_1C_4C_5L_1L_4R_1\right) + s^6 \left(2C_1C_4C_5L_1L_4R_1g_m + 2C_1C_4C_5L_1L_4R_1\right) + s^6 \left(2C_1C_4C_5L_1L_4R_1g_m + 2C_1C_5L_1L_4R_1\right) + s^6 \left(2C_1C_4C_5L_1L_4R_1g_m + 2C_1C_5L_1L_4R_1g_m + 2C
10.928 INVALID-ORDER-928 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \frac{1}{2R_{1}R_{4}g_{m}+2R_{1}+R_{4}+s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{5}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{
10.929 INVALID-ORDER-929 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1R_4g_ms^6 + R_1R_4g_m + s^5\left(C_1C_4C_5L_1L_4R_1R_4 + C_1C_5L_1L_4L_5R_1g_m + C_4C_5L_1L_4L_5R_4g_m\right) + s^4\left(C_1C_4L_1L_4R_1R_4g_m + C_1C_5L_1L_4R_1R_4g_m + C_1C_5L_1L_4R_1R_4g_m + C_1C_5L_1L_4R_1R_4g_m + C_1C_5L_1L_4R_1R_4g_m + C_1C_5L_1L_4R_1R_4g_m + C_1C_4C_5L_1L_4R_1R_4g_m + C_1C_4C_5L_1L_4R_1g_m + C_1C_4C_5L_1L_4R_1R_4g_m + C_1C_4C_5L
10.930 INVALID-ORDER-930 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)
H(s) = \frac{1}{2R_1R_4R_5g_m + 2R_1R_5 + R_4R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4L_5R_1R_5 + C_1C_4C_5L_1L_4L_5R_4R_5\right) + s^5\left(2C_1C_4L_1L_4L_5R_1R_4g_m + 2C_1C_4L_1L_4L_5R_1 + C_1C_4L_1L_4L_5R_4 + 2C_1C_4L_1L_4L_5R_4 + 2C_1C_4L_4L_5R_4 + 2C_1C_4L_4L_5R_4 + 2C_1C_4L_5L_5R_4 + 2C_1C_4L_5L_5R_5 + 2C_1C_4L_5L_5R_5 + 2C_1C_4L_5L_5R_5 + 2C_1C_4L_5L_5R_5 + 2C_1C_4L_5L_5R_5 + 2C_1C_5L_5L_5R_5 + 2C_1
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10.932 INVALID-ORDER-932 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)$ $H(s) = \frac{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4C_5L_1L_4L_5R_1 + C_1C_4C_5L_1L_4L_5R_1 + C_1C_4C_5L_$

 $H(s) = \frac{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^6 \left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4C_5L_1L_4L_5R_1 + C_1C_4C_5L_1L_4L_5R_1 + C_1C$

10.931 INVALID-ORDER-931 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$

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10.933 INVALID-ORDER-933 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, R_5, \infty\right)
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 $H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^4 \left(C_1 C_4 L_1 L_4 R_1 R_4 R_5 g_m - C_1 C_4 L_1 L_4 R_1 R_4\right) + s^3 \left(C_4 L_1 L_4 R_4 R_5 g_m - C_4 L_1 L_4 R_4\right) + s^2 \left(C_4 L_1 L_4 R_1 R_4 R_5 g_m + 2 L_1 L_4 R_5 g_m + 2 L$

10.934 INVALID-ORDER-934
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_4s^5 + R_1R_4g_m + s^4\left(C_1C_4L_1L_4R_1R_4g_m - C_4C_5L_1L_4R_4\right) + s^3\left(-C_1C_5L_1R_1R_4 - C_4C_5L_1L_4R_4\right)}{2R_1g_m + s^5\left(2C_1C_4C_5L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1R_4g_m + 2C$

10.935 INVALID-ORDER-935
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{R_5}{C_5R_5s + 1}, \infty\right)$$

 $H(s) = \frac{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^5 \left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_1R_4R_5 + 2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1R_5g_m + 2C_1C_4L_1L_4R_1 + C_1C_4L_1L_4R_4 + 2C_1C_4L_1L_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_1R_4R_5 + 2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1R_5g_m + 2C_1C_4L_1L_4R_1 + C_1C_4L_1L_4R_4 + 2C_1C_4L_1L_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_1R_4R_5 + 2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1 + C_1C_4L_1L_4R_4 + 2C_1C_4L_1L_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_4R_4R_5 + 2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1 + C_1C_4L_1L_4R_4 + 2C_1C_4L_1L_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_4R_4R_5 + 2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1 + 2C_1C_4L_1L_4R_4 + 2C_1C_4L_1L_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_4R_4R_5 + 2C_1C_4L_1L_4R_1 + 2C_1C_4L_1L_4R_4 + 2C_1C_4L_1L_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_4R_5 + 2C_1C_4L_1L_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_4R_5\right) + s^4 \left(2C_1C_4C_5L_1R_5\right) + s^4 \left(2C_1C_4C_5L_1R_5$

10.936 INVALID-ORDER-936
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4(C_4L_4s^2 + 1)}{C_4L_4s^2 + C_4R_4s + 1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 R_4 g_m + s^5 \left(2 C_1 C_4 C_5 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_1 + C_1 C_4 C_5 L_1 L_4 R_4 + 2 C_1 C_4 C_5 L_1 L_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_4 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_4 R_5 g_m + 2$

10.937 INVALID-ORDER-937
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, L_5s + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_m + s^6\left(2C_1C_4C_5L_1L_4L_5R_1g_m + 2C_1C_4C_5L_1L_4R_1 + C_1C_4C_5L_1L_4R_1 + C_1C_4C_5L_1L_5R_1R_4g_m + 2C_1C_4C_5L_1L_5R_1R_4g_m + 2C_1C_4C_5L_1L_4R_1 + C_1C_4C_5L_1L_4R_1 + C_1C_4C$

10.938 INVALID-ORDER-938
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2 + 1)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{L_5s}{C_5L_5s^2 + 1}, \infty\right)$$

10.939 INVALID-ORDER-939
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4(C_4L_4s^2 + 1)}{C_4L_4s^2 + C_4R_4s + 1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$$

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

10.940 INVALID-ORDER-940
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4(C_4L_4s^2 + 1)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{L_5R_5s}{C_5L_5R_5s^2 + L_5s + R_5}, \infty\right)$$

 $H(s) = \frac{1}{2R_1R_4R_5g_m + 2R_1R_5 + R_4R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4L_5R_1R_5 + C_1C_4C_5L_1L_4L_5R_4R_5\right) + s^5\left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4L_1L_4L_5R_1R_5g_m + 2C_1C_4L_1L_4L_5R_1 + C_1C_4L_1L_4L_5R_1R_5 + C_1C_4C_5L_1L_4L_5R_4R_5\right) + s^5\left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4L_1L_4L_5R_1R_5g_m + 2C_1C_4L_5L_5R_1R_5g_m + 2C_1C_4L_5L_5R_1R_5g_$

10.941 INVALID-ORDER-941
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{C_5L_5R_5s^2 + L_5s + R_5}{C_5L_5s^2 + 1}, \infty\right)$$

 $H(s) = \frac{1}{2R_{1}R_{4}g_{m} + 2R_{1}R_{5}g_{m} + 2R_{1} + R_{4} + 2R_{5} + s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1} + C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1} + C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1} + C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1} + C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1} + C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m} + 2C_{1}C_{4}C_{$

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10.942 INVALID-ORDER-942 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \frac{R_5\left(C_5L_5s^2 + 1\right)}{C_5L_5s^2 + C_5R_5s + 1}, \infty\right)
H(s) = \frac{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4C_5L_1L_4L_5R_1 + C_1C_4C_5L_1L_4L_5R_4 + 2C_1C_4C_5L_1L_4L_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_5R_5 + C_1C_4C_5L_1L_4R_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_5R_5 + C_1C_4C_5L_1L_4R_5\right) + s^5\left(2C
10.943 INVALID-ORDER-943 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \frac{1}{C_5s}, \infty\right)
                                                                                                                                                                                                                                                                                                                                H(s) = \frac{-C_1C_5L_1R_1R_4s^3 + C_1L_1R_1R_4g_ms^2 - C_5R_1R_4s + R_1R_4g_m}{2R_1g_m + s^3\left(2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_4\right) + s^2\left(C_1C_5R_1R_4 + 2C_1L_1R_1g_m + 2C_1L_1\right) + s\left(2C_1R_1 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4\right) + 2c_1C_3R_4s^2 + 2c_1C_3R
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, \ \infty, \ R_4, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)
                                                  -C_{1}C_{5}L_{1}R_{1}R_{4}R_{5}s^{3}-C_{5}R_{1}R_{4}R_{5}s+R_{1}R_{4}R_{5}g_{m}-R_{1}R_{4}+s^{2}\left(C_{1}L_{1}R_{1}R_{4}R_{5}g_{m}-C_{1}L_{1}R_{1}R_{4}\right)\\-2R_{1}R_{4}g_{m}+2R_{1}R_{5}g_{m}+2R_{1}+R_{4}+2R_{5}+s^{3}\left(2C_{1}C_{5}L_{1}R_{1}R_{4}R_{5}g_{m}+2C_{1}C_{5}L_{1}R_{4}R_{5}\right)+s^{2}\left(C_{1}C_{5}R_{1}R_{4}R_{5}+2C_{1}L_{1}R_{1}R_{5}g_{m}+2C_{1}L_{1}R_{1}+C_{1}L_{1}R_{4}+2C_{1}L_{1}R_{5}\right)+s\left(C_{1}R_{1}R_{4}+2C_{1}R_{1}R_{5}+2C_{5}R_{1}R_{4}R_{5}g_{m}+2C_{5}R_{1}R_{5}+C_{5}R_{1}R_{5}\right)+s\left(C_{1}R_{1}R_{4}+2C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5}+C_{1}L_{1}R_{5
10.945 INVALID-ORDER-945 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, R_4, R_5 + \frac{1}{C_5s}, \infty\right)
                                                                                H(s) = \frac{C_1L_1R_1R_4g_ms^2 + R_1R_4g_m + s^3\left(C_1C_5L_1R_1R_4R_5g_m - C_1C_5L_1R_1R_4\right) + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2R_1g_m + s^3\left(2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1R_5g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_4 + 2C_1C_5L_1R_5\right) + s^2\left(C_1C_5R_1R_4 + 2C_1C_5R_1R_5 + 2C_1L_1R_1g_m + 2C_1L_1\right) + s\left(2C_1R_1 + 2C_5R_1R_4g_m + 2C_5R_1R_5g_m + 2C_5R_1 + C_5R_4 + 2C_5R_5\right) + 2C_5R_1R_4g_m + 2C_5R_1R_5g_m + 2C_5R_1
10.946 INVALID-ORDER-946 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, R_4, L_5s+\frac{1}{C_5s}, \infty\right)
                                                                   H(s) = \frac{C_1C_5L_1L_5R_1R_4g_ms^4 - C_1C_5L_1R_1R_4s^3 - C_5R_1R_4s + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_5L_5R_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_1C_5L_1L_5R_1g_m + 2C_1C_5L_1L_5\right) + s^3\left(2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_4 + 2C_1C_5L_5R_1\right) + s^2\left(C_1C_5R_1R_4 + 2C_1L_1R_1g_m + 2C_1L_1 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_1R_1 + 2C_5R_1R_4g_m + 2C_5R_1 + C_5R_4\right) + 2C_1C_5R_1R_4 + 2
10.947 INVALID-ORDER-947 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, R_4, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                                     \frac{-C_{1}C_{5}L_{1}L_{5}R_{1}R_{4}s^{4}+C_{1}L_{1}L_{5}R_{1}R_{4}g_{m}s^{3}+L_{5}R_{1}R_{4}g_{m}s-R_{1}R_{4}+s^{2}\left(-C_{1}L_{1}R_{1}R_{4}-C_{5}L_{5}R_{1}R_{4}\right)}{2R_{1}R_{4}g_{m}+2R_{1}+R_{4}+s^{4}\left(2C_{1}C_{5}L_{1}L_{5}R_{1}+C_{1}C_{5}L_{1}L_{5}R_{1}+s^{3}\left(C_{1}C_{5}L_{5}L_{1}L_{5}R_{1}+2C_{1}L_{1}L_{5}R_{1}g_{m}+2C_{1}L_{1}L_{5}\right)+s^{2}\left(2C_{1}L_{1}R_{1}R_{4}g_{m}+2C_{1}L_{5}R_{1}+2C_{5}L_{5}R_{1}R_{4}g_{m}+2C_{5}L_{5}R_{1}+C_{5}L_{5}R_{4}\right)+s\left(C_{1}R_{1}R_{4}+2C_{1}L_{1}R_{1}R_{4}g_{m}+2C_{1}L_{1}R_{1}+C_{1}L_{5}R_{1}+2C_{5}L_{5}R_{1}R_{4}g_{m}+2C_{5}L_{5}R_{1}+C_{5}L_{5}R_{4}\right)+s\left(C_{1}R_{1}R_{4}+2C_{1}L_{1}R_{1}R_{4}g_{m}+2C_{1}L_{1}R_{1}+C_{1}L_{5}R_{1}R_{4}g_{m}+2C_{1}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}L_{5}R_{1}+C_{5}
10.948 INVALID-ORDER-948 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, L_5s+R_5+\frac{1}{C_5s}, \infty\right)
H(s) = \frac{C_1C_5L_1L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(C_1C_5L_1R_1R_4R_5g_m - C_1C_5L_1R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_5L_5R_1R_4g_m\right) + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2R_1g_m + s^4\left(2C_1C_5L_1L_5R_1g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_4g_m + 2C_1C_5L_1R_4g_m
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$$H(s) = \frac{C_1C_5L_1L_5R_1R_4g_ms^4 + R_1R_4g_m + s^3\left(C_1C_5L_1R_1R_4g_m + C_5L_5R_1R_4g_m + c_5L_5R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_5L_5R_1R_4g_m + c_5$$

$$H(s) = \frac{C_1C_5L_1L_5R_1R_4g_m + s^3\left(C_1C_5L_1R_1R_4R_5g_m - C_1C_5L_1R_1R_4g_m + s^3\left(C_1L_1R_1R_4g_m + C_5L_5R_1R_4g_m\right) + s\left(C_5R_1R_4R_5g_m - C_5R_1R_4\right)}{2R_1g_m + s^4\left(2C_1C_5L_1L_5R_1g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_1 + C_1C_5L_1R_4 + 2C_1C_5L_1R_5 + 2C_1C_5L_1R_5 + 2C_1L_1R_1g_m + 2C_1L_1 + 2C_5L_5R_1g_m + 2C_5L_5\right) + s\left(2C_1R_1 + 2C_5R_1R_4g_m + 2C_5R_1R_4$$

10.949 INVALID-ORDER-949
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

$$H(s) = \frac{-C_1C_5L_1L_5R_1R_4R_5s^4 - R_1R_4R_5s^4 - R_1R_4R_5s^4 - R_1R_4R_5s^4 - C_1L_1L_5R_1R_4R_5 - C_5L_5R_1R_4R_5) + s\left(L_5R_1R_4R_5s^4 - R_1R_4R_5s^4 - R_1R_4R_5s^$$

10.950 INVALID-ORDER-950
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$$

$$H(s) = \frac{C_1L_1L_5R_1R_4g_ms^3 + L_5R_1R_4g_ms + R_1R_4R_5g_m - R_1R_4 + s^4\left(C_1C_5L_1L_5R_1R_4R_5g_m - C_1C_5L_1L_5R_1R_4\right) + s^2\left(C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4g_m + C_1L_1R_1R_4g_m$$

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H(s) = \frac{-C_1C_5L_1R_1R_4R_5s^3 - C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4 + s^4\left(C_1C_5L_1L_5R_1R_4R_5g_m - C_1C_5L_1L_5R_1R_4\right) + s^2\left(C_1C_5L_1R_4R_5g_m + 2R_1R_5g_m + 2R_1
10.952 INVALID-ORDER-952 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, R_5, \infty\right)
                                                                                                                                                                                                                                                                                             H(s) = \frac{R_1 R_5 g_m - R_1 + s^2 \left( C_1 L_1 R_1 R_5 g_m - C_1 L_1 R_1 \right)}{2 R_1 g_m + s^3 \left( 2 C_1 C_4 L_1 R_1 R_5 g_m + 2 C_1 C_4 L_1 R_1 + 2 C_1 C_4 L_1 R_5 \right) + s^2 \left( 2 C_1 C_4 R_1 R_5 + 2 C_1 L_1 R_1 g_m + C_1 L_1 \right) + s \left( C_1 R_1 + 2 C_4 R_1 R_5 g_m + 2 C_4 R_1 + 2 C_4 R_5 \right) + 1}
10.953 INVALID-ORDER-953 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \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}{2C_1C_4C_5L_1R_1s^4 + s^3\left(2C_1C_4L_1R_1q_m + 2C_1C_4L_1 + 2C_1C_5L_1R_1q_m + C_1C_5L_1\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1\right) + s\left(2C_4R_1q_m + 2C_4 + 2C_5R_1q_m + C_5R_1q_m + C_5R_1q_m\right)}
10.954 INVALID-ORDER-954 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
                                                \frac{-C_{1}C_{5}L_{1}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_{1}L_{1}R_{1}R_{5}g_{m}-C_{1}L_{1}R_{1}\right)}{2C_{1}C_{4}C_{5}L_{1}R_{1}R_{5}s^{4}+2R_{1}g_{m}+s^{3}\left(2C_{1}C_{4}L_{1}R_{1}R_{5}g_{m}+2C_{1}C_{4}L_{1}R_{5}+2C_{1}C_{5}L_{1}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}R_{5}\right)+s^{2}\left(2C_{1}C_{4}R_{1}R_{5}+2C_{1}L_{1}R_{1}g_{m}+C_{1}L_{1}+2C_{4}C_{5}R_{1}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}g_{m}+C_{5}R_{5}\right)+s\left(C_{1}R_{1}+2C_{4}R_{1}R_{5}g_{m}+2C_{4}R_{1}+2C_{4}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R_{5}+2C_{5}R_{1}R
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, \infty, \frac{1}{C_4s}, 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(2C_1C_4C_5L_1R_1R_5g_m + 2C_1C_4C_5L_1R_1 + 2C_1C_4C_5L_1R_5\right) + s^3\left(2C_1C_4C_5R_1R_5 + 2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1 + 2C_4C_5R_1 + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1 + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1R_5g_m + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_
10.956 INVALID-ORDER-956 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, 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(2C_1C_4C_5L_1L_5R_1g_m + 2C_1C_4C_5L_1R_1 + 2C_1C_4C_5L_1R_1 + 2C_1C_4L_1 + 2C_1C_5L_1R_1g_m + C_1C_5L_1 + 2C_4C_5L_5\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4R_1g_m + 2C_4R_1g_m\right) + s\left(2C_4R_1g_m + 2C_4R_1g_m + 2C_4R_1g_m\right) + s\left(2C_4R_1g_m + 2C_4R_1g_m + 2C_4R_1g_m
10.957 INVALID-ORDER-957 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \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)}{2C_1C_4C_5L_1L_5R_1s^5 + 2R_1g_m + s^4\left(2C_1C_4L_1L_5R_1g_m + 2C_1C_4L_1L_5 + 2C_1C_5L_1L_5R_1g_m + C_1C_5L_1L_5\right) + s^3\left(2C_1C_4L_1R_1 + 2C_4C_5L_5R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_5R_1g_m + 2C_4L_5 + 2C_5L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4L_5R_1g_m + C_5L_5\right) + s\left(C_1R_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + C_1L_1 + 2C_4R_1\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1R_1g_m + 2C_1L_1R_1\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1R_1g_m + 2C_1L_1R_1g_m + 2C_1L_1R_1g_m\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1R_1g_m + 2C_1L_1R_1g_m\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1R_1g_m + 2C_1L_1R_1g_m\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1R_1g_m + 2C
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, \ \infty, \ \frac{1}{C_4s}, \ L_5s+R_5+\frac{1}{C_5s}, \ \infty\right)
                                               \frac{C_{1}C_{5}L_{1}L_{5}R_{1}g_{m}s^{4}+R_{1}g_{m}+s^{3}\left(C_{1}C_{5}L_{1}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}R_{1}\right)+s^{2}\left(C_{1}L_{1}R_{1}g_{m}+C_{5}L_{5}R_{1}g_{m}\right)+s\left(C_{5}R_{1}R_{5}g_{m}-C_{5}R_{1}\right)}{s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}g_{m}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{5}+2C_{1}C_{4}L_{1}R_{1}g_{m}+2C_{1}C_{4}L_{1}+2C_{1}C_{5}L_{1}R_{1}g_{m}+C_{5}L_{5}L_{1}+2C_{4}C_{5}L_{5}L_{5}\right)+s^{2}\left(2C_{1}C_{4}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{4}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}R_{1}+2C_{1}C_{5}L_{1}+2C_{1}C_{5}L_{1}+2C_{1}C_{5}L_{1}+2C_{1}C_{5}L_{1}+2C_{1}C_{5}L_{1}+2C_{1}C_{5}L_{1}+2C_{1}C_{5}L_{1}+2C_{1}C_{5}L_{1}+2C_{1}C_{
10.959 INVALID-ORDER-959 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                             -C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}s^{4}-R_{1}R_{5}+s^{3}\left(C_{1}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}L_{1}L_{5}R_{1}\right)+s^{2}\left(-C_{1}L_{1}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}L_{5}L_{5}R_{1}R_{5}+cC_{5}L_{5}R_{1}R_{5}\right)+s\left(L_{5}R_{1}R_{5}g_{m}-L_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}\right)+s^{2}\left(2C_{1}C_{4}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{5}R_{5}+cC_{5}L_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L_{5}R_{5}+cC_{5}L
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10.951 INVALID-ORDER-951 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

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 10.960 \quad \text{INVALID-ORDER-960} \ Z(s) = \left( \frac{R_1(C_1L_3s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{1}{C_{ss}}, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty \right) 
 C_1L_1L_5R_1g_ms^3 + L_5R_1g_ms + R_1R_5g_m - R_1 + s^4(C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1) + s^2(C_1L_1R_1R_5g_m - C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1R_4g_m - C_1L_1R_1R_4g_m - C_
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 $H(s) = \frac{-C_1C_5L_1R_1R_4s^3 + C_1L_1R_1R_4g_ms^2 - C_5R_1R_4s + R_1R_4g_m}{2C_1C_4C_5L_1R_1R_4s^4 + 2R_1g_m + s^3\left(2C_1C_4L_1R_1R_4g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_4\right) + s^2\left(2C_1C_4R_1R_4 + C_1C_5R_1R_4 + 2C_1L_1R_1g_m + 2C_1L_1 + 2C_4C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_5R_1R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_4R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_4R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + 2C_5R_1R_4g_m + 2C_4R_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4\right) + s\left(2C_1R_1 + 2C_4R_4\right) + s\left(2C_1R_4 + 2$

10.964 INVALID-ORDER-964 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$

 $H(s) = \frac{-C_1C_5L_1R_1R_4R_5s^3 - C_5R_1R_4R_5s + R_1R_4R_5g_m - R_1R_4 + s^2\left(C_1L_1R_1R_4R_5g_m - C_1L_1R_1R_4\right)}{2C_1C_4C_5L_1R_1R_4R_5s^4 + 2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^3\left(2C_1C_4L_1R_1R_4R_5g_m + 2C_1C_5L_1R_1R_4R_5g_m + 2C_1C_5L_1R_1R_4R_5\right) + s^2\left(2C_1C_4R_1R_4R_5 + C_1C_5R_1R_4R_5 + C_1C_5R_1R_5 + C_1C_5R_1R_5 + C_1C_5R_1R_5 + C_1C_5R_1R_5 +$

10.965 INVALID-ORDER-965 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1L_1R_1R_4g_ms^2 + R_1R_4g_m + s^3\left(C_1C_5L_1R_1R_4R_5g_m - C_1C_5L_1R_1R_4\right) + s\left(C_5R_1R_4R_5g_m - C_1C_5L_1R_1R_4\right) + s\left(C_5R_1R_4R_5g_m - C_1C_5L_1R_1R_4g_m + s^4\left(2C_1C_4C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1R_4g_m + 2C_1C_5L_1R_1 + C_1C_5L_1R_1 + 2C_1C_5L_1R_1 + 2C_1C$

10.966 INVALID-ORDER-966 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_5L_1L_5R_1R_4g_ms^4 - C_1C_5L_1R_1R_4s^3 - C_5R_1R_4s + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + s^2\right)\right\right)\right)\right)\right)\right)}$

10.967 INVALID-ORDER-967 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{-C_1C_5L_1L_5R_1R_4s^4 + C_1L_1L_5R_1R_4g_ms^3 + L_5R_1R_4g_ms - R_1R_4 + s^2\left(-C_1L_1R_1R_4 - C_5L_5R_1R_4g_ms^3 + L_5R_1R_4g_ms^3 + L_5R_1R_4g_$

10.968 INVALID-ORDER-968 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_5L_1L_5R_1R_4g_ms}{2R_1g_m + s^5\left(2C_1C_4C_5L_1L_5R_1R_4g_m + 2C_1C_4C_5L_1L_5R_4g_m + 2C_1C_4C_5L_1R_1R_4g_m + 2C_1C_5L_1L_5R_1g_m + 2C_1C_5L_1L_5R_1g_m + 2C_1C_5L_1L_5R_1g_m + 2C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_4g_m + 2C_1C_4L$

10.969 INVALID-ORDER-969
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

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

10.970 INVALID-ORDER-970
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \ \infty\right)$$

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

10.971 INVALID-ORDER-971
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

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

10.972 INVALID-ORDER-972
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, R_5, \infty\right)$$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^3 \left(C_1 C_4 L_1 R_1 R_4 R_5 g_m - C_1 C_4 L_1 R_1 R_4\right) + s^2 \left(C_1 L_1 R_1 R_5 g_m - C_1 L_1 R_1\right) + s \left(C_4 R_1 R_4 R_5 g_m - C_4 R_1 R_4\right)}{2 R_1 g_m + s^3 \left(2 C_1 C_4 L_1 R_1 R_5 g_m + 2 C_1 C_4 L_1 R_1 + C_1 C_4 L_1 R_4 + 2 C_1 C_4 L_1 R_5\right) + s^2 \left(C_1 C_4 R_1 R_4 + 2 C_1 C_4 R_1 R_5 + 2 C_1 L_1 R_1 g_m + C_1 L_1\right) + s \left(C_1 R_1 R_4 R_5 g_m - C_4 R_1 R_4\right)}$

10.973 INVALID-ORDER-973
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1R_1R_4s^4 + R_1g_m + s^3\left(C_1C_4L_1R_1R_4g_m - C_1C_5L_1R_1\right) + s^2\left(C_1L_1R_1g_m - C_4C_5R_1R_4\right) + s\left(C_4R_1R_4g_m - C_5R_1\right)}{s^4\left(2C_1C_4C_5L_1R_1R_4g_m + 2C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_1g_m + 2C_1C_5L_1R_1g_m + C_1C_5L_1\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1R_4g_m + 2C_4C_5R_1R_4g_m + 2C_4C_5R_1 + C_4C_5R_4\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1R_4g_m +$

10.974 INVALID-ORDER-974
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

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

10.975 INVALID-ORDER-975
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1g_m + s^4 \left(C_1C_4C_5L_1R_1R_4Sg_m - C_1C_4C_5L_1R_1R_4g_m + C_1C_5L_1R_1R_4g_m + C_1C_5L_1R_1\right) + s^2 \left(C_1L_1R_1g_m + C_4C_5R_1R_4R_5g_m - C_4C_5R_1R_4\right) + s \left(C_4R_1R_4g_m + C_5R_1R_5g_m - C_4C_5R_1R_4\right) + s \left(C_4R_1R_4g_m + C$

10.976 INVALID-ORDER-976
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4s}, \ L_5s + \frac{1}{C_5s}, \ \infty\right)$$

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

10.977 INVALID-ORDER-977
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

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

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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, \infty, R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{C_1C_4C_5L_1L_5R_1R_4g_ms^5 + R_1g_m + s^4\left(C_1C_4C_5L_1R_1R_4R_5g_m - C_1C_4C_5L_1R_1R_4g_m + C_1C_5L_1R_1R_4g_m + C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_4C_5L_5R_1R_4g_m\right) + s^2\left(C_1L_4C_5L_1L_5R_1g_m + 2C_1C_4C_5L_1R_1R_5g_m + 2C_1C_4C_5L_1R_1R_5g_m + 2C_1C_4C_5L_1R_1R_5g_m + 2C_1C_4C_5L_1R_1 + C_4C_5L_1R_1R_5g_m + 2C_1C_4C_5L_1R_1R_5g_m + 2C_1C_4C_5L_1R_5g_m + 2C_1C_4C_5L_1R_5g_
10.979 INVALID-ORDER-979 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -C_1C_4C_5L_1L_5R_1R_4R_5s^5 - R_1R_5 + s^4(C_1C_4L_1L_5R_1R_4R_5s^5)
                                            \frac{-C_1C_4C_5L_1L_5R_1R_4R_5s - R_1R_5s + s \cdot (C_1C_4L_1L_5R_1R_4R_5s - R_1R_5s - R_1
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, \infty, R_4 + \frac{1}{C_4s}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R_{1}R_{5}g_{m}-R_{1}+s^{5}\left(C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}R_{5}g_{m}-C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}\right)+s^{4}\left(C_{1}C_{4}L_{1}L_{5}R_{1}R_{4}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}\right)+s^{4}\left(C_{1}C_{4}L_{1}L_{5}R_{1}R_{4}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}\right)+s^{4}\left(C_{1}C_{4}L_{1}L_{5}R_{1}R_{4}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}\right)+s^{4}\left(C_{1}C_{4}L_{1}L_{5}R_{1}R_{4}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}\right)+s^{4}\left(C_{1}C_{4}L_{1}L_{5}R_{1}R_{4}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}\right)+s^{4}\left(C_{1}C_{4}L_{1}L_{5}R_{1}R_{4}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}-C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}\right)+s^{4}\left(C_{1}C_{4}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}\right)+s^{4}\left(C_{1}C_{4}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}
                                            \frac{R_1R_5g_m - R_1 + s^3 \left(C_1C_4C_5L_1L_5R_1R_4R_5g_m - C_1C_4C_5L_1L_5R_1R_4g_m + C_1C_5L_1L_5R_1R_4g_m + C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1R_4g_m + C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1R_5g_m - C_1C_5L_1L_5R_1R_4g_m + C_1C_5L_1L_5R_1R_
10.981 INVALID-ORDER-981 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \frac{161769m - 161 + 5 + 616465m - 161469m - 16
10.982 INVALID-ORDER-982 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, R_5, \infty\right)
                                                                H(s) = \frac{R_1R_5g_m - R_1 + s^4\left(C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1\right) + s^2\left(C_1L_1R_1R_5g_m - C_1L_1R_1 + C_4L_4R_1R_5g_m - C_4L_4R_1\right)}{2R_1g_m + s^4\left(2C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4\right) + s^3\left(2C_1C_4L_1R_1R_5g_m + 2C_1C_4L_1R_1 + 2C_1C_4L_1R_5 + C_1C_4L_4R_1\right) + s^2\left(2C_1C_4R_1R_5 + 2C_1L_1R_1g_m + C_1L_1 + 2C_4L_4R_1g_m + C_4L_4\right) + s\left(C_1R_1 + 2C_4R_1R_5g_m + 2C_4R_1 + 2C_4R_1\right) + s^2\left(C_1C_4R_1R_5 + C_4R_1R_5g_m - C_4R_4R_1\right) + s^2\left(C_1C_4R_1R_5g_m - C_4R_4R_1\right) + s^2\left(C_1R_4R_1R_5g_m - C_4R_4R_1\right) + s^2\left(C_1R
10.983 INVALID-ORDER-983 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)
      H(s) = \frac{-C_1C_4C_5L_1L_4R_1s^5 + C_1C_4L_1L_4R_1g_ms^4 - C_5R_1s + R_1g_m + s^3\left(-C_1C_5L_1R_1 - C_4C_5L_4R_1\right) + s^2\left(C_1L_1R_1g_m + C_4L_4R_1g_m\right)}{s^5\left(2C_1C_4C_5L_1L_4R_1g_m + C_1C_4C_5L_1R_1\right) + s^4\left(2C_1C_4C_5L_1R_1 + C_1C_4C_5L_4R_1\right) + s^3\left(2C_1C_4L_1R_1g_m + C_1C_5L_1R_1g_m + C_4C_5L_4\right) + s^2\left(2C_1C_4R_1 + C_1C_5R_1 + 2C_4C_5R_1\right) + s\left(2C_4R_1g_m + 2C_4C_5R_1g_m + C_5R_1g_m + C_5R_1g_m\right)}
10.984 INVALID-ORDER-984 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{R_5}{C_5R_5s+1}, \infty\right)
H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_5s^5 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^4\left(C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1\right) + s^3\left(-C_1C_5L_1R_1R_5 - C_4C_5L_4R_1R_5\right) + s^4\left(2C_1C_4C_5L_1L_4R_1R_5g_m + C_1C_4L_4R_1R_5g_m + C_
10.985 INVALID-ORDER-985 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
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 $H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_ms^6 - C_1C_4C_5L_1L_4R_1s^5 - C_5R_1s + R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_1C_5L_1L_5R_1g_m + C_4C_5L_4L_5R_1g_m\right) + s^3\left(-C_1C_5L_1R_1 - C_4C_5L_4R_1\right) + s^2\left(C_1L_1R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_m + C_4C_5L_4L_5R_1g_m\right) + s^3\left(2C_1C_4C_5L_4R_1 + 2C_1C_4C_5L_4R_1\right) + s^2\left(C_1L_4R_1g_m + C_4L_4R_1g_m + C_4C_5L_4R_1\right) + s^2\left(C_1L_4R_1g_m +$

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

10.986 INVALID-ORDER-986 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)$

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10.987 INVALID-ORDER-987 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_1s^6 + C_1C_4L_1L_4L_5R_1g_ms^5 + L_5R_1g_ms - R_1 + s^4\left(-C_1C_4L_1L_4R_1 - C_1C_5L_1L_5R_1 - C_4C_5L_4L_5R_1\right) + s^3\left(C_1L_1L_5R_1g_m + S^6\left(2C_1C_4C_5L_1L_4L_5R_1g_m + C_1C_4L_5R_1g_m + C_1C_4L
10.988 INVALID-ORDER-988 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_ms^6 + R_1g_m + s^5\left(C_1C_4C_5L_1L_4R_1R_5g_m - C_1C_4C_5L_1L_4R_1g_m + C_1C_5L_1L_5R_1g_m + C_4C_5L_4L_5R_1g_m\right) + s^3\left(C_1C_5L_1R_1R_5g_m - C_1C_5L_1R_1 + C_4C_5L_4R_1g_m + C
10.989 INVALID-ORDER-989 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -C_1C_4C_5L_1L_4L_5R_1R_5s^6 - R_1R_5 + s^5(C_1C_4L_1L_4L_5R_1R_5s^6)
H(s) = \frac{1 - (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1)^{-1} + (1 - 1
10.990 INVALID-ORDER-990 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \frac{C_1C_4L_1L_4L_5R_1g_ms^3 + L_5R_1g_ms + R_1R_5g_m - R_1 + s^5\left(C_1C_4C_5L_1L_4L_5R_1R_5g_m - C_1C_4C_5L_1L_4L_5R_1\right) + s^4\left(C_1C_4C_5L_1L_4L_5R_1g_m + C_1C_4C_5L_1L_4L_5\right) + s^4\left(C_1C_4C_5L_1L_4R_1g_m + C_1C_4C_5L_1L_4R_1g_m + C_1C_4C_5L_1L_5R_1g_m + C_1C_4C_5L_1L_5
10.991 INVALID-ORDER-991 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -C_1C_4C_5L_1L_4R_1R_5s^5 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^6(C_1C_1C_2)
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$$H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_5s^5 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^6\left(C_1C_4C_5L_1L_4R_1R_5s^5 - C_5R_1R_5s + R_1R_5g_m - R_1 + s^6\left(C_1C_4C_5L_1L_4R_1R_5g_m + C_1C_4C_5L_1L_4R_1R_5g_m + C_1C_4C_5L_1L_5R_1 + 2C_1C_4C_5L_1L_5R_5 + C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_1L_4R_1R_5g_m + C_1C_4C_5L_4L_4R_1R_5g_m + C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4L_5R_1 + 2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4L_5R_1\right) + s^4\left(2C_1C_4C_5L_4C_5L_4L_5R_5R_1\right) + s^4\left(2C_1C_4C$$

10.992 INVALID-ORDER-992
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, R_5, \infty\right)$$

 $H(s) = \frac{s^3 \left(C_1 L_1 L_4 R_1 R_5 g_m - C_1 L_1 L_4 R_1 \right) + s \left(L_4 R_1 R_5 g_m - L_4 R_1 \right)}{2 R_1 R_5 g_m + 2 R_1 + 2 R_5 + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 R_5 g_m + 2 C_1 C_4 L_1 L_4 R_1 \right) + s^3 \left(2 C_1 C_4 L_4 L_4 R_1 R_5 g_m + C_1 L_1 L_4 \right) + s^2 \left(2 C_1 L_1 R_1 R_5 g_m + 2 C_1 L_1 R_1 + 2 C_4 L_4 R_1 R_5 g_m + 2 C_4 L_4 R_1 + 2 C_4 L_4 R_1 \right) + s \left(2 C_1 R_1 R_5 R_5 R_2 + 2 C_1 L_1 R_1 R_5 R_2 \right) + s \left(2 C_1 R_1 R_5 R_5 R_2 + 2 C_1 L_1 R_1 R_5 R_2 \right) + s \left(2 C_1 R_1 R_5 R_5 R_2 + 2 C_1 L_1 R_1 R_5 R_2 \right) + s \left(2 C_1 R_1 R_5 R_2 R_2 + 2 C_1 L_1 R_1 R_5 R_2 \right) + s \left(2 C_1 R_1 R_5 R_2 R_2 + 2 C_1 R_1 R_5 R_2 R_2 \right) + s \left(2 C_1 R_1 R_5 R_2 R_2 R_2 + 2 C_1 R_2 R_3 \right) + s \left(2 C_1 R_1 R_5 R_2 R_2 R_2 R_3 R_3 R_3 R_3 \right) + s$

10.993 INVALID-ORDER-993
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right)$$

$$-C_1C_5L_1L_4R_1s^4+C_1L_1L_4R_1g_ms^3-C_5L_4R_1s^2+L_4R_1s^2+L_4R_1s^2+C_1L_1L_4R_1g_ms^3-C_5L_4R_1s^2+L_4R_1s^2+C_1L_1L_4R_1g_ms^3-C_5L_4R_1s^2+L_4R_1s^2+C_1L_1L_4R_1g_ms^3-C_5L_4R_1s^2+L_4R_1s^2+C_1L_1L_4R_1g_ms^3-C_5L_4R_1s^2+C_1L_4R_1g_ms^2+C_1L_4R_1g_ms^2+$$

$$H(s) = \frac{-C_1C_5L_1L_4R_1s^4 + C_1L_1L_4R_1g_ms^3 - C_5L_4R_1s^2 + L_4R_1g_ms}{2C_1C_4C_5L_1L_4R_1s^5 + 2R_1g_m + s^4\left(2C_1C_4L_1L_4R_1g_m + 2C_1C_5L_1L_4R_1g_m + C_1C_5L_1L_4\right) + s^3\left(2C_1C_4L_4R_1 + 2C_1C_5L_1R_1 + C_1C_5L_4R_1\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + 2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + C_5L_4\right) + s\left(2C_1R_1 + 2C_5R_1R_1 + C_1C_5L_4R_1\right) + s^2\left(2C_1L_1R_1g_m + 2C_4L_4R_1g_m + 2C_4L_4 + 2C_5L_4R_1g_m + C_5L_4\right) + s\left(2C_1R_1 + 2C_4R_1g_m + 2C_4R_1g_m$$

10.994 INVALID-ORDER-994
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$$

 $-C_1C_5L_1L_4R_1R_5s^{-} - C_5L_4R_1R_5s^{-} + s^{-}(C_1L_1L_4R_1R_5g_m - C_1L_1L_4R_1) + s(L_4R_1R_5g_m - L_4R_1) + s(L_4R_1R_1g_m - L_4R_1) + s(L_4R_1R_$

10.995 INVALID-ORDER-995
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $C_1L_1L_4R_1g_ms^3 + L_4R_1g_ms + s^4\left(C_1C_5L_1L_4R_1R_5g_m - C_1C_5L_1L_4R_1\right) + s^2\left(C_5L_4R_1R_5g_m - C_1C_5L_1L_4R_1\right)$ $H(s) = \frac{C_1L_1L_4R_1g_ms + L_4R_1g_ms + S_1(C_1C_5L_1L_4R_1R_5g_m + C_1C_5L_1L_4R_1) + S_1(C_5L_4R_1R_5g_m + C_1C_5L_1L_4R_1) + S_2(C_5L_4R_1R_5g_m + C_1C_5L_4R_1) + S_3(C_1C_4L_4R_1 + 2C_1C_5L_1L_4R_1 + 2C_1C_5L_1L_4R_1 + 2C_1C_5L_1L_4R_1 + 2C_1C_5L_1R_1 + 2C_1C_5L_$ 10.996 INVALID-ORDER-996 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_5L_1L_4L_5R_1g_ms^5 - C_1C_5L_1L_4R_1s^4 - C_5L_4R_1s^2 + L_4R_1g_ms + s^3\left(C_1L_1L_4R_1g_m + C_1C_5L_1L_4R_1g_m + C_1C$

10.997 INVALID-ORDER-997 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{-C_1C_5L_1L_4L_5R_1s^5 + C_1L_1L_4L_5R_1g_ms^4 + L_4L_5R_1g_ms^2 - L_4R_1s + s^3\left(-C_1L_1L_4R_1 - C_5L_4L_5R_1g_ms^2 - L_4R_1s + s^3\left(-C_1L_1L_4R_1 - C_5L_4L_5R_1g_ms^2 - L_4R_1s + s^3\left(-C_1L_1L_4R_1 - C_5L_4L_5R_1s^2 + C_1C_4L_4L_5R_1s^2 + C_4C_5L_4L_5R_1s^2 + C_4C_5L_5L_5R_1s^2 + C_4C_5L_5L_5R_1s^2 + C_4C_5L_5L_5R_1s^2 + C_4C_5L_5L_5R_1s^2 + C_5L_5L_5L_5R_1s^2 + C_5L_5L_5L_5L_5R_1s^2 + C_5L_5$

10.998 INVALID-ORDER-998 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{C_1C_5L_1L_4L_5R_1g_m}{2R_1g_m + s^6\left(2C_1C_4C_5L_1L_4L_5R_1g_m + 2C_1C_4C_5L_1L_4R_1g_m + 2C_1C_4C_5L_4C_5L_4L_4R_1g_m + 2C_1C_4C_5L_5L_5C_5C_5L_5C_5C_5L_5C_5C_$

10.999 INVALID-ORDER-999 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$

 $H(s) = \frac{-C_1C_5L_1L_4L_5R_1}{2C_1C_4C_5L_1L_4L_5R_1R_5s^6 + 2R_1R_5 + s^5\left(2C_1C_4L_1L_4L_5R_1R_5g_m + 2C_1C_4L_1L_4L_5R_1 + 2C_1C_4L_1L_4L_5R_5\right) + s^4\left(2C_1C_4L_1L_4R_1R_5 + 2C_1C_4L_4L_5R_1R_5 + 2C_1C_5L_1L_5R_1R_5 + 2C_1C_5L_4L_5R_1R_5 + 2C_1C_5L_5L_5R_1R_5 + 2C_1C_5L_5R_1R_5 + 2C_1C_5L_5R_1R_5 + 2C_1C_5L_5L_5R_1R_5 + 2C_1C_5L_5L_5R_1R_5 + 2C_1C_5L_5R_1R_5 + 2C_1C_5L_5L_5R_1R_5 + 2C_1C_5L_5R_1R_5 + 2C_1C$

10.1000 INVALID-ORDER-1000 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{1}{2R_1R_5g_m + 2R_1 + 2R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_5g_m + 2C_1C_4C_5L_1L_4L_5R_1 + 2C_1C_4C_5L_1L_4L_5R_1\right) + s^5\left(2C_1C_4C_5L_4L_5R_1R_5 + 2C_1C_4L_4L_5R_1g_m + 2C_1C_4L_5L_4L_5R_1g_m + 2C_1C_4L_5L_5R_1g_m + 2C_1C_4L_5L_5R_1g_m + 2C_1C_4L_5L_5R_1g_m + 2C_1C_4L_5L_5R_1g_m + 2C_1C_4L_5L_5R_1g_m + 2C_1C_4L_5L_5R_1g_m + 2C_1C_4L_5L_5R$

10.1001 INVALID-ORDER-1001 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \frac{R_5\left(C_5L_5s^2+1\right)}{C_5L_5s^2+C_5R_5s+1}, \ \infty\right)$

 $H(s) = \frac{1}{2R_1R_5g_m + 2R_1 + 2R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_5g_m + 2C_1C_4C_5L_1L_4L_5R_1 + 2C_1C_4C_5L_1L_4R_1R_5 + 2C_1C_4C_5L_4L_5R_1R_5 + 2C_1C_4L_5L_4L_5R_1g_m + C_1C_5L_1L_4L_5\right) + s^4\left(2C_1C_4L_4L_4R_1R_5g_m + 2C_1C_4L_4L_4R_1R_5 + 2C_1C_4L_4L_4R_1R_5 + 2C_1C_4L_4L_5R_1R_5 + 2C_1C_4L_5L_4R_1R_5 + 2C_1C_4L_5L_4R_1R_5 + 2C_1C_4L_5L_5R_1R_5 + 2C_1C_4L_5L_5R_5 + 2C_1C_4L_5L_5R$

10.1002 INVALID-ORDER-1002 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, R_5, \infty\right)$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^4 \left(C_1 C_4 L_1 L_4 R_1 R_5 g_m - C_1 C_4 L_1 L_4 R_1\right) + s^3 \left(C_1 C_4 L_1 R_1 R_4 R_5 g_m - C_1 L_4 R_1 R_5 g_m - C_1 L_4 R_1 R_5 g_m - C_4 L_4 R_1\right) + s \left(C_4 R_1 R_4 R_5 g_m - C_4 L_4 R_1\right) + s \left(C_4 R_1 R_4 R_5 g_m - C_4 R_4 R_4\right)}{2 R_1 g_m + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 g_m + C_1 C_4 L_1 R_4\right) + s^3 \left(2 C_1 C_4 L_1 R_1 R_5 g_m + 2 C_1 C_4 L_1 R_1 + C_4 L_4 R_1\right) + s^2 \left(C_1 C_4 R_1 R_4 + 2 C_1 C_4 R_1 R_5 + 2 C_1 L_4 R_1 g_m + C_4 L_4\right) + s \left(C_1 R_1 R_4 R_5 g_m - C_4 R_4 R_4\right) + s \left(C_1 R_4 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_5 g_m - C_4 R_4\right) + s \left(C_1 R_4 R_5$

10.1003 INVALID-ORDER-1003 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1s^5 + R_1g_m + s^4\left(-C_1C_4C_5L_1R_1R_4 + C_1C_4L_1L_4R_1g_m\right) + s^3\left(C_1C_4L_1R_1R_4g_m - C_1C_5L_1R_1 - C_4C_5L_4R_1\right) + s^2\left(C_1L_1R_1g_m - C_4C_5R_1R_4 + C_4L_4R_1g_m\right) + s\left(C_4R_1R_4g_m - C_4C_5R_1R_4 + C_4C_5L_4R_1\right) + s^3\left(C_4C_5L_4R_1g_m + C_4C_5L_4R_1g_m + C_4C$

10.1004 INVALID-ORDER-1004 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_5s^5 + R_1R_5g_m - R_1 + s^4\left(-C_1C_4C_5L_1R_1R_4R_5 + C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1R_5g_m - C_1C_4L_1L_4R_1R_5g_m + C_1C_4L_1L_4R_1R_5g_m + C_1C_4C_5L_1R_1R_4R_5g_m + C_1C_4C_5L_1R_1R_4R_5g_m + C_1C_4C_5L_1R_1R_4R_5g_m + C_1C_4C_5L_1R_1R_4R_5g_m + C_1C_4C_5L_1R_1R_4g_m + C_1C_4C_5L_1R_4R_5g_m + C_1C_4C_5L_1R_4G_5g_m + C_1C_4C_5L_1R_4G_5g_m + C_1C_4C_5L_1R_4G_5g_m + C_1C_4C_5L_1R_4G_5g_m + C_1C_4C_5L_1R_4G_5g_m + C_1C_4C_5L_1R_4G_5g_m + C_1$

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10.1005 INVALID-ORDER-1005 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, R_5 + \frac{1}{C_5s}, \infty\right)
 H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_4 C_5 L_1 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_1 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_1 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_1 R_1 R_4 g_m + C_1 C_5 L_1 R_1 R_5 g_m - C_1 C_5 L_1 R_1 R_5 g_m - C_1 C_5 L_4 R_1 R_5 g_m -
 10.1006 INVALID-ORDER-1006 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + \frac{1}{C_5s}, \infty\right)
 H(s) = \frac{C_1C_4C_5L_1L_4L_5R_1g_ms^6 + R_1g_m + s^5\left(-C_1C_4C_5L_1L_4R_1 + C_1C_4C_5L_1L_5R_1R_4g_m\right) + s^4\left(-C_1C_4C_5L_1R_1R_4 + C_1C_4L_1L_4R_1g_m + C_1C_5L_1L_5R_1g_m + C_4C_5L_4L_5R_1g_m\right) + s^3\left(C_1C_4L_1R_1R_4g_m - C_1C_5L_1R_1 - C_4C_5L_1R_1R_4g_m\right) + s^4\left(2C_1C_4C_5L_1L_4R_1g_m + C_1C_4C_5L_1R_1 + C_1C_4C_
 10.1007 INVALID-ORDER-1007 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}s^{6}-R_{1}+s^{5}\left(-C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}+C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}g_{m}\right)+s^{4}\left(-C_{1}C_{4}L_{1}L_{4}R_{1}+C_{1}C_{4}L_{1}R_{2}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}R_{2}R_{2}R_{2}+C_{1}C_{4}R_{1}R_{2}R_{2}+C_{1}C_{4}R_{1}R_{2}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{1}+C_{1}C_{4}R_{1}R_{2}+C_{1}C_{4}R_{1}R_{1}+C_{1}C_{4}R_{1}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1}C_{4}R_{1}+C_{1
 H(s) = \frac{-C_1C_4C_5L_1L_4L_5R_1s^6 - R_1 + s^5\left(-C_1C_4C_5L_1L_5R_1R_4 + C_1C_4L_1L_4L_5R_1g_m\right) + s^4\left(-C_1C_4L_1L_4R_1 + C_1C_4L_1L_4R_1 + C_1C_4L_1L_4R_1g_m\right) + s^4\left(-C_1C_4C_5L_1L_5R_1R_4 + C_1C_4C_5L_1L_5R_1R_4 + C_1C_4C_5L_1L_5R_1R_4 + C_1C_4C_5L_1L_5R_1R_4 + C_1C_4C_5L_1L_5R_1R_4 + C_1C_4C_5L_1L_5R_1g_m\right) + s^4\left(-C_1C_4C_5L_1L_5R_1R_4 + C_1C_4C_5L_1L_5R_1R_4 + C_1C_4C_5L_1L_5R_1
 10.1008 INVALID-ORDER-1008 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)
                                                    \frac{C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}g_{m}s^{6}+R_{1}g_{m}+s^{5}\left(C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m}-C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}g_{m}\right)+s^{4}\left(C_{1}C_{4}C_{5}L_{1}R_{1}R_{4}R_{5}g_{m}-C_{1}C_{4}C_{5}L_{1}R_{1}R_{4}+C_{1}C_{4}L_{5}L_{1}L_{5}R_{1}g_{m}+C_{1}C_{5}L_{1}L_{5}R_{1}g_{m}+C_{4}C_{5}L_{4}L_{5}R_{1}g_{m}\right)+s^{3}\left(C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}C_{5}L
10.1009 INVALID-ORDER-1009 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)
 H(s) = \frac{1}{2R_{1}R_{5}g_{m} + R_{5} + s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}g_{m} + C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m} + C_{1}C_{4}C_{5
 10.1010 INVALID-ORDER-1010 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)
 H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_1 R_5 g_m - C_1 C_4 C_5 L_1 L_4 L_5 R_1\right) + s^5 \left(C_1 C_4 C_5 L_1 L_5 R_1 R_4 R_5 g_m - C_1 C_4 C_5 L_1 L_5 R_1 R_4 + C_1 C_4 L_5 L_1 L_5 R_1 R_4 + C_1 C_4 L_5 L_1 L_5 R_1 R_4 + C_1 C_4 C_5 L_1 L_5 R_1 R_5 + C_1 C
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10.1011 INVALID-ORDER-1011
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{R_1 R_5 g_m - R_1 + s^6 \left(C_1 C_4 C_5 L_1 L_4 L_5 R_1 g_m + C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_4 R_1 R_5 g_m + C_1 C_4 C_5 L_1 L_5 R_1 R_4 g_m + 2 C_1 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 + C_1 C_4 C_5 L_1 L_5 R_1 R_5 g_m + 2 C_1 C_4 C_5 L_1$

10.1012 INVALID-ORDER-1012
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5, \infty\right)$$

 $H(s) = \frac{s^3 \left(C_1 L_1 L_4 R_1 R_4 R_5 g_m - C_1 L_1 L_4 R_1 R_4 \right) + s \left(L_4 R_1 R_4 R_5 g_m - L_4 R_1 R_4 \right)}{2 R_1 R_4 R_5 g_m + 2 R_1 R_4 + 2 R_4 R_5 + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 R_4 R_5 g_m + 2 C_1 L_1 L_4 R_1 R_4 R_5 g_m + 2 C_1 L_1 L_4 R_1 + C_1 L_1 L_4 R_4 + 2 C_1 L_1 L_4 R_1 + C_1 L_1 L_4 R_4 + 2 C_1 L_1 L_4 R_5 g_m + 2 C_1 L_1 R_4 R_5 g_m + 2 C_1 R_5 R_5 g_m + 2 C_1 R$

10.1013 INVALID-ORDER-1013
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{-C_1C_5L_1L_4R_1R_4s^4 + C_1L_1L_4R_1R_4g_ms^3 - C_5L_4R_1R_4s^2 + L_4R_1R_4g_ms}{2C_1C_4C_5L_1L_4R_1R_4s^5 + 2R_1R_4g_m + 2C_1C_5L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1 + C_1C_5L_1L_4R_1 + C_1C_5L_1L_4R_$

- **10.1014** INVALID-ORDER-1014 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$
- $H(s) = \frac{1}{2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}R_{5}s^{5} + 2R_{1}R_{4}R_{5}g_{m} + 2R_{1}R_{4} + 2R_{4}R_{5} + s^{4}\left(2C_{1}C_{4}L_{1}L_{4}R_{1}R_{4} + 2C_{1}C_{4}L_{1}L_{4}R_{1}R_{4} + 2C_{1}C_{5}L_{1}L_{4}R_{1}R_{5} + 2C_{1}C_{5}L_{1}L_{4}R_{1}R_{5} + C_{1}C_{5}L_{1}L_{4}R_{1}R_{5} + C_{1}C$
- 10.1015 INVALID-ORDER-1015 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, R_5 + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2R_1R_4g_m + 2R_4 + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_4 + 2C_1C_4C_5L_1L_4R_1R_4g_m + 2C_1C_4L_4L_4R_1R_4g_m + 2C_1C_5L_4L_4R_1R_4g_m + 2C_1C_5L_4L_4R_1R_4g_m + 2C_1C_5L_4L_4R_1R_4g_m + 2C_1C_5L_4R_1R_4g_m + 2C_1C_5L_4R_1R_4g_m$
- **10.1016** INVALID-ORDER-1016 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s + \frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2R_1R_4g_m + 2R_4 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4C_5L_1L_4L_5R_4\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4 + 2C_1C_5L_1L_4L_5R_1g_m + 2C_1C_5L_1L_4L_5\right) + s^4\left(2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1R_4g_m + 2C_1C_5L_1L_4R_1R_$
- 10.1017 INVALID-ORDER-1017 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$
- $H(s) = \frac{1}{2C_1C_4C_5L_1L_4L_5R_1R_4s^6 + 2R_1R_4 + s^5\left(2C_1C_4L_1L_4L_5R_1R_4g_m + 2C_1C_4L_1L_4L_5R_1R_4g_m + 2C_1C_5L_1L_4L_5R_1 + C_1C_5L_1L_4L_5R_4 + C_1C_5L_4L_5R_4 + C_1C_5L_5L_5R_4 + C_1C_5L_5L_5R_5 + C_1C_5L_5L_5L_5R_5 + C_1C_5L_5L_5R_5 + C_1C_5L_5L_5L_5R_5 + C_1C_5L_5L_5L_5R_5 + C_1C_5L_5L_5L_5R_5 + C_1C_5L_5L_5L_5R_5 + C_1C_5L_5L_5L_5R_5 + C_1C_5L_5L_5$
- 10.1018 INVALID-ORDER-1018 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, L_5s+R_5+\frac{1}{C_5s}, \infty\right)$
- $H(s) = \frac{1}{2R_{1}R_{4}g_{m} + 2R_{4} + s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}\right) + s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}g_{m} + 2C_{1}C_{5}L_{1}L_{4}R_{1}g_{m} + 2C_{1}C_{5}L_{1}L_{4}R_{1$
- **10.1019** INVALID-ORDER-1019 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$
- $H(s) = \frac{1}{2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}s^{6} + 2R_{1}R_{4}R_{5}s^{6} + 2R_{1}R_{4$
- 10.1020 INVALID-ORDER-1020 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$
- 10.1021 INVALID-ORDER-1021 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$
- $H(s) = \frac{1}{2R_{1}R_{4}R_{5}g_{m} + 2R_{1}R_{4} + 2R_{4}R_{5} + s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4} + 2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}R_{5}\right) + s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}R_{5}R_{4}R_{5} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}\right) + s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}R_{5}R_{4}R_{5} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}\right) + s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}R_{5}R_{4}R_{5} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}g_{m} +$
- 10.1022 INVALID-ORDER-1022 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, R_5, \infty\right)$
- $H(s) = \frac{R_1R_4R_5g_m R_1R_4 + s^4\left(C_1C_4L_1L_4R_1R_5g_m C_1C_4L_1L_4R_1R_5g_m C_1L_1L_4R_1\right) + s^2\left(C_1L_1R_1R_4R_5g_m C_1L_1R_1R_4 + C_4L_4R_1R_4\right)}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1R_5g_m + 2R_1R_4 + 2R_5 + s^4\left(2C_1C_4L_1L_4R_1R_5g_m + 2C_1C_4L_1L_4R_1\right) + s^2\left(2C_1L_1R_1R_4R_5g_m C_1L_1R_1R_4 + C_4L_4R_1R_4\right)} + s^2\left(2C_1L_1R_1R_4R_5g_m C_1L_1R_1R_4R_5g_m C_1L_1R_1R_4\right) + s^2\left(2C_1L_1R_1R_4g_m + 2C_1C_4L_1L_4R_1\right) + s^2\left(2C_1L_1R_1R_4g_m + 2C_1L_1R_1R_4g_m + 2C_1L_1R_1R_4\right) + s^2\left(2C_1L_1R_1R_4g_m + 2C_1L_1R_1R_4g_m + 2C_1L$

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10.1023 INVALID-ORDER-1023 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{1}{C_5s}, \infty\right)
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 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_4s^5 + R_1R_4g_m + s^4\left(C_1C_4L_1L_4R_1R_4g_m - C_1C_5L_1L_4R_1\right) + s^3\left(-C_1C_5L_1R_1R_4 + C_1L_1L_4R_1g_m - C_4C_5L_4R_1R_4\right) + s^2\left(C_1L_4R_1R_4g_m + s^4\left(C_1C_4C_5L_4R_1R_4 + C_1C_5L_4R_1R_4 + C_4C_5L_4R_1R_4\right) + s^4\left(C_1C_4C_5L_4R_1R_4 + 2C_1C_5L_4R_1R_4 + 2C_1$

10.1024 INVALID-ORDER-1024
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \ \frac{R_5}{C_5R_5s+1}, \ \infty\right)$$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_4R_5s^\circ + R_1R_4R_5s^\circ + R_1R_4R_5$

10.1025 INVALID-ORDER-1025
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, R_5 + \frac{1}{C_5s}, \infty\right)$$

 $H(s) = \frac{R_1 R_4 g_m + s^5 \left(C_1 C_4 C_5 L_1 L_4 R_1 R_4 g_m - C_1 C_4 C_5 L_1 L_4 R_1 R_4 g_m + C_1 C_5 L_1 L_4 R_1 R_4 g_m + C_1 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_5 L_1 L_4 R_1 R_4 g_m + C_1 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_5 L_1 L_4 R_1 R_4 g_m + C_1 C_5 L_1 L_4 R_1 R_5 g_m - C_1 C_5 L_1 L_4 R_1 R_5 g_m$

10.1026 INVALID-ORDER-1026
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \ L_5s+\frac{1}{C_5s}, \ \infty\right)$$

 $\frac{C_1C_4C_5L_1L_4L_5R_1R_4g_ms^{\text{o}} + R_1R_4g_m + s^{\text{o}}\left(-C_1C_4C_5L_1L_4R_1R_4 + C_1C_5L_1L_4R_1R_4 + C_1C_5L_1L_4R_1R_4g_m - C_1C_4C_5L_1L_4R_1R_4g_m - C_1C_4C_5L_1L_4R_1R_4g_m + s^{\text{o}}\left(2C_1C_4C_5L_1L_4L_5R_1g_m + 2C_1C_4L_5L_4L_5R_1g_m + 2C_1C_4L_5L_4R_1R_4g_m + 2C_1C_4L_5L_4R_1R_4g_m - C_1C_5L_4R_1R_4 + 2C_1C_5L_4R_1R_4 + 2C_1C_5L_4R_1R_4$

10.1027 INVALID-ORDER-1027
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$$

 $H(s) = \frac{\sum_{1 \le 4 \le 5} \sum_{1 \le 4} \sum$

10.1028 INVALID-ORDER-1028
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, L_5s+R_5+\frac{1}{C_5s}, \infty\right)$$

 $\frac{C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}s^{6}+R_{1}R_{4}g_{m}+s^{5}\left(C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}R_{5}g_{m}-C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}+A_{1}R_{5}g_{m}+C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{1}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{1}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{1}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{1}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{1}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{4}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{5}L_{5}R_{5}g_{m}+2C_{1}C_{5}L_{5}L_{$

10.1029 INVALID-ORDER-1029
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \infty\right)$$

 $H(s) = \frac{1}{2R_1R_4R_5g_m + 2R_1R_5 + R_4R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4L_5R_1R_5 + C_1C_4C_5L_1L_4L_5R_1R_4R_5\right) + s^5\left(C_1C_4C_5L_4L_5R_1R_4R_5 + 2C_1C_4L_1L_4L_5R_1R_4g_m + 2C_1C_4L_1L_4L_5R_1R_5g_m + 2C_1C_4L_1L_4L_5R_1R_4g_m + 2C_1C_4L_1L_4L_5R_1R_5g_m + 2C_1C_4L_5L_5R_1R_5g_m + 2C_1C_4L_5L_5R_1R_5g_$

10.1030 INVALID-ORDER-1030
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$$

 $\overline{2R_{1}R_{4}g_{m}+2R_{1}R_{5}g_{m}+2R_{1}+R_{4}+2R_{5}+s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}g_{m}+2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{4}+2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}+2C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+2C_{1}C_{4}L_{5}L_{1}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}+C_{1}C_{4}C_{5}L_{4}L_{5}$

10.1031 INVALID-ORDER-1031
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$$

 $H(s) = \frac{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4C_5L_1L_4L_5R_1 + C_1C_4C_5L_1L_4L_5R_4 + 2C_1C_4C_5L_1L_4L_5R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_1R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_5\right) + s^5\left(2C_1C_4C_5L_1L_4R_5\right$

10.1032 INVALID-ORDER-1032 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5, \infty\right)$

 $H(s) = \frac{R_1 R_4 R_5 g_m - R_1 R_4 + s^4 \left(C_1 C_4 L_1 L_4 R_1 R_4 R_5 g_m - C_1 C_4 L_1 L_4 R_1 R_4 \right) + s^2 \left(C_1 L_1 R_1 R_4 R_5 g_m - C_1 C_4 L_1 L_4 R_1 R_4 R_5 g_m - C_1 C_4 L_1 R_4$

10.1033 INVALID-ORDER-1033 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{-C_1C_4C_5L_1L_4R_1R_4s^5 + C_1C_4L_1L_4R_1R_4g_ms^4 - C_5R_1R_4s + R_1R_4g_m + s^3\left(-C_1C_5L_1R_1R_4 - C_5R_1R_4s + R_1R_4g_m + s^3\left(-C_1C_5L_1R_1R_4 + C_1C_4C_5L_1R_1R_4 + C_1C_4C_5L_1R_1R_4 + C_1C_4C_5L_1R_1R_4g_m + 2C_1C_4L_1R_4 + 2C_1C_4L$

10.1034 INVALID-ORDER-1034 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5}{C_5R_5s+1}, \infty\right)$

 $H(s) = \frac{1}{2R_1R_4g_m + 2R_1R_5g_m + 2R_1 + R_4 + 2R_5 + s^5\left(2C_1C_4C_5L_1L_4R_1R_4R_5g_m + 2C_1C_4C_5L_1L_4R_1R_5 + C_1C_4C_5L_1L_4R_1R_4R_5 + C_1C_4C_5L_1L_4R_1R_4R_5 + C_1C_4C_5L_4R_1R_4R_5 + C_1C_4C_5L_4R_4R_5 + C_1C_4C_5L_4R_5 + C_1C_4C_$

10.1035 INVALID-ORDER-1035 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, R_5 + \frac{1}{C_5s}, \infty\right)$

 $\overline{2R_{1}g_{m} + s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1} + C_{1}C_{4}C_{5}L_{1}L_{4}R_{4} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}R_{4}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}R_{4}R_{5}g_$

10.1036 INVALID-ORDER-1036 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{1}{2R_1g_m + s^6\left(2C_1C_4C_5L_1L_4L_5R_1g_m + 2C_1C_4C_5L_1L_4R_1 + C_1C_4C_5L_1L_4R_1 + C_1C_4C_5L_1L_4R_4 + 2C_1C_4C_5L_1L_5R_4 + 2C_1C_4C_5L_1L_5R_5 + 2C_1C_4C_5L_1L_5R_5 + 2C_1C_4C_5L_5L_5R_5 + 2C_1C_4C_5L$

10.1037 INVALID-ORDER-1037 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{L_5s}{C_5L_5s^2+1}, \infty\right)$

 $H(s) = \frac{1}{2R_1R_4g_m + 2R_1 + R_4 + s^6\left(2C_1C_4C_5L_1L_4L_5R_1R_4g_m + 2C_1C_4C_5L_1L_4L_5R_1 + C_1C_4C_5L_1L_4L_5R_4\right) + s^5\left(2C_1C_4C_5L_1L_4L_5R_1R_4 + C_1C_4C_5L_4L_5R_1R_4 + 2C_1C_4L_4L_4R_4\right) + s^4\left(2C_1C_4L_4L_4R_1R_4g_m + 2C_1C_4L_4L_4R_4 + 2C_1C_4L_4L_5R_4\right) + s^4\left(2C_1C_4L_4L_4R_4R_4 + 2C_4C_4L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4L_5R_4R_4 + 2C_4C_4L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4L_5R_4R_4 + 2C_4C_4L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4L_5R_4R_4 + 2C_4C_4L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4L_5R_4R_4 + 2C_4C_5L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4L_5R_4R_4 + 2C_4C_4L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4L_5R_4R_4 + 2C_4C_4L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4R_4R_4 + 2C_4C_4L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4R_4 + 2C_4C_4L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4R_4 + 2C_4C_5L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4R_4\right) + s^4\left(2C_4C_5L_4L_4R_4\right$

10.1038 INVALID-ORDER-1038 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, L_5s + R_5 + \frac{1}{C_5s}, \infty\right)$

 $H(s) = \frac{1}{2R_{1}g_{m} + s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1} + C_{1}C_{4}C_{5}L_{1}L_{4}R_{5} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{4}R_{1} + C_{1}C_{4}C_{5}L_{1}L_{4}R_{5} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{1}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{1}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}R_{5}g_{m} + 2C_{1}C_{4}C_{5}L_{5}R_{5}g_{m}$

10.1039 INVALID-ORDER-1039 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \ \frac{L_5R_5s}{C_5L_5R_5s^2+L_5s+R_5}, \ \infty\right)$

 $\overline{2R_{1}R_{4}R_{5}g_{m}+2R_{1}R_{5}+R_{4}R_{5}+s^{6}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}g_{m}+2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}\right)+s^{5}\left(2C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+2C_{1}C_{4}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{4}R_{5}+C_{1}C_{4}C_{5}L_{1}L_{4}L_{5}R_{1}R_{5}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+C_{1}C_{4}C_{5}L_{4}L_{5}R_{1}R_{5}+C_{1}C_{4}C_{5}L_{4$

10.1040 INVALID-ORDER-1040 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{C_5L_5R_5s^2+L_5s+R_5}{C_5L_5s^2+1}, \infty\right)$

10.1041 INVALID-ORDER-1041 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \frac{R_5(C_5L_5s^2+1)}{C_5L_5s^2+C_5R_5s+1}, \infty\right)$

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

11 PolynomialError