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

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Contents

1 Examined $H(z)$ for CG TIA simple Z1 Z4 ZL: $\frac{Z_1Z_4Z_Lg_m}{Z_1Z_4g_m+2Z_1Z_Lg_m+Z_4+2Z_L}$
$_{ m 2}$ HP
3 BP
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$10.32 \text{INVALID-ORDER-} 32 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right) \dots $	 27

$10.33 \text{INVALID-ORDER-} 33 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \qquad \dots $	28
$10.34 \text{INVALID-ORDER-34 } Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \left(R_1, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \left(R_1, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \infty, \infty, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \infty, \infty, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \infty, \infty, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \infty, \infty, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 L_L s^2 + 1}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 s}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 s}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 s}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 s}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 s}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 s}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s} \left(R_1, \frac{L_L s}{C_4 s}\right) \qquad (2.34 \text{INVALID-ORDER-34 } Z(s) = \frac{1}{C_4 s$	28
$10.35 \text{INVALID-ORDER-35 } Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $	28
$10.36 \text{INVALID-ORDER-36 } Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $	28
$10.37 \text{INVALID-ORDER-37 } Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $	28
10.38INVALID-ORDER-38 $Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	28
$10.39 \text{INVALID-ORDER-39 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \infty, \ \frac{1}{C_Ls}\right) $	28
$10.40 \text{INVALID-ORDER-40 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ R_L + \frac{1}{C_L s}\right) \dots \dots$	28
$10.41 \text{INVALID-ORDER-41 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right) $	28
$10.42 \text{INVALID-ORDER-} 42 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \ \dots $	28
10.43INVALID-ORDER-43 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$	29
$10.44 \text{INVALID-ORDER-} 44 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{C_L L_R L_s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \ \dots $	29
$10.45 \text{INVALID-ORDER-45 } Z(s) = \left(R_1, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) $	29
$10.46 \text{INVALID-ORDER-} 46 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s}\right) $	29
$10.47 \text{INVALID-ORDER-47 } Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \qquad \dots $	29
$10.48 \text{INVALID-ORDER-48 } Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots$	29
$10.49 \text{INVALID-ORDER-49 } Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right) \qquad \dots \qquad $	29
$10.50 \text{INVALID-ORDER-50 } Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $	29
$10.51 \text{INVALID-ORDER-51 } Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right) $	29
$10.52 \text{INVALID-ORDER-} 52 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	30
$10.53 \text{INVALID-ORDER-} 53 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots $	30
$10.54 \text{INVALID-ORDER-} 54 \ Z(s) = \left(R_1, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) $	30
10.55INVALID-ORDER-55 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L + \frac{1}{C_L s}\right)$	30
10.56INVALID-ORDER-56 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, L_L s + \frac{1}{C_L s}\right)$	30
$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}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $	30
10.58INVALID-ORDER-58 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	
10.59INVALID-ORDER-59 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	
10.60INVALID-ORDER-60 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{1}{C_Ls}\right)$	
10.61INVALID-ORDER-61 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$	31
10.62INVALID-ORDER-62 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, R_L + \frac{1}{C_Ls}\right)$	
10.63INVALID-ORDER-63 $Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, L_Ls + \frac{1}{C_Ls}\right)$	
$10.64 \text{INVALID-ORDER-} 64 \ 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}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} \right) \dots $	
$10.65 \text{INVALID-ORDER-} 65 \ 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}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s} \right) $	
$10.66 \text{INVALID-ORDER-} 66 \ 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) $	
$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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \right) \dots $	
$10.68 \text{INVALID-ORDER-68 } 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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right)' \ \dots \ $	
10.69INVALID-ORDER-69 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{1}{C_Ls}\right)$	
10.70INVALID-ORDER-70 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{R_L}{C_LR_Ls+1}\right)$	32

10.71INVALID-ORDER-71 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \infty, R_L + \frac{1}{C_Ls}\right)$	32
$10.72 \text{INVALID-ORDER-} 72 \ 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}, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right) \ \dots $	3:
10.73INVALID-ORDER-73 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$	3
10.74INVALID-ORDER-74 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$	3:
10.75INVALID-ORDER-75 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$	3
10.76INVALID-ORDER-76 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1} \right)$	3
10.77INVALID-ORDER-77 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)'$	3
10.78INVALID-ORDER-78 $Z(s) = (L_1 s, \infty, \infty, R_4, \infty, R_L)$	3
10.79INVALID-ORDER-79 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$	3
10.80INVALID-ORDER-80 $Z(s) = (L_1 s, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$	3
10.81INVALID-ORDER-81 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	3
10.82INVALID-ORDER-82 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	3
10.83INVALID-ORDER-83 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	3
$10.84 \text{INVALID-ORDER-84 } Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $	3
10.85INVALID-ORDER-85 $Z(s) = (L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s})$	3
10.86INVALID-ORDER-86 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$	3
10.87INVALID-ORDER-87 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	3
10.88INVALID-ORDER-88 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_{AS}}, \infty, L_L s + R_L + \frac{1}{C_{LS}}\right)$	33
$10.89 \text{INVALID-ORDER-89 } Z(s) = \left(L_1 s, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $	3.
$10.90 \text{INVALID-ORDER-90 } Z(s) = \left(L_1 s, \infty, \infty, \frac{C_L L_R L_S^2 + L_L s + R_L}{C_L L_1 s^2 + 1}\right) \dots \dots$	3
$10.91 \text{INVALID-ORDER-91 } Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	3
\searrow	2
$10.92 \text{INVALID-ORDER-92 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ R_L + \frac{1}{C_L s}\right) $ $10.93 \text{INVALID-ORDER-93 } Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $	
$10.94 \text{INVALID-ORDER-94 } Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_b s^2 + 1}\right) \dots \dots$	9
$10.95 \text{INVALID-ORDER-95 } Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_4}{C_L L_L s^2 + 1}\right) \dots \dots$	
$10.96 \text{INVALID-ORDER-96} \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ L_L s + R_L + \frac{C_L s}{C_L s}\right) $ $10.96 \text{INVALID-ORDER-96} \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $	
$10.96 \text{INVALID-ORDER-96 } Z(s) = \begin{pmatrix} L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L R_L s^2 + L_L s + R_L} \end{pmatrix} $ $10.97 \text{INVALID-ORDER-97 } Z(s) = \begin{pmatrix} L_1 s, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \end{pmatrix} $	34
$10.97 \text{INVALID-ORDER-97 } Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L s^3 + L_L}{C_L L_L s^2 + 1}\right) \dots \dots$	34
$10.98 \text{INVALID-ORDER-98 } Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	
$10.99 \text{INVALID-ORDER-99 } Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots$	3
$10.10 \text{ @NVALID-ORDER-100 } Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right) \dots \dots$	
10.10INVALID-ORDER-101 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	3
10.102NVALID-ORDER-102 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	3
10.10 E NVALID-ORDER-103 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	3
10.104NVALID-ORDER-104 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	3
10.10 INVALID-ORDER-105 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	3
10.106NVALID-ORDER-106 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)$	3
10.10TNVALID-ORDER-107 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$	30

$10.10 \text{ ENVALID-ORDER-} 108 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \qquad \dots \qquad 3$	36
10.109NVALID-ORDER-109 $Z(s) = (L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s})$	36
10.110NVALID-ORDER-110 $Z(s) = (L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s})$	36
10.11INVALID-ORDER-111 $Z(s) = (L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$	36
10.112NVALID-ORDER-112 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	36
10.11 NVALID-ORDER-113 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots 3$	36
10.114NVALID-ORDER-114 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	36
10.11 INVALID-ORDER-115 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	36
10.116NVALID-ORDER-116 $Z(s) = (L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L)$	37
10.11 T NVALID-ORDER-117 $Z(s) = (L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s})$	37
$10.11 \&NVALID-ORDER-118 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \qquad . \qquad \qquad 3$	37
10.119NVALID-ORDER-119 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)$	37
10.120NVALID-ORDER-120 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$	37
$10.12 \text{INVALID-ORDER-} 121 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \ \dots $	37
10.122NVALID-ORDER-122 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	37
$10.12 \text{BNVALID-ORDER-} 123 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ \dots \qquad \qquad$	37
$10.12 \text{ INVALID-ORDER-} 124 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \ \dots $	37
$10.12 \text{INVALID-ORDER-} 125 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	37
$10.12 \text{ 6NVALID-ORDER-} 126 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ R_L\right) \qquad \qquad$	38
10.12 TNVALID-ORDER-127 $Z(s) = (L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s})$	38
$10.12 \text{\&NVALID-ORDER-} 128 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \qquad . \qquad $	38
10.129NVALID-ORDER-129 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_L s}, \infty, R_L + \frac{1}{C_L s}\right)$	38
$10.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_5 s + \frac{1}{C_5 s}\right) \dots \qquad 30.13 \text{ @NVALID-ORDER-} 130 \ Z(s) = \left(L_1 s, \ \infty, \ \Omega, \ \Omega, \ \Omega, \ \Omega, \ \Omega, \ \Omega,$	38
$10.13 \text{INVALID-ORDER-} 131 \ Z(s) = \left(L_1 s, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $	38
10.132NVALID-ORDER-132 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	38
10.13\(\text{2NVALID-ORDER-133} \(Z(s) = \left(L_1 s, \infty, \infty, \infty, \infty, \left(L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \] \tag{2.5}	38
10.134NVALID-ORDER-134 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	
10.13 INVALID-ORDER-135 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)'$	38
10.136NVALID-ORDER-136 $Z(s) = (L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L)$	
10.13 T NVALID-ORDER-137 $Z(s) = (L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{1}{C_L s})$	39
10.13\(\text{NVALID-ORDER-138}\(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}, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \qquad \qqquad \qqqqq \qqqqq \qqqqqq \qqqqqqqqqqqqqq	39
10.13 NVALID-ORDER-139 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L + \frac{1}{C_L s}\right)$	39
$10.14 \text{ @NVALID-ORDER-140 } 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}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $	39
$10.14 \text{INVALID-ORDER-} 141 \ 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}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) $	
$10.142 \text{NVALID-ORDER-} 142 \ 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}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $	39
$10.14 \text{ 2NVALID-ORDER-} 143 \ 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ \dots $	39
10.14 INVALID-ORDER-144 $Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	39
$10.14 \text{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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	39
10.146NVALID-ORDER-146 $Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$	40

10.14 TNVALID-ORDER-147 $Z(s) = \left(\begin{array}{c} \\ \end{array} \right)$	$\left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)$	40
10.14&NVALID-ORDER-148 $Z(s) = ($	$\left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$	40
10.149NVALID-ORDER-149 $Z(s) = ($	$\left(L_1 s, \ \infty, \ \infty, \ \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \ \infty, \ R_L + \frac{1}{C_L s}\right)$	40
10.15 0 NVALID-ORDER-150 $Z(s) = \left(\frac{1}{2}\right)^{-1}$	$\left(L_{1}s, \infty, \infty, \frac{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}{C_{4}L_{4}s^{2}+1}, \infty, L_{L}s+\frac{1}{C_{L}s}\right)$	40
10.15 I NVALID-ORDER-151 $Z(s) = ($	$\left(L_{1}s, \infty, \infty, \frac{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}{C_{4}L_{4}s^{2} + 1}, \infty, \frac{L_{L}s}{C_{L}L_{L}s^{2} + 1}\right)$	40
`	$\left(L_{1}s, \infty, \infty, \frac{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}{C_{4}L_{4}s^{2}+1}, \infty, L_{L}s+R_{L}+\frac{1}{C_{L}s}\right)$	40
`	$\left(L_{1}s, \ \infty, \ \infty, \ \frac{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}{C_{4}L_{4}s^{2}+1}, \ \infty, \ \frac{L_{L}R_{L}s}{C_{L}L_{L}R_{L}s^{2}+L_{L}s+R_{L}}\right)$	40
10.15 4 NVALID-ORDER-154 $Z(s) = \left(\frac{1}{2}\right)^{-1}$	$\left(L_{1}s, \infty, \infty, \frac{C_{4}L_{4}R_{4}s^{2} + L_{4}s + R_{4}}{C_{4}L_{4}s^{2} + 1}, \infty, \frac{C_{L}L_{L}R_{L}s^{2} + L_{L}s + R_{L}}{C_{L}L_{L}s^{2} + 1}\right)$	40
10.15 NVALID-ORDER-155 $Z(s) = \left(\frac{1}{2}\right)^{1/2}$	$\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}, \infty, \frac{R_{L}\left(C_{L}L_{L}s^{2} + 1\right)}{C_{L}L_{L}s^{2} + C_{L}R_{L}s + 1}\right) \dots $	40
10.15 6 NVALID-ORDER-156 $Z(s) = \left(\right.$	$\left(L_{1}s,\ \infty,\ \infty,\ \frac{R_{4}\left(C_{4}L_{4}s^{2}+1\right)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1},\ \infty,\ R_{L} ight)$	4.
•	$\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}, \infty, \frac{1}{C_L s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	4.
•	$\left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$	4.
· · · · · · · · · · · · · · · · · · ·	$\left(L_{1}s, \infty, \infty, \frac{R_{4}\left(C_{4}L_{4}s^{2}+1\right)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1}, \infty, R_{L}+\frac{1}{C_{L}s}\right)$	4.
· · · · · · · · · · · · · · · · · · ·	$\left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$	4
10.16INVALID-ORDER-161 $Z(s) = ($	$\left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)$	4
10.16 2 NVALID-ORDER-162 $Z(s) = \left(\frac{1}{2}\right)^{-1}$	$\left(L_1 s, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$	4.
`	$\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}, \infty, \frac{L_{L}R_{L}s}{C_{L}L_{L}R_{L}s^{2}+L_{L}s+R_{L}}\right) \dots $	4
10.16#NVALID-ORDER-164 $Z(s) = \left(\right.$	$\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}, \infty, \frac{C_{L}L_{L}R_{L}s^{2}+L_{L}s+R_{L}}{C_{L}L_{L}s^{2}+1}\right) \dots $	4
10.16 NVALID-ORDER-165 $Z(s) = \left(\frac{1}{2}\right)^{1/2}$	$\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}, \infty, \frac{R_{L}\left(C_{L}L_{L}s^{2}+1\right)}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}\right) \dots $	4:
10.16 NVALID-ORDER-166 $Z(s) = ($		42
	$\left(\frac{1}{C_1s}, \ \infty, \ \infty, \ R_4, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right)$	
10.16\(\mathbb{R}\) VALID-ORDER-168 $Z(s) = \Big($	$\left(\frac{1}{C_1s}, \infty, \infty, R_4, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)'$	4:
10.16 9 NVALID-ORDER-169 $Z(s) = \left(\begin{array}{c} \\ \end{array}\right)$	$\left\langle \frac{1}{C_1 s}, \; \infty, \; \infty, \; R_4, \; \infty, \; L_L s + R_L + \frac{1}{C_L s} \right\rangle$	4
	$\left(\frac{C_1 s}{C_1 s}, \infty, \infty, \frac{R_4}{R_4}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right)$	
	$\left(\frac{1}{C_1s}, \infty, \infty, R_4, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)$	
	$\left(\frac{1}{C_1s}, \infty, \infty, R_4, \infty, \frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}\right)^{\prime}$	
10.17 B NVALID-ORDER-173 $Z(s) = ($	$\left\langle rac{1}{C_1 s}, \infty, \infty, rac{1}{C_4 s}, \infty, rac{1}{C_L s} ight angle \ldots $	42
10.17 INVALID ORDER 174.7(c) $= 0$		
10.11#1 VALID-ORDER-114 $Z(s) = ($	$\left(rac{1}{C_{1s}},\infty,\infty,rac{1}{C_{4s}},\infty,R_L+rac{1}{C_{Ls}} ight)$	42
10.175NVALID-ORDER-175 $Z(s) = 0$	$\left\langle \frac{1}{C_{1}s}, \infty, \infty, \frac{1}{C_{4}s}, \infty, L_{L}s + \frac{1}{C_{L}s} \right\rangle$	4:
10.175NVALID-ORDER-175 $Z(s) = (10.176NVALID-ORDER-176 \ Z(s) = ($	$\left(\frac{1}{C_1s},\infty,\infty,\frac{1}{C_4s},\infty,L_Ls+\frac{1}{C_Ls}\right)$	4; 4;
10.175NVALID-ORDER-175 $Z(s) = (10.176$ NVALID-ORDER-176 $Z(s) = (10.175$ NVALID-ORDER-177 $Z(s) = ($	$\left(\frac{1}{C_1s}, \infty, \infty, \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)$	4; 4; 4;
10.17\(\) NVALID-ORDER-175\(Z(s) = \) (10.17\(\) NVALID-ORDER-176\(Z(s) = \) (10.17\(\) NVALID-ORDER-177\(Z(s) = \) (10.17\(\) NVALID-ORDER-178\(Z(s) = \) ($\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, L_{Ls} + \frac{1}{C_{Ls}}\right)$ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{L_{Ls}}{C_{LL_Ls^2+1}}\right)$ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, L_{Ls} + R_{L} + \frac{1}{C_{Ls}}\right)$ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{L_{LR_{Ls}}}{C_{LL_RR_{Ls}^2+L_Ls+R_L}}\right)$	4; 4; 4; 4;
10.17 5 NVALID-ORDER-175 $Z(s) = (10.175NVALID-ORDER-176 Z(s) = (10.175NVALID-ORDER-177 Z(s) = (10.175NVALID-ORDER-177 Z(s) = (10.175NVALID-ORDER-178 Z(s) = (10.175NVALID-ORDER-179 Z(s) = (10.175NVALID-179 Z(s) = ($	$\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, L_L s + \frac{1}{C_{Ls}}\right) \dots $ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots $ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{C_L L_R R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots $	4; 4; 4; 4;
10.175NVALID-ORDER-175 $Z(s) = (10.175NVALID-ORDER-176 \ Z(s) = (10.175NVALID-ORDER-177 \ Z(s) = (10.175NVALID-ORDER-178 \ Z(s) = (10.175NVALID-ORDER-179 \ Z(s) = (10.175NVALID-ORDER-180 \ Z(s) = (10.185NVALID-ORDER-180 \ Z(s) = ($	$ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, L_{Ls} + \frac{1}{C_{Ls}}\right) \\ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{L_{Ls}}{C_{LLs^2+1}}\right) \\ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, L_{Ls} + R_L + \frac{1}{C_{Ls}}\right) \\ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{L_{LR_{Ls}}}{C_{LL_{LR_{Ls}^2+L_{Ls}+R_L}}} \\ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{C_{LL_{R_{Ls}^2+L_{Ls}+R_L}}}{C_{LL_{Ls}^2+1}} \\ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{R_L(C_LL_s^2+1)}{C_LL_s^2+C_{RLs}+1} \\ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{R_L(C_LL_s^2+1)}{C_LL_s^2+C_{LR_{Ls}}+1} \\ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{R_L(C_LL_s^2+1)}{C_LL_s^2+C_LR_{Ls}+1} \\ \frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{1}{C_{4s}}$	4; 4; 4; 4; 4;
10.175NVALID-ORDER-175 $Z(s) = (10.175NVALID-ORDER-176 \ Z(s) = (10.175NVALID-ORDER-177 \ Z(s) = (10.175NVALID-ORDER-178 \ Z(s) = (10.175NVALID-ORDER-179 \ Z(s) = (10.185NVALID-ORDER-180 \ Z(s) = (10.185NVALID-ORDER-181 \ Z(s) = ($	$\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, L_L s + \frac{1}{C_{Ls}}\right) \dots $ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots $ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $ $\left(\frac{1}{C_{1s}}, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{C_L L_R R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots $	4; 4; 4; 4; 4; 4; 4;

$10.18 \text{BNVALID-ORDER-} 183 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) $
$10.18 \text{INVALID-ORDER-} 184 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $
$10.18 \text{INVALID-ORDER-} 185 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ \dots $
10.186NVALID-ORDER-186 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$
$10.18 \text{INVALID-ORDER-} 187 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ \dots $
10.18 NVALID-ORDER-188 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$
$10.18 \text{ @NVALID-ORDER-189 } Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right) \qquad . \qquad $
10.19 0 NVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$
$10.19INVALID-ORDER-191 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $
10.192NVALID-ORDER-192 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$
$10.19 \text{ENVALID-ORDER-193 } Z(s) = \left(\frac{1}{C_{1s}}, \infty, \infty, R_4 + \frac{1}{C_{4s}}, \infty, L_L s + R_L + \frac{1}{C_{Ls}}\right) $
$10.19 \text{INVALID-ORDER-} 194 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
10.19 INVALID-ORDER-195 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$
$10.19 \text{ (ENVALID-ORDER-196 } Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$10.19 \text{INVALID-ORDER-} 197 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ R_L\right) \ \dots $
$10.19 \&NVALID-ORDER-198 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s}\right) \qquad . \qquad $
$10.19 \text{ @NVALID-ORDER-199 } Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right) $
$10.20 \text{ DNVALID-ORDER-} 200 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right) $
$10.20 \text{INVALID-ORDER-} 201 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $
$10.20 \text{ 2NVALID-ORDER-} 202 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) $
10.20 RNVALID-ORDER-203 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.204\text{NVALID-ORDER-}204\ Z(s) = \left(\frac{1}{C_1 s},\ \infty,\ \infty,\ L_4 s + \frac{1}{C_4 s},\ \infty,\ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \qquad . \qquad $
$10.20 \text{Invalid-order-} 205 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $
$10.20 \text{ ENVALID-ORDER-} 206 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$10.20 \text{FNVALID-ORDER-} 207 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ R_L\right) $
$10.20 \text{\&NVALID-ORDER-} 208 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{1}{C_L s}\right) \ \dots $
$10.20 \text{ @NVALID-ORDER-209 } Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right) $
$10.21 \text{@NVALID-ORDER-} 210 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ R_L + \frac{1}{C_L s}\right) $
$10.21\text{INVALID-ORDER-}211\ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $
$10.212\text{NVALID-ORDER-}212\ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)' \dots \dots$
10.21 ENVALID-ORDER-213 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots $
$10.21 \text{ INVALID-ORDER-} 214 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ \dots $
$10.215\text{NVALID-ORDER-}215 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \ . $
$10.21 \text{ 6NVALID-ORDER-} 216 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$10.21\text{ INVALID-ORDER-}217 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ R_L\right) $
$10.21 \text{\&NVALID-ORDER-} 218 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s}\right) \dots $
$10.21 \text{ @NVALID-ORDER-219 } Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right) \qquad . \qquad $
$10.22\text{@NVALID-ORDER-}220 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right) \ \dots $
10.22INVALID-ORDER-221 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$

10.22 2 NVALID-ORDER-222 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	47
10.22\(\text{2NVALID-ORDER-223} \(Z(s) = \left(\frac{1}{C_1 s}, \infty, \i	47
10.224NVALID-ORDER-224 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	48
10.22 INVALID-ORDER-225 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	48
10.226NVALID-ORDER-226 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	48
10.22 T NVALID-ORDER-227 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L\right)$	48
10.22\(\text{NVALID-ORDER-228} \(Z(s) = \left(\frac{1}{C_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}, \infty, \infty, \frac{1}{C_L s} \right) \tag{1.5}	48
$10.22 \text{ @NVALID-ORDER-} 229 \ 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}, \ \infty, \ \frac{\dot{R}_L}{C_L R_L s + 1}\right) \ \dots \ $	48
10.23 INVALID-ORDER-230 $Z(s) = \left(\frac{1}{C_{1s}}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L + \frac{1}{C_L s}\right)$	48
10.23INVALID-ORDER-231 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, L_L s + \frac{1}{C_L s}\right)$	48
$10.232 \text{NVALID-ORDER-} 232 \ 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}}, \ \infty, \ \frac{L_{L}s}{C_{L}L_{L}s^{2} + 1}\right) \dots $	48
10.23\(\text{2NVALID-ORDER-233} \(Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \infty, \left(L_L s + R_L + \frac{1}{C_L s} \right) \] \tag{2.5}	48
10.23 INVALID-ORDER-234 $Z(s) = \left(\frac{1}{C_{1s}}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	49
10.23 INVALID-ORDER-235 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	49
$10.236 \text{NVALID-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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	49
$10.23 \text{INVALID-ORDER-} 237 \ Z(s) = \left(\underbrace{\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}, \ \infty, \ R_L \right) \ \dots \ $	49
10.23\(\text{NVALID-ORDER-238} \(Z(s) = \begin{pmatrix} \frac{1}{C_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}, \infty, \infty, \frac{1}{C_L s} \end{pmatrix} \] \tag{10.23\(\text{NVALID-ORDER-238} \) \(Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, \infty, \infty, \infty, \frac{1}{C_L s} \end{pmatrix} \]	49
$10.23 \text{ (NVALID-ORDER-239 } 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}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \ \dots \ $	49
$10.24 \text{ @NVALID-ORDER-} 240 \ 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}, \ \infty, \ R_L + \frac{1}{C_L s}\right) \ \dots $	49
$10.24 \text{INVALID-ORDER-} 241 \ 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}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $	49
$10.242 \text{NVALID-ORDER-} 242 \ 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}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $	49
$10.24 \text{ INVALID-ORDER-} 243 \ 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}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \dots $	49
$10.24 \text{INVALID-ORDER-} 244 \ 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	50
$10.24 \text{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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots $	50
$10.24 \text{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}, \ \infty, \ \frac{C_{L}L_{L}R_{L}s^{2} + L_{L}s + R_{L}}{C_{L}L_{L}s^{2} + 1}\right) $ $10.24 \text{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}, \ \infty, \ \frac{R_{L}(C_{L}L_{L}s^{2} + 1)}{C_{L}L_{L}s^{2} + C_{L}R_{L}s + 1}\right) $	50
$10.24\text{INVALID-ORDER-}247 \ 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}, \ \infty, \ R_L\right) \dots $	50
$10.24 \$NVALID-ORDER-248 \ 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}, \ \infty, \ \frac{1}{C_L s}\right) \ \dots $	50
$10.24 \mathfrak{P} \text{NVALID-ORDER-} 249 \ 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}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \dots $	
$10.25 \text{@NVALID-ORDER-} 250 \ 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}, \ \infty, \ R_L + \frac{1}{C_L s}\right) \dots $	
$10.25 \text{INVALID-ORDER-} 251 \ Z(s) = \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \ . \dots \dots$	
$10.25 \text{ 2NVALID-ORDER-} 252 \ 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}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad . \qquad $	
$10.25 \text{BNVALID-ORDER-} 253 \ 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}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)\right) . \ldots $	
$10.25 \text{ 1 INVALID-ORDER-254 } 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \qquad . \qquad $	51
$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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \qquad \dots $	51
$10.256 \text{NVALID-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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)^{\prime} \ \dots $	
$10.25 \text{INVALID-ORDER-} 257 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ R_L\right) \dots \qquad \qquad$	51

$10.25 \text{\&NVALID-ORDER-} 258 \ Z(s) = \left(\frac{R_1}{C \cdot R \cdot s + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ L_L s + \frac{1}{C \cdot s}\right) \ \dots $
$10.25 \text{ (Collision)}$ $10.25 \text{ (NVALID-ORDER-259 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots \dots$
10.26 D NVALID-ORDER-260 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.26 \text{INVALID-ORDER-} 261 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) $
$10.26 \text{ 2NVALID-ORDER-} 262 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \qquad . \qquad $
$10.26 \text{\&NVALID-ORDER-} 263 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)^{-1} \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.26 \text{INVALID-ORDER-} 264 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_4 s}\right) \dots $
$10.26 \text{5NVALID-ORDER-} 265 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right) \dots $
$10.26 \text{ (INVALID-ORDER-266 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $
$10.26 \text{ TNVALID-ORDER-} 267 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)' \dots $
10.26 NVALID-ORDER-268 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.26 \text{ @NVALID-ORDER-} 269 \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \qquad . \qquad \qquad . \qquad \qquad . \qquad . \qquad . \qquad . \qquad . \qquad . \qquad $
$10.27 \text{@NVALID-ORDER-} 270 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $
$10.27 \text{INVALID-ORDER-} 271 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ . $
10.272NVALID-ORDER-272 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$
10.27 B NVALID-ORDER-273 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$
10.274NVALID-ORDER-274 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)'$
10.27 INVALID-ORDER-275 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$.
$10.276 \text{NVALID-ORDER-} 276 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.27\text{INVALID-ORDER-}277\ Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \infty,\ \frac{R_4}{C_4R_4s+1},\ \infty,\ \frac{C_LL_RL_s^2+L_Ls+R_L}{C_LL_s^2+1}\right) \qquad . \qquad $
10.27 NVALID-ORDER-278 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_2}{C_4 R_4 s + 1}, \infty, \frac{R_2}{C_4 R_4 s + 1}, \infty, \frac{R_2}{C_4 R_4 s + 1}\right)$
10.27 9 NVALID-ORDER-279 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$
10.28 INVALID-ORDER-280 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$
10.28INVALID-ORDER-281 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$
10.282NVALID-ORDER-282 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$
10.28 INVALID-ORDER-283 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)^2$.
10.28 INVALID-ORDER-284 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.28 \text{INVALID-ORDER-} 285 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.28 \text{ INVALID-ORDER-} 285 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $ $10.28 \text{ INVALID-ORDER-} 286 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $ 54
$10.28 \text{INVALID-ORDER-} 287 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \qquad . $
$10.28\$\text{NVALID-ORDER-}288\ Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \infty,\ \infty,\ L_4s + \frac{1}{C_4s},\ \infty,\ R_L\right) \qquad . \qquad $
$10.28 \text{ @NVALID-ORDER-} 289 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.29 \text{@NVALID-ORDER-} 290 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \ \dots $
$10.29 \text{INVALID-ORDER-} 291 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right) $
10.29 2 NVALID-ORDER-292 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$
$10.29 \text{ INVALID-ORDER-} 293 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)' \qquad . \qquad $
10.29\text{INVALID-ORDER-294} $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_L s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.29 \text{ INVALID-ORDER-} 295 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \qquad . \qquad $
10.29 6 NVALID-ORDER-296 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 55

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10.29TNVALID-ORDER-297 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.29\( \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 L_4 s^2 + 1}, \infty, R_L \right) \\ \tag{1...}
10.299NVALID-ORDER-299 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}, \infty, \frac{1}{C_4 s}\right) \dots
10.30 NVALID-ORDER-300 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{R_L}{C_4R_1s+1}\right).
10.30INVALID-ORDER-301 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}, \infty, R_L + \frac{1}{C_{L,s}}\right)
10.302NVALID-ORDER-302 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.30 INVALID-ORDER-303 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}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\right)
10.304NVALID-ORDER-304 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.30 INVALID-ORDER-305 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.30TNVALID-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}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.30\( \text{NVALID-ORDER-308} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \infty, \frac{L_4 s + R_4 + \frac{1}{C_4 s}}{C_4 s}, \infty, \frac{R_L}{R_L} \right) \\ \tag{1.5}
10.309NVALID-ORDER-309 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_{L,s}}\right) . . .
10.31 INVALID-ORDER-310 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_4 R_4 s + 1}\right)
10.31INVALID-ORDER-311 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_4 s}\right)
10.312NVALID-ORDER-312 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_4 s}\right)
10.31 NVALID-ORDER-313 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\right) . . . .
10.314NVALID-ORDER-314 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_1 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.31 INVALID-ORDER-315 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\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}, \infty, \frac{C_L L_R L_s^2 + L_L s + R_L}{C_T L_T s^2 + 1}\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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.318NVALID-ORDER-318 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}, \infty, R_L\right) \dots
10.319NVALID-ORDER-319 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}, \infty, \frac{1}{C_L s}\right).
10.320NVALID-ORDER-320 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.32INVALID-ORDER-321 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}, \infty, R_L + \frac{1}{C_L s}\right)
10.322NVALID-ORDER-322 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.32\(\text{NVALID-ORDER-323}\) 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}, \, \infty, \, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots
10.324NVALID-ORDER-324 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.32 INVALID-ORDER-325 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.32 \text{ (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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \right)
10.32\text{INVALID-ORDER-}327\ 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},\ \infty,\ \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.32 NVALID-ORDER-328 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}, \infty, R_L\right)
10.329NVALID-ORDER-329 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}, \infty, \frac{1}{C_{I.S}}\right)
10.330NVALID-ORDER-330 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}, \infty, \frac{R_L}{C_1 R_1 s + 1}\right)
10.33INVALID-ORDER-331 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}, \infty, R_L + \frac{1}{C_L s}\right)
10.332NVALID-ORDER-332 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.33\(\text{NVALID-ORDER-333}\) 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}, \, \infty, \, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.334NVALID-ORDER-334 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.33 INVALID-ORDER-335 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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$10.33 \text{ (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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \qquad . \qquad $	(
$10.33 \text{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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots $	(
10.33 NVALID-ORDER-338 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, R_L\right)$.	(
10.33 9 NVALID-ORDER-339 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$	(
$10.34 \text{ @NVALID-ORDER-340 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \infty, \ \infty, \ \frac{R_4 \left(C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \infty, \ \frac{R_L}{C_L R_L s + 1} \right) \qquad . \qquad 6$	(
$10.34 \text{INVALID-ORDER-341 } 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}, \ \infty, \ R_L + \frac{1}{C_L s} \right) $	(
$10.34 \text{ 2NVALID-ORDER-342 } 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}, \ \infty, \ L_L s + \frac{1}{C_L s} \right) $	(
$10.34 \text{ INVALID-ORDER-343 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)' \dots \dots$	(
$10.34 \text{INVALID-ORDER-344} \ 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}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \dots $	(
$10.34 \text{5NVALID-ORDER-345} \ 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ \dots $	(
$10.34 \text{ (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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots $	(
$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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)' \ \dots $	(
$10.34 \text{\&NVALID-ORDER-348 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L\right) \dots \qquad $	(
$10.34 \text{ @NVALID-ORDER-349 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right) \qquad . \qquad \qquad 6$	1
10.35 0 NVALID-ORDER-350 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)'$	1
10.35INVALID-ORDER-351 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$,[
10.35PNVALID-ORDER-352 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	ı.İ
10.35 RNVALID-ORDER-353 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots 6$	1
10.354NVALID-ORDER-354 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	1
$10.35 \text{INVALID-ORDER-355 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right) \dots $	1
$10.35 \text{ (ENVALID-ORDER-356 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right) \qquad	
10.35TNVALID-ORDER-357 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$	į
10.35 NVALID-ORDER-358 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)'$,[
10.35 INVALID-ORDER-359 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	6
$10.36 \text{@NVALID-ORDER-360 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_L s}, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \qquad . \qquad 6$	
$10.36\text{INVALID-ORDER-361 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots	ز
$10.36 2 \text{NVALID-ORDER-} 362 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $	6
10.36 NVALID-ORDER-363 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$	
10.36\PVALID-ORDER-364 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$	
$10.36 \text{ Invalid-order-} 365 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \ \dots \qquad 6$	6
$10.36 \text{ 6NVALID-ORDER-} 366 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \dots $	
$10.36\text{TNVALID-ORDER-}367 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	
$10.36 \text{NVALID-ORDER-} 368 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s+1}, \ \infty, \ \frac{C_L L_R L_S^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots	
$10.36 \text{ (DVALID-ORDER-369 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) $	
$10.370 \text{NVALID-ORDER-} 370 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s}\right) \ \dots \qquad 6$	
$10.37 \text{INVALID-ORDER-371 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 + \frac{1}{C_4 s}}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right) $	
$0 = \left(\frac{1}{C_1 s}, \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_4 s$	٠

10.372NVALID-ORDER-372 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$
10.37\$NVALID-ORDER-373 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$
10.37 INVALID-ORDER-374 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ 63
10.37 INVALID-ORDER-375 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 63
$10.376 \text{NVALID-ORDER-376} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.37\text{INVALID-ORDER-377 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \right) $
10.37\(\text{8NVALID-ORDER-378} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) \tag{64}
10.37 9 NVALID-ORDER-379 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)$
10.38@NVALID-ORDER-380 $Z(s) = (R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s})$
$10.38 \text{INVALID-ORDER-381 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right) $
10.382NVALID-ORDER-382 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$
10.38\(\text{SNVALID-ORDER-383} \(Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \inf
10.384NVALID-ORDER-384 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$
10.38 INVALID-ORDER-385 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.38 \text{ 6} \text{NVALID-ORDER-386 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) . \tag{65}$
10.38INVALID-ORDER-387 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 65
10.38\text{NVALID-ORDER-388 } $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right)$ 65
10.38 Q NVALID-ORDER-389 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$
10.39@NVALID-ORDER-390 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)$
10.39INVALID-ORDER-391 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$
10.392NVALID-ORDER-392 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)$
10.39 ENVALID-ORDER-393 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$
10.394NVALID-ORDER-394 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$
10.39 INVALID-ORDER-395 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.39 \text{ (INVALID-ORDER-396 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.39 \text{INVALID-ORDER-} 397 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \right) $
10.39 INVALID-ORDER-398 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
10.39 NVALID-ORDER-399 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$
10.40 INVALID-ORDER-400 $Z(s) = (R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s})$
10.40INVALID-ORDER-401 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$
10.40 2NVALID-ORDER-402 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$
10.40 \$NVALID-ORDER-403 $Z(s) = (R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s})$
10.404NVALID-ORDER-404 $Z(s) = (R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$
10.40 INVALID-ORDER-405 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.40 \text{ ENVALID-ORDER-406 } Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_{4s}}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.40 \text{ INVALID-ORDER-407 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $
10.40 NVALID-ORDER-408 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
$10.40 \text{ (NVALID-ORDER-409 } 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}, \infty, R_L\right) $
$10.41 \text{ (NVALID-ORDER-410 } 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}, \ \infty, \ \frac{1}{C_L s}\right) $
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10.41INVALID-ORDER-411 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{R_L}{C_L R_L s + 1}\right) . . . . . .
10.412NVALID-ORDER-412 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}, \infty, R_L + \frac{1}{C_L s}\right)
10.418NVALID-ORDER-413 Z(s) = \left(R_1 + \frac{1}{C_{18}}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, L_L s + \frac{1}{C_{L8}}\right)
10.414NVALID-ORDER-414 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots
10.41 INVALID-ORDER-415 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.416NVALID-ORDER-416 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.41TNVALID-ORDER-417 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.41 \text{\&NVALID-ORDER-418 } 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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.419NVALID-ORDER-419 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}, \infty, R_L\right) \dots
10.420NVALID-ORDER-420 Z(s) = \left(R_1 + \frac{1}{C_{1.8}}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_{1.8}}\right)
10.42INVALID-ORDER-421 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.422NVALID-ORDER-422 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}, \infty, R_L + \frac{1}{C_4 s}\right)
10.42\( \text{NVALID-ORDER-423} \( Z(s) = \left( R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \infty L_L s + \frac{1}{C_L s} \right) \)
10.424NVALID-ORDER-424 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.42 INVALID-ORDER-425 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.426NVALID-ORDER-426 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.42 \text{TNVALID-ORDER-} 427 \ 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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_7 L_7 L_7 s^2 + 1} \right)
10.42\( \text{NVALID-ORDER-428} \) 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}, \ \infty, \ \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \left( \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s +
10.429NVALID-ORDER-429 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}, \infty, R_L\right).
10.430NVALID-ORDER-430 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}, \infty, \frac{1}{C_L s}\right)
10.43INVALID-ORDER-431 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.432NVALID-ORDER-432 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}, \infty, R_L + \frac{1}{C_L s}\right)
10.43BNVALID-ORDER-433 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.434NVALID-ORDER-434 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.43 INVALID-ORDER-435 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.436NVALID-ORDER-436 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.43TNVALID-ORDER-437 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}, \infty, \frac{C_L L_R R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.43\( \text{NVALID-ORDER-438} \) 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}, \, \infty, \, \frac{R_L \left( C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \right)
10.439NVALID-ORDER-439 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{1}{C_1 s}\right) \ldots \ldots
10.440NVALID-ORDER-440 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 10.44INVALID-ORDER-441 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)
10.442NVALID-ORDER-442 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right) \dots
10.44\(\mathbb{Z}\)NVALID-ORDER-443\(Z(s) = \left(L_1 s + \frac{1}{C_{1}s}\), \infty, \infty, \infty, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right) \quad \tag{\cdots} \quad \tag{\cdots}.
10.44\(\text{4NVALID-ORDER-444}\) Z(s) = \left(L_1 s + \frac{1}{C_{1.8}}, \, \infty, \, \infty, \, R_4, \, \infty, \, L_L s + R_L + \frac{1}{C_{1.8}}\right) \, \dots \, \dots
10.44 INVALID-ORDER-445 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.446NVALID-ORDER-446 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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$10.44\text{INVALID-ORDER-}447\ Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \infty,\ R_4,\ \infty,\ \frac{R_L\left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots $
10.44\(\text{8NVALID-ORDER-448}\) $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L\right)$
$10.44 \mathfrak{D} \text{NVALID-ORDER-} 449 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s}\right) $
$10.45 \text{@NVALID-ORDER-} 450 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_L R_L s + 1}\right) \qquad . \qquad $
$10.45 \text{INVALID-ORDER-} 451 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right) $
$10.45 \text{2NVALID-ORDER-} 452 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $
10.45 R NVALID-ORDER-453 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_L L_L s^2}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$
10.45\(\text{4NVALID-ORDER-454}\(Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \infty, \left(L_L s + R_L + \frac{1}{C_L s} \right) \right]. \qquad \tag{72}
$10.45 \text{INVALID-ORDER-} 455 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) $
10.45 6 NVALID-ORDER-456 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_L s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$
$10.45\text{INVALID-ORDER-}457\ Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \infty,\ \frac{1}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$10.45 \$NVALID-ORDER-458 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ R_L\right) $
10.45 NVALID-ORDER-459 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$
10.46 INVALID-ORDER-460 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$
10.46INVALID-ORDER-461 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$
10.462NVALID-ORDER-462 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$
$10.46 \text{ \ensuremath{B}NVALID-ORDER-} 463 \ensuremath{\ensuremath{Z}(s)} = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} \right) \qquad . \qquad $
10.46\(\text{4NVALID-ORDER-464}\(Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \infty, \infty, \left(L_L s + R_L + \frac{1}{C_L s} \right) \tag{5.5}
$10.46 \text{Invalid-Order-} 465 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
10.46 NVALID-ORDER-466 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$
$10.46\text{ INVALID-ORDER-467 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) $
$10.46 \$NVALID-ORDER-468 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ R_L\right) $
$10.46 \mathfrak{P} \text{NVALID-ORDER-469 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s} \right) $
10.47 0 NVALID-ORDER-470 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$
10.47INVALID-ORDER-471 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_4 + \frac{1}{C_L s}\right)$.
10.472NVALID-ORDER-472 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$
10.47\(\text{RNVALID-ORDER-473} \(Z(s) = \) \(\begin{align*} \lambda_1 s + \frac{1}{C_1 s}, & \infty, & \infty, & \infty, & \infty, & \frac{L_L s}{C_L L_L s^2 + 1} \) \end{align*} \tag{74}
10.47\(\text{INVALID-ORDER-474}\(Z(s) = \)\(\text{L}_1 s + \frac{1}{C_1 s}, \infty, \
$10.47 \text{ Invalid-Order-475 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.47 \text{ ENVALID-ORDER-476 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $
$10.47\text{INVALID-ORDER-477 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$10.47 \$NVALID-ORDER-478 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ R_L\right) $
$10.47 \mathfrak{D} \text{NVALID-ORDER-479 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right) \dots $
10.48 INVALID-ORDER-480 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$
10.48INVALID-ORDER-481 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$
$10.482\text{NVALID-ORDER-}482\ Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \infty,\ \infty,\ L_4 s + \frac{1}{C_4 s},\ \infty,\ L_L s + \frac{1}{C_L s}\right) \ \dots $
$10.48 \mathbb{R} \text{NVALID-ORDER-483} \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) $
$10.48 \text{ INVALID-ORDER-} 484 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $
$10.48 \text{INVALID-ORDER-485 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $

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10.486NVALID-ORDER-486 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.48TNVALID-ORDER-487 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.48\( \text{NVALID-ORDER-488} \( Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \, \infty, \, \infty, \, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \, \infty, \, R_L \right) ...
10.489NVALID-ORDER-489 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_4 s}\right) . . .
10.49@NVALID-ORDER-490 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.49INVALID-ORDER-491 Z(s) = (L_1 s + \frac{1}{C_{1} s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s})
10.492NVALID-ORDER-492 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_1 L_1 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)
10.49 INVALID-ORDER-493 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\right)
10.494NVALID-ORDER-494 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.49 INVALID-ORDER-495 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}\right)
10.496NVALID-ORDER-496 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_2 L_2 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_2 L_2 s^2 + 1}\right)
10.49 INVALID-ORDER-497 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.49\( \text{NVALID-ORDER-498} \( Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \infty, \in
10.499NVALID-ORDER-499 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right).
10.50 INVALID-ORDER-500 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right).
10.50INVALID-ORDER-501 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
10.502NVALID-ORDER-502 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 10.50 NVALID-ORDER-503 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_1 s}, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right) . . .
10.504NVALID-ORDER-504 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.50 INVALID-ORDER-505 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L s}\right)
10.506NVALID-ORDER-506 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.50 INVALID-ORDER-507 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.50 NVALID-ORDER-508 Z(s) = \left(L_1 s + \frac{1}{C_{18}}, \infty, \infty, \frac{L_4 R_{48}}{C_4 L_4 R_{48} s^2 + L_4 s + R_4}, \infty, R_L\right).
10.509NVALID-ORDER-509 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}, \infty, \frac{1}{C_4 s}\right)
10.510NVALID-ORDER-510 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.51INVALID-ORDER-511 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}, \infty, R_L + \frac{1}{C_L s}\right)
10.512NVALID-ORDER-512 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.51BNVALID-ORDER-513 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}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\right) . . .
10.514NVALID-ORDER-514 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.51 INVALID-ORDER-515 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.516NVALID-ORDER-516 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.51TNVALID-ORDER-517 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.51\( \text{NVALID-ORDER-518} \( Z(s) = \left( L_1 s + \frac{1}{C_{12}}, \, \infty, \, \infty, \, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \, \infty, \, R_L \right) 
10.519NVALID-ORDER-519 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}, \infty, \frac{1}{C_L s})
10.520NVALID-ORDER-520 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}, \infty, \frac{R_L}{C_L R_L s + 1})
10.52INVALID-ORDER-521 Z(s) = (L_1 s + \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}, \infty, R_L + \frac{1}{C_L s})
10.522NVALID-ORDER-522 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.528NVALID-ORDER-523 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.524NVALID-ORDER-524 Z(s) = \left(L_1 s + \frac{1}{C_{1s}}, \infty, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_{1s}}\right)
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$10.525 \text{NVALID-ORDER-} 525 \ 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.52 \text{ (INVALID-ORDER-526 } 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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $
$10.52\text{INVALID-ORDER-}527 \ 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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots $
$10.52 \text{NVALID-ORDER-} 528 \ 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}, \ \infty, \ R_L\right) $
$10.529 \text{NVALID-ORDER-529} \ 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}, \ \infty, \ \frac{1}{C_L s}\right) \dots $
$10.53 \text{ DNVALID-ORDER-530 } 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}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) $
$10.53 \text{INVALID-ORDER-531 } 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}, \ \infty, \ R_L + \frac{1}{C_L s} \right) $
$10.532\text{NVALID-ORDER-}532\ 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},\ \infty,\ L_L s + \frac{1}{C_L s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$10.53 \text{ENVALID-ORDER-533} \ 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}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $
$10.534\text{NVALID-ORDER-}534 \ 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}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $
$10.535\text{NVALID-ORDER-}535 \ 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $
$10.536\text{NVALID-ORDER-}536\ 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},\ \infty,\ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.53\text{INVALID-ORDER-537 } 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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ \dots $
$10.53 \text{\&NVALID-ORDER-} 538 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{1}{C_L s}\right) \dots $
$10.53 \mathfrak{P} \text{NVALID-ORDER-} 539 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \ \dots $
10.54 ONVALID-ORDER-540 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$
$10.54 \text{INVALID-ORDER-} 541 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \qquad \dots $
$10.54 \text{ 2NVALID-ORDER-} 542 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)' \dots $
$10.54 \text{BNVALID-ORDER-} 543 \ Z(s) = \left(\begin{array}{c} L_1 s \\ \overline{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ L_L s + R_L + \frac{1}{C_L s} \end{array}\right) \dots $
$10.54 \text{Invalid-order-} 544 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $
$10.54 \text{INVALID-ORDER-} 545 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \dots $
$10.546 \text{NVALID-ORDER-} 546 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ . $
$10.54 \text{ INVALID-ORDER-} 547 \ Z(s) = \left(\begin{array}{c} L_1 s \\ \overline{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ R_L \right) \qquad $
$10.54 \$NVALID-ORDER-548 \ Z(s) = \left(\frac{L_1s}{C_1L_2s^2+1}, \ \infty, \ \infty, \ \frac{1}{C_2R_2s^2+1}\right) \dots \qquad 82$
$10.549 \text{NVALID-ORDER-} 549 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right) $
$10.55 \text{ONVALID-ORDER-} 550 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $
$10.55\text{INVALID-ORDER-}551\ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1},\ \infty,\ \infty,\ \frac{1}{C_LL}s,\ \infty,\ \frac{L_Ls}{C_LL_Ls^2+1}\right) \ldots $
$ (C_1L_1s^2+1) \times (C_2L_Ls^2+1) $ $ 10.552NVALID-ORDER-552 \ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right) $
10.55 RNVALID-ORDER-553 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$10.55 \text{INVALID-ORDER-555} \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$10.55 \text{ (INVALID-ORDER-556 } 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}, \ \infty, \ R_L\right) $
$10.55 \text{INVALID-ORDER-} 557 \ 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}, \ \infty, \ \frac{1}{C_T s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$10.55 \&NVALID-ORDER-558 \ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \ \infty, \ \infty, \ \frac{R_4}{C_4R_4s+1}, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) $
$10.55 \text{ @NVALID-ORDER-559 } Z(s) = \left(\frac{L_1 s}{C_1 L_2 s^2 + 1}, \infty, \infty, \frac{R_4}{C_2 R_2 s + 1}, \infty, R_L + \frac{1}{C_2 s}\right) \dots
$10.56 \text{ONVALID-ORDER-} 560 \ 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}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $

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10.56INVALID-ORDER-561 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) . . . . . . . .
10.562NVALID-ORDER-562 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.56\(\mathbb{Z}\)NVALID-ORDER-563 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.564NVALID-ORDER-564 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.56 INVALID-ORDER-565 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.56 INVALID-ORDER-566 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L\right) \dots \dots
10.56 INVALID-ORDER-567 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\right) \dots
10.56\( \text{NVALID-ORDER-568} \( Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \frac{R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_1 R_1 s + 1} \right) \)
10.569NVALID-ORDER-569 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_4 s}\right)
10.570NVALID-ORDER-570 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_4 s}\right)
10.57INVALID-ORDER-571 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right) . . . .
10.572NVALID-ORDER-572 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.578NVALID-ORDER-573 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.574NVALID-ORDER-574 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L s^2}{C_L L_L s^2 + 1}\right)
10.575NVALID-ORDER-575 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.576NVALID-ORDER-576 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)...
10.57 INVALID-ORDER-577 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\right) \dots
10.57\( \) NVALID-ORDER-578 Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_7 R_7 s + 1} \right).
10.579NVALID-ORDER-579 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_4 s}\right)
10.58 INVALID-ORDER-580 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
10.58INVALID-ORDER-581 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_7 L_7 s^2 + 1}\right)
10.582NVALID-ORDER-582 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_4 s}\right)
10.58 INVALID-ORDER-583 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L s}\right)
10.584NVALID-ORDER-584 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_1 L_1 L_2 s^2 + 1}\right)
10.58 INVALID-ORDER-585 Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \infty, \infty, L_{4}s + \frac{1}{C_{4}s}, \infty, \frac{R_{L}(C_{L}L_{L}s^{2}+1)}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}\right)
10.586NVALID-ORDER-586 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}, \infty, R_L\right).
10.58TNVALID-ORDER-587 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_2 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right) \dots
10.58\( \text{NVALID-ORDER-588} \( Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_4 R_1 s + 1} \right) \)
10.589NVALID-ORDER-589 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}, \infty, R_L + \frac{1}{C_L s}\right)
10.59@NVALID-ORDER-590 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.59INVALID-ORDER-591 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}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\right)
10.592NVALID-ORDER-592 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.59 INVALID-ORDER-593 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.594NVALID-ORDER-594 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
10.59 INVALID-ORDER-595 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.596NVALID-ORDER-596 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}, \infty, R_L\right) \dots
10.59 INVALID-ORDER-597 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}, \infty, \frac{1}{C_4 s}\right) . . .
10.599NVALID-ORDER-599 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}, \infty, R_L + \frac{1}{C_4 s}\right)
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10.600NVALID-ORDER-600 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}, \infty, L_L s + \frac{1}{C_L s}\right) . . . . . . .
                                                                                  \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\right)
                                                                                  \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
10.60 NVALID-ORDER-603 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                  \left(\frac{L_1s}{C_1L_1s^2+1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
                                                                                    \frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \infty, \infty, L_{4}s+R_{4}+\frac{1}{C_{4}s}, \infty, \frac{R_{L}(C_{L}L_{L}s^{2}+1)}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}
10.60 INVALID-ORDER-606 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}, \infty, R_L\right) \dots
10.60 INVALID-ORDER-607 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}, \infty, \frac{1}{C_L s}\right)
10.60 NVALID-ORDER-608 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                  \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}, \infty, R_L + \frac{1}{C_L s}\right)
10.610NVALID-ORDER-610 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.61INVALID-ORDER-611 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.612NVALID-ORDER-612 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.61 \text{ ENVALID-ORDER-613 } 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right)
10.61 INVALID-ORDER-614 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L s^2}{C_L L_L s^2 + 1}\right)
10.61 INVALID-ORDER-615 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}, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.61 INVALID-ORDER-616 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}, \infty, R_L\right).
10.61TNVALID-ORDER-617 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}, \infty, \frac{1}{C_4 s}\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}, \ \infty, \ rac{R_L}{C_LR_Ls+1}
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}, \infty, R_L + \frac{1}{C_Ls}\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}, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                                                                  \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}, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\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}, \ \infty, \ L_Ls+R_L+\frac{1}{C_Ls}\right)
                                                                                  \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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \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}, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}\right)
                                                                                    \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}, \infty, \frac{R_{L}(C_{L}L_{L}s^{2}+1)}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}
                                                                                   \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}, \infty, R_{L}\right)
10.62 6NVALID-ORDER-626 Z(s) =
                                                                                    \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}, \ \infty, \ \frac{1}{C_{L}s}
10.62YNVALID-ORDER-627 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}, \infty, \frac{R_{L}}{C_{L}R_{L}s+1}\right)
10.628NVALID-ORDER-628 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}, \ \infty, \ R_{L}+\frac{1}{C_{Ls}}
10.629NVALID-ORDER-629 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}, \; \infty, \; L_{L}s+\frac{1}{C_{L}s}
10.63 ONVALID-ORDER-630 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}, \infty, \frac{L_{L}s}{C_{L}L_{L}s^{2}+1}
10.63INVALID-ORDER-631 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}, \infty, L_{L}s+R_{L}+\frac{1}{C_{L}s}
10.632NVALID-ORDER-632 Z(s) =
                                                                                    \frac{L_{18}}{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}, \ \infty, \ \frac{L_{L}R_{L}s}{C_{L}L_{L}R_{L}s^{2}+L_{L}s+R_{L}}
                                                                                   \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}, \infty, \frac{R_{L}(C_{L}L_{L}s^{2}+1)}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}\right)
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$10.63 \text{ 6} \text{NVALID-ORDER-636 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{1}{C_L s}\right) \dots	9
$10.63\text{INVALID-ORDER-}637\ Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s},\ \infty,\ \infty,\ R_4,\ \infty,\ \frac{R_L}{C_LR_Ls+1}\right)\ \dots$	9.
$10.63 \text{\&NVALID-ORDER-638 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right) $	9
10.63 NVALID-ORDER-639 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \infty, \infty, R_4, \infty, L_Ls + \frac{1}{C_Ls}\right)$	9
$10.64 \text{ @NVALID-ORDER-640 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) $	9
$10.64 \text{INVALID-ORDER-} 641 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $	9
$10.642\text{NVALID-ORDER-}642\ Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s},\ \infty,\ \infty,\ R_4,\ \infty,\ \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$	9
$10.64 \text{ INVALID-ORDER-643 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $	9
$10.64 \text{INVALID-ORDER-} 644 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \ \dots $	9:
$10.64 \text{ INVALID-ORDER-} 645 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ R_L\right) \ \dots $	9:
$10.64 \text{ 6NVALID-ORDER-} 646 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	95
$10.64\text{INVALID-ORDER-}647\ Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s},\ \infty,\ \infty,\ \frac{1}{C_4s},\ \infty,\ \frac{R_L}{C_LR_Ls+1}\right)$	95
$10.64 \text{\&NVALID-ORDER-} 648 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right) \ \dots $	9:
$10.64 \mathfrak{P} \text{NVALID-ORDER-} 649 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \dots $	9:
$10.65 \text{ @NVALID-ORDER-} 650 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $	92
$10.65 \text{INVALID-ORDER-} 651 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s} \right) $	95
$10.65 \text{2NVALID-ORDER-} 652 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	95
10.65 \(\text{BNVALID-ORDER-653} \(Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \infty, \infty, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \right) \qq \qq \qq \	93
10.65\(\text{INVALID-ORDER-654}\) $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	9:
$10.65 \text{INVALID-ORDER-} 655 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ R_L\right) \dots $	93
10.65 (NVALID-ORDER-656 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$	9:
10.65 INVALID-ORDER-657 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$	9:
10.65 NVALID-ORDER-658 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$	9:
10.65 NVALID-ORDER-659 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$	9:
10.66 QNVALID-ORDER-660 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)'$	
10.66INVALID-ORDER-661 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	93
$10.662\text{NVALID-ORDER-}662 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $ $10.662\text{NVALID-ORDER-}663 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) $	9
$10.66 \text{INVALID-ORDER-} 664 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \infty, \ \infty, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ \dots $	
10.66 NVALID-ORDER-665 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$	94
10.66 C NVALID-ORDER-666 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$	94
10.66 T NVALID-ORDER-667 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$	94
10.66\text{\text{8}NVALID-ORDER-668} $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \Omega, R_5 + \frac$	94
10.66 NVALID-ORDER-669 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$	
10.670NVALID-ORDER-670 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	94
10.67INVALID-ORDER-671 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	
$10.672\text{NVALID-ORDER-}672\ Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right) \dots	
10.67 NVALID-ORDER-673 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$	
10.67\PVALID-ORDER-674 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	9!

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10.67 INVALID-ORDER-675 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right) \dots
10.676NVALID-ORDER-676 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1.5}}, \infty, \infty, L_4 s + \frac{1}{C_{1.5}}, \infty, \frac{1}{C_{1.5}}\right).
10.67 INVALID-ORDER-677 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{18}}, \infty, \infty, L_4 s + \frac{1}{C_{18}}, \infty, \frac{R_L}{C_{18}R_{18}+1}\right)
10.67\( \text{NVALID-ORDER-678} \) Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \, \infty, \, \infty, \, L_4 s + \frac{1}{C_4 s}, \, \infty, \, R_L + \frac{1}{C_4 s} \right)
10.679NVALID-ORDER-679 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1.5}}, \infty, \infty, L_4 s + \frac{1}{C_{4.5}}, \infty, L_L s + \frac{1}{C_{4.5}}\right)
10.68 INVALID-ORDER-680 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_4 L_1 s^2 + 1}\right)
10.68INVALID-ORDER-681 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_4 s}\right)
10.682NVALID-ORDER-682 Z(s) = (L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L})
10.68 INVALID-ORDER-683 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_4 L_1 s^2 + 1}\right)
10.684NVALID-ORDER-684 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.68 INVALID-ORDER-685 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}, \infty, R_L\right).
10.68 INVALID-ORDER-686 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}, \infty, \frac{1}{C_{1,s}}\right) . . . .
10.68 INVALID-ORDER-687 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.68 NVALID-ORDER-688 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}, \infty, R_L + \frac{1}{C_L s}\right)
10.68 INVALID-ORDER-689 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.69 INVALID-ORDER-690 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_1 L_1 s^2 + 1}, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right)
10.69INVALID-ORDER-691 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.692NVALID-ORDER-692 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L})
10.69 INVALID-ORDER-693 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1.8}}, \infty, \infty, \frac{L_4 s}{C_1 L_1 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_1 L_1 s^2 + 1}\right)
10.694NVALID-ORDER-694 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.69 INVALID-ORDER-695 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1s}}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_{4s}}, \infty, R_L\right).
10.69 INVALID-ORDER-696 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}, \infty, \frac{1}{C_L s}\right)
10.69 INVALID-ORDER-697 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1s}}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_{4s}}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.69 NVALID-ORDER-698 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}, \infty, R_L + \frac{1}{C_4 s}\right)
10.699NVALID-ORDER-699 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}, \infty, L_L s + \frac{1}{C_4 s}\right)
10.700NVALID-ORDER-700 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}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\right)
10.70INVALID-ORDER-701 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.702NVALID-ORDER-702 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.70 INVALID-ORDER-703 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_1 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_1 L_1 s^2 + 1}\right)
10.704NVALID-ORDER-704 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}, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.70 INVALID-ORDER-705 Z(s) = (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}, \infty, R_L)
10.70 INVALID-ORDER-706 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}, \infty, \frac{1}{C_4 s}\right).
10.70 \text{TNVALID-ORDER-707 } 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}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)
10.70\( \text{NVALID-ORDER-708} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L + \frac{1}{C_L s} \right) \)
10.709NVALID-ORDER-709 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1.8}}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, L_L s + \frac{1}{C_{1.8}}\right)
10.710NVALID-ORDER-710 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.71INVALID-ORDER-711 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.712NVALID-ORDER-712 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}, \infty, \frac{L_L R_L s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}\right)
10.71ENVALID-ORDER-713 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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10.71 4 NVALID-ORDER-714 $Z(s) =$	$\left(L_1s + R_1 + \frac{1}{C_1}\right)$	$\frac{1}{s}$, ∞ , ∞ ,	$\frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}$	$\frac{R_{I}}{C_{L}I}$	$\frac{L\left(C_LL_Ls^2+1\right)}{L_Ls^2+C_LR_Ls+1}$)	 	 	 	 	 	99
10.71 SNVALID-ORDER-715 $Z(s) =$	$(L_1s + R_1 + \frac{1}{C_1s})$	$\frac{1}{s}$, ∞ , ∞ ,	$\tfrac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$	(∞, ∞, R_L))		 	 	 	 	 	99
10.71 6 NVALID-ORDER-716 $Z(s) =$	$\dot{C}L_1s + R_1 + \frac{1}{C_1s}$	$\frac{1}{s}$, ∞ , ∞ ,	$\frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}$	$, \infty, \frac{1}{C_L s}$	$\left(\cdot \right) \ldots \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot$		 	 	 	 	 	99
10.71 NVALID-ORDER-717 $Z(s) =$	$\dot{C}L_1s + R_1 + \frac{1}{C_1s}$	$\frac{1}{s}$, ∞ , ∞ ,	$\tfrac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$	$, \infty, \frac{I}{C_L R}$	$\left(\frac{R_L}{R_L s+1}\right) \cdot \cdot \cdot$		 	 	 	 	 	99
10.71&NVALID-ORDER-718 $Z(s) =$	$\dot{C}L_1s + R_1 + \frac{1}{C_1s}$	$\frac{1}{s}$, ∞ , ∞ ,	$\frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}$	$, \infty, R_L$	$+\frac{1}{C_L s}$		 	 	 	 	 	99
10.71 9 NVALID-ORDER-719 $Z(s) =$	$\dot{C}L_1s + R_1 + \frac{1}{C_1s}$	$\frac{1}{s}$, ∞ , ∞ ,	$\tfrac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$	$, \infty, L_L s$	$s + \frac{1}{C_L s}$)		 	 	 	 	 	99
10.72 0 NVALID-ORDER-720 $Z(s) =$	$\dot{C}L_1s + R_1 + \frac{1}{C_1s}$	$\frac{1}{s}$, ∞ , ∞ ,	$\tfrac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$	$, \infty, \frac{I}{C_L L}$	$\left(\frac{L_L s}{L_L s^2 + 1}\right)'$		 	 	 	 	 	99
10.72 I NVALID-ORDER-721 $Z(s) =$	$(L_1s + R_1 + \frac{1}{C_1s})$	$\frac{1}{s}$, ∞ , ∞ ,	$\tfrac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$	$, \infty, L_L s$	$s + R_L + \frac{1}{C_L s}$		 	 	 	 	 	99
10.72 2 NVALID-ORDER-722 $Z(s) =$	$(L_1s + R_1 + \frac{1}{C_1s})$	$\frac{1}{s}$, ∞ , ∞ ,	$\frac{C_4L_4R_4s^2\!+\!L_4s\!+\!R_4}{C_4L_4s^2\!+\!1}$	$, \infty, \overline{C_L L}$	$\frac{L_L R_L s}{L_L R_L s^2 + L_L s + R_L}$	$\left(\frac{1}{2}\right)$	 	 	 	 	 	99
10.72\mathbb{B}\mathbb{N}\mathbb{V}\mathbb{A}\mathbb{L}\mathbb{I}\mathbb{D}\mathbb{C}\mathbb{R}\mathbb{D}\mathbb{E}\mathbb{R}-723 \ Z(s) =	$\left(L_1s + R_1 + \frac{1}{C_1s}\right)$	$\frac{1}{s}$, ∞ , ∞ ,	$\tfrac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$	$, \infty, \frac{C_L L}{C_L}$	$\frac{L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}$	<u>.</u>)	 	 	 	 	 	99
10.72#NVALID-ORDER-724 $Z(s) =$	$\left(L_1s + R_1 + \frac{1}{C_1}\right)$	$\frac{1}{s}$, ∞ , ∞ ,	$\frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}$	$\frac{R_{I}}{C_{L}I}$	$\frac{L\left(C_LL_Ls^2+1\right)}{L_Ls^2+C_LR_Ls+1}$)	 	 	 	 	 	100
10.72 \mathbf{N} NVALID-ORDER-725 $Z(s) =$	$\left(L_1s + R_1 + \frac{1}{C_1}\right)$	$\frac{1}{s}$, ∞ , ∞ ,	$\frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1},$	∞ , R_L			 	 	 	 	 	100
10.72 6 NVALID-ORDER-726 $Z(s) =$	$\left(L_1s + R_1 + \frac{1}{C_1}\right)$	$\frac{1}{s}$, ∞ , ∞ ,	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1},$	$\infty, \frac{1}{C_L s}$)		 	 	 	 	 	100
10.72 T NVALID-ORDER-727 $Z(s) =$	$\left(L_1s + R_1 + \frac{1}{C_1}\right)$	\overline{s} , ∞ , ∞ ,	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1},$	∞ , $\frac{R_I}{C_L R_L}$	$\binom{L}{L} s+1$		 	 	 	 	 	100
10.72&NVALID-ORDER-728 $Z(s) =$	$\left(L_1s + R_1 + \frac{1}{C_1}\right)$	\overline{s} , ∞ , ∞ ,	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1},$	∞ , R_L +	$+\frac{1}{C_L s}$)		 	 	 	 	 	100
10.72 9 NVALID-ORDER-729 $Z(s) =$	\						 	 	 	 	 	100
10.730NVALID-ORDER-730 $Z(s) =$	\				/		 	 	 	 	 	100
10.73INVALID-ORDER-731 $Z(s) =$					/		 	 	 	 	 	100
10.73 ½ NVALID-ORDER-732 $Z(s) =$	$\left(L_1s + R_1 + \frac{1}{C_1}\right)$	$\frac{1}{s}$, ∞ , ∞ ,	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1},$	∞ , $\overline{C_L L_L}$	$\frac{L_L R_L s}{L R_L s^2 + L_L s + R_L}$	$) \dots$	 	 	 	 	 	100
10.73 B NVALID-ORDER-733 $Z(s) =$	\					$) \dots$	 	 	 	 	 	10
10.73 INVALID-ORDER-734 $Z(s) =$ 10.73 INVALID-ORDER-735 $Z(s) =$	$\left(L_1s + R_1 + \frac{1}{C_1}\right)$	\overline{s} , ∞ , ∞ ,	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1},$	∞ , $\frac{R_L(}{C_L L_L}$	$\left(\frac{\left(C_L L_L s^2 + 1\right)}{L s^2 + C_L R_L s + 1}\right)$		 	 	 	 	 	10
10.73 SNVALID-ORDER-735 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$R_4, \infty, \frac{1}{C_L s}$				 	 	 	 	 	10
10.736NVALID-ORDER-736 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$R_4, \infty, \frac{R_L}{C_L R_L s}$	$\overline{+1}$)			 	 	 	 	 	10
$10.73 \text{INVALID-ORDER-737} \ Z(s) =$ $10.73 \text{INVALID-ORDER-738} \ Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$R_4, \infty, R_L + \overline{R}_0$	$\left(\frac{1}{C_L s}\right)$			 	 	 	 	 	10
10.73&NVALID-ORDER-738 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$R_4, \infty, L_L s +$	$\frac{1}{C_L s}$)			 	 	 	 	 	10
10.73 9 NVALID-ORDER-739 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	, R_4 , ∞ , $\frac{L_L s}{C_L L_L s^2}$	$\overline{+1}$)			 	 	 	 	 	10
10.74 0 NVALID-ORDER-740 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$R_4, \infty, L_L s + 1$	$R_L + \frac{1}{C_L s}$)		 	 	 	 	 	10
10.74INVALID-ORDER-741 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$R_4, \infty, \frac{1}{C_L L_L R}$	$\frac{L_L R_L s}{L s^2 + L_L s + R}$	$_{\overline{R_L}}\Big)$		 	 	 	 	 	10
10.742NVALID-ORDER-742 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	, R_4 , ∞ , $\frac{C_L L_L R}{C_L}$	$Ls^2 + L_Ls + R$ $L_Ls^2 + 1$	$\left(\frac{R_L}{L}\right)$		 	 	 	 	 	102
10.742NVALID-ORDER-742 $Z(s) =$ 10.742NVALID-ORDER-743 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + }\right)$	$\overline{R_1}$, ∞ , ∞	$R_4, \infty, \frac{R_L(C)}{C_L L_L s^2}$	$\frac{C_L L_L s^2 + 1}{c^2 + C_L R_L s + 1}$	$_{ar{1}}\Big)$		 	 	 	 	 	105
10.744NVALID-ORDER-744 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$, \frac{1}{C_4 s}, \infty, R_L$				 	 	 	 	 	105
$10.745 \text{NVALID-ORDER-}745 \ Z(s) =$ $10.746 \text{NVALID-ORDER-}746 \ Z(s) =$ $10.745 \text{NVALID-ORDER-}747 \ Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$, \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s}$	$\frac{1}{s+1}$			 	 	 	 	 	102
10.74 6 NVALID-ORDER-746 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$, \frac{1}{C_4 s}, \infty, R_L +$	$\frac{1}{C_L s}$)			 	 	 	 	 	105
10.747NVALID-ORDER-747 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$, \frac{1}{C_4 s}, \infty, L_L s +$	$-\frac{1}{C_L s}$.			 	 	 	 	 	105
10.74NVALID-ORDER-748 $Z(s) =$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s^2}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$, \frac{1}{C_{LS}}, \infty, \frac{L_{LS}}{C_{LLS}}$	$\left(\frac{s}{2+1}\right)$			 	 	 	 	 	105
10.74 9 NVALID-ORDER-749 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + L_1 s}\right)$	$\frac{1}{R_1}$, ∞ , ∞	$, \frac{1}{C_4 s}, \infty, L_L s +$	$R_L + \frac{1}{C_L s}$	$\left(\frac{1}{s}\right)$		 	 	 	 	 	105

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10.750NVALID-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, \frac{1}{C_{4s}}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.75INVALID-ORDER-751 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_2 s + R_1}, \infty, \infty, \frac{1}{C_1 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_1 L_1 s^2 + L_2 s^2 
                                                                                                         \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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}
10.75 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, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\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}, \infty, \frac{1}{C_L s}\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}, \infty, \frac{R_L}{C_L R_L s + 1}\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}, \infty, R_L + \frac{1}{C_{L,s}}\right)
                                                                                                       \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)
10.75 NVALID-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{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\right)
10.759NVALID-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{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_1 L_1 s^2 + 1}\right)
                                                                                                        \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.762NVALID-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, R_4 + \frac{1}{C_4 s}, \infty, R_L\right) \dots \dots
                                                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_{r,s}}\right) \ldots
                                                                                                       \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}, \infty, \frac{R_L}{C_4 R_1 s + 1}\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}, \infty, R_L + \frac{1}{C_L s}\right)
10.76TNVALID-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, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_7 s}\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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.770NVALID-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, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}\right)
10.77INVALID-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, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_4 L_4 s^2 + 1}\right)
                                                                                                        \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.778NVALID-ORDER-773 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right) \dots
10.77\(\text{INVALID-ORDER-774}\(Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}\), \infty, \infty, \infty, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\). \tag{1}
10.77 INVALID-ORDER-775 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_2 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_4 R_4 s + 1}\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}, \infty, R_L + \frac{1}{C_4 s}\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_1 s}, \infty, L_L s + \frac{1}{C_1 s}\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}, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right)...
10.779NVALID-ORDER-779 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.78INVALID-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, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L s^2}{C_r L_r s^2 + 1}\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}, \infty, \frac{R_{L}(C_{L}L_{L}s^{2}+1)}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}\right)\right)
10.78 \text{ 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, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ R_L\right) \ \ . \ \ .
10.784NVALID-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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right) . . .
10.78 INVALID-ORDER-785 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_2 R_1 s^2 + L_3 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_4 R_4 s^2 + 1}\right)
10.78 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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_1 s}\right)
10.78 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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)
10.78\( \text{NVALID-ORDER-788} \( Z(s) = \left( \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_1 L_4 s^2 + 1} \right) \)
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10.789NVALID-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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\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}, \, \infty, \, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \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 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}
                                                                                      \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \infty, R_L\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}, \infty, \frac{1}{C_4 s}\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_1 s}, \infty, \frac{R_L}{C_1 R_1 s + 1}\right)
                                                                                      \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \infty, R_L+\frac{1}{C_{LS}}
                                                                                      \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}, \infty, L_L s + \frac{1}{C_L s}\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}, \infty, \frac{L_L s}{C_4 L_4 s^2 + 1}\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}, \infty, L_Ls+R_L+\frac{1}{C_Ls}\right)
                                                                                      \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_4L_4R_4s^2+L_4s+R_4}
                                                                                      \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty, L_4s+R_4+\frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\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 + R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}
                                                                                      \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}, \infty, R_L\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}, \infty, \frac{1}{C_{Ls}}\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}, \infty, \frac{R_L}{C_LR_Ls+1}\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}, \infty, R_L + \frac{1}{C_Ls}\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}, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                                                                      \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}, \ \infty, \ \frac{L_Ls}{C_4L_4s^2+1}
                                                                                      \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}, \infty, L_Ls+R_L+\frac{1}{C_{Ls}}\right)
                                                                                      \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}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}
                                                                                     \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}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_Ls^2}{C_LL_Ls^2+1}\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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}
                                                                                      \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}, \infty, R_L\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}, \infty, \frac{1}{C_{Ls}}\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}, \infty, \frac{R_L}{C_LR_Ls+1}\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}, \; \infty, \; R_L + \frac{1}{C_Ls}
                                                                                      \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}, \infty, L_Ls + \frac{1}{C_{Ls}}\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}, \; \infty, \; \frac{L_Ls}{C_LL_Ls^2+1}
                                                                                       \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}, \infty, L_Ls+R_L+\frac{1}{C_Ls}\right)
10.819NVALID-ORDER-819 Z(s) =
                                                                                      \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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}
                                                                                      \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}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
                                                                                       \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}, \ \infty, \ \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}
 10.822NVALID-ORDER-822 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}, \ \infty, \ R_L
10.82BNVALID-ORDER-823 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}, \infty, \frac{1}{C_Ls}\right)
10.824NVALID-ORDER-824 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}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)
10.825NVALID-ORDER-825 Z(s) =
10.82 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{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)
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10.82 TNVALID-ORDER-827 $Z(s) =$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \infty, \infty\right)$	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \ \infty,$, $L_L s + \frac{1}{C_L s}$
10.82&NVALID-ORDER-828 $Z(s)=$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \infty, \ \infty\right)$	$R_4(C_4L_4s^2+1)$, $C_4L_4s^2+C_4R_4s+1$, ∞ ,	$\left(\frac{L_L s}{C_L L_L s^2 + 1}\right)$
10.82 9 NVALID-ORDER-829 $Z(s) =$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \infty, \ \infty\right)$	$\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \ \infty,$	$(L_L s + R_L + \frac{1}{C_L s})$
10.83 0 NVALID-ORDER-830 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty\right)$	$R_4(C_4L_4s^2+1)$, $C_4L_4s^2+C_4R_4s+1$, ∞ ,	$\left(\frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $
10.83INVALID-ORDER-831 $Z(s) =$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \infty, \ \infty\right)$	$R_4(C_4L_4s^2+1)$, $C_4L_4s^2+C_4R_4s+1$, ∞ ,	$\left(\begin{array}{c} \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \end{array} \right) \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots $
10.832NVALID-ORDER-832 $Z(s) =$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \infty, \ \infty\right)$	$R_4(C_4L_4s^2+1)$, $C_4L_4s^2+C_4R_4s+1$, ∞ ,	$\left(\frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1} \right) \cdots $
10.83 & NVALID-ORDER-833 $Z(s)=$	$\left(\frac{C_1L_1R_1s^2+L_1s+R_1}{C_1L_1s^2+1}, \ \infty, \ \infty, \right)$	$R_4, \infty, \frac{1}{C_L s} \Big) \dots .$	
10.834NVALID-ORDER-834 $Z(s)=$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \right)$	$R_4, \infty, \frac{R_L}{C_L R_L s + 1} $.	
10.83 5 NVALID-ORDER-835 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$R_4, \infty, R_L + \frac{1}{C_L s}$	
10.836NVALID-ORDER-836 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$R_4, \infty, L_L s + \frac{1}{C_L s}$)
10.83 T NVALID-ORDER-837 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}$.	
10.83&NVALID-ORDER-838 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$R_4, \infty, L_L s + R_L + \dots$	$-rac{1}{C_L s}$)
10.83 9 NVALID-ORDER-839 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L}$	$\frac{s}{L_L s + R_L}$)
10.84 0 NVALID-ORDER-840 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \right)$	$R_4, \infty, \frac{C_L L_L R_L s^2 + L_L}{C_L L_L s^2 +}$	$\left(\frac{L_L s + R_L}{+1}\right)$
10.84 INVALID-ORDER-841 $Z(s) = \displaystyle$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty\right)$	$R_4, \ \infty, \ \frac{R_L(C_L L_L s^2 + C_L R_L)}{C_L L_L s^2 + C_L R_L}$	$\left(\frac{r^2+1}{R_L s+1}\right)^{\prime}$
$10.84 2 \hspace{-0.07cm} \text{NVALID-ORDER-842} \ Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$\frac{1}{C_4 s}$, ∞ , R_L)	
$10.84 \& NVALID-ORDER-843 \ Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$\frac{1}{C_4 s}$, ∞ , $\frac{1}{C_L s}$)	
10.84\(\bar{\text{4}}\)NVALID-ORDER-844 $Z(s) =$	$\left\langle \frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right.$	$\frac{1}{C_4 s}$, ∞ , $\frac{R_L}{C_L R_L s + 1}$).	
10.845NVALID-ORDER-845 $Z(s) =$	(G I D 2 I I I D	/)
10.846NVALID-ORDER-846 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$\frac{1}{C_4 s}$, ∞ , $L_L s + \frac{1}{C_L s}$)
10.84\bar{T}\text{NVALID-ORDER-847} $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty, \right.$	$\frac{1}{C_4 s}$, ∞ , $\frac{L_L s}{C_L L_L s^2 + 1}$,
10.84\&NVALID-ORDER-848 $Z(s) =$		/	
10.84 9 NVALID-ORDER-849 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$\frac{1}{C_A s}$, ∞ , $\frac{L_L R_L s}{C_L L_L R_L s^2 + L}$	$\frac{LS}{L_I s + R_I}$
10.85 0 NVALID-ORDER-850 $Z(s) =$,		
10.85INVALID-ORDER-851 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \ \infty, \ \infty\right)$	$\frac{1}{C_4 s}$, ∞ , $\frac{R_L (C_L L_L s^2)}{C_L L_L s^2 + C_L R}$	$\left(\frac{s^2+1}{LR_Ls+1}\right)'$
10.852NVALID-ORDER-852 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$\frac{R_4}{C_4R_4s+1}$, ∞ , R_L).	
10.85\(\mathbb{B}\)NVALID-ORDER-853 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$\frac{R_4}{C_4R_4s+1}$, ∞ , $\frac{1}{C_Ls}$).	
10.854NVALID-ORDER-854 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$\frac{R_4}{C_4R_4s+1}$, ∞ , $\frac{R_L}{C_LR_Ls+1}$,,)11
			$\left(\frac{1}{C_{l,s}}\right)$
			$\left(\frac{1}{C_{I,s}}\right)$
			$\begin{pmatrix} s \\ s \\ 2+1 \end{pmatrix} \cdot \dots \cdot$
			$R_L + \frac{1}{C_L s}$ \tag{1}
10.85 9 NVALID-ORDER-859 $Z(s) =$	$\left(\frac{C_1L_1s + 1}{C_1L_1s^2 + L_1s + R_1}, \infty, \infty, \right)$	$\frac{R_4}{C_4R_4s+1}$, ∞ , $\frac{L}{C_4L_4R_5}$	$\frac{L_L R_L s}{R_L s^2 + L_L s + R_L}$
10.86 0 NVALID-ORDER-860 $Z(s) =$	>		
10.86INVALID-ORDER-861 $Z(s) =$			
10.86 2 NVALID-ORDER-862 $Z(s) =$	$\left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \right)$	$R_4 + \frac{1}{C_{LS}}, \infty, R_L$.	· · · · · · · · · · · · · · · · · · ·
			$\left(\frac{c}{c+1}\right)$

$10.86 \text{ Invalid-order-} 865 \ 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}, \ \infty, \ R_4 + \frac{1}{C_4 s}\right) \ \dots $	114
$10.86 \text{ INVALID-ORDER-866 } 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}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	114
$10.86 \text{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, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \ \dots $	115
10.86\(\text{ENVALID-ORDER-868} \(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, \inft	115
$10.86 \text{ @NVALID-ORDER-869 } 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	115
10.87 INVALID-ORDER-870 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)$	115
$10.87 \text{INVALID-ORDER-871 } 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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $	115
$10.87 \text{ 2NVALID-ORDER-872 } Z(s) = \left(\underbrace{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}, \ \infty, \ R_L \right) \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots $	115
10.8738NVALID-ORDER-873 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls}\right)$	115
$10.87 \text{ 1 NVALID-ORDER-874 } 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 + \frac{1}{C_4 s}, \ \infty, \ \frac{\dot{R}_L}{C_L R_L s + 1}\right) \ \dots $	115
10.87 INVALID-ORDER-875 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)$	115
$10.87 \text{ INVALID-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, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \ \dots $	116
$10.87 \text{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, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $	116
$10.87 \text{\&NVALID-ORDER-878} \ Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ L_4 s + \frac{1}{C_4 s}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	116
$10.87 \text{ @NVALID-ORDER-879 } 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 + \frac{1}{C_4 s}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	116
$10.88 \text{@NVALID-ORDER-880 } 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 + \frac{1}{C_4 s}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \\ \qquad \dots \\ \qquad $	116
$10.88 \text{INVALID-ORDER-881} \ 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 + \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ \dots $	116
10.88 2 NVALID-ORDER-882 $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L \right)$	116
10.88\(\text{ENVALID-ORDER-883} \(Z(s) = \begin{pmatrix} \cdot \frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, & \infty, & \infty, & \infty, & \frac{L_4 s}{C_4 L_4 s^2 + 1}, & \infty, & \frac{1}{C_L s} \end{pmatrix} \] \tag{10.88}\(\text{ENVALID-ORDER-883} \) \(Z(s) = \begin{pmatrix} \cdot \frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_4 L_4 s^2 + 1}, & \infty, & \frac{1}{C_4 L_4 s^2 + 1}, & \infty, & \infty, & \frac{1}{C_4 L_4 s^2 + 1}, & \infty, & \infty, & \frac{1}{C_4 L_4 s^2 + 1}, & \infty, & \infty, & \frac{1}{C_4 L_4 s^2 + 1}, & \infty, & \infty, & \frac{1}{C_4 L_4 s^2 + 1}, & \infty, & \infty, & \infty, & \infty, & \frac{1}{C_4 L_4 s^2 + 1}, & \infty, & \	116
$10.884\text{NVALID-ORDER-884} \ Z(s) = \left(\begin{array}{c} C_1 L_1 R_1 s^2 + L_1 s + R_1 \\ C_1 L_1 s^2 + 1 \end{array}, \ \infty, \ \infty, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{R_L}{C_4 R_L s + 1} \right) \ \dots \ $	116
10.88 INVALID-ORDER-885 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, R_L + \frac{1}{C_Ls}\right)$	117
$10.886 \text{NVALID-ORDER-886} \ Z(s) = \left(\underbrace{C_1 L_1 R_1 s^2 + L_1 s + R_1}_{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \underbrace{L_4 s}_{C_4 L_4 s^2 + 1}, \ \infty, \ L_L s + \underbrace{1}_{C_L s}' \right) \dots $	117
$10.88 \text{TNVALID-ORDER-} 887 \ 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 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} \right)' \ \dots $	117
$10.88 \text{ENVALID-ORDER-888} \ 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 s}{C_4 L_4 s^2 + 1}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s} \right) \ \dots $	117
$10.88 \text{ (NVALID-ORDER-889 } 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 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	117
$10.89 \text{ @NVALID-ORDER-890 } 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 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1} \right) \ \dots $	117
$10.89 \text{INVALID-ORDER-891 } 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 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \right) \dots $	117
$10.892\text{NVALID-ORDER-892} \ Z(s) = \left(\underbrace{C_1L_1R_1s^2 + L_1s + R_1}_{C_1L_1s^2 + 1}, \ \infty, \ \infty, \ L_4s + R_4 + \frac{1}{C_4s}, \ \infty, \ R_L \right) $	117
10.89 INVALID-ORDER-893 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls}\right)$	117
$10.894\text{NVALID-ORDER-894} \ 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}, \ \infty, \ \frac{R_L}{C_LR_Ls + 1}\right) \ \dots $	118
10.89 INVALID-ORDER-895 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)$	118
10.896NVALID-ORDER-896 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)$	
10.89 TNVALID-ORDER-897 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$	
10.89\(\text{NVALID-ORDER-898} \(Z(s) = \) \(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_2 s^2 + 1}, \infty, \infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_1 s}, \infty, L_4 s + R_L + \frac{1}{C_1 s} \) \\ \	118
10.89 9 NVALID-ORDER-899 $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_1L_1R_1s^2 + L_1s + R_L}\right)$	118
$10.89 \text{ (NVALID-ORDER-899 } 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}, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \\ 10.90 \text{ (ID-ORDER-900 } 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}, \ \infty, \ \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right) \\ \dots $	118
$10.90 \text{INVALID-ORDER-901 } 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}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \right) \dots $	118
$10.902\text{NVALID-ORDER-902} \ 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}, \ \infty, \ R_L\right) \dots $	
$10.90 \text{BNVALID-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, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \infty, \ \frac{1}{C_L s}\right) \ \dots $	119

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10.904NVALID-ORDER-904 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}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
                                                                        \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}, \infty, R_L + \frac{1}{C_Ls}
10.905NVALID-ORDER-905 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}R_{4}s}{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}, \infty, L_{L}s+\frac{1}{C_{L}s}
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, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
10.90TNVALID-ORDER-907 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}, \infty, L_Ls+R_L+\frac{1}{C_Ls}
10.908NVALID-ORDER-908 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}, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}
10.909NVALID-ORDER-909 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}, \ \infty, \ \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}
10.91 ONVALID-ORDER-910 Z(s) =
                                                                                                                                                                         R_L(C_LL_Ls^2+1)
                                                                        \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}, \ \infty, \ \frac{R_L(C_LL_Ls + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}
10.91INVALID-ORDER-911 Z(s) =
                                                                       \left( \frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, R_L \right)
10.912NVALID-ORDER-912 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}, \infty, \frac{1}{C_Ls}\right)
10.918NVALID-ORDER-913 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}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
10.914NVALID-ORDER-914 Z(s) =
                                                                        (\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}, \infty, R_L + \frac{1}{C_Ls})
10.915NVALID-ORDER-915 Z(s) =
                                                                        (\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}, \infty, L_Ls + \frac{1}{C_{Ls}})
10.916NVALID-ORDER-916 Z(s) =
                                                                        \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}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}
10.91TNVALID-ORDER-917 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{C_{4}L_{4}R_{4}s^{2}+L_{4}s+R_{4}}{C_{4}L_{4}s^{2}+1}, \infty, L_{L}s+R_{L}+\frac{1}{C_{L}s}
10.918NVALID-ORDER-918 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}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
10.919NVALID-ORDER-919 Z(s) =
                                                                        \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}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}
10.92 ONVALID-ORDER-920 Z(s) =
                                                                        \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}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}
                                                                                                                                                                         R_L(C_LL_Ls^2+1)
10.92INVALID-ORDER-921 Z(s) =
                                                                         \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}, \ \infty, \ R_L
10.922NVALID-ORDER-922 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{R_4 \left( C_4 L_4 s^2 + 1 \right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \ \infty, \ \frac{1}{C_L s}
10.92BNVALID-ORDER-923 Z(s) =
                                                                                                                             R_4(C_4L_4s^2+1)
                                                                        \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}, \ \infty, \ \frac{R_L}{C_LR_Ls + 1}
10.924NVALID-ORDER-924 Z(s) =
                                                                         \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}, \ \infty, \ R_L + \frac{1}{C_Ls}
10.925NVALID-ORDER-925 Z(s) =
                                                                        \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}, \ \infty, \ L_Ls + \frac{1}{C_Ls}
10.92 6NVALID-ORDER-926 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{R_{4}(C_{4}L_{4}s^{2}+1)}{C_{4}L_{4}s^{2}+C_{4}R_{4}s+1}, \infty, \frac{L_{L}s}{C_{L}L_{L}s^{2}+1}
10.92TNVALID-ORDER-927 Z(s) =
                                                                        \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}, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}
10.928NVALID-ORDER-928 Z(s) =
                                                                                                                             R_4(C_4L_4s^2+1)
                                                                         \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}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}
10.929NVALID-ORDER-929 Z(s) =
                                                                         \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}, \ \infty, \ \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}
10.93 ONVALID-ORDER-930 Z(s) =
                                                                        \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}, \ \infty, \ \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}
10.93INVALID-ORDER-931 Z(s) =
                                                                        \frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, \frac{1}{C_Ls}
10.932NVALID-ORDER-932 Z(s) =
                                                                          R_1\left(C_1L_1s^2+1\right)
                                                                        \frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, \frac{R_L}{C_LR_Ls+1}
10.93 NVALID-ORDER-933 Z(s) =
10.934NVALID-ORDER-934 Z(s) =
                                                                         \frac{1}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_{r,s}}
                                                                         \frac{R_1(C_1L_1S_1+1)}{C_1L_1S_2+C_1R_1S+1}, \infty, \infty, R_4, \infty, L_LS+\frac{1}{C_LS}
10.93 NVALID-ORDER-935 Z(s) =
10.936NVALID-ORDER-936 Z(s) =
                                                                         \frac{R_1(C_1L_1s+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, \frac{L_Ls}{C_LL_Ls^2+1}
                                                                        \frac{\kappa_1(C_1L_1s+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, L_Ls+R_L+\frac{1}{C_Ls}
10.93 NVALID-ORDER-937 Z(s) =
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10.93 NVALID-ORDER-938 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$
$10.93 \text{ (NVALID-ORDER-939 } Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right) \ \dots $
$10.94 \text{@NVALID-ORDER-940 } Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4, \ \infty, \ \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)' \dots
10.94INVALID-ORDER-941 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \infty, R_L\right)$
$10.94 \text{ \tiny 2} \text{NVALID-ORDER-942 } 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, \ \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_4 s} \right) \ \dots $
$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, \ \frac{1}{C_4s}, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) \ \dots $
10.94 INVALID-ORDER-944 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)$
$10.94 \text{ INVALID-ORDER-945 } 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, \ \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \ \dots $
$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, \ \frac{1}{C_4s}, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \qquad . $
$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, \ \frac{1}{C_4s}, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right) \ \dots $
$10.94 \text{ NVALID-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, \ \frac{1}{C_4s}, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) $
$10.94 \text{ (NVALID-ORDER-949 } 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}, \ \infty, \ \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right) $
$10.95 \text{@NVALID-ORDER-950 } 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, \ \frac{1}{C_4 s}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots $
10.95INVALID-ORDER-951 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, R_L\right)$
$10.952\text{NVALID-ORDER-952} \ 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}, \ \infty, \ \frac{1}{C_Ls}\right) \ \dots $
$10.95 \mathbb{R} \text{NVALID-ORDER-953} \ 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, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) $
$10.954\text{NVALID-ORDER-954} \ 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}, \ \infty, \ R_L + \frac{1}{C_Ls}\right) \ \dots $
$10.95 \text{INVALID-ORDER-955} \ 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, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \dots $
$10.95 \text{ (ENVALID-ORDER-956 } 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}, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \ \dots $
$10.95\text{TNVALID-ORDER-957} \ 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}, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.95 \$NVALID-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{R_4}{C_4R_4s+1}, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \ \dots $
$10.95 \text{@NVALID-ORDER-959 } 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_4R_4s+1}, \ \infty, \ \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right) \ \dots $
$10.96 \text{DNVALID-ORDER-} 960 \ 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, \ \frac{R_4}{C_4 R_4 s + 1}, \ \infty, \ \frac{R_4 \left(C_1 L_1 s^2 + 1\right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}\right) \ \dots $
$10.96 \text{INVALID-ORDER-961 } 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}, \ \infty, \ R_L\right) $
$10.96 2 \text{NVALID-ORDER-} 962 \ Z(s) = \left(\frac{R_1(C_1 L_1 s^2 + 1)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4 s}, \ \infty, \ \frac{1}{C_L s}\right) \ \dots $
$10.96 \text{ ENVALID-ORDER-963 } 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}, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) \ \dots $
$10.96 \text{INVALID-ORDER-964} \ 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}, \ \infty, \ R_L + \frac{1}{C_L s}\right) $
$10.96 \text{INVALID-ORDER-} 965 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ R_4 + \frac{1}{C_4s}, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right) \ \dots $
$10.96 \text{ ENVALID-ORDER-966 } 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}, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \qquad . \qquad $
$10.96\text{FNVALID-ORDER-}967 \ 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}, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right) $
$10.96 \$NVALID-ORDER-968 \ 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}, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \dots $

$10.96 \text{ @NVALID-ORDER-969 } 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}, \ \infty, \ \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right) \dots $	126
$10.97 \text{ 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, \ R_4 + \frac{1}{C_4s}, \ \infty, \ \frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}\right) \dots $	126
10.97INVALID-ORDER-971 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, R_L\right)$	126
$10.972\text{NVALID-ORDER-972} \ 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}, \ \infty, \ \frac{1}{C_Ls}\right) \ \dots $	126
$10.97 \text{ INVALID-ORDER-973 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2 + 1\right)}{C_1L_1s^2 + C_1R_1s + 1}, \ \infty, \ \infty, \ L_4s + \frac{1}{C_4s}, \ \infty, \ \frac{R_L}{C_LR_Ls + 1}\right) \dots $	126
$10.97 \text{INVALID-ORDER-974} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+\frac{1}{C_4s}, \ \infty, \ R_L+\frac{1}{C_Ls}\right) \ \dots $	126
10.97 INVALID-ORDER-975 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+\frac{1}{C_4s}, \ \infty, \ L_Ls+\frac{1}{C_Ls}\right)$	126
$10.976 \text{NVALID-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, \ L_4s+\frac{1}{C_4s}, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \ \dots $	127
$10.97\text{INVALID-ORDER-977 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+\frac{1}{C_4s}, \ \infty, \ L_Ls+R_L+\frac{1}{C_Ls}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	127
$10.97 \text{\&NVALID-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, \ L_4s+\frac{1}{C_4s}, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \ \dots $	127
$10.979 \text{NVALID-ORDER-979} \ 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}, \ \infty, \ \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right) \ \dots $	127
$10.98 \text{ 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, \ L_4s+\frac{1}{C_4s}, \ \infty, \ \frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}\right) \ \dots $	127
$10.98 \text{INVALID-ORDER-981 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{L_4s}{C_4L_4s^2+1}, \ \infty, \ R_L\right) $	127
$10.982\text{NVALID-ORDER-982} \ 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}, \ \infty, \ \frac{1}{C_Ls}\right) \ \dots \ $	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, \ \frac{L_4s}{C_4L_4s^2+1}, \ \infty, \ \frac{R_L}{C_4R_Ls+1}\right) \ \dots $	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, \ \frac{L_4s}{C_4L_4s^2+1}, \ \infty, \ R_L + \frac{1}{C_Ls}\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, \ \frac{L_4s}{C_4L_4s^2+1}, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right) \ \dots $	128
$10.98 \text{ 6NVALID-ORDER-} 986 \ 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}, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \qquad \dots $	128
$10.98\text{TNVALID-ORDER-987} \ 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}, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right) $	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, \ \frac{L_4s}{C_4L_4s^2+1}, \ \infty, \ \frac{L_LR_Ls}{C_4L_4s^2+L_Ls+R_L}\right) \qquad $	128
$10.98 \mathfrak{P} \text{NVALID-ORDER-989} \ 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}, \ \infty, \ \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right) \qquad \dots $	
$10.99 \text{@NVALID-ORDER-990 } 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, \ \frac{L_4 s}{C_4 L_4 s^2 + 1}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right)' \right) $	
10.99INVALID-ORDER-991 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ R_L\right)$	
$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, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ \frac{1}{C_Ls}\right) \ \dots $	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, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) \ \dots $	
$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, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ R_L+\frac{1}{C_Ls}\right) \ \dots $	
$10.995 \text{NVALID-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, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ L_Ls+\frac{1}{C_Ls}\right) \ \dots $	
$10.996\text{NVALID-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, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \ \dots $	
$10.99\text{TNVALID-ORDER-997} \ 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}, \ \infty, \ L_Ls+R_L+\frac{1}{C_Ls}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	
$10.99 \&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, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \ \dots $	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, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right) \ \dots $	129

10.10 0N VALID-ORDER-1000 $Z(s) = \left(\frac{R_1(C_1L_1s^2 + C_1L_1s^2 + C_1R_1)}{C_1L_1s^2 + C_1R_1}\right)$	$\frac{1}{s+1}$, ∞ , ∞ , $L_4s + R_4 + \frac{1}{C_4s}$, ∞ ,	$\frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}$	29
10.10 0N VALID-ORDER-1001 $Z(s) = \left(R_1(C_1L_1s^2 + C_1L_1s^2 +$	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	(R_L)	29
10.10 02 VALID-ORDER-1002 $Z(s) = \left(\frac{R_1(C_1L_1s^2 + C_1L_1s^2 + C_1R_1)}{C_1L_1s^2 + C_1R_1}\right)$	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	$\left(0, \frac{1}{C_L s}\right)$	29
10.10 DN VALID-ORDER-1003 $Z(s) = \left(\frac{R_1(C_1L_1s^2 + C_1L_1s^2 + C_1R_1)}{C_1L_1s^2 + C_1R_1}\right)$	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	$\left(\frac{R_L}{C_L R_L s + 1} \right) \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots $	3(
10.10 DA VALID-ORDER-1004 $Z(s) = \left(\frac{R_1(C_1L_1s^2 + C_1L_1s^2 + C_1R_1)}{C_1L_1s^2 + C_1R_1}\right)$	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	$\left(R_L + rac{1}{C_L s} ight)$	3(
10.10 0S VALID-ORDER-1005 $Z(s) = \left(\frac{R_1(C_1L_1s^2 + C_1L_1s^2 + C_1R_1)}{C_1L_1s^2 + C_1R_1}\right)$	$\frac{L_4R_4s}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	$\left(L_L s + rac{1}{C_L s} ight)$	3(
10.10 DN VALID-ORDER-1006 $Z(s) = \left(\frac{R_1(C_1L_1s^2 + C_1L_1s^2 + C_1R_1)}{C_1L_1s^2 + C_1R_1}\right)$	$\frac{L_1}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	$\left(\frac{L_L s}{C_L L_L s^2 + 1} \right) \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots \cdots $	3(
10.10 0N VALID-ORDER-1007 $Z(s) = \left(\frac{R_1(C_1L_1s^2 + C_1L_1s^2 + C_1R_1)}{C_1L_1s^2 + C_1R_1}\right)$	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{L_4R_{4s}}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	$\left(L_L s + R_L + rac{1}{C_L s} ight)$	3(
,	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	<i>!</i>	3(
•	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,	. '	3(
,	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}$, ∞ ,		3(
	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,	' _\	3(
>	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,		3.
>	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,		31
	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,		31
>	$\frac{(-1)}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,	_/	3.
	$\frac{(-1)}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,		3.
	$\frac{(-1)}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,		3.
\ \	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,	/	3:
/	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,	\cdot , \prime	3.
	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}$, ∞ ,		3:
\ \	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ ,	<i>1</i> .	32
,	$\frac{(-1)}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ ,	/ .	32
<u> </u>	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ ,	<i>'</i> ,	32
<u> </u>	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ , $\frac{1}{C_4L_4s^2+C_4R_4s+1}$		32
	$\frac{1}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ ,		32
	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ ,		32
	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$		32
<u> </u>	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ ,		32
	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ ,		32
10.10 BN VALID-ORDER-1030 $Z(s) = \left(\frac{R_1(C_1L_1s^2 + C_1L_1s^2 + C_1R_1)}{C_1L_1s^2 + C_1R_1}\right)$	$\frac{(1)}{s+1}$, ∞ , ∞ , $\frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}$, ∞ ,	$\frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}$	3:

11 PolynomialError

1 Examined H(z) for CG TIA simple Z1 Z4 ZL: $\frac{Z_1Z_4Z_Lg_m}{Z_1Z_4g_m+2Z_1Z_Lg_m+Z_4+2Z_L}$

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

- 2 HP
- 3 BP
- **3.1** BP-1 $Z(s) = \left(R_1, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L R_1 R_4 g_m s}{R_1 R_4 g_m + R_4 + s^2 \left(C_L L_L R_1 R_4 g_m + C_L L_L R_4 \right) + s \left(2 L_L R_1 g_m + 2 L_L \right)}$$

Parameters:

Q:
$$\frac{C_L R_4 \sqrt{\frac{1}{C_L L_L}}}{2}$$
wo:
$$\sqrt{\frac{1}{C_L L_L}}$$
bandwidth:
$$\frac{2}{C_L R_4}$$
K-LP: 0
K-HP: 0
K-BP:
$$\frac{R_1 R_4 g_m}{2R_1 g_m + 2}$$
Qz: None
Wz: None

3.2 BP-2 $Z(s) = \left(R_1, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s}{R_1 R_4 R_L g_m + R_4 R_L + s^2 \left(C_L L_L R_1 R_4 R_L g_m + C_L L_L R_4 R_L \right) + s \left(L_L R_1 R_4 g_m + 2 L_L R_1 R_L g_m + L_L R_4 + 2 L_L R_L \right)}$$

Parameters:

Q:
$$\frac{C_L R_4 R_L \sqrt{\frac{1}{C_L L_L}}}{R_4 + 2R_L}$$
 wo:
$$\sqrt{\frac{1}{C_L L_L}}$$
 bandwidth:
$$\frac{R_4 + 2R_L}{C_L R_4 R_L}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$$
 Qz: None Wz: None

3.3 BP-3 $Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

$$\begin{array}{l} \text{Q: } 2C_{4}R_{L}\sqrt{\frac{1}{2C_{4}L_{L}+C_{L}L_{L}}} + C_{L}R_{L}\sqrt{\frac{1}{2C_{4}L_{L}+C_{L}L_{L}}} \\ \text{wo: } \sqrt{\frac{1}{2C_{4}L_{L}+C_{L}L_{L}}} \\ \text{bandwidth: } \frac{\sqrt{\frac{1}{2C_{4}L_{L}+C_{L}L_{L}}}}{2C_{4}R_{L}\sqrt{\frac{1}{2C_{4}L_{L}+C_{L}L_{L}}}} + C_{L}R_{L}\sqrt{\frac{1}{2C_{4}L_{L}+C_{L}L_{L}}} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{R_{1}R_{L}g_{m}}{R_{1}g_{m}+1} \end{array}$$

Qz: None Wz: None

3.4 BP-4
$$Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L R_1 R_4 g_m s}{R_1 R_4 g_m + R_4 + s^2 \left(2 C_4 L_L R_1 R_4 g_m + 2 C_4 L_L R_4 + C_L L_L R_1 R_4 g_m + C_L L_L R_4\right) + s \left(2 L_L R_1 g_m + 2 L_L\right)}$$

Parameters:

$$\begin{array}{l} \text{Q: } C_4 R_4 \sqrt{\frac{1}{2C_4L_L + C_LL_L}} + \frac{C_L R_4 \sqrt{\frac{1}{2C_4L_L + C_LL_L}}}{2} \\ \text{wo: } \sqrt{\frac{1}{2C_4L_L + C_LL_L}} \\ \text{bandwidth: } \frac{\sqrt{\frac{1}{2C_4L_L + C_LL_L}}}{C_4 R_4 \sqrt{\frac{1}{2C_4L_L + C_LL_L}}} + \frac{C_L R_4 \sqrt{\frac{1}{2C_4L_L + C_LL_L}}}{2} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{R_1 R_4 g_m}{2R_1 g_m + 2} \\ \text{Qz: None} \\ \text{Wz: None} \end{array}$$

3.5 BP-5
$$Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s}{R_1 R_4 R_L g_m + R_4 R_L + s^2 \left(2 C_4 L_L R_1 R_4 R_L g_m + 2 C_4 L_L R_4 R_L + C_L L_L R_1 R_4 R_L g_m + C_L L_L R_4 R_L\right) + s \left(L_L R_1 R_4 g_m + 2 L_L R_1 R_L g_m + L_L R_4 + 2 L_L R_L\right)}$$

Parameters:

$$Q \colon \frac{2C_4R_4R_L\sqrt{\frac{1}{2C_4L_L+C_LL_L}} + C_LR_4R_L\sqrt{\frac{1}{2C_4L_L+C_LL_L}}}{R_4+2R_L} \\ \text{wo: } \sqrt{\frac{1}{2C_4L_L+C_LL_L}} \\ \text{bandwidth: } \frac{(R_4+2R_L)\sqrt{\frac{1}{2C_4L_L+C_LL_L}}}{2C_4R_4R_L\sqrt{\frac{1}{2C_4L_L+C_LL_L}} + C_LR_4R_L\sqrt{\frac{1}{2C_4L_L+C_LL_L}}} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{R_1R_4R_Lg_m}{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L} \\ \text{Qz: None} \\ \text{Wz: None}$$

3.6 BP-6
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$$

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

Q:
$$2C_4R_L\sqrt{\frac{1}{C_4L_4}}$$

wo: $\sqrt{\frac{1}{C_4L_4}}$
bandwidth: $\frac{1}{2C_4R_L}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1R_Lg_m}{R_1g_m+1}$
Qz: None
Wz: None

3.7 BP-7
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{R_L}{C_LR_Ls+1}\right)$$

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

Parameters:

Q:
$$2\sqrt{2}C_4R_L\sqrt{\frac{1}{2C_4L_4+C_LL_4}} + \sqrt{2}C_LR_L\sqrt{\frac{1}{2C_4L_4+C_LL_4}}$$
 wo: $\sqrt{2}\sqrt{\frac{1}{2C_4L_4+C_LL_4}}$ bandwidth:
$$\frac{\sqrt{2}\sqrt{\frac{1}{2C_4L_4+C_LL_4}}}{2\sqrt{2}C_4R_L\sqrt{\frac{1}{2C_4L_4+C_LL_4}} + \sqrt{2}C_LR_L\sqrt{\frac{1}{2C_4L_4+C_LL_4}}}$$
 K-LP: 0 K-HP: 0 K-BP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ Qz: None Wz: None

3.8 BP-8
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_4 L_L R_1 R_L g_m s}{L_4 R_1 R_L g_m + L_4 R_L + 2 L_L R_1 R_L g_m + 2 L_L R_L + s^2 \left(2 C_4 L_4 L_L R_1 R_L g_m + 2 C_4 L_4 L_L R_L + C_L L_4 L_L R_1 R_L g_m + C_L L_4 L_L R_L\right) + s \left(L_4 L_L R_1 g_m + L_4 L_L\right)}$$

Parameters:

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

3.9 BP-9
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, R_L\right)$$

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

Parameters:

Q:
$$\frac{2C_4R_4R_L\sqrt{\frac{1}{C_4L_4}}}{R_4+2R_L}$$

wo: $\sqrt{\frac{1}{C_4L_4}}$
bandwidth: $\frac{R_4+2R_L}{2C_4R_4R_L}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1R_4R_Lg_m}{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L}$
Qz: None
Wz: None

3.10 BP-10
$$Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{1}{C_L s}\right)$$

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

$$\begin{array}{l} \text{Q: } \sqrt{2}C_4R_4\sqrt{\frac{1}{2C_4L_4+C_LL_4}} + \frac{\sqrt{2}C_LR_4\sqrt{\frac{1}{2C_4L_4+C_LL_4}}}{2}\\ \text{wo: } \sqrt{2}\sqrt{\frac{1}{2C_4L_4+C_LL_4}}\\ \text{bandwidth: } \frac{\sqrt{2}\sqrt{\frac{1}{2C_4L_4+C_LL_4}}}{\sqrt{2}C_4R_4\sqrt{\frac{1}{2C_4L_4+C_LL_4}}} + \frac{\sqrt{2}C_LR_4\sqrt{\frac{1}{2C_4L_4+C_LL_4}}}{2}\\ \text{K-LP: 0}\\ \text{K-HP: 0}\\ \text{K-BP: } \frac{R_1R_4g_m}{2R_1g_m+2}\\ \text{Qz: None} \end{array}$$

3.11 BP-11 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

Wz: None

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

3.12 BP-12 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_4L_LR_1R_4g_ms}{L_4R_1R_4g_m + L_4R_4 + 2L_LR_1R_4g_m + 2L_LR_4 + s^2\left(2C_4L_4L_LR_1R_4g_m + 2C_4L_4L_LR_4 + C_LL_4L_LR_1R_4g_m + C_LL_4L_LR_4\right) + s\left(2L_4L_LR_1g_m + 2L_4L_L\right)}$$

Parameters:

$$\begin{array}{c} \text{Q: } C_4 R_4 \sqrt{\frac{L_4}{2C_4 L_4 L_L + C_L L_4 L_L}} + \frac{2L_L}{2C_4 L_4 L_L + C_L L_4 L_L} + \frac{C_L R_4 \sqrt{\frac{L_4}{2C_4 L_4 L_L + C_L L_4 L_L}} + \frac{2L_L}{2C_4 L_4 L_L + C_L L_4 L_L}}{2} \\ \text{wo: } \sqrt{\frac{L_4 + 2L_L}{2C_4 L_4 L_L + C_L L_4 L_L}} \\ \text{bandwidth: } \frac{\sqrt{\frac{L_4 + 2L_L}{2C_4 L_4 L_L + C_L L_4 L_L}}}{C_4 R_4 \sqrt{\frac{L_4}{2C_4 L_4 L_L + C_L L_4 L_L}} + \frac{2L_L}{2C_4 L_4 L_L + C_L L_4 L_L}} + \frac{C_L R_4 \sqrt{\frac{L_4}{2C_4 L_4 L_L + C_L L_4 L_L}} + \frac{2L_L}{2C_4 L_4 L_L + C_L L_4 L_L}}{2} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } \frac{R_1 R_4 g_m \sqrt{\frac{1}{2C_4 L_4 L_L + C_L L_4 L_L}} + \frac{2}{2C_4 L_4 L_L + C_L L_4 L_L}} + \frac{2}{2C_4 L_4 L_L + C_L L_4 L_L}} + \frac{2}{2C_4 L_4 L_L + C_L L_4 L_L}}{2} \\ \text{Qz: None} \\ \text{Wz: None} \end{array}$$

3.13 BP-13 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$

$$H(s) = \frac{L_4 L_L R_1 R_4 R_L g_m s}{L_4 R_1 R_4 R_L g_m + L_4 R_4 R_L + 2 L_L R_1 R_4 R_L g_m + 2 L_L R_4 R_L + s^2 \left(2 C_4 L_4 L_L R_1 R_4 R_L g_m + 2 C_4 L_4 L_L R_1 R_4 R_L g_m + C_L L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 g_m + 2 L_4 L_L R_1 R_4 g_m + L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_1 R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L g_m + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L + 2 L_4 L_L R_4 R_L \right) + s \left(L_4 L_L R_4 R_L + 2 L_4 L$$

Q:
$$\frac{2C_4R_4R_L\sqrt{\frac{L_4}{2C_4L_4L_L} + \frac{2L_L}{2C_4L_4L_L} } }{R_4 + 2R_L}$$
 wo:
$$\sqrt{\frac{L_4 + 2L_L}{2C_4L_4L_L + C_LL_4L_L}}$$

 $\text{bandwidth: } \frac{\sqrt{\frac{L_4+2L_L}{2C_4L_4L_L}}(R_4+2R_L)}{\frac{L_4}{2C_4L_4L_L+C_LL_4L_L} + \frac{2L_L}{2C_4L_4L_L+C_LL_4L_L}} + C_LR_4R_L\sqrt{\frac{L_4}{2C_4L_4L_L+C_LL_4L_L} + \frac{2L_L}{2C_4L_4L_L+C_LL_4L_L}}$

K-HP: 0

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

Wz: None

3.14 BP-14 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{1}{C_L s}\right)$

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

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{\sqrt{2}C_LL_1R_4g_m\sqrt{\frac{1}{C_LL_1R_4g_m}}}{C_LR_4+2L_1g_m} \\ & \text{wo:} \ \sqrt{2}\sqrt{\frac{1}{C_LL_1R_4g_m}} \\ & \text{bandwidth:} \ \frac{C_LR_4+2L_1g_m}{C_LL_1R_4g_m} \\ & \text{K-LP:} \ 0 \end{aligned}$$

K-HP: 0 K-BP: $\frac{L_1R_4g_m}{C_LR_4+2L_1g_m}$ Qz: None

Wz: None

3.15 BP-15 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

$$\begin{aligned} &\text{Q:} \ \frac{C_L L_1 R_4 R_L g_m \sqrt{\frac{1}{C_L L_1 R_L g_m} + \frac{2}{C_L L_1 R_4 g_m}}}{C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m} \\ &\text{wo:} \ \sqrt{\frac{R_4 + 2R_L}{C_L L_1 R_4 R_L g_m}} \\ &\text{bandwidth:} \ \frac{\sqrt{\frac{R_4 + 2R_L}{C_L L_1 R_4 R_L g_m}}(C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m)}{C_L L_1 R_4 R_L g_m \sqrt{\frac{1}{C_L L_1 R_L g_m} + \frac{2}{C_L L_1 R_4 g_m}}} \\ &\text{K-LP:} \ 0 \end{aligned}$$

K-HP: 0

K-BP: $\frac{L_1 R_4 R_L g_m}{C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m}$

Qz: None Wz: None

3.16 BP-16 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L\right)$

$$H(s) = \frac{L_1 R_L g_m s}{2C_4 L_1 R_L g_m s^2 + s (2C_4 R_L + L_1 g_m) + 1}$$

Parameters:

Wz: None

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{2}C_4L_1R_Lg_m\sqrt{\frac{1}{C_4L_1R_Lg_m}}}{2C_4R_L+L_1g_m} \\ \text{wo:} \ \frac{\sqrt{2}\sqrt{\frac{1}{C_4L_1R_Lg_m}}}{2} \\ \text{bandwidth:} \ \frac{2C_4R_L+L_1g_m}{2C_4L_1R_Lg_m} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{L_1R_Lg_m}{2C_4R_L+L_1g_m} \\ \text{Qz:} \ \text{None} \end{array}$$

3.17 BP-17
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

3.18 BP-18
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)$$

Parameters:

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

3.19 BP-19
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$$

Q:
$$\frac{2\sqrt{2}C_4L_1R_4g_m\sqrt{\frac{1}{2C_4L_1R_4g_m}+C_LL_1R_4g_m}}+\sqrt{2}C_LL_1R_4g_m\sqrt{\frac{1}{2C_4L_1R_4g_m}+C_LL_1R_4g_m}}{2C_4R_4+C_LR_4+2L_1g_m}$$
 wo:
$$\sqrt{2}\sqrt{\frac{1}{2C_4L_1R_4g_m+C_LL_1R_4g_m}}$$
 bandwidth:
$$\frac{\sqrt{2}(2C_4R_4+C_LR_4+2L_1g_m)\sqrt{\frac{1}{2C_4L_1R_4g_m+C_LL_1R_4g_m}}}{2\sqrt{2}C_4L_1R_4g_m\sqrt{\frac{1}{2C_4L_1R_4g_m}+C_LL_1R_4g_m}}}+\sqrt{2}C_LL_1R_4g_m\sqrt{\frac{1}{2C_4L_1R_4g_m+C_LL_1R_4g_m}}}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{L_1R_4g_m}{2C_4R_4+C_LR_4+2L_1g_m}$$
 Qz: None Wz: None

$$H(s) = \frac{L_1 R_L g_m s}{s^2 \left(2C_4 L_1 R_L g_m + C_L L_1 R_L g_m\right) + s \left(2C_4 R_L + C_L R_L + L_1 g_m\right) + 1}$$

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

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

3.20 BP-20
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

$$\begin{array}{c} \text{Q:} \frac{R_4}{2C_4L_1R_4R_Lg_m}\sqrt{\frac{R_4}{2C_4L_1R_4R_Lg_m}+\frac{2R_L}{2C_4L_1R_4R_Lg_m}+\frac{2R_L}{2C_4L_1R_4R_Lg_m}+\frac{2R_L}{2C_4L_1R_4R_Lg_m}+\frac{2R_L}{2C_4L_1R_4R_Lg_m}+\frac{2R_L}{2C_4L_1R_4R_Lg_m}+\frac{2R_L}{2C_4L_1R_4R_Lg_m}} \\ \text{wo:} \sqrt{\frac{R_4+2R_L}{2C_4L_1R_4R_Lg_m}} \\ \text{bandwidth:} \frac{R_4+2R_L}{2C_4L_1R_4R_Lg_m}\sqrt{\frac{R_4+2R_L}{2C_4L_1R_4R_Lg_m}+\frac{2R_L}{2R_Lg_m}}(2C_4R_4R_L+C_LR_4R_L+L_1R_4g_m+2L_1R_Lg_m)} \\ \text{bandwidth:} \frac{Q_2C_4L_1R_4R_Lg_m\sqrt{\frac{R_4}{2C_4L_1R_4R_Lg_m}+\frac{2R_L}{2R_Lg_m}}(2C_4R_4R_L+C_LR_4R_L+L_1R_4g_m+2L_1R_Lg_m)}{2C_4L_1R_4R_Lg_m\sqrt{\frac{2C_4L_1R_4R_Lg_m}{2C_4L_1R_4R_Lg_m}+\frac{2R_L$$

3.21 BP-21
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, R_L\right)$$

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

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1\sqrt{\frac{1}{C_1L_1}}}{g_m} \\ \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth:} \ \frac{g_m}{C_1} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_4R_L}{R_4+2R_L} \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \text{None} \end{array}$$

3.22 BP-22
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, R_L\right)$$

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

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1R_1\sqrt{\frac{1}{C_1L_1}}}{R_1g_m+1} \\ \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth:} \ \frac{R_1g_m+1}{C_1R_1} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{R_1R_4R_Lg_m}{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L} \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \text{None} \end{array}$$

4 LP

4.1 LP-1 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{1}{C_L s}\right)$

Parameters:

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

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

Parameters:

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

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

Parameters:

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

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

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

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

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

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

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

4.5 LP-5
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)$$

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

4.6 LP-6
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$$

Parameters:

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

4.7 LP-7
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

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

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

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

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

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

K-LP: $\frac{R_4R_L}{R_4+2R_L}$ K-HP: 0 K-BP: 0 Qz: None Wz: None

4.8 LP-8
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, \frac{1}{C_L s}\right)$$

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

Parameters:

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

4.9 LP-9
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{R_1 R_4 R_L g_m}{C_1 C_L R_1 R_4 R_L s^2 + R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s \left(C_1 R_1 R_4 + 2 C_1 R_1 R_L + C_L R_1 R_4 R_L g_m + C_L R_4 R_L \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1C_LR_1R_4R_L\sqrt{\frac{g_m}{C_1C_LR_L}} + \frac{2g_m}{C_1C_LR_1} + \frac{1}{C_1C_LR_1R_L} + \frac{2}{C_1C_LR_1R_4}}{C_1R_1R_4 + 2C_1R_1R_L + C_LR_1} R_4R_Lg_m + C_LR_4R_L} \\ \text{wo:} \ \sqrt{\frac{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L}{C_1C_LR_1R_4R_L}}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L}{C_1C_LR_1R_4R_L}}}{\frac{C_1C_LR_1R_4R_L}{C_1C_LR_1R_4R_L}} (C_1R_1R_4 + 2C_1R_1R_L + C_LR_1R_4R_Lg_m + C_LR_4R_L)}{C_1C_LR_1R_4R_L}} \\ \text{K-LP:} \ \frac{R_1R_4g_m + 2R_1R_4g_m}{R_1R_4g_m + 2R_1R_Lg_m} + \frac{2g_m}{C_1C_LR_1R_4} + \frac{1}{C_1C_LR_1R_L} + \frac{2}{C_1C_LR_1R_4}} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \text{None} \end{array}$$

4.10 LP-10
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L\right)$$

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

Parameters:

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

4.11 LP-11
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

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

4.12 LP-12 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)$

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

Parameters:

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

4.13 LP-13 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$

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

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

4.14 LP-14
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

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

 $\frac{\overline{+2R_1R_Lg_m+R_4+2R_L}}{R_AR_L+C_1C_TR_1R_AR_L}(C_1R_1R_4+2C_1R_1R_L+2C_4R_1R_4R_Lg_m+2C_4R_4R_L+C_LR_1R_4R_Lg_m+C_LR_4R_L)$

K-LP: $\frac{R_{1}R_{4}R_{L}g_{m}}{R_{1}R_{4}g_{m}+2R_{1}R_{L}g_{m}+R_{4}+2R_{L}}$ K-HP: 0

K-BP: 0 Qz: None

Wz: None

4.15 LP-15 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\right)$

$$H(s) = \frac{L_1 g_m}{2C_4 + C_L + s^2 \left(2C_1 C_4 L_1 + C_1 C_L L_1\right) + s \left(2C_4 L_1 g_m + C_L L_1 g_m\right)}$$

Parameters:

Q:
$$\frac{C_1\sqrt{\frac{1}{C_1L_1}}}{\frac{g_m}{W}}$$
wo:
$$\sqrt{\frac{1}{C_1L_1}}$$
bandwidth:
$$\frac{g_m}{C_1}$$
K-LP:
$$\frac{L_1g_m}{2C_4+C_L}$$
K-HP: 0

K-BP: 0

Qz: None

Wz: None

4.16 LP-16 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\right)$

$$H(s) = \frac{L_1 R_1 g_m}{2 C_4 R_1 + C_L R_1 + s^2 \left(2 C_1 C_4 L_1 R_1 + C_1 C_L L_1 R_1\right) + s \left(2 C_4 L_1 R_1 g_m + 2 C_4 L_1 + C_L L_1 R_1 g_m + C_L L_1\right)}$$

Parameters:

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

bandwidth: $\frac{R_1g_m+1}{C_1R_1}$ K-LP: $\frac{L_1g_m}{2C_4+C_L}$ K-HP: 0

K-BP: 0

Qz: None

Wz: None

5 BS

5.1 BS-1
$$Z(s) = \left(R_1, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_4 g_m s^2 + R_1 R_4 g_m}{2 R_1 g_m + s^2 \left(2 C_L L_L R_1 g_m + 2 C_L L_L \right) + s \left(C_L R_1 R_4 g_m + C_L R_4 \right) + 2}$$

$$\begin{array}{l} \text{Q:} \ \frac{2L_L\sqrt{\frac{1}{C_LL_L}}}{R_4} \\ \text{wo:} \ \sqrt{\frac{1}{C_LL_L}} \\ \text{bandwidth:} \ \frac{R_4}{2L_L} \\ \text{K-LP:} \ \frac{R_1R_4g_m}{2R_1g_m+2} \\ \text{K-HP:} \ \frac{R_1R_4g_m}{2R_1g_m+2} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_LL_L}} \end{array}$$

5.2 BS-2
$$Z(s) = \left(R_1, \infty, \infty, R_4, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_4 R_L g_m s^2 + R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^2 \left(C_L L_L R_1 R_4 g_m + 2 C_L L_L R_1 R_L g_m + C_L L_L R_4 + 2 C_L L_L R_L \right) + s \left(C_L R_1 R_4 R_L g_m + C_L R_4 R_L \right)}$$

Parameters:

$$\begin{aligned} &\text{Q:} \ \frac{L_L R_4 \sqrt{\frac{1}{C_L L_L}} + 2L_L R_L \sqrt{\frac{1}{C_L L_L}}}{R_4 R_L} \\ &\text{wo:} \ \sqrt{\frac{1}{C_L L_L}} \\ &\text{bandwidth:} \ \frac{R_4 R_L \sqrt{\frac{1}{C_L L_L}}}{L_L R_4 \sqrt{\frac{1}{C_L L_L}} + 2L_L R_L \sqrt{\frac{1}{C_L L_L}}} \\ &\text{K-LP:} \ \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L} \\ &\text{K-HP:} \ \frac{R_1 R_4 g_m + 2R_1 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L} \\ &\text{K-BP:} \ 0 \\ &\text{Qz:} \ \text{None} \\ &\text{Wz:} \ \sqrt{\frac{1}{C_L L_L}} \end{aligned}$$

5.3 BS-3
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)$$

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

$$\begin{array}{l} \text{Q:} \ \frac{L_4\sqrt{\frac{1}{C_4L_4}}}{2R_L} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{2R_L}{L_4} \\ \text{K-LP:} \ \frac{R_1R_Lg_m}{R_1g_m+1} \\ \text{K-HP:} \ \frac{R_1R_Lg_m}{R_1g_m+1} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

5.4 BS-4
$$Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, R_L\right)$$

$$H(s) = \frac{C_4L_4R_1R_4R_Lg_ms^2 + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^2\left(C_4L_4R_1R_4g_m + 2C_4L_4R_1R_Lg_m + C_4L_4R_4 + 2C_4L_4R_L\right) + s\left(2C_4R_1R_4R_Lg_m + 2C_4R_4R_L\right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_4R_4\sqrt{\frac{1}{C_4L_4}}+2L_4R_L\sqrt{\frac{1}{C_4L_4}}}{2R_4R_L} \\ \text{wo:} \ \sqrt{\frac{1}{C_4L_4}} \\ \text{bandwidth:} \ \frac{2R_4R_L\sqrt{\frac{1}{C_4L_4}}}{L_4R_4\sqrt{\frac{1}{C_4L_4}}+2L_4R_L\sqrt{\frac{1}{C_4L_4}}} \\ \text{K-LP:} \ \frac{R_1R_4R_Lg_m}{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L} \\ \text{K-HP:} \ \frac{R_1R_4g_m+2R_1R_Lg_m}{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_4L_4}} \end{array}$$

5.5 BS-5
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L\right)$$

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

Parameters:

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

wo: $\sqrt{\frac{1}{C_1 L_1}}$
bandwidth: $\frac{1}{L_1 g_m}$
K-LP: $\frac{R_4 R_L}{R_4 + 2 R_L}$
K-HP: $\frac{R_4 R_L}{R_4 + 2 R_L}$
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_1 L_1}}$

5.6 BS-6
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, R_L\right)$$

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

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{L_1 R_1 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 \sqrt{\frac{1}{C_1 L_1}}}{R_1} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1 L_1}} \\ & \text{bandwidth:} \ \frac{R_1 \sqrt{\frac{1}{C_1 L_1}}}{L_1 R_1 g_m \sqrt{\frac{1}{C_1 L_1}} + L_1 \sqrt{\frac{1}{C_1 L_1}}} \\ & \text{K--LP:} \ \frac{R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L} \\ & \text{K--HP:} \ \frac{R_1 R_4 g_m + 2 R_1 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L} \\ & \text{K--BP:} \ 0 \\ & \text{Qz:} \ \text{None} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_1 L_1}} \end{aligned}$$

6 GE

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

$$H(s) = \frac{C_L L_L R_1 R_4 g_m s^2 + C_L R_1 R_4 R_L g_m s + R_1 R_4 g_m}{2R_1 g_m + s^2 \left(2C_L L_L R_1 g_m + 2C_L L_L\right) + s \left(C_L R_1 R_4 g_m + 2C_L R_1 R_L g_m + C_L R_4 + 2C_L R_L\right) + 2}$$

$$\begin{aligned} & \text{Q:} \ \frac{2L_L\sqrt{\frac{1}{C_LL_L}}}{R_4+2R_L} \\ & \text{wo:} \ \sqrt{\frac{1}{C_LL_L}} \\ & \text{bandwidth:} \ \frac{R_4+2R_L}{2L_L} \\ & \text{K-LP:} \ \frac{R_1R_4g_m}{2R_1g_m+2} \\ & \text{K-HP:} \ \frac{R_1R_4g_m}{2R_1g_m+2} \\ & \text{K-BP:} \ \frac{R_1R_4g_m}{C_LL_L} \\ & \text{Qz:} \ \frac{L_L\sqrt{\frac{1}{C_LL_L}}}{R_L} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_LL_L}} \end{aligned}$$

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

$$H(s) = \frac{C_L L_L R_1 R_4 R_L g_m s^2 + L_L R_1 R_4 g_m s + R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^2 \left(C_L L_L R_1 R_4 g_m + 2 C_L L_L R_1 R_L g_m + C_L L_L R_4 + 2 C_L L_L R_L \right) + s \left(2 L_L R_1 g_m + 2 L_L \right)}{R_1 R_4 g_m + R_4 + 2 R_L + s^2 \left(C_L L_L R_1 R_4 g_m + 2 C_L L_L R_1 R_L g_m + C_L L_L R_4 + 2 C_L L_L R_L \right) + s \left(2 L_L R_1 g_m + 2 L_L \right)}$$

Parameters:

$$Q: \frac{C_L R_4 \sqrt{\frac{1}{C_L L_L}}}{2} + C_L R_L \sqrt{\frac{1}{C_L L_L}}$$
wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{\sqrt{\frac{1}{C_L L_L}}}{\frac{C_L R_4 \sqrt{\frac{1}{C_L L_L}}}{2} + C_L R_L \sqrt{\frac{1}{C_L L_L}}}$
K-LP: $\frac{R_1 R_4 q_m}{R_1 R_4 q_m + 2 R_1 R_L g_m}$
K-HP: $\frac{R_1 R_4 q_m}{R_1 R_4 q_m + 2 R_1 R_L g_m + R_4 + 2 R_L}$
K-BP: $\frac{R_1 R_4 q_m}{2 R_1 g_m + 2}$
Qz: $C_L R_L \sqrt{\frac{1}{C_L L_L}}$
Wz: $\sqrt{\frac{1}{C_L L_L}}$

6.3 GE-3
$$Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$$

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

$$Q: \frac{L_4\sqrt{\frac{1}{C_4L_4}}}{R_4+2R_L}$$
 wo: $\sqrt{\frac{1}{C_4L_4}}$ bandwidth: $\frac{R_4+2R_L}{L_4}$ K-LP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ K-HP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ K-BP: $\frac{R_1R_4R_Lg_m}{R_1R_4g_m+2R_1R_Lg_m+R_4+2R_L}$ Qz: $\frac{L_4\sqrt{\frac{1}{C_4L_4}}}{R_4}$ Wz: $\sqrt{\frac{1}{C_4L_4}}$

6.4 GE-4
$$Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, R_L\right)$$

$$H(s) = \frac{C_4L_4R_1R_4R_Lg_ms^2 + L_4R_1R_Lg_ms + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^2\left(C_4L_4R_1R_4g_m + 2C_4L_4R_1R_Lg_m + C_4L_4R_4 + 2C_4L_4R_L\right) + s\left(L_4R_1g_m + L_4\right)}$$

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

6.5 GE-5
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L\right)$$

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

Parameters:

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

6.6 GE-6
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \infty, R_L\right)$$

$$H(s) = \frac{C_1L_1R_1R_4R_Lg_ms^2 + L_1R_4R_Lg_ms + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^2\left(C_1L_1R_1R_4g_m + 2C_1L_1R_1R_Lg_m + C_1L_1R_4 + 2C_1L_1R_L\right) + s\left(L_1R_4g_m + 2L_1R_Lg_m\right)}$$

$$Q \colon \frac{C_1 R_1 g_m \sqrt{\frac{1}{C_1 L_1}} + C_1 \sqrt{\frac{1}{C_1 L_1}}}{g_m}$$
 wo: $\sqrt{\frac{1}{C_1 L_1}}$ bandwidth:
$$\frac{g_m \sqrt{\frac{1}{C_1 L_1}}}{C_1 R_1 g_m \sqrt{\frac{1}{C_1 L_1}} + C_1 \sqrt{\frac{1}{C_1 L_1}}}$$
 K-LP:
$$\frac{R_1 R_4 g_m + 2R_1 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$$
 K-HP:
$$\frac{R_1 R_4 g_m + 2R_1 R_L g_m}{R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L}$$
 K-BP:
$$\frac{R_4 R_L}{R_4 + 2R_L}$$
 Qz: $C_1 R_1 \sqrt{\frac{1}{C_1 L_1}}$ Wz: $\sqrt{\frac{1}{C_1 L_1}}$

7 AP

INVALID-NUMER

8.1 INVALID-NUMER-1 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L R_1 R_4 R_L g_m s + R_1 R_4 g_m}{2R_1 g_m + s^2 \left(2C_4 C_L R_1 R_4 R_L g_m + 2C_4 C_L R_4 R_L\right) + s \left(2C_4 R_1 R_4 g_m + 2C_4 R_4 + C_L R_1 R_4 g_m + 2C_L R_1 R_L g_m + C_L R_4 + 2C_L R_L\right) + 2C_L R_1 R_2 g_m}$$

Parameters:

Q: $\frac{2C_4C_LR_4R_L\sqrt{\frac{1}{C_4C_LR_4R_L}}}{2C_4R_4 + C_LR_4 + 2C_LR_L}$ wo: $\sqrt{\frac{1}{C_4 C_L R_4 R_L}}$ bandwidth: $\frac{2C_4 R_4 + C_L R_4 + 2C_L R_L}{2C_4 C_L R_4 R_L}$

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

K-BP: $\frac{C_L R_1 R_4 R_L g_m}{2C_4 R_1 R_4 g_m + 2C_4 R_4 + C_L R_1 R_4 g_m + 2C_L R_1 R_L g_m + C_L R_4 + 2C_L R_L}$ Qz: None

Wz: None

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

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

Parameters:

Q: $\frac{C_4 C_L R_4 R_L \sqrt{\frac{1}{C_4 C_L R_4 R_L}}}{C_4 R_4 + 2 C_4 R_L + C_L R_L}$ WO: $\sqrt{\frac{1}{C_4 C_L R_4 R_L}}$ bandwidth: $\frac{C_4R_4+2C_4R_L+C_LR_L}{C_4C_LR_4R_L}$ K-LP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ K-HP: 0

K-BP: $\frac{C_4R_1R_4R_Lg_m}{C_4R_1R_4g_m + 2C_4R_1R_Lg_m + C_4R_4 + 2C_4R_L + C_LR_1R_Lg_m + C_LR_L}$

Qz: None Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$

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

Parameters:

Q: $\frac{\sqrt{2C_LL_1R_4g_m}\sqrt{\frac{1}{C_LL_1R_4g_m+2C_LL_1R_Lg_m}}+2\sqrt{2C_LL_1R_Lg_m}\sqrt{\frac{1}{C_LL_1R_4g_m+2C_LL_1R_Lg_m}}}{\frac{C_LR_4+2C_LR_L+2L_1g_m}{}}$ wo: $\sqrt{2}\sqrt{\frac{1}{C_L L_1 R_4 g_m + 2C_L L_1 R_L g_m}}$ bandwidth: $\frac{\sqrt{2}(C_L R_4 + 2C_L R_L + 2L_1 g_m)\sqrt{\frac{1}{C_L L_1 R_4 g_m + 2C_L L_1 R_L g_m}}}{\sqrt{2}C_L L_1 R_4 g_m \sqrt{\frac{1}{C_L L_1 R_4 g_m + 2C_L L_1 R_L g_m}} + 2\sqrt{2}C_L L_1 R_L g_m \sqrt{\frac{1}{C_L L_1 R_4 g_m + 2C_L L_1 R_L g_m}}}$

K-HP: $\frac{R_4R_L}{R_4+2R_L}$ K-BP: $\frac{L_1R_4g_m}{C_LR_4+2C_LR_L+2L_1g_m}$ Qz: None

Wz: None

8.4 INVALID-NUMER-4 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$

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

Parameters:

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

8.5 INVALID-NUMER-5 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$

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

Parameters:

$$Q \colon \frac{C_4 L_1 R_4 g_m \sqrt{\frac{1}{C_4 L_1 R_4 g_m + 2C_4 L_1 R_L g_m}} + 2C_4 L_1 R_L g_m \sqrt{\frac{1}{C_4 L_1 R_4 g_m + 2C_4 L_1 R_L g_m}}}{C_4 R_4 + 2C_4 R_L + L_1 g_m}$$
 wo:
$$\sqrt{\frac{1}{C_4 L_1 R_4 g_m + 2C_4 L_1 R_L g_m}}$$
 bandwidth:
$$\frac{(C_4 R_4 + 2C_4 R_L + L_1 g_m) \sqrt{\frac{1}{C_4 L_1 R_4 g_m + 2C_4 L_1 R_L g_m}}}{C_4 L_1 R_4 g_m \sqrt{\frac{1}{C_4 L_1 R_4 g_m + 2C_4 L_1 R_L g_m}}} + 2C_4 L_1 R_L g_m \sqrt{\frac{1}{C_4 L_1 R_4 g_m + 2C_4 L_1 R_L g_m}}}$$
 K-LP:
$$0$$
 K-HP:
$$\frac{R_4 R_L}{R_4 + 2R_L}$$
 K-BP:
$$\frac{L_1 R_L g_m}{C_4 R_4 + 2C_4 R_L + L_1 g_m}$$
 Qz: None Wz: None

8.6 INVALID-NUMER-6 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$

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

$$\begin{aligned} & \text{Q:} \ \frac{C_4 C_L L_1 R_4 g_m \sqrt{\frac{2}{C_L L_1 R_4 g_m}} + \frac{1}{C_4 L_1 R_4 g_m}}{C_4 C_L R_4 + 2 C_4 L_1 g_m + C_L L_1 g_m} \\ & \text{wo:} \ \sqrt{\frac{2 C_4 + C_L}{C_4 C_L L_1 R_4 g_m}} \\ & \text{bandwidth:} \ \frac{\sqrt{\frac{2 C_4 + C_L}{C_4 C_L L_1 R_4 g_m}} (C_4 C_L R_4 + 2 C_4 L_1 g_m + C_L L_1 g_m)}{C_4 C_L L_1 R_4 g_m \sqrt{\frac{2}{C_L L_1 R_4 g_m}} + \frac{1}{C_4 L_1 R_4 g_m}} \\ & \text{K-LP:} \ \frac{L_1 g_m}{2 C_4 + C_L} \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ \frac{C_4 L_1 R_4 g_m}{C_4 C_L R_4 + 2 C_4 L_1 g_m + C_L L_1 g_m} \\ & \text{Qz:} \ \text{None} \\ & \text{Wz:} \ \text{None} \end{aligned}$$

8.7 INVALID-NUMER-7 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$

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

Parameters:

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

8.8 INVALID-NUMER-8 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$

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

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1C_4R_4\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_L}}+2C_1C_4R_L\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_L}}}{C_1+C_4R_4g_m+2C_4R_Lg_m} \\ \text{wo:} \ \sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_L}} \\ \text{bandwidth:} \ \frac{\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_L}}}{C_1C_4R_4\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_L}}}+2C_1C_4R_4g_m+2C_4R_Lg_m) \\ \text{bandwidth:} \ \frac{\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_L}}}{C_1C_4R_4\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_L}}}+2C_1C_4R_L\sqrt{\frac{g_m}{C_1C_4R_4+2C_1C_4R_L}} \\ \text{K-LP:} \ R_L \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_4R_4R_Lg_m}{C_1+C_4R_4g_m+2C_4R_Lg_m} \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \text{None} \end{array}$$

8.9 INVALID-NUMER-9 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$

Parameters:

Wz: None

$$Q: \frac{\sqrt{2C_1C_LR_1R_4\sqrt{\frac{R_1g_m}{C_1C_LR_1R_4} + \frac{C_1C_LR_1R_4}{C_1C_LR_1R_4} + 2C_1C_LR_1R_L}} + 2\sqrt{2C_1C_LR_1R_4\sqrt{\frac{R_1g_m}{C_1C_LR_1R_4} + 2C_1C_LR_1R_L}}} \\ vo: \sqrt{\frac{2R_1g_m + 2}{C_1C_LR_1R_4 + 2C_1C_LR_1R_L}} \\ bandwidth: \frac{\sqrt{\frac{2R_1g_m + 2}{C_1C_LR_1R_4 + 2C_1C_LR_1R_L}}} {\sqrt{\frac{2R_1g_m + 2}{C_1C_LR_1R_4 + 2C_1C_LR_1R_L}}} (2C_1R_1 + C_LR_1R_4g_m + 2C_LR_1R_4g_m + 2C_LR_1R_4$$

8.10 INVALID-NUMER-10 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$

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

Parameters:

 $\begin{aligned} & \text{Q:} \frac{\text{C}_{1}C_{4}R_{1}R_{4}}{\sqrt{\sum_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + \sum_{1}C_{4}R_{1}R_{4}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}} + C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} \\ & \text{wo:} \frac{1}{\sqrt{\frac{R_{1}g_{m}+1}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}}}} \\ & \text{bandwidth:} \frac{1}{\sqrt{\frac{R_{1}g_{m}+1}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}}} (C_{1}R_{1}+C_{4}R_{1}R_{4}g_{m}+C_{4}R_{4}+2C_{4}R_{L}}) \\ & \text{bandwidth:} \frac{1}{\sqrt{\frac{R_{1}g_{m}+1}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}}} (C_{1}R_{1}+C_{4}R_{1}R_{4}g_{m}+C_{4}R_{4}+2C_{4}R_{L}}) \\ & \text{bandwidth:} \frac{1}{\sqrt{\frac{R_{1}g_{m}+1}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} (C_{1}R_{1}+C_{4}R_{1}R_{4}g_{m}+C_{4}R_{4}+2C_{4}R_{L}}) \\ & \text{bandwidth:} \frac{1}{\sqrt{\frac{R_{1}g_{m}+1}{C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}} + C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}} + C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}} \\ & \text{K-LP:} \frac{R_{1}R_{L}g_{m}}{R_{1}g_{m}+1}} \\ & \text{K-HP:} 0 \\ & \text{C}_{4}R_{1}R_{4}R_{L}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + C_{4}R_{1}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + C_{4}R_{1}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + C_{4}R_{1}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + C_{4}R_{1}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + C_{4}R_{1}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + C_{4}R_{1}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}}} + C_{4}R_{4}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}} + C_{4}R_{4}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}}} + C_{4}R_{4}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}}} + C_{4}R_{4}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}}} + C_{4}R_{4}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}{C_{1}C_{4}R_{1}R_{4}+2C_{1}C_{4}R_{1}R_{L}}}} + C_{4}R_{4}R_{4}g_{m}\sqrt{\frac{R_{1}g_{m}}$

8.11 INVALID-NUMER-11 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{1}{C_L s}\right)$

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

Parameters:

8.12 INVALID-NUMER-12 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_1 R_1 R_4 R_L g_m s + R_4 R_L g_m}{R_4 g_m + 2 R_L g_m + s^2 \left(C_1 C_L R_1 R_4 R_L g_m + C_1 C_L R_4 R_L \right) + s \left(C_1 R_1 R_4 g_m + 2 C_1 R_1 R_L g_m + C_1 R_4 + 2 C_1 R_L + C_L R_4 R_L g_m \right)}$$

Parameters:

Wz: None

 $Q: \frac{C_1C_LR_1R_4R_Lg_m\sqrt{\frac{R_4g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_4R_L\sqrt{\frac{R_4g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_4R_L\sqrt{\frac{R_4g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_4R_Lg_m)}{C_1R_1R_4g_m+2C_1R_1R_2g_m+C_1C_LR_4R_L}$ $wo: \sqrt{\frac{R_4g_m+2R_Lg_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}}$ $bandwidth: \frac{\sqrt{\frac{R_4g_m+2R_Lg_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} (C_1R_1R_4g_m+2C_1R_1R_Lg_m+C_1R_4+C_LR_4R_Lg_m)}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L} + C_1C_LR_4R_L\sqrt{\frac{R_4g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_4R_L\sqrt{\frac{R_4g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}$ $K-LP: \frac{R_4R_L}{R_4+2R_L}$ K-HP: 0 $C_1R_1R_4g_m\sqrt{\frac{g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_1R_Lg_m\sqrt{\frac{R_4g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_1R_4g_m\sqrt{\frac{g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_1R_4g_m+C_1C_LR_4R_L} + C_1C_LR_1R_4g_m\sqrt{\frac{g_m}{C_1C_LR_1R_4R_Lg_m+C_1C_LR_4R_L}} + C_1C_LR_1R_4g_m+C_1C_LR_4R_L} + C_1C_LR_1R_4g$

8.13 INVALID-NUMER-13 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L\right)$

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

Parameters:

$$Q \colon \frac{\sqrt{2}C_{1}C_{4}R_{1}R_{L}g_{m}\sqrt{\frac{g_{m}}{C_{1}C_{4}R_{1}R_{L}g_{m}+C_{1}C_{4}R_{L}}} + \sqrt{2}C_{1}C_{4}R_{L}\sqrt{\frac{g_{m}}{C_{1}C_{4}R_{1}R_{L}g_{m}+C_{1}C_{4}R_{L}}} } } \\ \text{Wo:} \quad \frac{C_{1}R_{1}g_{m}+C_{1}+2C_{4}R_{L}g_{m}}{\sqrt{\frac{g_{m}}{2C_{1}C_{4}R_{1}R_{L}g_{m}+2C_{1}C_{4}R_{L}}}} (C_{1}R_{1}g_{m}+C_{1}+2C_{4}R_{L}g_{m}}) \\ \text{bandwidth:} \quad \frac{\sqrt{\frac{g_{m}}{2C_{1}C_{4}R_{1}R_{L}g_{m}+2C_{1}C_{4}R_{L}}} (C_{1}R_{1}g_{m}+C_{1}+2C_{4}R_{L}g_{m}})}{\sqrt{\frac{g_{m}}{2C_{1}C_{4}R_{1}R_{L}g_{m}+C_{1}C_{4}R_{L}}} + \sqrt{2}C_{1}C_{4}R_{L}\sqrt{\frac{g_{m}}{C_{1}C_{4}R_{1}R_{L}g_{m}+C_{1}C_{4}R_{L}}}} \\ \text{K-LP:} \quad R_{L} \\ \text{K-HP:} \quad 0 \\ \text{K-BP:} \quad \frac{C_{1}R_{1}R_{L}g_{m}}{C_{1}R_{1}g_{m}+C_{1}+2C_{4}R_{L}g_{m}}}{Q_{Z} : \text{None}} \\ \text{Wz:} \quad \text{None} \\ \end{aligned}$$

8.14 INVALID-NUMER-14 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

$$Q: \frac{2^{C_1C_4R_1R_Lg_m}\sqrt{\frac{g_m}{2C_1C_4R_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+C_1C_LR_L}} + 2^{C_1C_4R_L}\sqrt{\frac{g_m}{2C_1C_4R_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_L+C_1C_LR_1R_Lg_m+2C_1C_4R_1R_Lg_m+2C_1C_4R_1R_Lg_m+2C_$$

8.15 INVALID-NUMER-15 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)$

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

Parameters:

Wz: None

$$\begin{array}{l} \text{Q:} & \frac{\sqrt{2}C_{1}C_{4}R_{1}R_{4}R_{L}g_{m}\sqrt{\frac{R_{4}g_{m}}{C_{1}C_{4}R_{1}R_{4}R_{L}^{L}} + \frac{2R_{1}g_{m}}{C_{1}C_{4}R_{4}R_{4}g_{m} + C_{1}C_{4}R_{4}R_{L}} + \frac{2R_{1}g_{m}}{C_{1}C_{4}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}} + \frac{2R_{1}g_{m}}{C_{1}C_{4}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}} + \frac{2R_{1}g_{m}}{C_{1}C_{4}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}} + \frac{2R_{1}g_{m}}{C_{1}C_{4}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}} \\ \text{wo:} & \sqrt{\frac{R_{4}g_{m} + 2R_{L}g_{m}}{2C_{1}C_{4}R_{4}R_{4}R_{L}g_{m} + 2C_{1}R_{1}R_{L}g_{m} + C_{1}R_{4}} + C_{1}R_{L}g_{m} + C_{1}R_{L}g_{m} + C_{1}R_{4}g_{L}g_{m}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m} + 2R_{L}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}{2R_{1}g_{m} + C_{1}C_{4}R_{4}R_{L}}} + \sqrt{C_{1}C_{4}R_{4}R_{L}g_{m}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}{2R_{1}g_{m} + C_{1}C_{4}R_{4}R_{L}}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}}{\sqrt{C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}}} + \sqrt{2C_{1}C_{4}R_{4}R_{L}g_{m}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}}{\sqrt{C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}}} + \sqrt{2C_{1}C_{4}R_{4}R_{L}g_{m}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}{2R_{1}g_{m} + C_{1}C_{4}R_{4}R_{L}}}} + \sqrt{2C_{1}C_{4}R_{4}R_{L}g_{m}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2R_{1}g_{m} + C_{1}C_{4}R_{4}R_{L}}}{\sqrt{C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}}} + \sqrt{2C_{1}C_{4}R_{4}R_{L}g_{m}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2R_{1}g_{m} + C_{1}C_{4}R_{4}R_{L}}}{\sqrt{C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}}}} + \sqrt{2C_{1}C_{4}R_{4}R_{L}g_{m}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2R_{1}g_{m} + C_{1}C_{4}R_{4}R_{L}}} + \sqrt{2C_{1}C_{4}R_{4}R_{L}g_{m} + C_{1}C_{4}R_{4}R_{L}g_{m}}} \\ \text{bandwidth:} & \sqrt{\frac{R_{4}g_{m}}{2R_{1}g_{m} + C_{1}C_{4}R_{4}$$

8.16 INVALID-NUMER-16
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$$

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

 $Q: \frac{2\sqrt{2}C_1C_4R_1R_4g_m\sqrt{\frac{g_m}{2C_1C_4R_1R_4g_m+2C_1C_4R_4}+2\sqrt{2}C_1C_4R_4\sqrt{\frac{g_m}{2C_1C_4R_1R_4g_m+2C_1C_4R_4}+\sqrt{2}C_1C_LR_1R_4g_m\sqrt{\frac{g_m}{2C_1C_4R_1R_4g_m+2C_1C_4R_4}+\sqrt{2}C_1C_LR_1R_4g_m+2C_1C_4R_4}} + \sqrt{2}C_1C_LR_1A_4g_m+2C_1C_4R_4$

8.17 INVALID-NUMER-17 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

 $\begin{array}{c} \text{Q:} \frac{2C_1C_4R_1R_4R_Lg_m\sqrt{2c_1c_4R_1R_4R_Lg_m+2c_1c_LR_1R_1R_1R_1g_m+2c_1c_LR_1R_1R_1R_1g_m+2c_1c_LR_1R_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+2c_1c_LR_1R_1R_1g_m+$

9 INVALID-WZ

9.1 INVALID-WZ-1
$$Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$$

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

Parameters:

Wz: None

 $\frac{2C_4}{C_4C_LL_1R_4gm\sqrt{c_4c_LL_1R_4gm}+c_4c_LL_1R_4gm}+c_4c_LL_1R_4gm\sqrt{c_4c_LL_1R_4gm}+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm+2C_4C_LL_1R_4gm}+2C_4C_LL_1R_4gm+2C_4C_L$

9.2 INVALID-WZ-2 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LR_1R_4R_Lg_ms^2 + R_4g_m + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right)}{2g_m + s^2\left(C_1C_LR_1R_4g_m + 2C_1C_LR_1R_Lg_m + C_1C_LR_4 + 2C_1C_LR_L\right) + s\left(2C_1R_1g_m + 2C_1 + C_LR_4g_m + 2C_LR_Lg_m\right)}$$

Parameters:

 $\frac{\sqrt{2}C_{1}C_{L}R_{1}R_{4}g_{m}\sqrt{\frac{g_{m}}{C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{L}g_{m}+C_{1}C_{L}R_{4}+2C_{1}C_{L}R_{L}}}+2\sqrt{2}C_{1}C_{L}R_{1}R_{L}g_{m}\sqrt{\frac{g_{m}}{C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{L}g_{m}+C_{1}C_{L}R_{4}+2C_{1}C_{L}R_{L}}}+\sqrt{2}C_{1}C_{L}R_{4}\sqrt{\frac{g_{m}}{C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{L}g_{m}+C_{1}C_{L}R_{4}+2C_{1}C_{L}R_{L}}}+2\sqrt{2}C_{1}C_{L}R_{L}\sqrt{\frac{g_{m}}{C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{L}g_{m}+C_{1}C_{L}R_{4}+2C_{1}C_{L}R_{L}}}+2\sqrt{2}C_{1}C_{L}R_{L}\sqrt{\frac{g_{m}}{C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{L}g_{m}+C_{1}C_{L}R_{4}+2C_{1}C_{L}R_{L}}}+2\sqrt{2}C_{1}C_{L}R_{L}\sqrt{\frac{g_{m}}{C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}R_{$ wo: $\sqrt{2}\sqrt{\frac{g_m}{C_1C_LR_1R_4g_m+2C_1C_LR_1R_Lg_m+C_1C_LR_4+2C_1C_LR_L}}$

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

K-HP: $\frac{{}^{2}R_{1}R_{4}g_{m}+R_{4}+2g_{m}}{R_{1}R_{4}g_{m}+2R_{1}R_{L}g_{m}+R_{4}+2R_{L}}$ K-BP: $\frac{C_{1}R_{1}R_{4}g_{m}+C_{L}R_{4}R_{L}g_{m}}{2C_{1}R_{1}g_{m}+2C_{1}+C_{L}R_{4}g_{m}+2C_{L}R_{L}g_{m}}$ Qz: None

Wz: $\sqrt{\frac{1}{C_1 C_L R_1 R_L}}$

9.3 INVALID-WZ-3 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$

$$H(s) = \frac{C_1C_4R_1R_4R_Lg_ms^2 + R_Lg_m + s\left(C_1R_1R_Lg_m + C_4R_4R_Lg_m\right)}{g_m + s^2\left(C_1C_4R_1R_4g_m + 2C_1C_4R_1R_Lg_m + C_1C_4R_4 + 2C_1C_4R_L\right) + s\left(C_1R_1g_m + C_1 + C_4R_4g_m + 2C_4R_Lg_m\right)}$$

Parameters:

 $\frac{\sqrt{\frac{g_m}{C_1C_4R_1R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_4R_Lg_m}}}{C_1C_4R_1R_4g_m\sqrt{\frac{g_m}{C_1C_4R_1R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_4g_m+2C_1C_4R_1R_Lg_m+C_1C_4R_1R_Lg_m+C_1C_4R_1R_Lg_$

K-HP: $\frac{R_{1}R_{4}R_{L}g_{m}}{R_{1}R_{4}g_{m}+2R_{1}R_{L}g_{m}+R_{4}+2R_{L}}$ K-BP: $\frac{C_{1}R_{1}R_{L}g_{m}+C_{4}R_{4}R_{L}g_{m}}{C_{1}R_{1}g_{m}+C_{1}+C_{4}R_{4}g_{m}+2C_{4}R_{L}g_{m}}$ Qz: None

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

10 INVALID-ORDER

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10.9 INVALID-ORDER-9
$$Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 g_m s^2 + R_1 g_m}{s^3 \left(2C_4 C_L L_L R_1 g_m + 2C_4 C_L L_L\right) + s \left(2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L\right)}$$

10.10 INVALID-ORDER-10
$$Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L R_1 g_m s}{R_1 g_m + s^2 \left(2 C_4 L_L R_1 g_m + 2 C_4 L_L + C_L L_L R_1 g_m + C_L L_L\right) + 1}$$

10.11 INVALID-ORDER-11
$$Z(s) = \left(R_1, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 g_m s^2 + C_L R_1 R_L g_m s + R_1 g_m}{s^3 \left(2 C_4 C_L L_L R_1 g_m + 2 C_4 C_L L_L\right) + s^2 \left(2 C_4 C_L R_1 R_L g_m + 2 C_4 C_L R_L\right) + s \left(2 C_4 R_1 g_m + 2 C_4 + C_L R_1 g_m + C_L\right)}$$

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

$$H(s) = \frac{C_L L_L R_1 R_L g_m s^2 + L_L R_1 g_m s + R_1 R_L g_m}{R_1 g_m + s^3 \left(2 C_4 C_L L_L R_1 R_L g_m + 2 C_4 C_L L_L R_L\right) + s^2 \left(2 C_4 L_L R_1 g_m + 2 C_4 L_L + C_L L_L R_1 g_m + C_L L_L\right) + s \left(2 C_4 R_1 R_L g_m + 2 C_4 R_L\right) + 1}$$

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

$$H(s) = \frac{C_L L_L R_1 R_L g_m s^2 + R_1 R_L g_m}{R_1 g_m + s^3 \left(2 C_4 C_L L_L R_1 R_L g_m + 2 C_4 C_L L_L R_L\right) + s^2 \left(C_L L_L R_1 g_m + C_L L_L\right) + s \left(2 C_4 R_1 R_L g_m + 2 C_4 R_L + C_L R_1 R_L g_m + C_L R_L\right) + 1}$$

10.14 INVALID-ORDER-14
$$Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, R_L\right)$$

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

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

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

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

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

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

10.18 INVALID-ORDER-18 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

10.19 INVALID-ORDER-19 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_L L_L R_1 R_4 g_m s^2 + L_L R_1 R_4 g_m s + R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^3 \left(2 C_4 C_L L_L R_1 R_4 R_L g_m + 2 C_4 L_L R_4 R_L \right) + s^2 \left(2 C_4 L_L R_1 R_4 g_m + 2 C_4 L_L R_4 + C_L L_L R_1 R_4 g_m + 2 C_L R_1 R_2 g_m + 2 C$$

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

$$H(s) = \frac{C_L L_L R_1 R_4 R_L g_m s^2 + R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^3 \left(2 C_4 C_L L_L R_1 R_4 R_L g_m + 2 C_4 C_L L_L R_1 R_4 g_m + 2 C_L L_L R_1 R_L g_m + C_L L_L R_4 + 2 C_L L_L R_1 \right) + s \left(2 C_4 R_1 R_4 R_L g_m + 2 C_4 R_4 R_L + C_L R_1 R_4 R_L g_m + C_L R_4 R_L \right)}$$

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

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

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

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

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

$$H(s) = \frac{C_4 C_L R_1 R_4 R_L g_m s^2 + R_1 g_m + s \left(C_4 R_1 R_4 g_m + C_L R_1 R_L g_m \right)}{s^2 \left(C_4 C_L R_1 R_4 g_m + 2 C_4 C_L R_1 R_L g_m + C_4 C_L R_4 + 2 C_4 C_L R_L \right) + s \left(2 C_4 R_1 g_m + 2 C_4 + C_L R_1 g_m + C_L \right)}$$

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

$$H(s) = \frac{C_4 C_L L_L R_1 R_4 g_m s^3 + C_4 R_1 R_4 g_m s + C_L L_L R_1 g_m s^2 + R_1 g_m}{s^3 \left(2 C_4 C_L L_L R_1 g_m + 2 C_4 C_L L_L\right) + s^2 \left(C_4 C_L R_1 R_4 g_m + C_4 C_L R_4\right) + s \left(2 C_4 R_1 g_m + 2 C_4 + C_L R_1 g_m + C_L\right)}$$

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

$$H(s) = \frac{C_4 L_L R_1 R_4 g_m s^2 + L_L R_1 g_m s}{R_1 g_m + s^3 \left(C_4 C_L L_L R_1 R_4 g_m + C_4 C_L L_L R_4 \right) + s^2 \left(2 C_4 L_L R_1 g_m + 2 C_4 L_L + C_L L_L R_1 g_m + C_L L_L \right) + s \left(C_4 R_1 R_4 g_m + C_4 R_4 \right) + 1} \left(\frac{1}{2} \left(\frac{1$$

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

$$H(s) = \frac{C_4 C_L L_L R_1 R_4 g_m s^3 + R_1 g_m + s^2 \left(C_4 C_L R_1 R_4 R_L g_m + C_L L_L R_1 g_m\right) + s \left(C_4 R_1 R_4 g_m + C_L R_1 R_L g_m\right)}{s^3 \left(2 C_4 C_L L_L R_1 g_m + 2 C_4 C_L L_L\right) + s^2 \left(C_4 C_L R_1 R_4 g_m + 2 C_4 C_L R_1 R_L g_m + C_4 C_L R_4 + 2 C_4 C_L R_L\right) + s \left(2 C_4 R_1 g_m + 2 C_4 + C_L R_1 g_m + C_L\right)}$$

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

10.28 INVALID-ORDER-28
$$Z(s) = \left(R_1, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_R L_S^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_4C_LL_LR_1R_4R_Lg_ms^3 + R_1R_Lg_m + s^2\left(C_4L_LR_1R_4g_m + C_LL_LR_1R_Lg_m\right) + s\left(C_4R_1R_4R_Lg_m + L_LR_1g_m\right)}{R_1g_m + s^3\left(C_4C_LL_LR_1R_4g_m + 2C_4C_LL_LR_1R_Lg_m + C_4C_LL_LR_1\right) + s^2\left(2C_4L_LR_1g_m + 2C_4L_L+C_LL_RR_1g_m + C_LL_L\right) + s\left(C_4R_1R_4g_m + 2C_4R_1R_Lg_m + C_4R_4 + 2C_4R_L\right) + 1}$$

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

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

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

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

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

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

$$H(s) = \frac{C_4C_LL_4R_1R_Lg_ms^3 + C_4L_4R_1g_ms^2 + C_LR_1R_Lg_ms + R_1g_m}{s^3\left(C_4C_LL_4R_1g_m + C_4C_LL_4\right) + s^2\left(2C_4C_LR_1R_Lg_m + 2C_4C_LR_L\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_L\right)}$$

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

$$H(s) = \frac{C_4 C_L L_4 L_L R_1 g_m s^4 + R_1 g_m + s^2 \left(C_4 L_4 R_1 g_m + C_L L_L R_1 g_m \right)}{s^3 \left(C_4 C_L L_4 R_1 g_m + C_4 C_L L_4 + 2 C_4 C_L L_L R_1 g_m + 2 C_4 C_L L_L \right) + s \left(2 C_4 R_1 g_m + 2 C_4 + C_L R_1 g_m + C_L \right)}$$

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

$$H(s) = \frac{C_4 L_4 L_L R_1 g_m s^3 + L_L R_1 g_m s}{R_1 g_m + s^4 \left(C_4 C_L L_4 L_L R_1 g_m + C_4 C_L L_4 L_L \right) + s^2 \left(C_4 L_4 R_1 g_m + C_4 L_4 + 2 C_4 L_L R_1 g_m + 2 C_4 L_L + C_L L_L R_1 g_m + C_L L_L \right) + 1}$$

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

$$H(s) = \frac{C_4 C_L L_4 L_L R_1 g_m s^4 + C_4 C_L L_4 R_1 R_L g_m s^3 + C_L R_1 R_L g_m s + R_1 g_m + s^2 \left(C_4 L_4 R_1 g_m + C_L L_L R_1 g_m\right)}{s^3 \left(C_4 C_L L_4 R_1 g_m + C_4 C_L L_4 + 2 C_4 C_L L_L R_1 g_m + 2 C_4 C_L L_L\right) + s^2 \left(2 C_4 C_L R_1 R_L g_m + 2 C_4 C_L R_L\right) + s \left(2 C_4 R_1 g_m + 2 C_4 C_L R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right) + s \left(2 C_4 R_1 g_m + 2 C_4 R_1\right)$$

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

$$H(s) = \frac{C_4L_4L_LR_1R_Lg_ms^3 + L_LR_1R_Lg_ms}{R_1R_Lg_m + R_L + s^4\left(C_4C_LL_4L_LR_1R_Lg_m + C_4C_LL_4L_LR_1\right) + s^3\left(C_4L_4L_LR_1g_m + C_4L_4L_L\right) + s^2\left(C_4L_4R_1R_Lg_m + C_4L_4R_L + 2C_4L_LR_1R_Lg_m + 2C_4L_LR_1R_Lg_m + C_LL_LR_1\right) + s\left(L_LR_1g_m + L_L\right)}$$

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

$$H(s) = \frac{C_4C_LL_4L_LR_1R_Lg_ms^4 + C_4L_4L_LR_1g_ms^3 + L_LR_1g_ms + R_1R_Lg_m + s^2\left(C_4L_4R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{R_1g_m + s^4\left(C_4C_LL_4L_LR_1g_m + C_4C_LL_4L_L\right) + s^3\left(2C_4C_LL_LR_1R_Lg_m + 2C_4C_LL_LR_L\right) + s^2\left(C_4L_4R_1g_m + C_4L_LR_1g_m + C_4$$

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

$$H(s) = \frac{C_4C_LL_4L_LR_1R_Lg_m + s^2\left(C_4L_4R_1R_Lg_m + C_LL_LR_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{R_1g_m + s^4\left(C_4C_LL_4L_LR_1g_m + C_4C_LL_4R_L\right) + s^3\left(C_4C_LL_4R_1R_Lg_m + C_4C_LL_4R_L\right) + s^2\left(C_4L_4R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_m + C_4R_1R_1g_m + C_4R_1$$

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

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

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

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

$$H(s) = \frac{C_L L_4 L_L R_1 g_m s^3 + L_4 R_1 g_m s}{2R_1 g_m + s^4 \left(2C_4 C_L L_4 L_L R_1 g_m + 2C_4 C_L L_4 L_L\right) + s^2 \left(2C_4 L_4 R_1 g_m + 2C_4 L_4 + C_L L_4 R_1 g_m + C_L L_4 + 2C_L L_L R_1 g_m + 2C_L L_L\right) + 2C_L L_L R_1 g_m + 2C_L R_1 g_m$$

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

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

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

10.44 INVALID-ORDER-44 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_L L_4 L_L R_1 R_L g_m s^3 + L_4 L_L R_1 g_m s^2 + L_4 R_1 R_L g_m s}{2 R_1 R_L g_m + 2 R_L + s^4 \left(2 C_4 C_L L_4 L_L R_1 R_L g_m + 2 C_4 L_4 L_L R_1 g_m + 2 C_4 L_4 R_L R_1 g_m + 2 C_4 L_4 R_1 R_L g_m + 2 C_4 R_1 R_L$$

10.45 INVALID-ORDER-45 $Z(s) = \left(R_1, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_L L_4 L_L R_1 R_L g_m s^3 + L_4 R_1 R_L g_m s}{2R_1 R_L g_m + 2R_L + s^4 \left(2C_4 C_L L_4 L_L R_1 R_L g_m + 2C_4 C_L L_4 L_L R_1 g_m + C_L L_4 L_L\right) + s^3 \left(C_L L_4 L_L R_1 g_m + C_L L_4 L_L\right) + s^2 \left(2C_4 L_4 R_1 R_L g_m + 2C_4 L_4 R_L + C_L L_4 R_1 R_L g_m + C_L L_4 R_L\right) + s \left(L_4 R_$$

10.46 INVALID-ORDER-46 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$

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

10.47 INVALID-ORDER-47 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

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

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

$$H(s) = \frac{C_4C_LL_4L_LR_1g_ms^4 + C_4C_LL_LR_1R_4g_ms^3 + C_4R_1R_4g_ms + R_1g_m + s^2\left(C_4L_4R_1g_m + C_LL_LR_1g_m\right)}{s^3\left(C_4C_LL_4R_1g_m + C_4C_LL_4 + 2C_4C_LL_LR_1g_m + 2C_4C_LL_L\right) + s^2\left(C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_L\right)}$$

10.50 INVALID-ORDER-50 $Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_4L_4L_LR_1g_ms^3 + C_4L_LR_1g_ms^2 + L_LR_1g_ms}{R_1g_m + s^4\left(C_4C_LL_4L_LR_1g_m + C_4C_LL_4L_L\right) + s^3\left(C_4C_LL_LR_1R_4g_m + C_4C_LL_LR_4\right) + s^2\left(C_4L_4R_1g_m + C_4L_4 + 2C_4L_LR_1g_m + 2C_4L_L + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_4R_1R_4g_m + C_4R_4\right) + 1}$$

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

$$H(s) = \frac{C_4C_LL_4L_R1g_ms^4 + R_1g_m + s^3\left(C_4C_LL_4R_1R_Lg_m + C_4C_LL_LR_1R_4g_m\right) + s^2\left(C_4C_LR_1R_4R_Lg_m + C_4L_4R_1g_m + C_LL_LR_1g_m\right) + s\left(C_4R_1R_4g_m + C_LL_R1g_m\right) + s\left(C_4R_1R_4g_m + C_LL_R1g_m\right) + s\left(C_4R_1R_4g_m + C_4L_R1g_m\right) + s\left(C_4R_1R_4g_m + C_4R_1R_4g_m\right) + s\left(C$$

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10.52 INVALID-ORDER-52 Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                     \frac{C_{4}L_{4}L_{L}R_{1}R_{L}g_{m}s^{3}+C_{4}L_{L}R_{1}R_{L}g_{m}s^{2}+L_{L}R_{1}R_{L}g_{m}s}{R_{1}R_{L}g_{m}+R_{L}+s^{4}\left(C_{4}C_{L}L_{4}L_{L}R_{1}R_{L}g_{m}+C_{4}C_{L}L_{L}R_{1}R_{L}g_{m}+C_{4}L_{L}
10.53 INVALID-ORDER-53 Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_R L_s^2 + L_L s + R_L}{C_L L_s^2 + 1}\right)
    H(s) = \frac{C_4C_LL_4L_LR_1R_Lg_ms^4 + R_1R_Lg_m + s^3\left(C_4C_LL_LR_1R_4R_Lg_m + C_4L_4L_LR_1g_m\right) + s^2\left(C_4L_4R_1R_Lg_m + C_4L_LR_1R_4g_m + C_LL_LR_1R_Lg_m\right) + s\left(C_4R_1R_4R_Lg_m + L_LR_1g_m\right) + s\left(C_4R_1R_4R_Lg_m + L_LR_1g_m\right
10.54 INVALID-ORDER-54 Z(s) = \left(R_1, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_4C_LL_4L_RR_1R_Lg_ms^4 + C_4C_LL_LR_1R_4R_Lg_ms^3 + C_4R_1R_4R_Lg_ms + R_1R_Lg_m + s^2\left(C_4L_4R_1R_Lg_m + C_LL_LR_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{R_1g_m + s^4\left(C_4C_LL_4L_LR_1g_m + C_4C_LL_4R_1R_Lg_m + C_4C_LL
10.55 INVALID-ORDER-55 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}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                             H(s) = \frac{C_L L_4 R_1 R_4 R_L g_m s^2 + L_4 R_1 R_4 g_m s}{2 R_1 R_4 g_m + 2 R_4 + s^3 \left(2 C_4 C_L L_4 R_1 R_4 R_L g_m + 2 C_4 C_L L_4 R_1 R_4 g_m + 2 C_4 L_4 R_1 R_4 g_m + 2 C_L L_4 R_1 R_4 g_m + 
10.56 INVALID-ORDER-56 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                      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}, \infty, L_1 s + R_1 + \frac{1}{C_{L_1} s}\right)
                                     \frac{C_{L}L_{4}L_{L}R_{1}R_{4}g_{m}s^{3}+C_{L}L_{4}R_{1}R_{4}g_{m}s^{2}+L_{4}R_{1}R_{4}g_{m}s}{2R_{1}R_{4}g_{m}+2R_{4}+s^{4}\left(2C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}g_{m}+2C_{4}L_{L}L_{R}R_{4}R_{L}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{4}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}g_{m}+2C_{L}L_{4}R_{1}R_{4}
10.58 INVALID-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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_L L_4 L_L R_1 R_4 R_L g_m s^3 + L_4 L_L R_1 R_4 g_m s^2 + L_4 R_1 R_4 R_L g_m s
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 $\begin{aligned} \textbf{10.59} \quad \textbf{INVALID-ORDER-59} \ Z(s) &= \left(R_1, \ \infty, \ \infty, \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ & \qquad \qquad \\ H(s) &= \frac{C_L L_4 L_L R_1 R_4 R_L g_m s^3 + L_4 R_1 R_4 R_L g_m s}{2 R_1 R_4 R_L g_m + 2 R_4 R_L + s^4 \left(2 C_4 C_L L_4 L_L R_1 R_4 R_L g_m + 2 C_L L_4 L_L R_1 R_4 g_m + 2 C_L L_4 L_L R_1 R_4 g_m + 2 C_L L_4 L_L R_1 R_4 R_L g_m + 2 C_L L_4 L_L R_1 R_4 R_L g_m + 2 C_L L_4 R_4 R_L + 2 C_L L_4 R_4 R$

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

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

10.61 INVALID-ORDER-61
$$Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$$

$$H(s) = \frac{C_4L_4R_1R_4R_Lg_ms^2 + L_4R_1R_Lg_ms + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_4R_L\right) + s^2\left(C_4L_4R_1R_4g_m + 2C_4L_4R_1R_Lg_m + C_4L_4R_1R_Lg_m + C_LL_4R_1R_Lg_m + C$$

10.62 INVALID-ORDER-62
$$Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, R_L + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_4C_LL_4R_1R_4R_Lg_ms^3 + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_LL_4R_1R_Lg_m\right) + s\left(C_LR_1R_4R_Lg_m + L_4R_1g_m\right)}{2R_1g_m + s^3\left(C_4C_LL_4R_1R_4g_m + 2C_4C_LL_4R_1R_Lg_m + C_4C_LL_4R_1\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4 + C_LL_4R_1g_m + C_LL_4\right) + s\left(C_LR_1R_4g_m + 2C_LR_1R_4g_m + 2C_LR_1R_4g_m + C_LR_4\right) + s\left(C_LR_1R_4g_m + C_LR_4\right) + s\left(C_LR_4R_4g_m + C_LR_4\right) + s\left(C_LR_4R_4R_4g_m + C_LR_4\right) + s\left(C_LR_4R_4g_m + C_LR_4\right) + s\left(C_LR_4R_4R_4g_m + C_LR_4\right) + s\left(C_LR_4R_4R_$$

10.63 INVALID-ORDER-63
$$Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_4C_LL_4L_LR_1R_4g_ms^4 + C_LL_4L_LR_1g_ms^3 + L_4R_1g_ms + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_LL_LR_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_4C_LL_4L_LR_1g_m + 2C_4C_LL_4L_L\right) + s^3\left(C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_4\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4 + C_LL_4R_1g_m + C_LL_4 + 2C_LL_LR_1g_m + 2C_LL_L\right) + s\left(C_LR_1R_4g_m + C_LR_4\right) + 2C_LR_1g_m + C_LR_2g_m + C_LR_$$

10.64 INVALID-ORDER-64
$$Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$$

10.65 INVALID-ORDER-65
$$Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, L_Ls + R_L + \frac{1}{C_{Ls}}\right)$$

$$H(s) = \frac{C_4C_LL_4L_LR_1R_4g_ms^4 + R_1R_4g_m + s^3\left(C_4C_LL_4R_1R_4g_m + C_LL_4L_LR_1g_m\right) + s^2\left(C_4L_4R_1R_4g_m + C_LL_4R_1R_Lg_m + C_LL_4R_1R_4g_m\right) + s\left(C_LR_1R_4R_Lg_m + L_4R_1g_m\right) + s\left(C_LR_1R_4R_Lg_m + L_4R_1g_m\right) + s\left(C_LR_1R_4R_Lg_m + L_4R_1g_m\right) + s\left(C_LR_1R_4R_Lg_m + C_LL_4R_1g_m\right) + s\left(C_LR_1R_4g_m + C_LL_4R_1g_$$

10.66 INVALID-ORDER-66
$$Z(s) = \left(R_1, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$$

$$C_4 L_4 L_L R_1 R_4 R_L g_m s^3 + L_4 L_L R_1 R_L g_m s^2 + L_L R_1 R_4 R_L g_m s$$

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

$$H(s) = \frac{C_4C_LL_4L_LR_1R_4R_Lg_m + s^3\left(C_4L_4L_LR_1R_4g_m + C_LL_4L_LR_1R_4g_m + C_LL_4R_1R_4g_m + C_LL_LR_1R_4R_Lg_m + L_4L_RR_1g_m + s^2\left(C_4L_4R_1R_4R_Lg_m + C_LL_4R_1R_4g_m + C_LL_4R_1R_4g_m + C_LL_4R_1R_4g_m + L_4L_4R_1g_m + L_4R_1g_m + L_4L_4R_1g_m + L_4L_4R_1g_m + L_4L_4R_1g_m + L_4R_1g_m + L_4R_1g_m + L_4R_1g_m + L_4R_1g_m + L_4R_1g_m + L_4R_1g_m + L_4$$

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

$$H(s) = \frac{C_4C_LL_4L_LR_1R_4R_Lg_ms^4 + C_LL_4L_LR_1R_Lg_ms^3 + L_4R_1R_Lg_ms + R_1R_4R_Lg_m + s^2\left(C_4L_4R_1R_4R_Lg_m + C_LL_LR_1R_4R_Lg_m\right)}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^4\left(C_4C_LL_4L_LR_1R_4g_m + C_4C_LL_4L_LR_1R_4g_m + C_4C_LL_4L_RR_1R_4g_m + C_4C_LL_4L_RR_1R_4g_m + C_4C_LL_4R_1R_4R_Lg_m + C_4C_LL_4R_1R_4g_m + C_4C_LL_4L_RR_1g_m + C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_4g_m +$$

10.69 INVALID-ORDER-69
$$Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_4L_4R_1R_4g_ms^2 + R_1R_4g_m}{2R_1g_m + s^3\left(C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_4\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_4\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + C_LR_1R_4g_m + C_LR_4\right) + 2C_4R_4R_4g_m + C_4R_4R_4g_m + C$$

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10.70 INVALID-ORDER-70 Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                               H(s) = \frac{C_4L_4R_1R_4R_Lg_ms^2 + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(C_4C_LL_4R_1R_4R_Lg_m + C_4C_LL_4R_4R_L\right) + s^2\left(C_4L_4R_1R_4g_m + 2C_4L_4R_1R_Lg_m + C_4L_4R_4 + 2C_4L_4R_L\right) + s\left(2C_4R_1R_4R_Lg_m + 2C_4R_4R_L + C_LR_1R_4R_Lg_m + C_LR_4R_L\right)}
10.71 INVALID-ORDER-71 Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, R_L + \frac{1}{C_Ls}\right)
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 $H(s) = \frac{C_4C_LL_4R_1R_4R_Lg_ms^3 + C_4L_4R_1R_4g_ms^2 + C_LR_1R_4R_Lg_ms + R_1R_4g_m}{2R_1g_m + s^3\left(C_4C_LL_4R_1R_4g_m + 2C_4C_LL_4R_1R_Lg_m + C_4C_LL_4R_4 + 2C_4C_LL_4R_L\right) + s^2\left(2C_4C_LR_1R_4R_Lg_m + 2C_4C_LR_4R_L + 2C_4L_4R_1g_m + 2C_4L_4\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + C_LR_1R_4g_m + 2C_4R_4 + C_LR_1R_4g_m + 2C_4R_4\right) + s^2\left(2C_4R_1R_4g_m + 2C_4R_4R_4 + 2C_4R_4R_4\right) + s^2\left(2C_4R_1R_4g_m + 2C_4R_4R_4 + 2C_4R_4R_4\right) + s^2\left(2C_4R_1R_4g_m + 2C_4R_4R_4\right) + s^2\left(2C_4R_1R_4g_m + 2C_4R_4R_4\right) + s^2\left(2C_4R_1R_4g_m + 2C_4R_4R_4\right) + s^2\left(2C_4R_1R_4g_m + 2C_4R_4R_4\right) + s^2\left(2C_4R_4R_4R_4\right) + s^2\left(2C_4R_4R_4R_4\right) + s^2\left(2C_4R_4R_4R_4\right) + s^2\left(2C_4R_4R_4R_4\right) + s^2\left(2C_4R_4R_4R_4\right) + s^2\left(2C_4R_4R_4R_4\right) + s^2\left(2C_4R_4R_4\right) + s^2\left(2C_4R_4R_$

10.72 INVALID-ORDER-72 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, L_Ls + \frac{1}{C_Ls}\right)$ $H(s) = \frac{C_4C_LL_4L_LR_1R_4g_ms^4 + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_LL_LR_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_4C_LL_4L_LR_1g_m + 2C_4C_LL_4L_L\right) + s^3\left(C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_1R_4g_m + 2C_4C_LL_LR_1\right) + s^2\left(2C_4L_4R_1g_m + 2C_4L_LR_1g_m + 2C_4L_LR_1g_m + 2C_4L_LR_1g_m + 2C_4L_LR_1g_m + 2C_4L_LR_1g_m + 2C_4R_1R_4g_m + 2C_4R$

10.73 INVALID-ORDER-73 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$ $H(s) = \frac{C_4L_4L_LR_1R_4g_ms^3 + L_LR_1R_4g_ms}{R_1R_4g_m + R_4 + s^4\left(C_4C_LL_4L_LR_1R_4g_m + C_4C_LL_4L_LR_4\right) + s^3\left(2C_4L_4L_LR_1g_m + 2C_4L_4L_L\right) + s^2\left(C_4L_4R_1R_4g_m + C_4L_4R_4 + 2C_4L_LR_1R_4g_m + 2C_4L_LR_4 + C_LL_LR_1R_4g_m + C_LL_LR_4\right) + s\left(2L_LR_1g_m + 2L_L\right) + s^2\left(2L_LR_1R_4g_m + 2C_4L_LR_1R_4g_m + 2C_4L_LR_4 + C_LL_RR_4g_m + C_LL_RR_4g_m + 2C_4L_RR_4g_m + C_LL_RR_4g_m + C_LL_RR_4g_m + C_LR_4g_m + C_LR_$

10.74 INVALID-ORDER-74 $Z(s) = \left(R_1, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_4C_LL_4L_RR_4g_ms^4 + C_4C_LL_4R_1R_4g_ms^3 + C_LR_1R_4g_ms + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_LL_LR_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_4C_LL_4L_LR_1g_m + 2C_4C_LL_4R_1R_4g_m + 2C_4C_LL_4$

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

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

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

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

 $C_4C_LL_4L_LR_1R_4R_Lg_ms^4 + R_1R_4R_Lg_m + s^2(C_4L_4R_1R_4R_Lg_m + C_LL_LR_1R_4R_Lg_m)$

 $\frac{ \cup_{4} \cup_{L} u_{1} u_{4} u_{L} y_{m} s + u_{1} u_{4} u_{L} y_{m} + s + u_{1} u_{4} u_{L} u_{m} + u_{2} u_{4} u$

10.78 INVALID-ORDER-78 $Z(s) = (L_1 s, \infty, \infty, R_4, \infty, R_L)$

$$H(s) = \frac{L_1 R_4 R_L g_m s}{R_4 + 2R_L + s \left(L_1 R_4 q_m + 2L_1 R_L q_m\right)}$$

10.79 INVALID-ORDER-79
$$Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$$

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

10.80 INVALID-ORDER-80
$$Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

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

10.81 INVALID-ORDER-81
$$Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

10.82 INVALID-ORDER-82
$$Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.83 INVALID-ORDER-83 $Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

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

10.84 INVALID-ORDER-84
$$Z(s) = \left(L_1 s, \infty, \infty, R_4, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

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

10.85 INVALID-ORDER-85 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$

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

10.86 INVALID-ORDER-86 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 L_L g_m s^2 + L_1 g_m}{2C_4 C_L L_1 L_L g_m s^3 + 2C_4 C_L L_L s^2 + 2C_4 + C_L + s \left(2C_4 L_1 g_m + C_L L_1 g_m\right)}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.88 INVALID-ORDER-88 $Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 L_L g_m s^2 + C_L L_1 R_L g_m s + L_1 g_m}{2C_4 C_L L_1 L_L g_m s^3 + 2C_4 + C_L + s^2 \left(2C_4 C_L L_1 R_L g_m + 2C_4 C_L L_L\right) + s \left(2C_4 C_L R_L + 2C_4 L_1 g_m + C_L L_1 g_m\right)}$$

10.89 INVALID-ORDER-89
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_1 L_L R_L g_m s^2}{R_L + s^3 \left(2 C_4 L_1 L_L R_L g_m + C_L L_1 L_L R_L g_m\right) + s^2 \left(2 C_4 L_L R_L + C_L L_L R_L + L_1 L_L g_m\right) + s \left(L_1 R_L g_m + L_L\right)}$$

10.90 INVALID-ORDER-90
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_L g_m s^3 + L_1 L_L g_m s^2 + L_1 R_L g_m s}{2C_4 C_L L_1 L_L R_L g_m s^4 + s^3 \left(2C_4 C_L L_L R_L + 2C_4 L_1 L_L g_m + C_L L_1 L_L g_m\right) + s^2 \left(2C_4 L_1 R_L g_m + 2C_4 L_L + C_L L_L\right) + s \left(2C_4 R_L + L_1 g_m\right) + 1}{2C_4 C_L L_1 L_2 R_L g_m s^4 + s^3 \left(2C_4 C_L L_L R_L + 2C_4 L_1 L_L g_m + C_L L_1 L_L g_m\right) + s^2 \left(2C_4 L_1 R_L g_m + 2C_4 L_L + C_L L_L\right) + s \left(2C_4 R_L + L_1 g_m\right) + 1}{2C_4 C_4 C_4 L_1 L_2 R_L g_m s^4 + s^3 \left(2C_4 C_4 L_1 L_2 R_L + 2C_4 L_1 L_2 R_m\right) + s^2 \left(2C_4 L_1 R_2 R_m + 2C_4 L_1 L_2 R_m\right) + 1}{2C_4 C_4 C_4 L_1 L_2 R_m s^4 + s^3 \left(2C_4 C_4 L_1 R_L + 2C_4 L_1 L_2 R_m\right) + s^2 \left(2C_4 L_1 R_2 R_m + 2C_4 L_1 L_2 R_m\right) + 1}{2C_4 C_4 C_4 L_1 L_2 R_m s^4 + s^3 \left(2C_4 C_4 L_1 R_2 R_m + 2C_4 L_1 L_2 R_m\right) + s^2 \left(2C_4 L_1 R_2 R_m + 2C_4 L_1 L_2 R_m\right) + 1}{2C_4 C_4 C_4 L_1 R_4 R_m s^4 + s^3 \left(2C_4 R_4 R_4 R_m + 2C_4 L_1 L_2 R_m\right) + s^2 \left(2C_4 L_1 R_4 R_m + 2C_4 L_1 L_2 R_m\right) + s^2 \left(2C_4 R_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2C_4 R_4 R_m + 2C_4 R_4 R_m\right) + s^2 \left(2$$

10.91 INVALID-ORDER-91
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_L g_m s^3 + L_1 R_L g_m s}{2C_4 C_L L_1 L_L R_L g_m s^4 + s^3 \left(2C_4 C_L L_L R_L + C_L L_1 L_L g_m\right) + s^2 \left(2C_4 L_1 R_L g_m + C_L L_1 R_L g_m + C_L L_L\right) + s \left(2C_4 R_L + C_L R_L + L_1 g_m\right) + 1}$$

10.92 INVALID-ORDER-92
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$$

10.93 INVALID-ORDER-93
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_4 g_m s^3 + L_1 R_4 g_m s}{2C_4 C_L L_1 L_L R_4 q_m s^4 + s^3 \left(2C_4 C_L L_L R_4 + 2C_L L_1 L_L q_m\right) + s^2 \left(2C_4 L_1 R_4 q_m + C_L L_1 R_4 q_m + 2C_L L_L\right) + s \left(2C_4 R_4 + C_L R_4 + 2L_1 q_m\right) + 2C_4 C_4 L_1 R_4 q_m + 2C_4 L_1 R_4 q$$

10.94 INVALID-ORDER-94
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_1 L_L R_4 g_m s^2}{R_4 + s^3 \left(2 C_4 L_1 L_L R_4 g_m + C_L L_1 L_L R_4 g_m\right) + s^2 \left(2 C_4 L_L R_4 + C_L L_L R_4 + 2 L_1 L_L g_m\right) + s \left(L_1 R_4 g_m + 2 L_L\right)}$$

10.95 INVALID-ORDER-95
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

10.96 INVALID-ORDER-96
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.97 INVALID-ORDER-97
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_4 R_L g_m s^3 + L_1 L_L R_4 g_m s^2 + L_1 R_4 R_L g_m s}{2 C_4 C_L L_1 L_L R_4 R_L g_m s^4 + R_4 + 2 R_L + s^3 \left(2 C_4 C_L L_L R_4 R_L + 2 C_4 L_1 L_L R_4 g_m + 2 C_L L_1 L_L R_4 g_m + 2 C_L L_1 L_L R_4 g_m + 2 C_4 L_L R_4 + C_L L_L R_4 + 2 C_L L_L R_4 R_L g_m + 2 C_L R_4 R_L R_4 R_L g_m + 2 C_L R_4 R_L R_4$$

10.98 INVALID-ORDER-98
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_4 R_L g_m s^3 + L_1 R_4 R_L g_m s}{2C_4 C_L L_1 L_L R_4 R_L g_m s^4 + R_4 + 2R_L + s^3 \left(2C_4 C_L L_L R_4 R_L + C_L L_1 L_L R_4 g_m + 2C_L L_1 L_L R_4 g_m\right) + s^2 \left(2C_4 L_1 R_4 R_L g_m + C_L L_1 R_4 R_L g_m + C_L L_1 R_4 R_L + C_L R_4 R_L + C$$

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

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

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

$$H(s) = \frac{C_4 C_L L_1 L_L R_4 g_m s^3 + C_4 L_1 R_4 g_m s + C_L L_1 L_L g_m s^2 + L_1 g_m}{2 C_4 C_L L_1 L_L g_m s^3 + 2 C_4 + C_L + s^2 \left(C_4 C_L L_1 R_4 g_m + 2 C_4 C_L L_L \right) + s \left(C_4 C_L R_4 + 2 C_4 L_1 g_m + C_L L_1 g_m \right)}$$

10.101 INVALID-ORDER-101 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_4 L_1 L_L R_4 g_m s^3 + L_1 L_L g_m s^2}{C_4 C_L L_1 L_L R_4 g_m s^4 + s^3 \left(C_4 C_L L_L R_4 + 2 C_4 L_1 L_L g_m + C_L L_1 L_L g_m \right) + s^2 \left(C_4 L_1 R_4 g_m + 2 C_4 L_L + C_L L_L \right) + s \left(C_4 R_4 + L_1 g_m \right) + 1}$$

10.102 INVALID-ORDER-102 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_4 C_L L_1 L_L R_4 g_m s^3 + L_1 g_m + s^2 \left(C_4 C_L L_1 R_4 R_L g_m + C_L L_1 L_L g_m \right) + s \left(C_4 L_1 R_4 g_m + C_L L_1 R_L g_m \right)}{2 C_4 C_L L_1 L_L g_m s^3 + 2 C_4 + C_L + s^2 \left(C_4 C_L L_1 R_4 g_m + 2 C_4 C_L L_1 R_L g_m + 2 C_4 C_L L_L \right) + s \left(C_4 C_L R_4 + 2 C_4 C_L R_L + 2 C_4 L_1 g_m + C_L L_1 g_m \right)}$$

10.103 INVALID-ORDER-103 $Z(s) = \left(L_1 s, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_4 L_1 L_L R_4 R_L g_m s^3 + L_1 L_L R_L g_m s^2}{C_4 C_L L_1 L_L R_4 R_L g_m s^4 + R_L + s^3 \left(C_4 C_L L_L R_4 R_L + C_4 L_1 L_L R_4 g_m + 2 C_4 L_1 L_L R_L g_m + C_L L_1 L_L R_L g_m \right) + s^2 \left(C_4 L_1 R_4 R_L g_m + C_4 L_L R_4 + 2 C_4 L_L R_L + L_1 L_L g_m \right) + s \left(C_4 R_4 R_L + L_1 R_L g_m + L_L \right)}$$

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

$$H(s) = \frac{C_4C_LL_1L_LR_4R_Lg_ms^4 + L_1R_Lg_ms + s^3\left(C_4L_1L_LR_4g_m + C_LL_1L_LR_Lg_m\right) + s^2\left(C_4L_1R_4R_Lg_m + L_1L_Lg_m\right)}{s^4\left(C_4C_LL_1L_LR_4g_m + 2C_4C_LL_1L_LR_4g_m\right) + s^3\left(C_4C_LL_LR_4 + 2C_4C_LL_LR_L + 2C_4L_LL_Lg_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_1R_Lg_m + L_1L_Lg_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_LL_LR_4g_m + 2C_4L_LL_LR_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_LL_RR_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_LL_RR_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_LL_RR_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_LR_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_LR_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_LR_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_1R_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_1R_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_1R_4g_m\right) + s^2\left(C_4L_1R_4g_m + 2C_4L_1R_4g_m\right) + s^2\left(C_4L_1R_4g_m\right) $

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

$$H(s) = \frac{C_4C_LL_1L_LR_4R_Lg_ms^4 + C_4L_1R_4R_Lg_ms^2 + C_LL_1L_LR_Lg_ms^3 + L_1R_Lg_ms}{s^4\left(C_4C_LL_1L_LR_4g_m + 2C_4C_LL_1L_LR_4g_m + C_4C_LL_LR_4 + 2C_4C_LL_LR_4 + 2C_4C_LL_LR_4 + C_4L_1L_Lg_m\right) + s^2\left(C_4C_LR_4R_L + C_4L_1R_4g_m + 2C_4L_1R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_Lg_m + C_4R_L +$$

10.106 INVALID-ORDER-106 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)$

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

10.107 INVALID-ORDER-107
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$$

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

10.108 INVALID-ORDER-108
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_4 L_1 L_4 R_L g_m s^3 + L_1 R_L g_m s}{C_4 C_L L_1 L_4 R_L g_m s^4 + s^3 \left(C_4 C_L L_4 R_L + C_4 L_1 L_4 g_m \right) + s^2 \left(2 C_4 L_1 R_L g_m + C_4 L_4 + C_L L_1 R_L g_m \right) + s \left(2 C_4 R_L + C_L R_L + L_1 g_m \right) + 1}$$

10.109 INVALID-ORDER-109
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$$

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

10.110 INVALID-ORDER-110
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_4 C_L L_1 L_4 L_L g_m s^4 + L_1 g_m + s^2 \left(C_4 L_1 L_4 g_m + C_L L_1 L_L g_m \right)}{2C_4 + C_L + s^3 \left(C_4 C_L L_1 L_4 g_m + 2C_4 C_L L_1 L_L g_m \right) + s^2 \left(C_4 C_L L_4 + 2C_4 C_L L_L \right) + s \left(2C_4 L_1 g_m + C_L L_1 g_m \right)}$$

10.111 INVALID-ORDER-111
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_4 L_1 L_4 L_L g_m s^4 + L_1 L_L g_m s^2}{C_4 C_L L_1 L_4 L_L g_m s^5 + C_4 C_L L_4 L_L s^4 + L_1 g_m s + s^3 \left(C_4 L_1 L_4 g_m + 2 C_4 L_1 L_L g_m + C_L L_1 L_L g_m \right) + s^2 \left(C_4 L_4 + 2 C_4 L_L + C_L L_L \right) + 1}$$

10.112 INVALID-ORDER-112
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_4 C_L L_1 L_4 L_L g_m s^4 + C_4 C_L L_1 L_4 R_L g_m s^3 + C_L L_1 R_L g_m s + L_1 g_m + s^2 \left(C_4 L_1 L_4 g_m + C_L L_1 L_L g_m\right)}{2C_4 + C_L + s^3 \left(C_4 C_L L_1 L_4 g_m + 2C_4 C_L L_1 L_L g_m\right) + s^2 \left(2C_4 C_L L_1 R_L g_m + C_4 C_L L_4 + 2C_4 C_L L_L\right) + s \left(2C_4 C_L R_L + 2C_4 L_1 g_m + C_L L_1 g_m\right)}$$

10.113 INVALID-ORDER-113
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

10.114 INVALID-ORDER-114
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_4C_LL_1L_4L_LR_Lg_ms^5 + C_4L_1L_4L_Lg_ms^4 + L_1L_Lg_ms^2 + L_1R_Lg_ms + s^3\left(C_4L_1L_4R_Lg_m + C_LL_1L_LR_Lg_m\right)}{C_4C_LL_1L_4L_Lg_ms^5 + s^4\left(2C_4C_LL_1L_LR_Lg_m + C_4C_LL_4L_L\right) + s^3\left(2C_4C_LL_LR_L + C_4L_1L_4g_m + 2C_4L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(2C_4L_1R_Lg_m + C_4L_4 + 2C_4L_L + C_LL_L\right) + s\left(2C_4R_L + L_1g_m\right) + 1}$$

10.115 INVALID-ORDER-115
$$Z(s) = \left(L_1 s, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_4C_LL_1L_4L_LR_Lg_ms^5 + L_1R_Lg_ms + s^3\left(C_4L_1L_4R_Lg_m + C_LL_1L_LR_Lg_m\right)}{C_4C_LL_1L_4L_Lg_ms^5 + s^4\left(C_4C_LL_1L_4R_Lg_m + 2C_4C_LL_1L_LR_Lg_m + C_4C_LL_4L_L\right) + s^3\left(C_4C_LL_4R_L + 2C_4C_LL_LR_L + C_4L_1L_4g_m + C_LL_1L_Lg_m\right) + s^2\left(2C_4L_1R_Lg_m + C_4L_4 + C_LL_1R_Lg_m + C_LL_L\right) + s\left(2C_4R_L + C_LR_L + L_1g_m\right) + 1}$$

10.116 INVALID-ORDER-116
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$$

$$H(s) = \frac{L_1 L_4 R_L g_m s^2}{2C_4 L_1 L_4 R_L g_m s^3 + 2R_L + s^2 (2C_4 L_4 R_L + L_1 L_4 g_m) + s (2L_1 R_L g_m + L_4)}$$

10.117 INVALID-ORDER-117
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)$$

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

10.118 INVALID-ORDER-118
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

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

$$H(s) = \frac{C_L L_1 L_4 R_L g_m s^3 + L_1 L_4 g_m s^2}{2C_4 C_L L_1 L_4 R_L g_m s^4 + s^3 \left(2C_4 C_L L_4 R_L + 2C_4 L_1 L_4 g_m + C_L L_1 L_4 g_m\right) + s^2 \left(2C_4 L_4 + 2C_L L_1 R_L g_m + C_L L_4\right) + s \left(2C_L R_L + 2L_1 g_m\right) + 2c_L L_1 R_L g_m s^4 + c_L R_$$

10.120 INVALID-ORDER-120
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$$

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

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

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

$$H(s) = \frac{C_L L_1 L_4 L_L g_m s^4 + C_L L_1 L_4 R_L g_m s^3 + L_1 L_4 g_m s^2}{2C_4 C_L L_1 L_4 L_L g_m s^5 + s^4 \left(2C_4 C_L L_1 L_4 R_L g_m + 2C_4 C_L L_4 L_L\right) + s^3 \left(2C_4 C_L L_4 R_L + 2C_4 L_1 L_4 g_m + C_L L_1 L_4 g_m + 2C_L L_1 L_4 g_m\right) + s^2 \left(2C_4 L_4 + 2C_L L_1 R_L g_m + C_L L_4 + 2C_L L_1\right) + s \left(2C_L R_L + 2L_1 g_m\right) + 2C_L L_1 L_4 R_L g_m + C_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_1 L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_4 R_L g_m\right) + c_L L_1 L_4 R_L g_m + c_L L_4 R_L g_m\right) + c_L L_4 R_L g_m + c_L L_4 R_L g_m\right) + c_L L_4 R_L g_m + c_L L_4 R_L g_m\right) + c_L L_4 R_L g_m + c_L L_4 R_L g_m\right) + c_L R_$$

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

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

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

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

$$H(s) = \frac{C_L L_1 L_4 L_L R_L g_m s^4 + L_1 L_4 R_L g_m s^2}{2 C_4 C_L L_1 L_4 L_L R_L g_m s^5 + 2 R_L + s^4 \left(2 C_4 C_L L_4 L_L R_L + C_L L_1 L_4 L_L g_m\right) + s^3 \left(2 C_4 L_1 L_4 R_L g_m + C_L L_1 L_4 R_L g_m + C_L L_4 L_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L + 2 C_L L_4 R_L + L_1 L_4 g_m\right) + s \left(2 L_1 R_L g_m + L_4 L_4 R_L g_m + C_L L_4 L_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L + L_4 L_4 R_L g_m + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L + L_4 L_4 R_L g_m\right) + s \left(2 C_4 L_4 R_L + C_L L_4 R_L + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L + C_L L_4 R_L\right) + s^2 \left(2 C_4 L_4 R_L\right) + s^$$

10.126 INVALID-ORDER-126 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$ $H(s) = \frac{C_4 L_1 L_4 R_L g_m s^3 + C_4 L_1 R_4 R_L g_m s^2 + L_1 R_L g_m s}{C_4 L_1 L_4 g_m s^3 + s^2 \left(C_4 L_1 R_4 g_m + 2 C_4 L_1 R_L g_m + C_4 L_4 \right) + s \left(C_4 R_4 + 2 C_4 R_L + L_1 g_m \right) + 1}$ 10.127 INVALID-ORDER-127 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_4 L_1 L_4 g_m s^2 + C_4 L_1 R_4 g_m s + L_1 g_m}{C_4 C_L L_1 L_4 g_m s^3 + 2C_4 + C_L + s^2 \left(C_4 C_L L_1 R_4 g_m + C_4 C_L L_4 \right) + s \left(C_4 C_L R_4 + 2C_4 L_1 g_m + C_7 L_1 g_m \right)}$ **10.128** INVALID-ORDER-128 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_4L_1L_4R_Lg_ms^3 + C_4L_1R_4R_Lg_ms^2 + L_1R_Lg_ms}{C_4C_LL_1L_4R_Lg_ms^4 + s^3\left(C_4C_LL_1R_4R_Lg_m + C_4C_LL_4R_L + C_4L_1L_4g_m\right) + s^2\left(C_4C_LR_4R_L + C_4L_1R_4g_m + 2C_4L_1R_Lg_m + C_4L_4 + C_LL_1R_Lg_m\right) + s\left(C_4R_4 + 2C_4R_L + C_LR_L + L_1g_m\right) + 1}$ **10.129** INVALID-ORDER-129 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_4C_LL_1L_4R_Lg_ms^3 + L_1g_m + s^2\left(C_4C_LL_1R_4R_Lg_m + C_4L_1L_4g_m\right) + s\left(C_4L_1R_4g_m + C_LL_1R_Lg_m\right)}{C_4C_LL_1L_4g_ms^3 + 2C_4 + C_L + s^2\left(C_4C_LL_1R_4g_m + 2C_4C_LL_1R_Lg_m + C_4C_LL_4\right) + s\left(C_4C_LR_4 + 2C_4C_LR_L + 2C_4L_1g_m + C_LL_1g_m\right)}$ **10.130** INVALID-ORDER-130 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_4C_LL_1L_4L_Lg_ms^4 + C_4C_LL_1L_LR_4g_ms^3 + C_4L_1R_4g_ms + L_1g_m + s^2\left(C_4L_1L_4g_m + C_LL_1L_Lg_m\right)}{2C_4 + C_L + s^3\left(C_4C_LL_1L_4g_m + 2C_4C_LL_1L_Lg_m\right) + s^2\left(C_4C_LL_1R_4g_m + C_4C_LL_4 + 2C_4C_LL_1\right) + s\left(C_4C_LR_4 + 2C_4L_1g_m + C_LL_1g_m\right)}$ **10.131** INVALID-ORDER-131 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_4L_1L_4L_Lg_ms^4 + C_4L_1L_LR_4g_ms^3 + L_1L_Lg_ms^2}{C_4C_LL_1L_4L_Lg_ms^5 + s^4\left(C_4C_LL_1L_LR_4g_m + C_4C_LL_4L_L\right) + s^3\left(C_4C_LL_LR_4 + C_4L_1L_4g_m + 2C_4L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_4L_1R_4g_m + C_4L_4 + 2C_4L_L + C_LL_L\right) + s\left(C_4R_4 + L_1g_m\right) + 1}$ 10.132 INVALID-ORDER-132 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_4 C_L L_1 L_4 L_L g_m s^4 + L_1 g_m + s^3 \left(C_4 C_L L_1 L_4 R_L g_m + C_4 C_L L_1 L_L R_4 g_m\right) + s^2 \left(C_4 C_L L_1 R_4 R_L g_m + C_4 L_1 L_4 g_m + C_L L_1 L_L g_m\right) + s \left(C_4 L_1 R_4 g_m + C_L L_1 R_L g_m\right)}{2 C_4 + C_L + s^3 \left(C_4 C_L L_1 L_4 g_m + 2 C_4 C_L L_1 L_L g_m\right) + s^2 \left(C_4 C_L L_1 R_4 g_m + 2 C_4 C_L L_1 R_L g_m + C_4 C_L L_1\right) + s \left(C_4 C_L R_4 + 2 C_4 C_L R_L + 2 C_4 L_1 g_m + C_4 L_1 R_2 R_m\right)}$ **10.133** INVALID-ORDER-133 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_4L_1L_4L_LR_Lg_ms^4 + C_4L_1L_LR_4g_ms^3 + L_1L_LR_Lg_ms^3 + L_1L_LR_Lg_ms^3 + L_1L_LR_Lg_ms^4 + C_4L_1L_LR_Lg_ms^4 + C_4L$ 10.134 INVALID-ORDER-134 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_4C_LL_1L_4L_LR_2g_ms^5 + L_1R_Lg_ms + s^4\left(C_4C_LL_1L_LR_4R_Lg_m + C_4L_1L_4R_Lg_m + C_4L_1L_LR_4g_m + C_4L_1L_1R_4g_m + C_4L_1L_1R_4g_m + C_4L_1L_1R_4g_m + C_4L_1L_1R_4g_m + C_4L_1R_4g_m + C$ 10.135 INVALID-ORDER-135 $Z(s) = \left(L_1 s, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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

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10.136 INVALID-ORDER-136 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}, \infty, R_L\right)
                                                                                                                                                                                                                    H(s) = \frac{L_1 L_4 R_4 R_L g_m s^2}{2 C_4 L_1 L_4 R_4 R_L g_m s^3 + 2 R_4 R_L + s^2 \left(2 C_4 L_4 R_4 R_L + L_1 L_4 R_4 g_m + 2 L_1 L_4 R_L g_m\right) + s \left(2 L_1 R_4 R_L g_m + L_4 R_4 + 2 L_4 R_L\right)}
10.137 INVALID-ORDER-137 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                      H(s) = \frac{L_1 L_4 R_4 g_m s^2}{2R_4 + s^3 (2C_4 L_1 L_4 R_4 g_m + C_L L_1 L_4 R_4 g_m) + s^2 (2C_4 L_4 R_4 + C_L L_4 R_4 + 2L_1 L_4 g_m) + s (2L_1 R_4 g_m + 2L_4)}
10.138 INVALID-ORDER-138 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                            H(s) = \frac{L_1 L_4 R_4 R_L g_m s^2}{2 R_4 R_L + s^3 \left(2 C_4 L_1 L_4 R_4 R_L g_m + C_L L_1 L_4 R_4 R_L g_m\right) + s^2 \left(2 C_4 L_4 R_4 R_L + C_L L_4 R_4 R_L + L_1 L_4 R_4 g_m + 2 L_1 L_4 R_L g_m\right) + s \left(2 L_1 R_4 R_L g_m + L_4 R_4 + 2 L_4 R_L\right)}{2 R_4 R_L + s^3 \left(2 C_4 L_1 L_4 R_4 R_L g_m + C_L L_1 L_4 R_4 R_L g_m\right) + s^2 \left(2 C_4 L_4 R_4 R_L + C_L L_4 R_4 R_L + L_1 L_4 R_4 g_m + 2 L_1 L_4 R_L g_m\right) + s \left(2 L_1 R_4 R_L g_m + L_4 R_4 + 2 L_4 R_L\right)}
10.139 INVALID-ORDER-139 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}, \infty, R_L + \frac{1}{C_L s}\right)
                                                              10.140 INVALID-ORDER-140 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                         H(s) = \frac{C_L L_1 L_4 L_L R_4 g_m s^4 + L_1 L_4 R_4 g_m s^2}{2 C_4 C_L L_1 L_4 L_L R_4 g_m s^5 + 2 R_4 + s^4 \left(2 C_4 C_L L_4 L_L R_4 + 2 C_L L_1 L_4 L_L g_m\right) + s^3 \left(2 C_4 L_1 L_4 R_4 g_m + C_L L_1 L_4 R_4 g_m + 2 C_L L_1 L_L R_4 g_m + 2 C_L L_4 L_L\right) + s^2 \left(2 C_4 L_4 R_4 + C_L L_4 R_4 + 2 C_L L_4 R_4 R_4 + 2 C_L L_4 R_4 R_4 R_4 \right)}
10.141 INVALID-ORDER-141 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                              H(s) = \frac{L_{1}L_{4}L_{L}R_{4}g_{m}s^{2}}{L_{4}R_{4} + 2L_{L}R_{4} + s^{3}\left(2C_{4}L_{1}L_{4}L_{L}R_{4}g_{m} + C_{L}L_{1}L_{4}L_{L}R_{4}g_{m}\right) + s^{2}\left(2C_{4}L_{4}L_{L}R_{4} + C_{L}L_{4}L_{L}R_{4} + 2L_{1}L_{4}L_{L}g_{m}\right) + s\left(L_{1}L_{4}R_{4}g_{m} + 2L_{1}L_{L}R_{4}g_{m} + 2L_{4}L_{L}\right)}
10.142 INVALID-ORDER-142 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}, \infty, L_1 s + R_1 + \frac{1}{C_{Ls}}\right)
H(s) = \frac{C_L L_1 L_4 L_L R_4 g_m s^4 + C_L L_1 L_4 R_4 g_m s^3 + L_1 L_4 R_4 g_m s^3 + L_1 L_4 R_4 g_m s^3}{2 C_4 C_L L_1 L_4 R_4 g_m s^5 + 2 R_4 + s^4 \left(2 C_4 C_L L_1 L_4 R_4 R_L g_m + 2 C_L L_1 L_4 R_4 g_m + 2 C_L L_4 L_L \right) + s^2 \left(2 C_4 L_4 R_4 + 2 C_L L_1 R_4 R_4 g_m + C_L L_4 R_4 R_4 g_m + 2 C_L L_4 R
10.143 INVALID-ORDER-143 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                H(s) = \frac{L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}s^{2}}{L_{4}R_{4}R_{L} + 2L_{L}R_{4}R_{L} + s^{3}\left(2C_{4}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m} + C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}\right) + s^{2}\left(2C_{4}L_{4}L_{L}R_{4}R_{L} + C_{L}L_{4}L_{L}R_{4}g_{m} + 2L_{1}L_{4}L_{L}R_{4}g_{m} + 2L_{1}L_{4}L_{L}R_{4}R_{L}g_{m} + 2L_{1}L_{L}R_{4}R_{L}g_{m} + L_{4}L_{L}R_{4} + 2L_{4}L_{L}R_{4}R_{L}g_{m}\right) + s\left(L_{1}L_{4}R_{4}R_{L}g_{m} + 2L_{1}L_{L}R_{4}R_{L}g_{m} + 2L_{1}L_{L}R_{4}R_{L}g_{m} + 2L_{1}L_{L}R_{4}R_{L}g_{m} + 2L_{1}L_{L}R_{4}R_{L}g_{m} + 2L_{1}L_{L}R_{4}R_{L}g_{m} + 2L_{1}L_{L}R_{4}R_{L}g_{m}\right)
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_L L_1 L_4 L_L R_4 R_L g_m s^4 + L_1 L_4 L_L R_4 g_m s^3 + L_1 L_4 R_4 R_L g_m s^2}{2 C_4 C_L L_1 L_4 L_L R_4 R_L g_m s^5 + 2 R_4 R_L + s^4 \left(2 C_4 C_L L_4 L_L R_4 R_L + 2 C_4 L_1 L_4 L_L R_4 g_m + C_L L_1 L_4 L_L R_4 g_m + C_L L_4 L_L R_4 R_L g_m + C_L L_4 L_L R_4 
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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_L L_1 L_4 L_L R_4 R_L g_m s^4 + L_1 L_4 R_4 R_L g_m s^2
                         \frac{C_L L_1 L_4 L_L R_4 R_L g_m s}{2C_4 C_L L_1 L_4 L_L R_4 R_L g_m s} + L_1 L_4 R_4 R_L g_m s}{2C_4 C_L L_1 L_4 L_L R_4 R_L + C_L L_1 L_4 L_L R_4 R_L + C_L L_1 L_4 L_L R_4 R_L + C_L L_4 R_4 R_L + C
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H(s) = \frac{C_4 L_1 L_4 R_4 R_L g_m s^3 + L_1 L_4 R_L g_m s^2 + L_1 R_4 R_L g_m s}{R_4 + 2 R_L + s^3 \left( C_4 L_1 L_4 R_4 g_m + 2 C_4 L_1 L_4 R_L g_m \right) + s^2 \left( C_4 L_4 R_4 + 2 C_4 L_4 R_L + L_1 L_4 g_m \right) + s \left( L_1 R_4 g_m + 2 L_1 R_L g_m + L_4 \right)}{R_4 + 2 R_L + s^3 \left( C_4 L_1 L_4 R_4 g_m + 2 C_4 L_1 L_4 R_L g_m \right) + s \left( L_1 R_4 g_m + 2 L_1 R_L g_m + L_4 \right)}
10.147 INVALID-ORDER-147 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                        10.148 INVALID-ORDER-148 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                        H(s) = \frac{C_4L_1L_4R_4R_Lg_ms^3 + L_1L_4R_Lg_ms^2 + L_1R_4R_Lg_ms}{C_4C_LL_1L_4R_4R_Lg_ms^4 + R_4 + 2R_L + s^3\left(C_4C_LL_4R_4R_L + C_4L_1L_4R_4g_m + 2C_4L_1L_4R_Lg_m\right) + s^2\left(C_4L_4R_4 + 2C_4L_4R_L + C_LL_1R_4R_Lg_m + C_LL_4R_L + L_1L_4g_m\right) + s\left(C_LR_4R_L + L_1L_4g_m + 2L_1R_Lg_m + L_4R_Lg_m\right) + s\left(C_LR_4R_L + L_1L_4g_m + 2L_1R_Lg_m + L_4R_Lg_m\right) + s\left(C_LR_4R_L + L_1L_4g_m + 2L_1R_Lg_m + L_4R_Lg_m\right) + s\left(C_LR_4R_L + L_1L_4g_m + 2L_1R_Lg_m + 2L_1R_Lg_m\right) + s\left(C_LR_4R_L 
10.149 INVALID-ORDER-149 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}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                      H(s) = \frac{C_4C_LL_1L_4R_4R_Lg_ms^4 + L_1R_4g_ms + s^3\left(C_4L_1L_4R_4g_m + C_LL_1L_4R_Lg_m\right) + s^2\left(C_LL_1R_4R_Lg_m + L_1L_4g_m\right)}{s^4\left(C_4C_LL_1L_4R_4g_m + 2C_4L_LL_4R_Lg_m\right) + s^3\left(C_4C_LL_4R_4 + 2C_4L_LL_4R_L + 2C_4L_LL_4g_m\right) + s^2\left(2C_4L_4 + C_LL_1R_4g_m + 2C_LL_1R_Lg_m + C_LL_4\right) + s\left(C_LR_4 + 2C_LR_L + 2L_1g_m\right) + 2c_LR_4R_4g_m + c_LR_4R_4g_m 
10.150 INVALID-ORDER-150 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                   10.151 INVALID-ORDER-151 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                   H(s) = \frac{C_4 L_1 L_4 L_L R_4 g_m s^4 + L_1 L_4 L_L g_m s^3 + L_1 L_L R_4 g_m s^2}{C_4 C_L L_1 L_4 L_L R_4 g_m s^5 + R_4 + s^4 \left(C_4 C_L L_4 L_L R_4 + 2 C_4 L_1 L_4 L_L g_m + C_L L_1 L_4 L_L g_m \right) + s^3 \left(C_4 L_1 L_4 R_4 g_m + 2 C_4 L_4 L_L + C_L L_1 L_L R_4 g_m + C_L L_4 L_L \right) + s^2 \left(C_4 L_4 R_4 + C_L L_L R_4 + L_1 L_4 g_m + 2 L_1 L_L g_m \right) + s \left(L_1 R_4 g_m + L_4 + 2 L_L \right)}
10.152 INVALID-ORDER-152 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}, \infty, L_1 s + R_1 + \frac{1}{C_{L_1} s}\right)
H(s) = \frac{C_4C_LL_1L_4L_LR_4g_ms^5 + L_1R_4g_ms + s^4\left(C_4C_LL_1L_4R_4R_Lg_m + C_LL_1L_4R_4g_m + C_LL_1R_4g_m + C_LL_1L_4R_4g_m + C_LL_1L
10.153 INVALID-ORDER-153 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_4L_1L_4L_LR_4R_Lg_ms^4 + L_1L_4L_LR_Lg_ms^3 + L_1L_LR_4R_Lg_ms^2
H(s) = \frac{C_4 L_1 L_4 L_L R_4 R_L g_m s^5 + L_1 L_4 L_L R_4 g_m s^5 + L_1 L_L R_4 R_L g_m s^5}{C_4 C_L L_1 L_4 L_L R_4 R_L + s^4 \left(C_4 C_L L_4 L_L R_4 R_L + C_4 L_1 L_4 L_L R_4 g_m + C_4 L_4 L_L R_4 R_L + C_4 L_4 L_4 R_4 R_L + C_4 
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_4C_LL_1L_4L_LR_4g_ms^5 + L_1R_4R_Lg_ms + s^4\left(C_4L_1L_4L_LR_4g_m + C_LL_1L_4L_LR_4g_m + C_LL_1L_LR_4g_m + C_LL_1L_LR_4g_m + L_1L_4L_Lg_m\right) + s^2\left(L_1L_4R_Lg_m + L_1L_4L_Lg_m + C_LL_1L_4L_LR_4g_m + C_LL_4L_LR_4g_m + C_LL_4L_4L_4R_4g_m + C_LL_4L_4R_4g_m + C_LL_4L_4R_4
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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}s^{5} + C_{L}L_{1}L_{4}L_{L}R_{L}g_{m}s^{4} + L_{1}L_{4}R_{L}g_{m}s^{2} + L_{1}R_{4}R_{L}g_{m}s + s^{3}\left(C_{4}L_{1}L_{4}R_{4}R_{L}g_{m} + C_{L}L_{1}L_{L}R_{4}R_{L}g_{m}\right)
                                     \overline{R_4 + 2R_L + s^5 \left( C_4 C_L L_1 L_4 L_L R_4 g_m + 2C_4 C_L L_1 L_4 L_L R_4 g_m + C_L L_1 L_4 R_4 g_m + C_L
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10.146 INVALID-ORDER-146 $Z(s) = \left(L_1 s, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$

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10.156 INVALID-ORDER-156 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}, \infty, R_L\right)
                                                                                                                                                                                                                                                                                        H(s) = \frac{C_4 L_1 L_4 R_4 R_L g_m s^3 + L_1 R_4 R_L g_m s}{R_4 + 2 R_L + s^3 \left( C_4 L_1 L_4 R_4 g_m + 2 C_4 L_1 L_4 R_L g_m \right) + s^2 \left( 2 C_4 L_1 R_4 R_L g_m + C_4 L_4 R_4 + 2 C_4 L_4 R_L \right) + s \left( 2 C_4 R_4 R_L + L_1 R_4 g_m + 2 L_1 R_L g_m \right)}{R_4 + 2 R_L + s^3 \left( C_4 L_1 L_4 R_4 g_m + 2 C_4 L_1 L_4 R_L g_m \right) + s^2 \left( 2 C_4 L_1 R_4 R_L g_m + C_4 L_4 R_4 + 2 C_4 L_4 R_L \right) + s \left( 2 C_4 R_4 R_L + L_1 R_4 g_m + 2 L_1 R_L g_m \right)}
10.157 INVALID-ORDER-157 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                    H(s) = \frac{C_4 L_1 L_4 R_4 g_m s^3 + L_1 R_4 g_m s}{C_4 C_L L_1 L_4 R_4 g_m s^4 + s^3 \left( C_4 C_L L_4 R_4 + 2 C_4 L_1 L_4 g_m \right) + s^2 \left( 2 C_4 L_1 R_4 g_m + 2 C_4 L_4 + C_L L_1 R_4 g_m \right) + s \left( 2 C_4 R_4 + C_L R_4 + 2 L_1 g_m \right) + 2 C_4 R_4 + C_
10.158 INVALID-ORDER-158 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                               H(s) = \frac{C_4 L_1 L_4 R_4 R_L g_m s^3 + L_1 R_4 R_L g_m s}{C_4 C_L L_1 L_4 R_4 R_L g_m s^4 + R_4 + 2 R_L + s^3 \left( C_4 C_L L_4 R_4 R_L + C_4 L_1 L_4 R_4 g_m + 2 C_4 L_1 L_4 R_L g_m \right) + s^2 \left( 2 C_4 L_1 R_4 R_L g_m + C_4 L_4 R_4 + 2 C_4 L_4 R_L + C_L L_1 R_4 R_L g_m \right) + s \left( 2 C_4 R_4 R_L + C_L R_4 R_L + L_1 R_4 g_m + 2 L_1 R_L g_m \right)}
10.159 INVALID-ORDER-159 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}, \infty, R_L + \frac{1}{C_L s}\right)
                                                 H(s) = \frac{C_4C_LL_1L_4R_4R_Lg_ms^4 + C_4L_1L_4R_4g_ms^3 + C_LL_1R_4R_Lg_ms^2 + L_1R_4g_ms}{s^4\left(C_4C_LL_1L_4R_4g_m + 2C_4L_LL_4R_4g_m + 2C_4L_4R_4g_m + 2C_4L_
10.160 INVALID-ORDER-160 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                              H(s) = \frac{C_4C_LL_1L_4L_LR_4g_ms^5 + L_1R_4g_ms + s^3\left(C_4L_1L_4R_4g_m + C_LL_1L_LR_4g_m\right)}{2C_4C_LL_1L_4L_Lg_ms^5 + s^4\left(C_4C_LL_1L_4R_4g_m + 2C_4C_LL_1L_LR_4g_m + 2C_4C_LL_1L_4R_4 + 2C_4C_LL_1L_4g_m + 2C_4L_1L_4g_m + 2C_4L_4 + C_LL_1R_4g_m + 2C_4L_1L_4g_m + 2C_4L_4 + C_4L_1L_4g_m + 2C_4L_4 + C_4L_4R_4g_m + 2C_4L_4R_4 + 2C_4L_
10.161 INVALID-ORDER-161 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                        10.162 INVALID-ORDER-162 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_4C_LL_1L_4R_4g_ms^5 + C_4C_LL_1L_4R_4g_ms^4 + C_LL_1R_4g_ms^4 + C_LL_1R_4g_ms^2 + L_1R_4g_ms^2 + L_1R_4g_ms + s^3\left(C_4L_1L_4R_4g_m + C_LL_1L_LR_4g_m\right)}{2C_4C_LL_1L_4L_2g_ms^5 + s^4\left(C_4C_LL_1L_4R_4g_m + 2C_4C_LL_1L_4R_4g_m + 2C_4C_LL_4R_4 + 
10.163 INVALID-ORDER-163 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_4 L_1 L_4 L_L R_4 R_L g_m s^4 + L_1 L_L R_4 R_L g_m s^2}{C_4 C_L L_1 L_4 L_L R_4 R_L g_m s^5 + R_4 R_L + s^4 \left( C_4 C_L L_4 L_L R_4 R_L + C_4 L_1 L_4 L_L R_4 g_m + 2 C_4 L_1 L_4 R_4 R_L g_m + 2 C_4 L_4 L_L R_4 + 2 C_4 L_4 L_L R_4 R_L g_m + s^2 \left( C_4 L_4 R_4 R_L + C_4 L_4 L_L R_4 R_L + C_4 L_4 L_L R_4 R_L + 2 C_4 L_4 R_
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 $H(s) = \frac{C_4C_LL_1L_4L_LR_4g_ms^5 + C_4L_1L_4L_LR_4g_ms^4 + L_1L_LR_4g_ms^4 + L_1L$

10.164 INVALID-ORDER-164 $Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

10.165 INVALID-ORDER-165
$$Z(s) = \left(L_1 s, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{C_4C_LL_1L_4L_LR_4R_Lg_ms^5 + L_1R_4R_Lg_ms + s^3\left(C_4L_1L_4R_4R_Lg_m + C_LL_1L_LR_4R_Lg_m\right)}{R_4 + 2R_L + s^5\left(C_4C_LL_1L_4L_LR_4g_m + 2C_4C_LL_1L_4R_4g_m + 2C_4C_LL_1L_4R_4g_m + 2C_4C_LL_4L_RA_4R_L + 2C_4C_LL_4R_4R_L + 2C_4C_LL_$

10.166 INVALID-ORDER-166 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L\right)$

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

10.167 INVALID-ORDER-167 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_L R_4 g_m s^2 + R_4 g_m}{2C_1 C_L L_L s^3 + 2g_m + s^2 \left(C_1 C_L R_4 + 2C_L L_L g_m \right) + s \left(2C_1 + C_L R_4 g_m \right)}$$

10.168 INVALID-ORDER-168 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L R_4 g_m s}{C_1 C_L L_L R_4 s^3 + R_4 g_m + s^2 \left(2 C_1 L_L + C_L L_L R_4 g_m\right) + s \left(C_1 R_4 + 2 L_L g_m\right)}$$

10.169 INVALID-ORDER-169 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_L R_4 g_m s^2 + C_L R_4 R_L g_m s + R_4 g_m}{2C_1 C_L L_L s^3 + 2g_m + s^2 \left(C_1 C_L R_4 + 2C_1 C_L R_L + 2C_L L_L g_m \right) + s \left(2C_1 + C_L R_4 g_m + 2C_L R_L g_m \right)}$$

10.170 INVALID-ORDER-170 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{L_L R_4 R_L g_m s}{C_1 C_L L_L R_4 R_L s^3 + R_4 R_L g_m + s^2 \left(C_1 L_L R_4 + 2 C_1 L_L R_L + C_L L_L R_4 R_L g_m \right) + s \left(C_1 R_4 R_L + L_L R_4 g_m + 2 L_L R_L g_m \right)}$$

10.171 INVALID-ORDER-171 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{C_L L_R L_s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_L L_L R_4 R_L g_m s^2 + L_L R_4 g_m s + R_4 R_L g_m}{R_4 g_m + 2 R_L g_m + s^3 \left(C_1 C_L L_L R_4 + 2 C_1 C_L L_L R_L \right) + s^2 \left(2 C_1 L_L + C_L L_L R_4 g_m + 2 C_L L_L R_L g_m \right) + s \left(C_1 R_4 + 2 C_1 R_L + 2 L_L g_m \right)}$$

10.172 INVALID-ORDER-172 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_L L_L R_4 R_L g_m s^2 + R_4 R_L g_m}{R_4 g_m + 2 R_L g_m + s^3 \left(C_1 C_L L_L R_4 + 2 C_1 C_L L_L R_L \right) + s^2 \left(C_1 C_L R_4 R_L + C_L L_L R_4 g_m + 2 C_L L_L R_L g_m \right) + s \left(C_1 R_4 + 2 C_1 R_L + C_L R_4 R_L g_m \right)}$$

10.173 INVALID-ORDER-173 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\right)$

$$H(s) = \frac{g_m}{s^2 (2C_1C_4 + C_1C_L) + s (2C_4g_m + C_Lg_m)}$$

10.174 INVALID-ORDER-174 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L R_L g_m s + g_m}{2C_1 C_4 C_L R_L s^3 + s^2 \left(2C_1 C_4 + C_1 C_L + 2C_4 C_L R_L g_m\right) + s \left(2C_4 g_m + C_L g_m\right)}$$

10.175 INVALID-ORDER-175
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L g_m s^2 + g_m}{2C_1 C_4 C_L L_L s^4 + 2C_4 C_L L_L g_m s^3 + s^2 (2C_1 C_4 + C_1 C_L) + s (2C_4 g_m + C_L g_m)}$$

10.176 INVALID-ORDER-176
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L g_m s}{C_1 s + g_m + s^3 \left(2 C_1 C_4 L_L + C_1 C_L L_L\right) + s^2 \left(2 C_4 L_L g_m + C_L L_L g_m\right)}$$

10.177 INVALID-ORDER-177
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L g_m s^2 + C_L R_L g_m s + g_m}{2C_1 C_4 C_L L_L s^4 + s^3 \left(2C_1 C_4 C_L R_L + 2C_4 C_L L_L g_m\right) + s^2 \left(2C_1 C_4 + C_1 C_L + 2C_4 C_L R_L g_m\right) + s \left(2C_4 g_m + C_L g_m\right)}$$

10.178 INVALID-ORDER-178
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.179 INVALID-ORDER-179
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_L L_L R_L g_m s^2 + L_L g_m s + R_L g_m}{2C_1 C_4 C_L L_L R_L s^4 + g_m + s^3 \left(2C_1 C_4 L_L + C_1 C_L L_L + 2C_4 C_L L_L R_L g_m\right) + s^2 \left(2C_1 C_4 R_L + 2C_4 L_L g_m + C_L L_L g_m\right) + s \left(C_1 + 2C_4 R_L g_m\right)}$$

10.180 INVALID-ORDER-180
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_L L_L R_L g_m s^2 + R_L g_m}{2C_1 C_4 C_L L_L R_L s^4 + g_m + s^3 \left(C_1 C_L L_L + 2C_4 C_L L_L R_L g_m\right) + s^2 \left(2C_1 C_4 R_L + C_1 C_L R_L + C_L L_L g_m\right) + s \left(C_1 + 2C_4 R_L g_m + C_L R_L g_m\right)}$$

10.181 INVALID-ORDER-181 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.182 INVALID-ORDER-182 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_L R_4 g_m s^2 + R_4 g_m}{2C_1 C_4 C_L L_L R_4 s^4 + 2 g_m + s^3 \left(2C_1 C_L L_L + 2C_4 C_L L_L R_4 g_m\right) + s^2 \left(2C_1 C_4 R_4 + C_1 C_L R_4 + 2C_L L_L g_m\right) + s \left(2C_1 + 2C_4 R_4 g_m + C_L R_4 g_m\right)}{2C_1 C_4 C_L L_L R_4 s^4 + 2 g_m + s^3 \left(2C_1 C_L L_L + 2C_4 C_L L_L R_4 g_m\right) + s^2 \left(2C_1 C_4 R_4 + C_1 C_L R_4 + 2C_L L_L g_m\right) + s \left(2C_1 + 2C_4 R_4 g_m + C_L R_4 g_m\right)}$$

10.183 INVALID-ORDER-183 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.184 INVALID-ORDER-184 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_L R_4 g_m s^2 + C_L R_4 R_L g_m s + R_4 g_m}{2C_1 C_4 C_L L_L R_4 s^4 + 2 g_m + s^3 \left(2C_1 C_4 C_L L_L R_4 R_L + 2C_1 C_L L_L + 2C_4 C_L L_L R_4 g_m\right) + s^2 \left(2C_1 C_4 R_4 + C_1 C_L R_4 + 2C_1 C_L R_L + 2C_4 C_L R_4 R_L g_m + 2C_L L_L g_m\right) + s \left(2C_1 + 2C_4 R_4 g_m + C_L R_4 g_m + 2C_L R_4 g_m\right)}$$

10.185 INVALID-ORDER-185
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s+1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_L R_4 R_L g_m s}{R_4 R_L g_m + s^3 \left(2 C_1 C_4 L_L R_4 R_L + C_1 C_L L_L R_4 R_L\right) + s^2 \left(C_1 L_L R_4 + 2 C_1 L_L R_4 + 2 C_4 L_L R_4 R_L g_m + C_L L_L R_4 R_L g_m\right) + s \left(C_1 R_4 R_L + L_L R_4 g_m + 2 L_L R_L g_m\right)}$$
10.186 INVALID-ORDER-186 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s+1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_L L_L R_4 R_L g_m s^2 + L_L R_4 g_m s + R_4 R_L g_m}{2C_1 C_4 C_L L_L R_4 R_L s^4 + R_4 g_m + 2R_L g_m + s^3 \left(2C_1 C_4 L_L R_4 + C_1 C_L L_L R_4 + 2C_1 C_L L_L R_4 R_L g_m\right) + s^2 \left(2C_1 C_4 R_4 R_L + 2C_1 L_L + 2C_4 L_L R_4 g_m + C_L L_L R_4 g_m + 2C_L L_L R_4 g_m\right) + s \left(C_1 R_4 + 2C_1 R_L + 2C_4 R_4 R_L g_m\right) + s \left(C_1 R_4 + 2C_1 R_L + 2C_4 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_4 R_L g_m\right) + s \left(C_1 R_4 R_L g_m + C_2 R_$

10.187 INVALID-ORDER-187 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_L L_L R_4 R_L g_m s^2 + R_4 R_L g_m}{2C_1 C_4 C_L L_L R_4 R_L s^4 + R_4 g_m + 2R_L g_m + s^3 \left(C_1 C_L L_L R_4 + 2C_1 C_L L_L R_4 + 2C_1 C_L L_L R_4 R_L g_m\right) + s^2 \left(2C_1 C_4 R_4 R_L + C_1 C_L R_4 R_L + C_1 C_L R_4 R_L + C_1 C_L R_4 R_L g_m\right) + s \left(C_1 R_4 + 2C_1 R_L + 2C_4 R_4 R_L g_m + C_1 R_4 R_L g_m\right)}$

10.188 INVALID-ORDER-188 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$

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

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

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

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

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

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

$$H(s) = \frac{C_4 C_L L_L R_4 g_m s^3 + C_4 R_4 g_m s + C_L L_L g_m s^2 + g_m}{2C_1 C_4 C_L L_L s^4 + s^3 \left(C_1 C_4 C_L R_4 + 2C_4 C_L L_L g_m\right) + s^2 \left(2C_1 C_4 + C_1 C_L + C_4 C_L R_4 g_m\right) + s \left(2C_4 g_m + C_L g_m\right)}$$

10.192 INVALID-ORDER-192 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_4 L_L R_4 g_m s^2 + L_L g_m s}{C_1 C_4 C_L L_L R_4 s^4 + g_m + s^3 \left(2 C_1 C_4 L_L + C_1 C_L L_L + C_4 C_L L_L R_4 g_m\right) + s^2 \left(C_1 C_4 R_4 + 2 C_4 L_L g_m + C_L L_L g_m\right) + s \left(C_1 + C_4 R_4 g_m\right)}$$

10.193 INVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_4C_LL_LR_4g_ms^3 + g_m + s^2\left(C_4C_LR_4R_Lg_m + C_LL_Lg_m\right) + s\left(C_4R_4g_m + C_LR_Lg_m\right)}{2C_1C_4C_LL_Ls^4 + s^3\left(C_1C_4C_LR_4 + 2C_1C_4C_LR_L + 2C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4 + C_1C_L + C_4C_LR_4g_m + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$$

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

$$H(s) = \frac{C_4 L_L R_4 R_L g_m s^2 + L_L R_L g_m s}{C_1 C_4 C_L L_L R_4 R_L s^4 + R_L g_m + s^3 \left(C_1 C_4 L_L R_4 + 2 C_1 C_4 L_L R_L + C_1 C_L L_L R_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 L_L + C_4 L_L R_4 g_m + 2 C_4 L_L R_4 g_m + C_L L_L R_4 g_m\right) + s \left(C_1 R_L + C_4 R_4 R_L g_m + L_L g_m\right)}$$

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

$$H(s) = \frac{{C_4 {C_L}{L_L}{R_4}{R_L}{g_m}{s^3} + {R_L}{g_m} + {s^2}\left({{C_4}{L_L}{R_4}{g_m} + {C_L}{L_L}{R_L}{g_m}} \right) + s\left({{C_4}{R_4}{R_L}{g_m} + {L_L}{g_m}} \right)}{{g_m} + {s^4}\left({{C_1}{C_4}{C_L}{L_L}{R_4} + 2{C_1}{C_4}{C_L}{L_L}{R_L}} \right) + s^3\left({2{C_1}{C_4}{L_L} + {C_1}{C_L}{L_L} + {C_4}{C_L}{L_L}{R_4}{g_m} + 2{C_4}{C_L}{L_L}{R_L}{g_m}} \right) + s^2\left({{C_1}{C_4}{R_4} + 2{C_1}{C_4}{R_L} + 2{C_4}{L_L}{g_m}} \right) + s\left({{C_1} + {C_4}{R_4}{g_m} + 2{C_4}{R_L}{g_m}} \right) + s\left({{C_1} + {C_4}{R_4}{g_m} + {C_L}{L_L}{g_m}} \right) + s\left({{C_1} + {C_4}{R_4}{g_m} + 2{C_4}{C_L}{L_L}{g_m}} \right) + s\left({{C_1} + {C_4}{R_4}{g_m} + {C_L}{L_L}{g_m}} \right) + s\left({{C_1} + {C_2}{R_4}{g_m} + {C_2}{R_4}{g_m} + {C_2}{R_4}{g_m} \right) + s\left({{C_1} + {C_2}{R_4}{g_m} + {C_2}{R_4}{g_m} \right) + s\left({{C_2} + {C_2}{R_4$$

10.196 INVALID-ORDER-196
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_4 C_L L_L R_4 R_L g_m s^3 + C_4 R_4 R_L g_m s + C_L L_L R_L g_m s^2 + R_L g_m}{g_m + s^4 \left(C_1 C_4 C_L L_L R_4 + 2 C_1 C_4 C_L L_L R_L \right) + s^3 \left(C_1 C_4 C_L R_4 R_L + C_1 C_L L_L + C_4 C_L L_L R_L g_m \right) + s^2 \left(C_1 C_4 R_4 + 2 C_1 C_4 R_L + C_4 C_L R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L g_m + C_L R_L g_m + C_L R_L g_m \right) + s \left(C_1 C_4 R_L$$

10.197 INVALID-ORDER-197 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)$

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

10.198 INVALID-ORDER-198 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$

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

10.199 INVALID-ORDER-199
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

10.200 INVALID-ORDER-200
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$$

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

10.201 INVALID-ORDER-201 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$

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

10.202 INVALID-ORDER-202 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_4 L_4 L_L g_m s^3 + L_L g_m s}{C_1 C_4 C_L L_4 L_L s^5 + C_1 s + C_4 C_L L_4 L_L g_m s^4 + g_m + s^3 \left(C_1 C_4 L_4 + 2 C_1 C_4 L_L + C_1 C_L L_L \right) + s^2 \left(C_4 L_4 g_m + 2 C_4 L_L g_m + C_L L_L g_m \right)}$$

10.203 INVALID-ORDER-203
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_4C_LL_4L_Lg_ms^4 + C_4C_LL_4R_Lg_ms^3 + C_LR_Lg_ms + g_m + s^2\left(C_4L_4g_m + C_LL_Lg_m\right)}{s^4\left(C_1C_4C_LL_4 + 2C_1C_4C_LL_L\right) + s^3\left(2C_1C_4C_LR_L + C_4C_LL_4g_m + 2C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4 + C_1C_L + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$$

10.204 INVALID-ORDER-204
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

10.205 INVALID-ORDER-205
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_4C_LL_4L_LR_Lg_ms^4 + C_4L_4L_Lg_ms^3 + L_Lg_ms + R_Lg_m + s^2\left(C_4L_4R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_4C_LL_4L_Ls^5 + g_m + s^4\left(2C_1C_4C_LL_LR_L + C_4C_LL_4L_Lg_m\right) + s^3\left(C_1C_4L_4 + 2C_1C_4L_L + C_1C_LL_L + 2C_4C_LL_LR_Lg_m\right) + s^2\left(2C_1C_4R_L + C_4L_4g_m + 2C_4L_Lg_m\right) + s\left(C_1 + 2C_4R_Lg_m\right)}$$

10.206 INVALID-ORDER-206
$$Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_4 C_L L_4 L_L R_L g_m s^4 + R_L g_m + s^2 \left(C_4 L_4 R_L g_m + C_L L_L R_L g_m \right)}{C_1 C_4 C_L L_4 L_L s^5 + g_m + s^4 \left(C_1 C_4 C_L L_4 R_L + C_4 C_L L_4 L_L g_m \right) + s^3 \left(C_1 C_4 L_4 + C_1 C_L L_L + C_4 C_L L_4 R_L g_m + 2 C_4 C_L L_L R_L g_m \right) + s^2 \left(2 C_1 C_4 R_L + C_1 C_L R_L + C_4 L_4 g_m + C_L L_L g_m \right) + s \left(C_1 + 2 C_4 R_L g_m + C_L R_L g_m \right)}$$

10.207 INVALID-ORDER-207 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$

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

10.208 INVALID-ORDER-208 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)$

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

10.209 INVALID-ORDER-209 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

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

10.211 INVALID-ORDER-211 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_4 L_L g_m s^3 + L_4 g_m s}{2C_1 C_4 C_L L_4 L_L s^5 + 2C_1 s + 2C_4 C_L L_4 L_L g_m s^4 + 2g_m + s^3 \left(2C_1 C_4 L_4 + C_1 C_L L_4 + 2C_1 C_L L_L\right) + s^2 \left(2C_4 L_4 g_m + C_L L_4 g_m + 2C_L L_L g_m\right)}$$

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

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

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

$$H(s) = \frac{C_L L_4 L_L g_m s^3 + C_L L_4 R_L g_m s^2 + L_4 g_m s}{2C_1 C_4 C_L L_4 L_L s^5 + 2g_m + s^4 \left(2C_1 C_4 C_L L_4 R_L + 2C_4 C_L L_4 L_L g_m\right) + s^3 \left(2C_1 C_4 L_4 + C_1 C_L L_4 + 2C_1 C_L L_L + 2C_4 C_L L_4 R_L g_m\right) + s^2 \left(2C_1 C_L R_L + 2C_4 L_4 g_m + C_L L_4 g_m + 2C_L L_L g_m\right) + s \left(2C_1 C_L R_L + 2C_4 L_4 R_L g_m\right) + s \left(2C_1 C_L R_L + 2C_4 R_L g_m\right) + s \left(2C_1 C_L R_L + 2C_4 R_L g_m\right) + s \left(2C_1 C_L R_L + 2C_4 R_L g_m\right) + s \left(2C_1 C_L R_L + 2C_4 R_L g_m\right) + s \left(2C$$

10.214 INVALID-ORDER-214 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{L_4 L_L R_L g_m s}{L_4 R_L q_m + 2 L_L R_L q_m + s^3 \left(2 C_1 C_4 L_4 L_L R_L + C_1 C_L L_4 L_L R_L\right) + s^2 \left(C_1 L_4 L_L + 2 C_4 L_4 L_L R_L g_m + C_L L_4 L_L R_L g_m\right) + s \left(C_1 L_4 R_L + 2 C_1 L_L R_L + L_4 L_L g_m\right)}$ 10.215 INVALID-ORDER-215 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_R L_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_L L_4 L_L R_L g_m s^3 + L_4 L_L g_m s^2 + L_4 R_L g_m s}{2C_1 C_4 C_L L_4 L_L R_L s^5 + 2R_L g_m + s^4 \left(2C_1 C_4 L_4 L_L + 2C_4 C_L L_4 L_L R_L g_m\right) + s^3 \left(2C_1 C_4 L_4 R_L + 2C_4 C_4 L_4 L_L g_m + C_L L_4 L_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m\right) + s^2 \left(C_1 10.216 INVALID-ORDER-216 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_L L_4 L_L R_L g_m s^3 + L_4 R_L g_m s}{2C_1 C_4 C_L L_4 L_L R_L s^5 + 2R_L g_m + s^4 \left(C_1 C_L L_4 L_L + 2C_4 C_L L_4 L_L R_L g_m\right) + s^3 \left(2C_1 C_4 L_4 R_L + C_1 C_L L_4 R_L + 2C_1 C_L L_4 R_L + C_L L_4 L_L g_m\right) + s^2 \left(C_1 L_4 + 2C_4 L_4 R_L g_m + C_L L_4 R_L g_m + 2C_L L_4 R_L g_m\right) + s^2 \left(C_1 R_L + 2C_4 L_4 R_L g_m + C_L L_4 R_L g_m\right) + s^2 \left(C_1 R_L + 2C_4 R_L g_m + C_L R_L g_m\right) + s^2 \left(C_1 R_L + 2C_4 R_L g_m + C_L R_L g_m\right) + s^2 \left(C_1 R_L + 2C_4 R_L g_m + C_L R_L g_m\right) + s^2 \left(C_1 R_L + 2C_4 R_L g_m + C_L R_L g_m\right) + s^2 \left(C_1 R_L + 2C_4 R_L g_m\right) + s^2 \left(C_1 R_L +$ **10.217** INVALID-ORDER-217 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$ $H(s) = \frac{C_4 L_4 R_L g_m s^2 + C_4 R_4 R_L g_m s + R_L g_m}{C_1 C_4 L_4 s^3 + g_m + s^2 \left(C_1 C_4 R_4 + 2 C_1 C_4 R_L + C_4 L_4 g_m \right) + s \left(C_1 + C_4 R_4 g_m + 2 C_4 R_L g_m \right)}$ 10.218 INVALID-ORDER-218 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_4 L_4 g_m s^2 + C_4 R_4 g_m s + g_m}{C_1 C_4 C_L L_4 s^4 + s^3 \left(C_1 C_4 C_L R_4 + C_4 C_L L_4 g_m\right) + s^2 \left(2 C_1 C_4 + C_1 C_L + C_4 C_L R_4 g_m\right) + s \left(2 C_4 g_m + C_L g_m\right)}$ **10.219** INVALID-ORDER-219 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_4 L_4 R_L g_m s^2 + C_4 R_4 R_L g_m s + R_L g_m}{C_1 C_4 C_L L_4 R_L s^4 + g_m + s^3 \left(C_1 C_4 C_L R_4 R_L + C_1 C_4 L_4 + C_4 C_L L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 + 2 C_1 C_4 R_L + C_1 C_L R_L + C_4 C_L R_4 R_L g_m + C_4 L_4 g_m\right) + s \left(C_1 + C_4 R_4 g_m + 2 C_4 R_L g_m + C_4 R_L g_m\right)}$ **10.220** INVALID-ORDER-220 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_4C_LL_4R_Lg_ms^3 + g_m + s^2\left(C_4C_LR_4R_Lg_m + C_4L_4g_m\right) + s\left(C_4R_4g_m + C_LR_Lg_m\right)}{C_1C_4C_LL_4s^4 + s^3\left(C_1C_4C_LR_4 + 2C_1C_4C_LR_L + C_4C_LL_4g_m\right) + s^2\left(2C_1C_4 + C_1C_L + C_4C_LR_4g_m + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.221 INVALID-ORDER-221 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_4 C_L L_4 L_L g_m s^4 + C_4 C_L L_L R_4 g_m s^3 + C_4 R_4 g_m s + g_m + s^2 \left(C_4 L_4 g_m + C_L L_L g_m \right)}{s^4 \left(C_1 C_A C_L L_A + 2 C_1 C_A C_L L_L \right) + s^3 \left(C_1 C_A C_L R_4 + C_4 C_L L_4 q_m + 2 C_4 C_L L_L q_m \right) + s^2 \left(2 C_1 C_4 + C_1 C_L + C_4 C_L R_4 g_m \right) + s \left(2 C_4 g_m + C_L g_m \right)}$ 10.222 INVALID-ORDER-222 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_4L_4L_Lg_ms^3 + C_4L_LR_4g_ms^2 + L_Lg_ms}{C_1C_4C_LL_4L_Ls^5 + g_m + s^4\left(C_1C_4C_LL_LR_4 + C_4C_LL_4L_g_m\right) + s^3\left(C_1C_4L_4 + 2C_1C_4L_L + C_4C_LL_LR_4g_m\right) + s^2\left(C_1C_4R_4 + C_4L_4g_m + 2C_4L_Lg_m\right) + s\left(C_1 + C_4R_4g_m\right)}{c_1C_4C_LL_4L_Ls^5 + g_m + s^4\left(C_1C_4C_LL_4L_4L_2g_m\right) + s^3\left(C_1C_4L_4 + 2C_1C_4L_4 + C_4C_LL_4L_4g_m\right) + s^2\left(C_1C_4R_4 + C_4L_4g_m + 2C_4L_4g_m\right) + s^2\left(C_1C_4R_4 + C_4L_4g_m + 2C_4L_4g_m\right) + s^2\left(C_1C_4R_4 + C_4L_4g_m + 2C_4L_4g_m\right) + s^2\left(C_1C_4R_4 + C_4L_4g_m\right) + s^2\left(C_1C_4R_4 + C_4C_4R_4g_m\right) + s^2\left(C_1C_4R_4 + C_4$

 $\begin{aligned} \textbf{10.223} \quad \textbf{INVALID-ORDER-223} \ \ Z(s) &= \left(\frac{1}{C_1 s}, \ \infty, \ \infty, \ L_4 s + R_4 + \frac{1}{C_4 s}, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \\ & H(s) &= \frac{C_4 C_L L_4 L_L g_m s^4 + g_m + s^3 \left(C_4 C_L L_4 R_L g_m + C_4 C_L L_L R_4 g_m\right) + s^2 \left(C_4 C_L R_4 R_L g_m + C_4 L_L g_m\right) + s \left(C_4 R_4 g_m + C_L L_L g_m\right) + s \left(C_4 R_4 g_m + C_L R_L g_m\right) \\ & \frac{c_4 C_L L_4 L_L g_m s^4 + g_m + s^3 \left(C_4 C_L L_4 R_L g_m + C_4 C_L L_L R_4 g_m\right) + s^2 \left(C_4 C_L R_4 R_L g_m + C_L L_L g_m\right) + s \left(C_4 R_4 g_m + C_L R_L g_m\right) + s \left(C_4 R_L g_m + C_L R_L g_m\right) + s$

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10.224 INVALID-ORDER-224 Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_4 L_4 L_L R_L g_m s^3 + C_4 L_L R_4 R_L g_m s^2 + L_L R_L g_m s}{C_1 C_4 C_L L_4 L_L R_4 s^5 + R_L g_m + s^4 \left(C_1 C_4 C_L L_L R_4 R_L + C_1 C_4 L_4 L_L R_L g_m\right) + s^3 \left(C_1 C_4 L_4 R_L + C_1 C_4 L_L R_4 + 2 C_1 C_4 L_L R_4 + C_1 C_4 L_L R_4 R_L g_m + C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 L_L + C_4 L_4 R_L g_m + C_4 L_4 R_L g_m + C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m + C_4 L_4 R_L g_m + C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m + C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m + C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m + C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 L_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_4 R_4 R_L + C_1 C_4 R_L g_m\right) + s^2 \left(C_1 C_
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\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}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.227 INVALID-ORDER-227 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}, \infty, R_L\right)
                                                                                                                                                                           H(s) = \frac{L_4 R_4 R_L g_m s}{2C_1 C_4 L_4 R_4 R_L s^3 + 2R_4 R_L q_m + s^2 (C_1 L_4 R_4 + 2C_1 L_4 R_L + 2C_4 L_4 R_4 R_L q_m) + s (2C_1 R_4 R_L + L_4 R_4 q_m + 2L_4 R_L q_m)}
10.228 INVALID-ORDER-228 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                        H(s) = \frac{L_4 R_4 g_m s}{2R_4 g_m + s^3 \left(2C_1 C_4 L_4 R_4 + C_1 C_L L_4 R_4\right) + s^2 \left(2C_1 L_4 + 2C_4 L_4 R_4 g_m + C_L L_4 R_4 g_m\right) + s \left(2C_1 R_4 + 2L_4 g_m\right)}
10.229 INVALID-ORDER-229 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                            H(s) = \frac{L_4 R_4 R_L g_m s}{2 R_4 R_L g_m + s^3 \left(2 C_1 C_4 L_4 R_4 R_L + C_1 C_L L_4 R_4 R_L\right) + s^2 \left(C_1 L_4 R_4 + 2 C_1 L_4 R_L + 2 C_4 L_4 R_4 R_L g_m + C_L L_4 R_4 R_L g_m\right) + s \left(2 C_1 R_4 R_L + L_4 R_4 g_m + 2 L_4 R_L g_m\right)}{2 R_4 R_L g_m + s^3 \left(2 C_1 C_4 L_4 R_4 R_L + C_1 C_L L_4 R_4 R_L\right) + s^2 \left(C_1 L_4 R_4 + 2 C_1 L_4 R_4 R_L + 2 C_4 L_4 R_4 R_L g_m\right) + s \left(2 C_1 R_4 R_L + L_4 R_4 g_m + 2 L_4 R_L g_m\right)}
10.230 INVALID-ORDER-230 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}, \infty, R_L + \frac{1}{C_L s}\right)
                                                 H(s) = \frac{C_L L_4 R_4 R_L g_m s^2 + L_4 R_4 g_m s}{2C_1 C_4 L_4 R_4 R_L s^4 + 2R_4 g_m + s^3 \left(2C_1 C_4 L_4 R_4 + C_1 C_L L_4 R_4 + 2C_1 C_L L_4 R_L + 2C_4 C_L L_4 R_4 R_L g_m\right) + s^2 \left(2C_1 C_L R_4 R_L + 2C_1 L_4 + 2C_4 L_4 R_4 g_m + C_L L_4 R_4 g_m + 2C_L L_4 R_4 g_m\right) + s \left(2C_1 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m + 2C_4 R_4 R_L g_m\right) + s \left(2C_1 R_4 R_4 R_L g_m\right) 
10.231 INVALID-ORDER-231 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                             10.232 INVALID-ORDER-232 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
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 $\frac{C_{L}L_{4}L_{L}R_{4}g_{m}s^{3}+C_{L}L_{4}R_{4}g_{m}s^{2}+L_{4}R_{4}g_{m}s}{2C_{1}C_{4}C_{L}L_{4}L_{L}+2C_{1}C_{L}L_{4}L_{L}+2C_{4}C_{L}L_{4}L_{L}+2C_{4}C_{L}L_{4}R_{4}+C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1$

10.233 INVALID-ORDER-233 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)$

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10.234 INVALID-ORDER-234 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                          H(s) = \frac{L_4 L_L R_4 R_L g_m s}{L_4 R_4 R_L g_m + 2 L_L R_4 R_L g_m + s^3 \left(2 C_1 C_4 L_4 L_L R_4 R_L + C_1 C_L L_4 L_L R_4 R_L\right) + s^2 \left(C_1 L_4 L_L R_4 + 2 C_1 L_4 L_L R_4 R_L g_m + C_L L_4 L_L R_4 R_L g_m\right) + s \left(C_1 L_4 R_4 R_L + 2 C_1 L_L R_4 R_L + L_4 L_L R_4 g_m + 2 L_4 L_L R_4 R_L g_m\right)}
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_L L_4 L_L R_4 R_L g_m s^3 + L_4 L_L R_4 g_m s^2 + L_4 R_4 R_L g_m s
                             \frac{C_L L_4 L_L R_4 R_L g_m s}{2C_1 C_4 L_4 L_L R_4 R_L g_m + s^4 \left(2C_1 C_4 L_4 L_L R_4 + C_1 C_L L_4 L_L R_4 + 2C_1 C_L L_4 L_L R_4 R_L + 2C_1 C_L L_4 L_L R_4 R_L + 2C_1 L_4 L_L R_4 R_L + 2C_1 L_4 L_L R_4 R_m + s^4 \left(2C_1 C_4 L_4 L_L R_4 R_L + 2C_1 C_L L_4 L_L R_4 R_L + 2C_1 L_4 L_L R_4 R_m + C_L L_4 L_L R_4 R_m + 2C_1 L_4 L_L R_4 R_L + 2C_
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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_L L_4 L_L R_4 R_L g_m s^3 + L_4 R_4 R_L g_m s
\frac{C_L L_4 L_L R_4 R_L g_m s}{2 C_1 C_4 C_L L_4 L_L R_4 R_L s^5 + 2 R_4 R_L g_m + s^4 \left( C_1 C_L L_4 L_L R_4 + 2 C_1 C_L L_4 L_L R_4 R_L g_m \right) + s^3 \left( 2 C_1 C_4 L_4 R_4 R_L + C_1 C_L L_4 R_4 R_L + C_1 C_L L_4 L_L R_4 R_m + 2 C_1 L_4 L_L R_4 R_m \right) + s^2 \left( C_1 L_4 R_4 R_L + 2 C_1 L_4 L_L R_4 R_L + 2 C_1 L_4 L_L R_4 R_m \right) + s^2 \left( C_1 L_4 R_4 R_L + 2 C_1 L_4 L_L R_4 R_L + 2 C_1 L_4 R_4 R_L \right) + s^2 \left( C_1 L_4 R_4 R_L + 2 C_1 L_4 R_4 R_L R_4 R_L \right) + s^2 \left( C_1 L_4 R_4 R_L + 2 C_1 L_4 R_4 R_L R_4 R_L \right) + s^2 \left( C_1 L_4 R_4 R_L R_4 R_L R_4 R_L R_4 R_L \right) + s^2 \left( C_1 L_4 R_4 R_L R_
10.237 INVALID-ORDER-237 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}, \infty, R_L\right)
                                                                                                                                                                                                                                              H(s) = \frac{C_4 L_4 R_4 R_L g_m s^2 + L_4 R_L g_m s + R_4 R_L g_m}{R_4 g_m + 2 R_L g_m + s^3 \left( C_1 C_4 L_4 R_4 + 2 C_1 C_4 L_4 R_L \right) + s^2 \left( C_1 L_4 + C_4 L_4 R_4 g_m + 2 C_4 L_4 R_L g_m \right) + s \left( C_1 R_4 + 2 C_1 R_L + L_4 g_m \right)}
10.238 INVALID-ORDER-238 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                H(s) = \frac{C_4L_4R_4g_ms^2 + L_4g_ms + R_4g_m}{C_1C_4C_LL_4R_4s^4 + 2g_m + s^3\left(2C_1C_4L_4 + C_1C_LL_4 + C_4C_LL_4R_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_4L_4g_m + C_LL_4g_m\right) + s\left(2C_1 + C_LR_4g_m\right)}
10.239 INVALID-ORDER-239 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                         H(s) = \frac{C_4L_4R_4R_Lg_ms^2 + L_4R_Lg_ms + R_4R_Lg_m}{C_1C_4C_LL_4R_4R_Ls^4 + R_4g_m + 2R_Lg_m + s^3\left(C_1C_4L_4R_4 + 2C_1C_4L_4R_L + C_4C_LL_4R_4R_Lg_m\right) + s^2\left(C_1C_LR_4R_L + C_4L_4R_4g_m + 2C_4L_4R_Lg_m + C_LL_4R_Lg_m\right) + s\left(C_1R_4 + 2C_1R_L + C_LR_4R_Lg_m + L_4g_m\right)}
10.240 INVALID-ORDER-240 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}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                          H(s) = \frac{C_4C_LL_4R_4R_Lg_ms^3 + R_4g_m + s^2\left(C_4L_4R_4g_m + C_LL_4R_Lg_m\right) + s\left(C_LR_4R_Lg_m + L_4g_m\right)}{2g_m + s^4\left(C_1C_4C_LL_4R_4 + 2C_1C_4C_LL_4R_L\right) + s^3\left(2C_1C_4L_4 + C_4C_LL_4R_4g_m + 2C_4C_LL_4R_Lg_m\right) + s^2\left(C_1C_LR_4 + 2C_4C_LL_4R_4\right) + s^2\left(C_1C_LR_4 + 2C_4C_LR_4\right) + s^2\left(C_1C_LR_4\right) + 
10.241 INVALID-ORDER-241 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                        10.242 INVALID-ORDER-242 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                    H(s) = \frac{C_4L_4L_LR_4g_ms^3 + L_4L_Lg_ms^2 + L_LR_4g_ms}{C_1C_4C_LL_4L_LR_4s^5 + R_4g_m + s^4\left(2C_1C_4L_4L_L + C_4C_LL_4L_LR_4g_m\right) + s^3\left(C_1C_4L_4R_4 + C_1C_LL_LR_4 + 2C_4L_4L_Lg_m\right) + s^2\left(C_1L_4 + 2C_1L_L + C_4L_4R_4g_m + C_LL_LR_4g_m\right) + s\left(C_1R_4 + L_4g_m + 2L_Lg_m\right)}
10.243 INVALID-ORDER-243 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                             \frac{C_{4}C_{L}L_{4}L_{L}R_{4}g_{m}s^{4}+R_{4}g_{m}+s^{3}\left(C_{4}C_{L}L_{4}R_{L}g_{m}+C_{L}L_{4}L_{L}g_{m}\right)+s^{2}\left(C_{4}L_{4}R_{L}g_{m}+C_{L}L_{4}R_{L}g_{m}+C_{L}L_{4}R_{L}g_{m}+C_{L}L_{4}R_{L}g_{m}+L_{4}g_{m}\right)}{2C_{1}C_{4}C_{L}L_{4}L_{L}s^{5}+2g_{m}+s^{4}\left(C_{1}C_{4}L_{L}L_{4}R_{L}+2C_{4}C_{L}L_{4}L_{L}g_{m}\right)+s^{3}\left(2C_{1}C_{4}L_{4}+C_{1}C_{L}L_{4}+C_{1}C_{L}L_{4}+C_{2}C_{L}L_{4}R_{L}g_{m}+2C_{4}C_{L}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{4}+2C_{1}C_{L}L_{4}R_{L}g_{m}+C_{L}L_{4}g_{m}+C_{L
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10.244 INVALID-ORDER-244 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_4L_4L_LR_4R_Lg_ms^3 + L_4L_LR_Lg_ms^2 + L_LR_4R_Lg_ms
H(s) = \frac{C_4 L_4 L_L R_4 R_L g_m s^{\mathsf{3}} + L_4 L_L R_L g_m s^{\mathsf{2}} + L_L R_4 R_L g_m s}{C_1 C_4 L_4 L_L R_4 R_L s^{\mathsf{5}} + R_4 R_L g_m + s^{\mathsf{4}} \left( C_1 C_4 L_4 L_L R_4 + 2 C_1 C_4 L_4 L_L R_L + C_4 C_L L_4 L_L R_4 R_L g_m \right) + s^{\mathsf{3}} \left( C_1 C_4 L_4 R_4 R_L + C_1 L_4 L_L R_4 R_L + C_4 L_4 L_L R_4 R_m + 2 C_4 L_4 L_L R_4 g_m + 2 C_4 L_4 L_L R_4 g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_L + C_1 L_4 L_L R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_L + C_4 L_4 L_L R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L + C_4 L_4 L_L R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L + C_4 L_4 L_L R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 L_4 R_L g_m \right) + s^{\mathsf{2}} \left( C_1 
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                               \frac{C_4C_LL_4L_LR_4R_Lg_ms^4 + R_4R_Lg_m + s^3\left(C_4L_4L_LR_4g_m + C_LL_4L_LR_Lg_m\right) + s^2\left(C_4L_4R_4R_Lg_m + C_LL_LR_4R_Lg_m + L_4L_Lg_m\right) + s\left(L_4R_Lg_m + L_LR_4g_m\right)}{R_4g_m + 2R_Lg_m + s^5\left(C_1C_4L_LL_4L_LR_4 + 2C_1C_4L_4L_LR_4\right) + s^4\left(2C_1C_4L_4L_L + C_4C_LL_4L_LR_4g_m + 2C_4C_LL_4L_LR_4g_m\right) + s^3\left(C_1C_4L_4R_4 + 2C_1C_4L_4R_4 + 2C_1C_4L_4L_LR_4\right) + s^4\left(2C_1C_4L_4L_LR_4 + C_4C_4L_4L_LR_4g_m + C_4C_4L_4L_LR_4g_m\right) + s^2\left(C_4L_4R_4R_4R_4 + 2C_4C_4L_4L_4R_4 + 2C_4C_4L_4R_4 + 2C_4C_4L_4L_4R_4 + 2C_4C_4L_4L_4R_4 + 2C_4C_4L_4R_4 + 2C_4C_4L_4L_4R_4 + 2C_4C_4L_4R_4 + 2C_4C
10.246 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_{4}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m}s^{4} + C_{L}L_{4}L_{L}R_{L}g_{m}s^{3} + L_{4}R_{L}g_{m}s + R_{4}R_{L}g_{m} + s^{2}\left(C_{4}L_{4}R_{4}R_{L}g_{m} + C_{L}L_{L}R_{4}R_{L}g_{m}\right)
10.247 INVALID-ORDER-247 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}, \infty, R_L\right)
                                                                                                                                                                                                                                           H(s) = \frac{C_4L_4R_4R_Lg_ms^2 + R_4R_Lg_m}{R_4g_m + 2R_Lg_m + s^3\left(C_1C_4L_4R_4 + 2C_1C_4L_4R_L\right) + s^2\left(2C_1C_4R_4R_L + C_4L_4R_4g_m + 2C_4L_4R_Lg_m\right) + s\left(C_1R_4 + 2C_1R_L + 2C_4R_4R_Lg_m\right)}
10.248 INVALID-ORDER-248 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                   H(s) = \frac{C_4 L_4 R_4 g_m s^2 + R_4 g_m}{C_1 C_4 C_L L_4 R_4 s^4 + 2 g_m + s^3 \left(2 C_1 C_4 L_4 + C_4 C_L L_4 R_4 g_m\right) + s^2 \left(2 C_1 C_4 R_4 + C_1 C_L R_4 + 2 C_4 L_4 g_m\right) + s \left(2 C_1 + 2 C_4 R_4 g_m + C_L R_4 g_m\right)}
10.249 INVALID-ORDER-249 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                            H(s) = \frac{C_4L_4R_4R_Lg_ms^2 + R_4R_Lg_m}{C_1C_4C_LL_4R_4R_Ls^4 + R_4g_m + 2R_Lg_m + s^3\left(C_1C_4L_4R_4 + 2C_1C_4L_4R_L + C_4C_LL_4R_4R_Lg_m\right) + s^2\left(2C_1C_4R_4R_L + C_4L_4R_4g_m + 2C_4L_4R_Lg_m\right) + s\left(C_1R_4 + 2C_1R_L + 2C_4R_4R_Lg_m + C_LR_4R_Lg_m\right)}
10.250 INVALID-ORDER-250 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}, \infty, R_L + \frac{1}{C_L s}\right)
                                         H(s) = \frac{C_4C_LL_4R_4R_Lg_ms^3 + C_4L_4R_4g_ms^2 + C_LR_4R_Lg_ms + R_4g_m}{2g_m + s^4\left(C_1C_4C_LL_4R_4 + 2C_1C_4C_LL_4R_L\right) + s^3\left(2C_1C_4C_LR_4R_L + 2C_1C_4L_4 + C_4C_LL_4R_4g_m + 2C_4C_LL_4R_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_LR_4 + 2C_1C_LR_4 + 2C_4C_LR_4R_Lg_m + 2C_4C_LR_4R_Lg_m\right) + s^2\left(2C_1C_4R_4 + C_4C_LL_4R_4 + 2C_4C_LR_4R_Lg_m + 2C_4C_LR_4R_Lg_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_LR_4R_Lg_m + 2C_4C_LR_4R_Lg_m\right) + s^2\left(2C_1C_4R_4R_Lg_m right) + s^2\left(2C_1C_4R_
10.251 INVALID-ORDER-251 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                      H(s) = \frac{C_4C_LL_4L_Rq_gms^4 + R_4g_m + s^2\left(C_4L_4R_4g_m + C_LL_LR_4g_m\right)}{2C_1C_4C_LL_4L_Ls^5 + 2g_m + s^4\left(C_1C_4C_LL_4R_4 + 2C_1C_4L_LR_4 + 2C_4C_LL_4L_gm\right) + s^3\left(2C_1C_4L_4 + 2C_1C_LL_L + C_4C_LL_4R_4g_m + 2C_4C_LL_LR_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_LR_4 + 2C_4L_4g_m + 2C_4L_4g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4L_4g_m + 2C_4L_4g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_4L_4R_4g_m + 2C_4L_4g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_4L_4R_4g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_4L_4g_m + 2C_4C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_4C_4L_4g_m\right) + s^2\left(
10.252 INVALID-ORDER-252 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_4L_4L_LR_4g_ms^3 + L_LR_4g_ms
                                                                                      H(s) = \frac{C_4 L_4 L_L L_4 g_m s}{C_1 C_4 C_L L_4 L_L R_4 s^5 + R_4 g_m + s^4 \left(2 C_1 C_4 L_4 L_L R_4 g_m\right) + s^3 \left(C_1 C_4 L_4 R_4 + 2 C_1 C_4 L_L R_4 + C_1 C_L L_L R_4 + 2 C_4 L_4 L_L g_m\right) + s^2 \left(2 C_1 L_L + C_4 L_4 R_4 g_m + 2 C_4 L_L R_4 g_m\right) + s \left(C_1 R_4 + 2 L_L g_m\right)}
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10.253 INVALID-ORDER-253 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_4C_LL_4L_Rq_gms^4 + C_4C_LL_4R_4R_Lgms^3 + C_LR_4R_Lgms + R_4gm + s^2\left(C_4L_4R_4g_m + C_LL_LR_4g_m\right)}{2C_1C_4C_LL_4L_Ls^5 + 2g_m + s^4\left(C_1C_4C_LL_4R_4 + 2C_1C_4C_LL_4R_4 + 2C_4C_LL_4R_4 + 2C_4C_LL_4R_4g_m\right) + s^3\left(2C_1C_4C_LR_4R_L + 2C_4C_LL_4R_4g_m + 2C_4C_LL_4R_4g_m + 2C_4C_LL_4R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_LL_4R_4 + 2C_4C_LL_4R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_LL_4R_4g_m + 2C_4C_LL_4R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_4C_LL_4R_4g_m + 2C_4C_LL_4R_4g_m\right) + s^2\left(2C_4C_4R_4R_4 + 2C_4C_4C_4R_4R_4 + 2C_4C_4R_4R_4g_m\right) + s^2\left(2C_4C_4R_4R_4 + 2C_4C_4R_4R_4 + 2C_4C_4R_4 
10.254 INVALID-ORDER-254 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_4 L_4 L_L R_4 R_L g_m s^3 + L_L R_4 R_L g_m s}{C_1 C_4 L_4 L_L R_4 R_L g_m + s^4 \left(C_1 C_4 L_4 L_L R_4 + 2 C_1 C_4 L_4 L_L R_4 R_L g_m\right) + s^3 \left(C_1 C_4 L_4 R_4 R_L + C_1 C_4 L_L R_4 R_L + C_4 L_4 R_4 R_L + C_4 
10.255 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_4C_LL_4L_LR_4g_ms^4 + C_4L_4L_LR_4g_ms^3 + L_LR_4g_ms + R_4R_Lg_m + s^2\left(C_4L_4R_4R_Lg_m + C_LL_LR_4R_Lg_m\right)}{R_4g_m + 2R_Lg_m + s^5\left(C_1C_4L_LL_4L_LR_4 + 2C_1C_4L_LL_4L_LR_4 + 2C_1C_4L_LR_4 + 2C_4C_LL_LR_4 + 2C_4C_LL_4 + 2C_4C_LL_
10.256 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_4C_LL_4L_LR_4R_Lg_ms^4 + R_4R_Lg_m + s^2\left(C_4L_4R_4R_Lg_m + C_LL_LR_4R_Lg_m\right)
                                         \frac{C_4C_LL_4L_LR_4R_Lg_ms^2 + R_4R_Lg_m + s^2\left(C_4L_4R_4R_Lg_m + C_LL_LR_4R_Lg_m\right)}{R_4g_m + 2R_Lg_m + s^5\left(C_1C_4C_LL_4L_LR_4 + 2C_1C_4L_LL_4R_4 + 2C_1C_4L_LR_4R_L + 2C_1C_4L_LR_4R_L + 2C_4C_LL_4R_4R_L 10.257 INVALID-ORDER-257 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      H(s) = \frac{R_1 R_4 R_L g_m}{R_1 R_4 q_m + 2R_1 R_L q_m + R_4 + 2R_L + s \left(C_1 R_1 R_4 + 2C_1 R_1 R_L\right)}
10.258 INVALID-ORDER-258 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)
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10.259 INVALID-ORDER-259
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L R_1 R_4 g_m s}{C_1 C_L L_L R_1 R_4 s^3 + R_1 R_4 g_m + R_4 + s^2 \left(2 C_1 L_L R_1 + C_L L_L R_1 R_4 g_m + C_L L_L R_4\right) + s \left(C_1 R_1 R_4 + 2 L_L R_1 g_m + 2 L_L\right)}$$

10.260 INVALID-ORDER-260
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_L R_1 R_4 g_m s^2 + C_L R_1 R_4 R_L g_m s + R_1 R_4 g_m}{2C_1 C_L L_L R_1 s^3 + 2R_1 g_m + s^2 \left(C_1 C_L R_1 R_4 + 2C_1 C_L R_1 R_L + 2C_L L_L R_1 g_m + 2C_L L_L\right) + s \left(2C_1 R_1 + C_L R_1 R_4 g_m + 2C_L R_1 R_L g_m + C_L R_4 + 2C_L R_L\right) + 2c_L R_1 R_2 g_m + c_L R_1 R_2 g_m + c_L R_2 g_m + c_L R_1 R_2 g_m + c_L R_2 g_m$$

10.261 INVALID-ORDER-261
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{L_L R_1 R_4 R_L g_m s}{C_1 C_L L_L R_1 R_4 R_L s^3 + R_1 R_4 R_L g_m + R_4 R_L + s^2 \left(C_1 L_L R_1 R_4 + 2 C_1 L_L R_1 R_L + C_L L_L R_1 R_4 R_L g_m + C_L L_L R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + L_L R_1 R_4 g_m + 2 L_L R_1 R_4 g_m + L_L R_4 + 2 L_L R_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + L_L R_1 R_4 g_m + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + L_L R_1 R_4 R_L + L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + 2 L_L R_1 R_4 R_L \right) + s \left($$

10.262 INVALID-ORDER-262 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_L L_L R_1 R_4 R_L g_m s^2 + L_L R_1 R_4 g_m s + R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^3 \left(C_1 C_L L_L R_1 R_4 + 2 C_1 C_L L_L R_1 R_L \right) + s^2 \left(2 C_1 L_L R_1 + C_L L_L R_1 R_4 g_m + 2 C_L L_L R_1 R_L g_m + C_L L_L R_4 + 2 C_L L_L R_1 \right) + s \left(C_1 R_1 R_4 + 2 C_1 R_1 R_L + 2 L_L R_1 g_m + 2 L_L \right)}$ **10.263** INVALID-ORDER-263 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_L L_L R_1 R_4 R_L g_m s^2 + R_1 R_4 R_L g_m}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^3 \left(C_1 C_L L_L R_1 R_4 + 2 C_1 C_L L_L R_1 R_L \right) + s^2 \left(C_1 C_L R_1 R_4 R_L + C_L L_L R_1 R_4 g_m + 2 C_L L_L R_1 R_L g_m + C_L L_L R_1 + 2 C_1 R_1 R_4 + 2 C_1 R_1 R_4 R_L g_m + C_L R_4 R_L g_m \right)}$ **10.264** INVALID-ORDER-264 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{R_1 g_m}{s^2 \left(2C_1 C_4 R_1 + C_1 C_L R_1\right) + s \left(2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L\right)}$ **10.265** INVALID-ORDER-265 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L R_1 R_L g_m s + R_1 g_m}{2C_1 C_4 C_L R_1 R_L s^3 + s^2 \left(2C_1 C_4 R_1 + C_1 C_L R_1 + 2C_4 C_L R_1 R_L g_m + 2C_4 C_L R_L\right) + s \left(2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L\right)}$ **10.266** INVALID-ORDER-266 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L L_L R_1 g_m s^2 + R_1 g_m}{2C_1 C_4 C_L L_L R_1 s^4 + s^3 \left(2C_4 C_L L_L R_1 g_m + 2C_4 C_L L_L\right) + s^2 \left(2C_1 C_4 R_1 + C_1 C_L R_1\right) + s \left(2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L\right)}$ 10.267 INVALID-ORDER-267 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{L_L R_1 g_m s}{C_1 R_1 s + R_1 g_m + s^3 \left(2 C_1 C_4 L_L R_1 + C_1 C_L L_L R_1\right) + s^2 \left(2 C_4 L_L R_1 g_m + 2 C_4 L_L + C_L L_L R_1 g_m + C_L L_L\right) + 1}$ **10.268** INVALID-ORDER-268 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_L L_L R_1 g_m s^2 + C_L R_1 R_L g_m s + R_1 g_m}{2C_1 C_4 C_L L_L R_1 s^4 + s^3 \left(2C_1 C_4 C_L R_1 R_L + 2C_4 C_L L_L R_1 g_m + 2C_4 C_L L_L\right) + s^2 \left(2C_1 C_4 R_1 + C_1 C_L R_1 + 2C_4 C_L R_1 R_L g_m + 2C_4 C_L R_L\right) + s \left(2C_4 R_1 g_m + 2C_4 + C_L R_1 g_m + C_L\right)}$ **10.269** INVALID-ORDER-269 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{L_{L}R_{1}R_{L}g_{m}s}{R_{1}R_{L}g_{m} + R_{L} + s^{3}\left(2C_{1}C_{4}L_{L}R_{1}R_{L} + C_{1}C_{L}L_{L}R_{1}R_{L}\right) + s^{2}\left(C_{1}L_{L}R_{1} + 2C_{4}L_{L}R_{1}R_{L}g_{m} + 2C_{4}L_{L}R_{1}R_{L}g_{m} + C_{L}L_{L}R_{1}\right) + s\left(C_{1}R_{1}R_{L} + L_{L}R_{1}g_{m} + L_{L}\right)}$ 10.270 INVALID-ORDER-270 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_L L_L R_1 R_L g_m s^2 + L_L R_1 g_m s + R_1 R_L g_m}{2C_1 C_4 C_L L_L R_1 R_L s^4 + R_1 g_m + s^3 \left(2C_1 C_4 L_L R_1 + C_1 C_L L_L R_1 + 2C_4 C_L L_L R_1 R_L g_m + 2C_4 C_L L_L R_1 \right) + s^2 \left(2C_1 C_4 R_1 R_L + 2C_4 L_L R_1 g_m + 2C_4 L_L + C_L L_L R_1 g_m + C_L L_L\right) + s \left(C_1 R_1 + 2C_4 R_1 R_L g_m + 2C_4 R_L\right) + 1 \left(C_1 R_1 R_L g_m + C_2 R_1 R_L g_m + C_$ 10.271 INVALID-ORDER-271 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_L L_L R_1 R_L g_m s^2 + R_1 R_L g_m}{2C_1 C_4 C_L L_L R_1 R_L s^4 + R_1 g_m + s^3 \left(C_1 C_L L_L R_1 + 2 C_4 C_L L_L R_1 R_L g_m + 2 C_4 C_L L_L R_L\right) + s^2 \left(2 C_1 C_4 R_1 R_L + C_1 C_L R_1 R_L + C_L L_L R_1 g_m + C_L L_L\right) + s \left(C_1 R_1 + 2 C_4 R_1 R_L g_m + 2 C_4 R_L + C_L R_1 R_L g_m + C_L R_L\right) + 1}$

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10.272 INVALID-ORDER-272 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                           H(s) = \frac{C_L R_1 R_4 R_L g_m s + R_1 R_4 g_m}{2C_1 C_4 C_L R_1 R_4 R_L s^3 + 2R_1 g_m + s^2 \left(2C_1 C_4 R_1 R_4 + C_1 C_L R_1 R_4 + 2C_1 C_L R_1 R_L + 2C_4 C_L R_1 R_4 R_L g_m + 2C_4 C_L R_4 R_L \right) + s \left(2C_1 R_1 + 2C_4 R_1 R_4 g_m + 2C_4 R_4 + C_L R_1 R_4 g_m + 2C_L R_1 R_4 g_
10.273 INVALID-ORDER-273 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                    H(s) = \frac{C_L L_L R_1 R_4 g_m s^2 + R_1 R_4 g_m}{2 C_1 C_4 L_L R_1 R_4 s^4 + 2 R_1 g_m + s^3 \left(2 C_1 C_L L_L R_1 + 2 C_4 C_L L_L R_1 R_4 g_m + 2 C_4 C_L L_L R_4\right) + s^2 \left(2 C_1 C_4 R_1 R_4 + C_1 C_L R_1 R_4 + 2 C_L L_L R_1 g_m + 2 C_L L_L\right) + s \left(2 C_1 R_1 + 2 C_4 R_1 R_4 g_m + 2 C_4 R_4 + C_L R_1 R_4 g_m + C_L R_4\right) + 2 C_1 R_1 R_4 g_m + 2 C_2 R_1 R_4 g_m + 2 C_
10.274 INVALID-ORDER-274 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                   H(s) = \frac{L_L R_1 R_4 g_m s}{R_1 R_4 g_m + R_4 + s^3 \left(2 C_1 C_4 L_L R_1 R_4 + C_1 C_L L_L R_1 R_4\right) + s^2 \left(2 C_1 L_L R_1 + 2 C_4 L_L R_1 R_4 g_m + 2 C_4 L_L R_1 R_4 g_m + C_L L_L R_4\right) + s \left(C_1 R_1 R_4 + 2 L_L R_1 g_m + 2 L_L\right)}
10.275 INVALID-ORDER-275 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                  \frac{C_{L}L_{L}R_{1}R_{4}g_{m}s^{2}+C_{L}R_{1}R_{4}g_{m}s+R_{1}R_{4}g_{m}}{2C_{1}C_{4}C_{L}L_{L}R_{1}R_{4}s^{4}+2R_{1}g_{m}+s^{3}\left(2C_{1}C_{4}C_{L}R_{1}R_{4}R_{L}+2C_{1}C_{L}L_{L}R_{1}+2C_{4}C_{L}L_{R}R_{4}+c_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+2C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{4}+C_{1}C_{L}R_{1}R_{1}+C_{1}C_{L}R_{1}R_{1}+C_{1}C_{L}R_{1}+C_{1}C_{L}R_{1}+C_{1}C_{L}R_{1}+C_{1}C_{L}R_{1}+C_{1}C_{L}R
10.276 INVALID-ORDER-276 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                           H(s) = \frac{L_L R_1 R_4 R_L g_m s}{R_1 R_4 R_L g_m + R_4 R_L + s^3 \left(2 C_1 C_4 L_L R_1 R_4 R_L + C_1 C_L L_L R_1 R_4 R_L \right) + s^2 \left(C_1 L_L R_1 R_4 + 2 C_1 L_L R_1 R_4 + 2 C_4 L_L R_1 R_4 R_L + C_L L_L R_1 R_4 R_L + C_L L_L R_1 R_4 R_L \right) + s \left(C_1 R_1 R_4 R_L + L_L R_1 R_4 R_L \right)}
10.277 INVALID-ORDER-277 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_L L_L R_1 R_4 R_L g_m s^2 + L_L R_1 R_4 g_m s + R_1 R_4 R_L g_m
H(s) = \frac{\frac{C_L L_L L_1 L_4 L_1 L_2 m_S}{2C_1 C_4 C_L L_L R_1 R_4 R_L s^4 + R_1 R_4 g_m + 2R_1 R_L g_m + R_4 + 2R_L + s^3 \left(2C_1 C_4 L_L R_1 R_4 + 2C_1 C_L L_L R_1 R_4 + 2C_4 C_L L_L R_1 R_4 R_L g_m + 2C_4 C_L L_L R_1 R_4 R_L + 2C_1 L_L R_1 R_4 R_L + 2C_4 L_L R_1 R_4 R_L + 
10.278 INVALID-ORDER-278 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_L R_1 R_4 R_L g_m s^2 + R_1 R_4 R_L g_m}{2 C_1 C_4 C_L L_L R_1 R_4 R_L s^4 + R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^3 \left( C_1 C_L L_L R_1 R_4 + 2 C_L L_L R_1 R_4 R_L g_m + 2 C_4 C_L L_L R_1 R_4 R_L + C_1 C_L R_1 R_4 R_L
10.279 INVALID-ORDER-279 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                           H(s) = \frac{C_4 R_1 R_4 g_m s + R_1 g_m}{C_1 C_4 C_L R_1 R_4 s^3 + s^2 \left(2 C_1 C_4 R_1 + C_1 C_L R_1 + C_4 C_L R_1 R_4 g_m + C_4 C_L R_4\right) + s \left(2 C_4 R_1 g_m + 2 C_4 + C_L R_1 g_m + C_L\right)}
10.280 INVALID-ORDER-280 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                               H(s) = \frac{C_4 R_1 R_4 R_L g_m s + R_1 R_L g_m}{C_1 C_4 C_L R_1 R_4 R_L s^3 + R_1 g_m + s^2 \left(C_1 C_4 R_1 R_4 + 2 C_1 C_4 R_1 R_L + C_1 C_L R_1 R_L + C_4 C_L R_1 R_4 R_L g_m + C_4 C_L R_4 R_L\right) + s \left(C_1 R_1 + C_4 R_1 R_4 g_m + 2 C_4 R_1 R_L g_m + C_4 R_4 + 2 C_4 R_L + C_L R_1 R_L g_m + C_L R_L\right) + 1}
10.281 INVALID-ORDER-281 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                   H(s) = \frac{C_4C_LR_1R_4R_Lg_ms^2 + R_1g_m + s\left(C_4R_1R_4g_m + C_LR_1R_Lg_m\right)}{s^3\left(C_1C_4C_LR_1R_4 + 2C_1C_4C_LR_1R_L\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1 + C_4C_LR_1R_4g_m + 2C_4C_LR_1R_Lg_m + C_4C_LR_1 + 2C_4C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_LR_1g_m + C_LR_1g_m\right)}
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10.282 INVALID-ORDER-282
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_4C_LL_LR_1R_4g_ms^3 + C_4R_1R_4g_ms + C_LL_LR_1g_ms^2 + R_1g_m}{2C_1C_4C_LL_LR_1s^4 + s^3\left(C_1C_4C_LR_1R_4 + 2C_4C_LL_LR_1g_m + 2C_4C_LL_L\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_L\right)}$$
10.283 INVALID-ORDER-283 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_1s}, \infty, \frac{L_Ls}{C_1L_1s^2+1}\right)$

10.283 INVALID-ORDER-283 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_4 L_L R_1 R_4 g_m s^2 + L_L R_1 g_m s}{C_1 C_4 C_L L_L R_1 R_4 s^4 + R_1 g_m + s^3 \left(2 C_1 C_4 L_L R_1 + C_1 C_L L_L R_1 + C_4 C_L L_L R_1 R_4 g_m + C_4 C_L L_L R_4\right) + s^2 \left(C_1 C_4 R_1 R_4 + 2 C_4 L_L R_1 g_m + 2 C_4 L_L + C_L L_L R_1 g_m + C_L L_L\right) + s \left(C_1 R_1 + C_4 R_1 R_4 g_m + C_4 R_4\right) + 1}$$

10.284 INVALID-ORDER-284 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_4C_LL_R_1R_4g_ms^3 + R_1g_m + s^2\left(C_4C_LR_1R_4R_Lg_m + C_LL_LR_1g_m\right) + s\left(C_4R_1R_4g_m + C_LR_1R_Lg_m\right)}{2C_1C_4C_LL_R_1s^4 + s^3\left(C_1C_4C_LR_1R_4 + 2C_4C_LL_R_1g_m + 2C_4C_LL_L\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1R_4g_m + 2C_4C_LR_1R_4g_m + 2C_4C_LR$$

10.285 INVALID-ORDER-285 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_4 L_L R_1 R_4 R_L g_m s^2 + L_L R_1 R_L g_m s}{C_1 C_4 C_L L_L R_1 R_4 R_L s^4 + R_1 R_L g_m + R_L + s^3 \left(C_1 C_4 L_L R_1 R_4 + 2 C_1 C_4 L_L R_1 R_L + C_4 C_L L_L R_1 R_4 R_L g_m + C_4 C_L L_L R_1 R_4 R_L + C_1 L_L R_1 R_L + C$$

10.286 INVALID-ORDER-286 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_4C_LL_R_1R_4R_Lg_ms^3 + R_1R_Lg_m + s^2\left(C_4L_LR_1R_4g_m + C_LL_LR_1R_Lg_m\right) + s\left(C_4R_1R_4R_Lg_m + L_LR_1g_m\right)}{R_1g_m + s^4\left(C_1C_4C_LL_R_1R_4 + 2C_1C_4C_LL_R_1R_L\right) + s^3\left(2C_1C_4L_LR_1 + C_4C_LL_RR_1R_4g_m + 2C_4C_LL_RR_1R_4g_m + C_4C_LL_RR_1R_4 + 2C_4C_LL_RR_1R_4 + 2C_4C_LL_RR_1R$$

10.287 INVALID-ORDER-287 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$C_4C_LL_LR_1R_4R_Lg_ms^3 + C_4R_1R_4R_Lg_ms + C_LL_LR_1R_Lg_ms^2 + R_1R_Lg_m$$

$$H(s) = \frac{C_4C_LL_R_1R_4R_Lg_ms^3 + C_4R_1R_4R_Lg_ms + C_LL_RR_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^4\left(C_1C_4C_LL_R_1R_4 + 2C_1C_4C_LL_RR_1R_L\right) + s^3\left(C_1C_4C_LR_1R_4R_L + C_1C_LL_RR_1R_4g_m + 2C_4C_LL_RR_1R_Lg_m + C_4C_LL_RR_1R_4 + 2C_4C_LL_RR_1R_L + C_4C_LR_1R_Lg_m + C_4C_LR_1R_1R_1g_m + C_4C_LR_1R_1g_m + C_4C_LR_1g_m + C_4C_LR_1R_1g_m + C_4C_LR_1g_m + C_4C_LR_1g_m + C_4C_LR_1g_m + C_4C_LR_1g_m + C_4$$

10.288 INVALID-ORDER-288 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)$

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

10.289 INVALID-ORDER-289 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\right)$

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

10.290 INVALID-ORDER-290 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_4L_4R_1R_Lg_ms^2 + R_1R_Lg_m}{C_1C_4C_LL_4R_1R_Ls^4 + R_1g_m + s^3\left(C_1C_4L_4R_1 + C_4C_LL_4R_1R_Lg_m + C_4C_LL_4R_L\right) + s^2\left(2C_1C_4R_1R_L + C_1C_LR_1R_L + C_4L_4R_1g_m + C_4L_4\right) + s\left(C_1R_1 + 2C_4R_1R_Lg_m + 2C_4R_1 + C_LR_1R_Lg_m + C_LR_L\right) + 1}$$

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10.291 INVALID-ORDER-291 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                          H(s) = \frac{C_4 C_L L_4 R_1 R_L g_m s^3 + C_4 L_4 R_1 g_m s^2 + C_L R_1 R_L g_m s + R_1 g_m}{C_1 C_4 C_L L_4 R_1 s^4 + s^3 \left(2 C_1 C_4 C_L R_1 R_L + C_4 C_L L_4 R_1 g_m + C_4 C_L L_4\right) + s^2 \left(2 C_1 C_4 R_1 + C_1 C_L R_1 + 2 C_4 C_L R_1 R_L g_m + 2 C_4 C_L R_L\right) + s \left(2 C_4 R_1 g_m + 2 C_4 + C_L R_1 g_m + C_L\right)}
10.292 INVALID-ORDER-292 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                       H(s) = \frac{C_4 C_L L_4 L_L R_1 g_m s^4 + R_1 g_m + s^2 \left( C_4 L_4 R_1 g_m + C_L L_L R_1 g_m \right)}{s^4 \left( C_1 C_4 C_L L_4 R_1 + 2 C_1 C_4 C_L L_L R_1 \right) + s^3 \left( C_4 C_L L_4 R_1 g_m + C_4 C_L L_4 + 2 C_4 C_L L_L R_1 g_m + 2 C_4 C_L L_L \right) + s^2 \left( 2 C_1 C_4 R_1 + C_1 C_L R_1 \right) + s \left( 2 C_4 R_1 g_m + 2 C_4 + C_L R_1 g_m + C_L \right)}
10.293 INVALID-ORDER-293 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                        H(s) = \frac{C_4L_4L_LR_1g_ms^3 + L_LR_1g_ms}{C_1C_4C_LL_4L_LR_1s^5 + C_1R_1s + R_1g_m + s^4\left(C_4C_LL_4L_LR_1g_m + C_4C_LL_4L_L\right) + s^3\left(C_1C_4L_4R_1 + 2C_1C_4L_LR_1\right) + s^2\left(C_4L_4R_1g_m + C_4L_4 + 2C_4L_LR_1g_m + 2C_4L_L + C_LL_LR_1g_m + C_LL_L\right) + 1}
10.294 INVALID-ORDER-294 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                H(s) = \frac{C_4C_LL_4L_Rg_ms^4 + C_4C_LL_4R_1R_Lg_ms^3 + C_LR_1R_Lg_ms + R_1g_m + s^2\left(C_4L_4R_1g_m + C_LL_LR_1g_m\right)}{s^4\left(C_1C_4C_LL_4R_1 + 2C_1C_4C_LL_Rg_m\right) + s^3\left(2C_1C_4C_LR_1R_L + C_4C_LL_4R_1g_m + C_4C_LL_4R_1g_m + 2C_4C_LL_L\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1g_m + 2C_4C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1
10.295 INVALID-ORDER-295 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_4 L_4 L_L R_1 R_L g_m s^3 + L_L R_1 R_L g_m s}{C_1 C_4 C_L L_4 L_L R_1 R_L s^5 + R_1 R_L g_m + R_L + s^4 \left(C_1 C_4 L_4 L_L R_1 + C_4 C_L L_4 L_L R_1 R_L g_m + C_4 C_L L_4 L_L R_1 R_L + C_4 C_L L_4 R_1 R_L + C_4 C_L 
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                       \frac{C_4C_LL_4L_LR_1g_ms^4 + C_4L_4L_LR_1g_ms^3 + L_LR_1g_ms + R_1R_Lg_m + s^2\left(C_4L_4R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{C_1C_4C_LL_4L_LR_1s^5 + R_1g_m + s^4\left(2C_1C_4C_LL_LR_1R_L + C_4C_LL_4L_Rg_m + C_4C_LL_LR_1 + C_4C_LL_LR_1R_Lg_m + C_4C_LL_LR
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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_4 C_L L_4 L_L R_1 R_L g_m s^4 + R_1 R_L g_m + s^2 \left(C_4 L_4 R_1 R_L g_m + C_L L_L R_1 R_L g_m + C_L L_L R_1 R_L g_m\right)}{C_1 C_4 C_L L_4 L_L R_1 s^5 + R_1 g_m + s^4 \left(C_1 C_4 C_L L_4 R_1 R_L + C_4 C_L L_4 R_1 R_L g_m + C_4 C_L 
10.298 INVALID-ORDER-298 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}, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                 H(s) = \frac{L_4 R_1 R_L g_m s}{2C_1 C_4 L_4 R_1 R_L s^3 + 2R_1 R_L g_m + 2R_L + s^2 (C_1 L_4 R_1 + 2C_4 L_4 R_1 R_L g_m + 2C_4 L_4 R_L) + s (2C_1 R_1 R_L + L_4 R_1 g_m + L_4)}
10.299 INVALID-ORDER-299 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                          H(s) = \frac{L_4 R_1 g_m s}{2C_1 R_1 s + 2R_1 g_m + s^3 \left(2C_1 C_4 L_4 R_1 + C_1 C_L L_4 R_1\right) + s^2 \left(2C_4 L_4 R_1 g_m + 2C_4 L_4 + C_L L_4 R_1 g_m + C_L L_4\right) + 2C_4 L_4 R_1 g_m + C_4 L_4 R_1
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 $H(s) = \frac{L_4 R_1 R_L g_m s}{2 R_1 R_L g_m + 2 R_L + s^3 \left(2 C_1 C_4 L_4 R_1 R_L + C_1 C_L L_4 R_1 R_L\right) + s^2 \left(C_1 L_4 R_1 + 2 C_4 L_4 R_1 R_L g_m + 2 C_4 L_4 R_1 R_L g_m + C_L L_4 R_1\right) + s \left(2 C_1 R_1 R_L + L_4 R_1 g_m + L_4\right)}$

10.300 INVALID-ORDER-300 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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10.301 INVALID-ORDER-301 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                      H(s) = \frac{C_L L_4 R_1 R_L g_m s^2 + L_4 R_1 g_m s}{2C_1 C_4 C_L L_4 R_1 R_L s^4 + 2R_1 g_m + s^3 \left(2C_1 C_4 L_4 R_1 + C_1 C_L L_4 R_1 + 2C_4 C_L L_4 R_1 R_L g_m + 2C_4 C_L L_4 R_1 R_L + 2C_4 L_4 R_1 g_m 10.302 INVALID-ORDER-302 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                    10.303 INVALID-ORDER-303 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                          H(s) = \frac{L_4 L_L R_1 g_m s}{L_4 R_1 g_m + L_4 + 2 L_L R_1 g_m + 2 L_L + s^3 \left(2 C_1 C_4 L_4 L_L R_1 + C_1 C_L L_4 L_L R_1\right) + s^2 \left(2 C_4 L_4 L_L R_1 g_m + 2 C_4 L_4 L_L + C_L L_4 L_L R_1 g_m + C_L L_4 L_L\right) + s \left(C_1 L_4 R_1 + 2 C_1 L_L R_1\right)}{s^2 \left(2 C_4 L_4 L_L R_1 g_m + 2 C_4 L_4 L_L + C_L L_4 L_L R_1 g_m + C_L L_4 L_L\right) + s \left(C_1 L_4 R_1 + 2 C_1 L_L R_1\right)}
10.304 INVALID-ORDER-304 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_4 L_L R_1 g_m s^3 + C_L L_4 R_1 R_L g_m s^2 + L_4 R_1 g_m s}{2 C_1 C_4 C_L L_4 L_L R_1 s^5 + 2 R_1 g_m + s^4 \left(2 C_1 C_4 C_L L_4 R_1 R_L + 2 C_4 C_L L_4 L_L R_1 g_m + 2 C_4 C_L L_4 R_1 + 2 C_4 C_L L_4 R_1 R_L + 2 C_4 C_L L_4 R_1 
10.305 INVALID-ORDER-305 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                     H(s) = \frac{L_4 L_L R_1 R_L g_m s}{L_4 R_1 R_L g_m + L_4 R_L + 2 L_L R_1 R_L g_m + 2 L_L R_L + s^3 \left(2 C_1 C_4 L_4 L_L R_1 R_L + C_1 C_L L_4 L_L R_1 R_L \right) + s^2 \left(C_1 L_4 L_L R_1 + 2 C_4 L_4 L_L R_1 R_L g_m + 2 C_4 L_4 L_L R_1 R_L g_m + C_L L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_1 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1 R_L + C_4 L_4 L_L R_1 R_L + C_4 L_4 L_L R_1 R_L \right) + s \left(C_1 L_4 R_1
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_L L_4 L_L R_1 R_L g_m s^3 + L_4 L_L R_1 g_m s^4 + L_4 R_1 R_L g_m s^4}{2 C_1 C_4 L_4 L_L R_1 R_L g_m + 2 C_4 L_4 L_L R_1 g_m + 2 C_4 
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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_L L_4 L_L R_1 R_L g_m s^3 + L_4 R_1 R_L g_m s
H(s) = \frac{C_L L_4 L_L R_1 R_L g_m s^5 + L_4 R_1 R_L g_m s}{2C_1 C_4 C_L L_4 L_L R_1 R_L g_m + 2R_L + s^4 \left(C_1 C_L L_4 L_L R_1 R_L g_m + 2C_4 C_L L_4 L_L R_1 R_L + C_1 C_L L_4 10.308 INVALID-ORDER-308 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)
                                                                                                                                                                                                                                                                               H(s) = \frac{C_4L_4R_1R_Lg_ms^2 + C_4R_1R_4R_Lg_ms + R_1R_Lg_m}{C_1C_4L_4R_1s^3 + R_1g_m + s^2\left(C_1C_4R_1R_4 + 2C_1C_4R_1R_L + C_4L_4R_1g_m + C_4L_4\right) + s\left(C_1R_1 + C_4R_1R_4g_m + 2C_4R_1R_Lg_m + C_4R_4 + 2C_4R_L\right) + 1}
10.309 INVALID-ORDER-309 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                            H(s) = \frac{C_4L_4R_1g_ms^2 + C_4R_1R_4g_ms + R_1g_m}{C_1C_4C_LL_4R_1s^4 + s^3\left(C_1C_4C_LR_1R_4 + C_4C_LL_4R_1g_m + C_4C_LL_4\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1 + C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + 2C_4 + C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + 2C_4 + C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + 2C_4 + C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_4R_4\right) + s\left(2C_4R_1g_m + 
10.310 INVALID-ORDER-310 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
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10.311 INVALID-ORDER-311 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                            H(s) = \frac{C_4C_LL_4R_1R_Lg_ms^3 + R_1g_m + s^2\left(C_4C_LR_1R_4R_Lg_m + C_4L_4R_1g_m\right) + s\left(C_4R_1R_4g_m + C_LR_1R_Lg_m\right)}{C_1C_4C_LL_4R_1s^4 + s^3\left(C_1C_4C_LR_1R_4 + 2C_1C_4C_LR_1R_L + C_4C_LL_4R_1g_m + C_4C_LL_4\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1 + C_4C_LR_1R_4g_m + 2C_4C_LR_1R_Lg_m + C_4C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1g_m + C_4C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1g_m + C_4C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1\right) + s\left(2C_4R_1g_m 
10.312 INVALID-ORDER-312 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                         H(s) = \frac{C_4C_LL_4L_R1g_ms^4 + C_4C_LL_LR_1R_4g_ms^3 + C_4R_1R_4g_ms + R_1g_m + s^2\left(C_4L_4R_1g_m + C_LL_LR_1g_m\right)}{s^4\left(C_1C_4C_LL_4R_1 + 2C_1C_4C_LL_R\right) + s^3\left(C_1C_4C_LR_1R_4 + C_4C_LL_4R_1g_m + C_4C_LL_4 + 2C_4C_LL_LR_1g_m + 2C_4C_LL_L\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1g_m + C_4C_LR_1\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1g_m + C_4C_LR_1\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1\right) + s^2\left(2C_1C_4R_1\right) + s^2\left(2C_1C_
10.313 INVALID-ORDER-313 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_4 L_4 L_L R_1 g_m s^3 + C_4 L_L R_1 g_m s^2 + L_L R_1 g_m s}{C_1 C_4 C_L L_4 L_L R_1 s^5 + R_1 g_m + s^4 \left(C_1 C_4 C_L L_L R_1 R_4 + C_4 C_L L_4 L_L R_1 g_m + C_4 C_L L_4 L_L R_1 + C_4 C_L L_4 R_1 + C_4 C_L L_4 R_1 R_4 + C_4 C_L 
10.314 INVALID-ORDER-314 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                     \frac{C_4C_LL_4L_R1g_ms^4 + R_1g_m + s^3\left(C_4C_LL_4R_1R_Lg_m + C_4C_LL_LR_1R_4g_m\right) + s^2\left(C_4C_LR_1R_4R_Lg_m + C_LL_LR_1g_m\right) + s\left(C_4R_1R_4g_m + C_LL_LR_1g_m\right) + s\left(C_4R_1R_4g_m + C_LL_LR_1g_m\right) + s\left(C_4R_1R_4g_m + C_LR_1R_4g_m + C_LR_1R_4g_m\right) + s\left(C_4R_1R_4g_m + C_4R_1R_4g_m\right) + s\left(C_4R_1
10.315 INVALID-ORDER-315 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.316 INVALID-ORDER-316 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_4C_LL_4L_LR_1R_Lg_ms^4 + C_4C_LL_LR_1R_4R_Lg_ms^3 + C_4R_1R_4R_Lg_ms +
10.318 INVALID-ORDER-318 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}, \infty, R_L\right)
                                                                                                                                                                 H(s) = \frac{L_4 R_1 R_4 R_L g_m s}{2 C_1 C_4 L_4 R_1 R_4 R_L s^3 + 2 R_1 R_4 R_L g_m + 2 R_4 R_L + s^2 \left( C_1 L_4 R_1 R_4 + 2 C_1 L_4 R_1 R_L + 2 C_4 L_4 R_1 R_4 R_L g_m + 2 C_4 L_4 R_4 R_L \right) + s \left( 2 C_1 R_1 R_4 R_L + L_4 R_1 R_4 g_m + 2 L_4 R_1 R_L g_m + L_4 R_4 + 2 L_4 R_L \right)}
10.319 INVALID-ORDER-319 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}, \infty, \frac{1}{C_{L_s}}\right)
                                                                                                                                                                                                        H(s) = \frac{L_4 R_1 R_4 g_m s}{2 R_1 R_4 g_m + 2 R_4 + s^3 \left(2 C_1 C_4 L_4 R_1 R_4 + C_1 C_L L_4 R_1 R_4\right) + s^2 \left(2 C_1 L_4 R_1 + 2 C_4 L_4 R_1 R_4 g_m + 2 C_4 L_4 R_1 R_4 g_m + C_L L_4 R_4\right) + s \left(2 C_1 R_1 R_4 + 2 L_4 R_1 g_m + 2 L_4\right)}{2 R_1 R_4 g_m + 2 R_4 + s^3 \left(2 C_1 C_4 L_4 R_1 R_4 + C_1 C_L L_4 R_1 R_4\right) + s \left(2 C_1 R_1 R_4 + 2 L_4 R_1 R_4\right) + s \left(2 C_1 R_1 R_4 +
10.320 INVALID-ORDER-320 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                               H(s) = \frac{L_4 R_1 R_4 R_L g_m s}{2 R_1 R_4 R_L g_m + 2 R_4 R_L + s^3 \left(2 C_1 C_4 L_4 R_1 R_4 R_L + C_1 C_L L_4 R_1 R_4 R_L \right) + s^2 \left(C_1 L_4 R_1 R_4 + 2 C_1 L_4 R_1 R_4 R_L + C_L L_4 R_1 R_4 R_L + C_L L_4 R_1 R_4 R_L \right) + s \left(2 C_1 R_1 R_4 R_L + L_4 R_1 R_4 g_m + 2 L_4 R_1 R_4 R_L + C_L L_4 R_1 R_4 R_L \right) + s \left(2 C_1 R_1 R_4 R_L + L_4 R_1 R_4 R_L \right) + s \left(2 C_1 R_1 R_4 R_L + C_1 L_4 R_1 R_4 R_L + L_4 R_
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10.321 INVALID-ORDER-321 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}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_4 R_1 R_4 R_L g_m s^2 + L_4 R_1 R_4 g_m s}{2 C_1 C_4 L_4 R_1 R_4 R_L s^4 + 2 R_1 R_4 g_m + 2 R_4 + s^3 \left(2 C_1 C_4 L_4 R_1 R_4 + C_1 C_L L_4 R_1 R_4 + 2 C_4 C_L L_4 R_1 R_4 R_L g_m + 2 C_4 L_4 R_1 R_4 R_L 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_L L_4 R_1 R_4 R_L g_m s^2 + L_4 R_1 R_4 g_m s
10.322 INVALID-ORDER-322 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                                       \frac{C_{L}L_{4}L_{L}R_{1}R_{4}g_{m}s^{3} + L_{4}R_{1}R_{4}g_{m}s}{2C_{1}C_{4}L_{L}L_{R}R_{4}s^{5} + 2R_{1}R_{4}g_{m} + 2R_{4} + s^{4}\left(2C_{1}C_{L}L_{4}L_{L}R_{1} + 2C_{4}C_{L}L_{4}L_{L}R_{1} + s^{3}\left(2C_{1}C_{4}L_{4}R_{1}R_{4} + C_{1}C_{L}L_{4}R_{1}R_{4} + 2C_{L}L_{4}L_{L}R_{1}g_{m} + 2C_{L}L_{4}L_{L}\right) + s^{2}\left(2C_{1}L_{4}R_{1} + 2C_{4}L_{4}R_{1}R_{4}g_{m} + 2C_{4}L_{4}R_{4}g_{m} + 2C_{4}L_{4}R_{1}R_{4}g_{m} + 2C_{4}L_{4}R_{1}R_{4}g_{m} + 2C_{4}L_{4}R_{1}R_{4}g_{m} + 2C_{4}L_{4}R_{1}R_{4}g_{m} + 2C_{4}L_{4}R_{1}R_{4}g_{m} + 2C_{4}L_{4}R_{1}R_{4}g_{m} + 2C_{4}L_
10.323 INVALID-ORDER-323 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                    H(s) = \frac{L_4 L_L R_1 R_4 g_m s}{L_4 R_1 R_4 g_m + L_4 R_4 + 2 L_L R_1 R_4 g_m + 2 L_L R_4 + s^3 \left(2 C_1 C_4 L_4 L_L R_1 R_4 + C_1 C_L L_4 L_L R_1 R_4 g_m + 2 C_4 L_4 L_4 R_4 g_m + 
10.324 INVALID-ORDER-324 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_L L_4 L_L R_1 R_4 g_m s^3 + C_L L_4 R_1 R_4 R_L g_n
                                    \frac{C_L L_4 L_L R_1 R_4 s^5 + 2R_1 R_4 g_m + 2R_4 + s^4 \left(2C_1 C_4 C_L L_4 R_1 R_4 R_L + 2C_1 C_L L_4 L_L R_1 R_4 g_m + 2C_4 C_L L_4 L_L R_1 R_4 g_m + 2C_4 C_L L_4 L_L R_1 R_4 g_m + 2C_4 C_L L_4 R_1 R_4 + C_1 C_L L_4 R_1 R_4 + 2C_1 C_L L_4 R_1 R_4 + 2C_4 C_L L_4 R_1 R_4 + 2C
10.325 INVALID-ORDER-325 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{L_4 L_L R_1 R_4 R_L g_m s}{L_4 R_1 R_4 R_L g_m + L_4 R_4 R_L + 2 L_L R_1 R_4 R_L g_m + 2 L_L R_4 R_L + s^3 \left(2 C_1 C_4 L_4 L_L R_1 R_4 R_L + C_1 C_L L_4 L_L R_1 R_4 + 2 C_1 L_4 L_L R_1 R_4 R_L + 2 C_4 L_4 L_L R_1 R_4 R_L + C_4 L_4 L_L R_1 R_4 R_L + C_4 L_4 L_L R_1 R_4 R_L + 2 C_4 L_4 L_L R_1 R_4 R_L + C_4 L_4 L_L R_1 R_4 R_L + C_4 L_4 L_L R_1 R_4 R_L + 2 C_4 L_4 L_L R_1 R_4 R_L + C_4 L_4 L_L R_1 R_4 R_L + 2 C_4 L_4 L_L R_1 R_4 R_L + C_4 L_4 L_L R_1 R_4 R_L + 2 C_
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_4 L_4 s^2 + 1}\right)
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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_4 L_L R_1 R_4 R_L s^5 + 2 R_1 R_4 R_L g_m + 2 R_4 R_L + s^4 \left(C_1 C_L L_4 L_L R_1 R_4 + 2 C_1 C_L L_4 L_L R_1 R_4 R_L g_m + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + s^4 \left(C_1 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4 L_L R_1 R_4 R_L + 2 C_4 C_L L_4
10.328 INVALID-ORDER-328 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}, \infty, R_L\right)
                                                                                                                                                H(s) = \frac{C_4L_4R_1R_4R_Lg_ms^2 + L_4R_1R_Lg_ms + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(C_1C_4L_4R_1R_4 + 2C_1C_4L_4R_1R_L\right) + s^2\left(C_1L_4R_1 + C_4L_4R_1R_4g_m + 2C_4L_4R_1R_Lg_m + C_4L_4R_4 + 2C_4L_4R_L\right) + s\left(C_1R_1R_4 + 2C_1R_1R_L + L_4R_1g_m + L_4\right)}
10.329 INVALID-ORDER-329 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                      H(s) = \frac{C_4L_4R_1R_4g_ms^2 + L_4R_1g_ms + R_1R_4g_m}{C_1C_4C_LL_4R_1R_4s^4 + 2R_1g_m + s^3\left(2C_1C_4L_4R_1 + C_4C_LL_4R_1 + C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_1\right) + s^2\left(C_1C_LR_1R_4 + 2C_4L_4R_1g_m + 2C_4L_4 + C_LL_4R_1g_m + C_LL_4\right) + s\left(2C_1R_1 + C_LR_1R_4g_m + C_LR_4\right) + 2C_4R_4R_4R_4g_m + C_4R_4R_4g_m 10.330 INVALID-ORDER-330 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C_4L_4R_1R_4R_Lg_ms^2 + L_4R_1R_Lg_ms + R_1R_4R_Lg_m
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 $\frac{C_{4}L_{4}R_{1}R_{4}L_{2}g_{m}s + L_{4}R_{1}R_{4}g_{m}s + L_{4}R_{1}R_{4}L_{2}g_{m}}{C_{1}C_{4}C_{L}L_{4}R_{1}R_{4}E_{L}s^{4} + R_{1}R_{4}g_{m} + 2R_{1}R_{L}g_{m} + R_{4} + 2R_{L} + s^{3}\left(C_{1}C_{4}L_{4}R_{1}R_{L} + C_{1}C_{L}L_{4}R_{1}R_{L} + C_{4}C_{L}L_{4}R_{1}R_{L} + C_{4}C_{L}L_{4}R_{1}R_{L} + C_{4}L_{4}R_{1}R_{L} + C_{4}L_{4}R_{1}R$

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10.331 INVALID-ORDER-331 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}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_4C_LL_4R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_LL_4R_1R_Lg_m\right) + s\left(C_LR_1R_4R_Lg_m + L_4R_1g_m\right)}{2R_1g_m + s^4\left(C_1C_4C_LL_4R_1R_4 + 2C_1C_4C_LL_4R_1R_L\right) + s^3\left(2C_1C_4L_4R_1 + C_4C_LL_4R_1R_4g_m + 2C_4C_LL_4R_1R_Lg_m + C_4C_LL_4R_1R_Lg_m + C_4C_LL
10.332 INVALID-ORDER-332 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}, \infty, L_L s + \frac{1}{C_L s}\right)
                              \frac{C_{4}C_{L}L_{4}L_{L}R_{1}g_{m}s^{4}+C_{L}L_{4}L_{L}R_{1}g_{m}s^{3}+L_{4}R_{1}g_{m}s+R_{1}R_{4}g_{m}+s^{2}\left(C_{4}L_{4}R_{1}R_{4}g_{m}+C_{L}L_{L}R_{1}R_{4}g_{m}\right)}{2C_{1}C_{4}C_{L}L_{4}L_{L}R_{1}s^{5}+2R_{1}g_{m}+s^{4}\left(C_{1}C_{4}L_{L}L_{4}R_{1}g_{m}+2C_{4}L_{L}L_{4}R_{1}g_{m}+2C_{4}L_{L}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{L}R_{1}g_{m}+2C_{4}L_{4}L_{L}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}R_
10.333 INVALID-ORDER-333 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_4L_4L_LR_1R_4g_ms^3 + L_4L_LR_1g_ms^2 + L_LR_1R_4g_ms}{C_1C_4C_LL_4L_LR_1R_4s^5 + R_1R_4g_m + R_4 + s^4\left(2C_1C_4L_4L_LR_1 + C_4C_LL_4L_LR_1 + C_4C_LL_4L_LR_4\right) + s^3\left(C_1C_4L_4R_1R_4 + C_4C_LL_4L_LR_1g_m + C_4L_4L_LR_1g_m + C_4L_4L_4R_1g_m + C_4L_4R_1g_m + 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_4L_4L_LR_1R_4g_ms^3 + L_4L_LR_1g_ms^2 + L_LR_1R_4g_ms
10.334 INVALID-ORDER-334 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_4C_LL_4L_LR_1R_4g_ms^4 + R_1R_4g_m + s^3\left(C_4C_LL_4R_1R_4g_m + C_LL_4L_LR_1g_m\right) + s^2\left(C_4L_4R_1R_4g_m + C_LL_4R_1R_4g_m + C_LL_4R_1R_4g_m\right) + s\left(C_LL_4R_1R_4g_m + C_LL_4R_1R_4g_m\right) + s\left(C_LL_4
10.335 INVALID-ORDER-335 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}, \infty, \frac{L_L R_L s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_4L_4L_LR_1R_4R_4
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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{1}{R_{1}R_{4}g_{m} + 2R_{1}R_{L}g_{m} + R_{4} + 2R_{L} + s^{5}\left(C_{1}C_{4}C_{L}L_{4}L_{L}R_{1}R_{4} + 2C_{1}C_{4}C_{L}L_{4}L_{L}R_{1}R_{4} + 2C_{1}C_{4}L_{4}L_{L}R_{1}R_{4} + 2C_{1}C_{4}L_{4}L_{L}R_{1}R_{4}R_{4} + 2C_{4}C_{L}L_{4}L_{L}R_{1}R_{4} + 2C_{4}C_{L}L_{4}L_{4}R_{1}R_{4} + 2C_{4}C_{L}L_{4}L_{
10.338 INVALID-ORDER-338 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 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}, \infty, R_L\right)
                                                                            10.339 INVALID-ORDER-339 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}, \infty, \frac{1}{C_L s}\right)
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 $H(s) = \frac{C_4L_4R_1R_4g_ms^2 + R_1R_4g_m}{C_1C_4C_LL_4R_1R_4s^4 + 2R_1g_m + s^3\left(2C_1C_4L_4R_1 + C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_4\right) + s^2\left(2C_1C_4R_1R_4 + C_1C_LR_1R_4 + 2C_4L_4R_1g_m + 2C_4L_4\right) + s\left(2C_1R_1 + 2C_4R_1R_4g_m + 2C_4R_4 + C_LR_1R_4g_m + C_LR_4\right) + 2C_4R_4R_4g_m + C_4R_4R_4g_m + C_4R_4R_4g$

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10.340 INVALID-ORDER-340 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
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 $H(s) = \frac{C_4L_4R_1R_4R_Lg_ms^2 + R_1R_4R_Lg_m}{C_1C_4C_LL_4R_1R_4R_Ls^4 + R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(C_1C_4L_4R_1R_4 + 2C_1C_4L_4R_1R_4R_Lg_m + C_4C_LL_4R_1R_4R_L + C_4C_LL_4R_1R_1 + C_4C_LL_4R_1R_1R_1 + C_4C_LL_4R_1R_1 + C_4C_LL_4R_1R_1 + C_4$

10.341 INVALID-ORDER-341 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_4C_LL_4R_1R_4R_Lg_ms^3 + C_4L_4R_1R_4g_ms^2 + C_LR_1R_4R_Lg_ms + R_1R_4g_m}{2R_1g_m + s^4\left(C_1C_4C_LL_4R_1R_4 + 2C_1C_4L_4R_1R_L\right) + s^3\left(2C_1C_4C_LR_1R_4R_L + 2C_1C_4L_4R_1R_4g_m + 2C_4C_LL_4R_1R_4g_m + 2C_4C_LL_4R_1R_4 + 2C_4C_LL_4R_1R_4 + 2C_4C_LL_4R_1R_4 + 2C_4C_LL_4R_1R_4 + 2C_4C_LL_4R_1R_4 + 2C_4C_LL_4R_1R_4 + 2C_4C_LR_1R_4 + 2C_$

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

 $H(s) = \frac{C_4C_LL_4L_LR_1R_4g_ms^4 + R_1R_4g_m + s^2\left(C_4L_4R_1R_4g_m + C_LL_LR_1R_4g_m\right)}{2C_1C_4C_LL_4L_LR_1s^5 + 2R_1g_m + s^4\left(C_1C_4C_LL_4R_1R_4 + 2C_4C_LL_4R_1R_4 + 2C_4C_LL_4R_1\right) + s^3\left(2C_1C_4L_4R_1 + 2C_4C_LL_4R_1 + 2C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_1R_4g_m + 2C_4C_LL_4R_1\right) + s^3\left(2C_1C_4L_4R_1 + 2C_4C_LL_4R_1 + 2C_4C_LL_4R_1 + 2C_4C_LL_4R_1\right) + s^3\left(2C_1C_4L_4R_1 + 2C_4C_LL_4R_1 + 2C_4C_LL_4R_1 + 2C_4C_LL_4R_1\right) + s^3\left(2C_1C_4L_4R_1 + 2C_4C_LL_4R_1 + 2C_4C_LL_4R_1\right) + s^3\left(2C_1C_4L_4R_1 + 2C_4C_LL_4R_1\right) + s^3\left(2C_1C_4L_4R_1 + 2C_4C_LL_4R_1\right) + s^3\left(2C_1C_4L_4R_1\right) + s^3\left(2C_1C_4R_1\right) + s^3\left(2C_1C_4L_4R_1\right) + s^3\left(2C_1C_4R_1\right)

10.343 INVALID-ORDER-343 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.344 INVALID-ORDER-344 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_4C_LC_4L_LR_1R_4g_ms + C_4C_LL_4R_1R_4g_ms + C_4C_LL_4R_1R_4g_m + C_4C_LL_4R_1$

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

10.346 INVALID-ORDER-346 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

10.347 INVALID-ORDER-347 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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

10.348 INVALID-ORDER-348 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L\right)$

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

10.349 INVALID-ORDER-349
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_LR_1R_4g_ms^3 + C_1R_1R_4g_ms + C_LL_LR_4g_ms^2 + R_4g_m}{2g_m + s^3\left(2C_1C_LL_LR_1g_m + 2C_1C_LL_L\right) + s^2\left(C_1C_LR_1R_4g_m + C_1C_LR_4 + 2C_LL_Lg_m\right) + s\left(2C_1R_1g_m + 2C_1 + C_LR_4g_m\right)}$$

10.350 INVALID-ORDER-350
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1 L_L R_1 R_4 g_m s^2 + L_L R_4 g_m s}{R_4 g_m + s^3 \left(C_1 C_L L_L R_1 R_4 g_m + C_1 C_L L_L R_4 \right) + s^2 \left(2 C_1 L_L R_1 g_m + 2 C_1 L_L + C_L L_L R_4 g_m \right) + s \left(C_1 R_1 R_4 g_m + C_1 R_4 + 2 L_L g_m \right)}$$

10.351 INVALID-ORDER-351
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_LR_1R_4g_ms^3 + R_4g_m + s^2\left(C_1C_LR_1R_4R_Lg_m + C_LL_LR_4g_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right)}{2g_m + s^3\left(2C_1C_LL_LR_1g_m + 2C_1C_LL_L\right) + s^2\left(C_1C_LR_1R_4g_m + 2C_1C_LR_1R_Lg_m + C_1C_LR_4 + 2C_1C_LR_L + 2C_LL_Lg_m\right) + s\left(2C_1R_1g_m + 2C_1 + C_LR_4g_m + 2C_LR_Lg_m\right)}$$

10.352 INVALID-ORDER-352
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_1 L_L R_1 R_4 R_L g_m s^2 + L_L R_4 R_L g_m s}{R_4 R_L g_m + s^3 \left(C_1 C_L L_L R_1 R_4 R_L g_m + C_1 C_L L_L R_4 R_L \right) + s^2 \left(C_1 L_L R_1 R_4 g_m + 2 C_1 L_L R_1 R_L g_m + C_1 L_L R_4 + 2 C_1 L_L R_4 R_L g_m \right) + s \left(C_1 R_1 R_4 R_L g_m + C_1 R_4 R_L + L_L R_4 g_m + 2 L_L R_L g_m \right)}$$

10.353 INVALID-ORDER-353
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1C_LL_RR_1R_4R_Lg_ms^3 + R_4R_Lg_m + s^2\left(C_1L_LR_1R_4g_m + C_LL_LR_4R_Lg_m\right) + s\left(C_1R_1R_4R_Lg_m + L_LR_4g_m\right)}{R_4g_m + 2R_Lg_m + s^3\left(C_1C_LL_RR_1R_4g_m + 2C_1C_LL_RR_1R_Lg_m + C_1C_LL_RR_1\right) + s^2\left(2C_1L_LR_1g_m + 2C_1L_LR_4g_m + 2C_LL_RR_2g_m\right) + s\left(C_1R_1R_4g_m + 2C_1R_1R_4g_m + 2C_1R_1R_4g_m + 2C_1R_1R_4g_m\right)}$$

10.354 INVALID-ORDER-354
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_LL_RR_1R_4R_Lg_ms^3 + C_1R_1R_4R_Lg_ms + C_LL_LR_4R_Lg_ms^2 + R_4R_Lg_m}{R_4g_m + 2R_Lg_m + s^3\left(C_1C_LL_RR_1R_4g_m + 2C_1C_LL_RR_1R_Lg_m + C_1C_LL_RR_4\right) + s^2\left(C_1C_LR_1R_4R_Lg_m + C_1C_LR_4R_L + C_LL_RR_4g_m + 2C_LL_RR_4g_m + 2C_LR_1R_4g_m + 2C_1R_1R_4g_m + 2C_1R_1R_$$

10.355 INVALID-ORDER-355 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\right)$

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

10.356 INVALID-ORDER-356 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.357 INVALID-ORDER-357 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 C_L L_L R_1 g_m s^3 + C_1 R_1 g_m s + C_L L_L g_m s^2 + g_m}{2 C_4 C_L L_L g_m s^3 + s^4 \left(2 C_1 C_4 C_L L_L R_1 g_m + 2 C_1 C_4 C_L L_L\right) + s^2 \left(2 C_1 C_4 R_1 g_m + 2 C_1 C_4 + C_1 C_L R_1 g_m + C_1 C_L\right) + s \left(2 C_4 g_m + C_L g_m\right)}$$

10.358 INVALID-ORDER-358 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.359 INVALID-ORDER-359
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_LR_1g_ms^3 + g_m + s^2\left(C_1C_LR_1R_Lg_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_LR_Lg_m\right)}{s^4\left(2C_1C_4C_LL_LR_1g_m + 2C_1C_4C_LL_L\right) + s^3\left(2C_1C_4R_1R_Lg_m + 2C_1C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$$

10.360 INVALID-ORDER-360 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.361 INVALID-ORDER-361 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

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

10.362 INVALID-ORDER-362 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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

10.363 INVALID-ORDER-363 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LR_1R_4R_Lg_ms^2 + R_4g_m + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right)}{2g_m + s^3\left(2C_1C_4C_LR_1R_4g_m + 2C_1C_4C_LR_4R_L\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + C_1C_LR_1R_4g_m + C_1C_LR_4 + 2C_1C_LR_4 + 2C_4C_LR_4R_Lg_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_4R_4g_m + C_LR_4g_m + 2C_4R_4g_m + 2C_4R_4g_$$

10.364 INVALID-ORDER-364 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_RR_4g_ms^3 + C_1R_1R_4g_ms + C_LL_RR_4g_ms^2 + R_4g_m}{2g_m + s^4\left(2C_1C_4C_LL_RR_4g_m + 2C_1C_4C_LL_RR_4\right) + s^3\left(2C_1C_LL_RR_4g_m + 2C_1C_LL_RR_4g_m\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + C_1C_LR_4g_m\right) + s\left(2C_1R_1g_m + 2C_1+2C_4R_4g_m\right) + s\left(2C_1R_1g_m + 2C_1+2C_1R_1g_m\right) + s\left(2C_1R_1g_m + 2C_1+2C_1R_1g_m\right) + s\left(2C_1R_1g_m + 2C_1+2C_1R_1g_m\right) + s\left(2C_1R_1g_m + 2C$$

10.365 INVALID-ORDER-365 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1L_LR_1R_4g_ms^2 + L_LR_4g_ms}{R_4g_m + s^3\left(2C_1C_4L_LR_1R_4g_m + 2C_1C_4L_LR_4 + C_1C_LL_LR_1R_4g_m + C_1C_LL_LR_4\right) + s^2\left(2C_1L_LR_1g_m + 2C_1L_L + 2C_4L_LR_4g_m + C_LL_LR_4g_m\right) + s\left(C_1R_1R_4g_m + C_1R_4 + 2L_Lg_m\right)}{R_4g_m + s^3\left(2C_1C_4L_LR_1R_4g_m + 2C_1C_4L_LR_4 + C_1C_4L_LR_4g_m + C_1C_4L_LR_4\right) + s^2\left(2C_1L_LR_1g_m + 2C_1L_L + 2C_4L_LR_4g_m + C_4L_LR_4g_m\right) + s\left(C_1R_1R_4g_m + C_1R_4 + 2L_Lg_m\right)}$$

10.366 INVALID-ORDER-366 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_R_1R_4g_ms^3 + R_4g_m + s^2\left(C_1C_LR_1R_4R_Lg_m + C_LL_LR_4g_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right)}{2g_m + s^4\left(2C_1C_4C_LL_R_1R_4g_m + 2C_1C_4C_LL_R_4g_m + 2C_1C_LL_R_4g_m\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_LR_1R_4g_m + 2$$

10.367 INVALID-ORDER-367 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_1 L_L R_1 R_4 R_L g_m s^2 + L_L R_4 R_L g_m s}{R_4 R_L g_m + s^3 \left(2 C_1 C_4 L_L R_1 R_4 R_L g_m + 2 C_1 C_4 L_L R_4 R_L + C_1 C_L L_L R_1 R_4 R_L g_m + C_1 L_L R_4 R_L + 2 C_1 L_L R_4 R_L g_m + C_1 L_L R_4$$

10.368 INVALID-ORDER-368 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $C_1C_LL_LR_1R_4R_Lg_ms^3 + R_4R_Lg_m + s^2\left(C_1L_LR_1R_4g_m + C_LL_LR_4R_Lg_m\right) + s\left(C_1R_1R_4R_Lg_m + L_LR_4g_m\right)$ $H(s) = \frac{C_1C_LL_R_1R_4R_Lg_ms^3 + R_4R_Lg_m + s^2\left(C_1L_LR_1R_4g_m + C_LL_LR_4R_Lg_m\right) + s\left(C_1R_1R_4R_Lg_m + L_LR_4g_m\right)}{R_4g_m + 2R_Lg_m + s^4\left(2C_1C_4L_LR_1R_4g_m + 2C_1C_4L_LR_1R_4g_m + 2C_1C_4L_LR_4R_Lg_m\right) + s^2\left(2C_1C_4R_1R_4R_Lg_m + 2C_1C_4R_4R_Lg_m\right) + s^2\left(2C_1C_4R_4R_Lg_m + 2C_1C_4R_4R_Lg_m\right) + s^2\left(2C_1C_4R_4R_Lg_m + 2C_1C_4R_4R_Lg_m\right) + s^2\left(2C_1C_4R_4R_4R_Lg_m + 2C_1C_4R_4R_Lg_m\right) + s^2\left(2C$ 10.369 INVALID-ORDER-369 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $C_1C_LL_LR_1R_4R_Lg_ms^3 + C_1R_1R_4R_Lg_ms + C_LL_LR_4R_Lg_ms^2 + R_4R_Lg_m$ $H(s) = \frac{C_1C_LL_R_1R_4R_Lg_ms^3 + C_1R_1R_4R_Lg_ms + C_LL_LR_4R_Lg_ms^2 + R_4R_Lg_m}{R_4g_m + 2R_Lg_m + s^4\left(2C_1C_4C_LL_R_1R_4R_Lg_m + 2C_1C_4L_LR_4R_Lg_m + C_1C_LL_RR_4R_Lg_m + C_1C_LL_RR_4R_Lg_m + C_1C_LL_RR_4R_Lg_m + C_1C_LL_RR_4R_Lg_m + C_1C_LL_RR_4R_Lg_m + C_1C_LR_4R_Lg_m 10.370 INVALID-ORDER-370 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4R_1R_4g_ms^2 + g_m + s\left(C_1R_1g_m + C_4R_4g_m\right)}{s^3\left(C_1C_4C_LR_1R_4g_m + C_1C_4C_LR_4\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L + C_4C_LR_4g_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.371 INVALID-ORDER-371 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ 10.372 INVALID-ORDER-372 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4C_LR_1R_4R_Lg_ms^3 + g_m + s^2\left(C_1C_4R_1R_4g_m + C_1C_LR_1R_Lg_m + C_4C_LR_4R_Lg_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_LR_Lg_m\right)}{s^3\left(C_1C_4C_LR_1R_4g_m + 2C_1C_4C_LR_1R_Lg_m + C_1C_4C_LR_4 + 2C_1C_4C_LR_L\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L + C_4C_LR_4g_m + 2C_4C_LR_4g_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.373 INVALID-ORDER-373 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4C_LL_LR_1R_4g_ms^4 + g_m + s^3\left(C_1C_LL_LR_1g_m + C_4C_LL_LR_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_4R_4g_m\right)}{s^4\left(2C_1C_4C_LL_LR_1g_m + 2C_1C_4C_LL_L\right) + s^3\left(C_1C_4C_LR_1R_4g_m + C_1C_4C_LR_4 + 2C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L + C_4C_LR_4g_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.374 INVALID-ORDER-374 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_1C_4L_LR_1R_4g_ms^3 + L_Lg_ms + s^2\left(C_1L_LR_1g_m + C_4L_LR_4g_m\right)}{g_m + s^4\left(C_1C_4C_LL_LR_1R_4g_m + C_1C_4L_LR_1g_m + 2C_1C_4L_L + C_1C_LL_LR_1g_m + C_1C_LL_LR_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_4R_4 + 2C_4L_Lg_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1C_4L_LR_4g_m\right) + s\left(C_1R_1g_m + C_1C_4L_LR_4g_m + C_1C_4R_4g_m\right) + s\left(C_1R_1g_m + C_1$ 10.375 INVALID-ORDER-375 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4C_LL_LR_1R_4g_ms^4 + g_m + s^3\left(C_1C_4C_LR_1R_4R_Lg_m + C_1C_LL_LR_1g_m + C_4C_LL_LR_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_LR_1R_Lg_m + C_4C_LR_4R_Lg_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_LR_4g_m + C_LR_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_LR_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m\right) + s\left(C_1$ 10.376 INVALID-ORDER-376 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.377 INVALID-ORDER-377 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_4C_LL_RR_1R_4R_Lg_m + s^3\left(C_1C_4L_LR_1R_4g_m + C_1C_LL_RR_1R_Lg_m + C_4C_LL_RR_4g_m + C_1L_LR_1g_m + C_4L_LR_4g_m + C_LL_RR_2g_m + s^2\left(C_1C_4R_1R_4R_Lg_m + C_4L_LR_4g_m

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

 $H(s) = \frac{C_1C_4C_LL_RR_4R_Lg_m + s^3\left(C_1C_LL_RR_4R_Lg_m + c_4C_LL_RR_4R_Lg_m + c_4C_LL_RR_4g_m + c_4C_LL_RR_4g_m + s^2\left(C_1C_4R_1R_4R_Lg_m + c_4C_LL_RR_4g_m + c_4C_LL_RR_4$

10.379 INVALID-ORDER-379 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)$

$$H(s) = \frac{C_1C_4L_4R_1R_Lg_ms^3 + C_1R_1R_Lg_ms + C_4L_4R_Lg_ms^2 + R_Lg_m}{g_m + s^3\left(C_1C_4L_4R_1g_m + C_1C_4L_4\right) + s^2\left(2C_1C_4R_1R_Lg_m + 2C_1C_4R_L + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_1 + 2C_4R_Lg_m\right)}$$

10.380 INVALID-ORDER-380 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_4L_4R_1g_ms^3 + C_1R_1g_ms + C_4L_4g_ms^2 + g_m}{C_4C_LL_4g_ms^3 + s^4\left(C_1C_4C_LL_4R_1g_m + C_1C_4C_LL_4\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L\right) + s\left(2C_4g_m + C_Lg_m\right)}$$

10.381 INVALID-ORDER-381 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_1C_4L_4R_1R_Lg_ms^3 + C_1R_1R_Lg_ms + C_4L_4R_Lg_ms^2 + R_Lg_m}{g_m + s^4\left(C_1C_4C_LL_4R_1R_Lg_m + C_1C_4L_4R_L\right) + s^3\left(C_1C_4L_4R_1g_m + C_1C_4L_4R_Lg_m\right) + s^2\left(2C_1C_4R_1R_Lg_m + 2C_1C_4R_L + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_1C_4R_Lg_m\right) +$$

10.382 INVALID-ORDER-382 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.383 INVALID-ORDER-383 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_4C_LL_4L_R1g_ms^5 + C_1R_1g_ms + C_4C_LL_4L_Lg_ms^4 + g_m + s^3\left(C_1C_4L_4R_1g_m + C_1C_LL_R1g_m\right) + s^2\left(C_4L_4g_m + C_LL_Lg_m\right)}{s^4\left(C_1C_4C_LL_4R_1g_m + C_1C_4C_LL_4 + 2C_1C_4C_LL_R1g_m + 2C_1C_4C_LL_L\right) + s^3\left(C_4C_LL_4g_m + 2C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L\right) + s\left(2C_4g_m + C_Lg_m\right)}$$

10.384 INVALID-ORDER-384 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1C_4L_4L_LR_1g_ms^4 + C_1L_LR_1g_ms^2 + C_4L_4L_Lg_ms^3 + L_Lg_ms}{C_4C_LL_4L_Lg_ms^4 + g_m + s^5\left(C_1C_4C_LL_4L_LR_1g_m + C_1C_4L_L\right) + s^3\left(C_1C_4L_4R_1g_m + C_1C_4L_4 + 2C_1C_4L_LR_1g_m + 2C_1C_4L_L + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_4L_4g_m + 2C_4L_Lg_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1C_4L_L\right) + s^2\left(C_4L_4g_m + C_4L_Lg_m\right) + s\left(C_4R_1g_m + C_4R_1g_m + C_4R_1g_m\right) + s\left(C_4R_1g_m right) + s\left(C_4R_1g_$$

10.385 INVALID-ORDER-385 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_4C_LL_4L_R_1g_ms^5 + g_m + s^4\left(C_1C_4C_LL_4R_1R_Lg_m + C_4C_LL_4L_g_m\right) + s^3\left(C_1C_4L_4R_1g_m + C_4C_LL_4R_1g_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1C_LR_1R_Lg_m + C_4L_4g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_LL_Lg_m\right) + s\left(C_1C_LR_1g_m + C_LR_1g_m\right) + s\left(C_1C_LR_1g_m + C_1C_LR_1g_m\right) + s\left(C_$$

10.386 INVALID-ORDER-386 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 10.387 INVALID-ORDER-387 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_R L_s^2 + L_L s + R_L}{C_L L_s^2 + 1}\right)$ $H(s) = \frac{C_1C_4C_LL_4L_LR_1g_ms^5 + R_Lg_m + s^4\left(C_1C_4L_4L_LR_1g_m + C_4C_LL_4L_Rg_m\right) + s^3\left(C_1C_4L_4R_1R_Lg_m + C_4L_4L_Lg_m\right) + s^2\left(C_1L_LR_1g_m + C_4L_4R_Lg_m + C_4L_4R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_4R_Lg_m\right) 10.388 INVALID-ORDER-388 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ 10.389 INVALID-ORDER-389 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$ $H(s) = \frac{C_1L_4R_1R_Lg_ms^2 + L_4R_Lg_ms}{2R_Lg_m + s^3\left(2C_1C_4L_4R_1R_Lg_m + 2C_1C_4L_4R_L\right) + s^2\left(C_1L_4R_1g_m + C_1L_4 + 2C_4L_4R_Lg_m\right) + s\left(2C_1R_1R_Lg_m + 2C_1R_L + L_4g_m\right)}$ 10.390 INVALID-ORDER-390 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1 L_4 R_1 g_m s^2 + L_4 g_m s}{2q_m + s^3 \left(2C_1 C_4 L_4 R_1 q_m + 2C_1 C_4 L_4 + C_1 C_L L_4 R_1 q_m + C_1 C_L L_4\right) + s^2 \left(2C_4 L_4 q_m + C_L L_4 q_m\right) + s \left(2C_1 R_1 q_m + 2C_1 C_1 L_4 R_1 q_m + C_1 C_2 L_4\right)}$ 10.391 INVALID-ORDER-391 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1L_4R_1R_Lg_ms^2 + L_4R_Lg_ms}{2R_Lg_m + s^3\left(2C_1C_4L_4R_1R_Lg_m + 2C_1C_4L_4R_L + C_1C_LL_4R_1R_Lg_m + C_1C_LL_4R_L\right) + s^2\left(C_1L_4R_1g_m + C_1L_4 + 2C_4L_4R_Lg_m + C_LL_4R_Lg_m\right) + s\left(2C_1R_1R_Lg_m + 2C_1R_L + L_4g_m\right)}$ 10.392 INVALID-ORDER-392 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_4R_1R_Lg_ms^3 + L_4g_ms + s^2\left(C_1L_4R_1g_m + C_LL_4R_Lg_m\right)}{2g_m + s^4\left(2C_1C_4L_4R_1R_Lg_m + 2C_1C_4L_4R_Lg_m + 2C_1C_4L_4R_1g_m + 2C_1C_4L_4R_1g_m + 2C_1C_4L_4R_1g_m + 2C_1C_4L_4R_1g_m + 2C_1C_4L_4R_1g_m + 2C_1C_4L_4R_1g_m + 2C_1C_4R_1g_m + 2C_1C_$ **10.393** INVALID-ORDER-393 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_4L_LR_1g_ms^4 + C_1L_4R_1g_ms^2 + C_LL_4L_Lg_ms^3 + L_4g_ms}{2C_4C_LL_4L_Lg_ms^4 + 2g_m + s^5\left(2C_1C_4C_LL_4L_Rg_m + 2C_1C_4L_4L_L\right) + s^3\left(2C_1C_4L_4R_1g_m + 2C_1C_4L_4 + C_1C_LL_4R_1g_m + C_1C_LL_4R_1g_m + 2C_1C_LL_L\right) + s^2\left(2C_4L_4g_m + C_LL_4g_m + 2C_LL_4g_m\right) + s\left(2C_1R_1g_m + 2C_1C_LL_4R_1g_m + 2C_1C_LL_4R_1g_m + 2C_1C_LL_4R_1g_m + 2C_1C_LL_4R_1g_m\right) + s\left(2C_1R_1g_m + 2C_1C_2L_4R_1g_m + 2C_1C_2L_4R_1g_m + 2C_1C_2L_4R_1g_m + 2C_1C_2L_4R_1g_m\right) + s\left(2C_1R_1g_m + 2C_1C_2R_1g_m + 2C_1C_2R_1g_m\right) + s\left(2C_1R_1g_m + 2C_1C_2R_1g_m + 2C_1C_2R_1g_m\right) + s\left(2C_1R_1g_m$ 10.394 INVALID-ORDER-394 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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 $H(s) = \frac{C_1L_4L_LR_1g_ms^2 + L_4L_Lg_ms}{L_4g_m + 2L_Lg_m + s^3\left(2C_1C_4L_4L_LR_1g_m + 2C_1C_4L_4L_L + C_1C_LL_4L_LR_1g_m + C_1C_LL_4L_L\right) + s^2\left(2C_4L_4L_Lg_m + C_LL_4L_Lg_m\right) + s\left(C_1L_4R_1g_m + C_1L_4 + 2C_1L_LR_1g_m + 2C_1L_L\right)}{L_4g_m + 2L_Lg_m + s^3\left(2C_1C_4L_4L_LR_1g_m + 2C_1C_4L_4L_LR_1g_m + C_1C_4L_4L_L\right) + s^2\left(2C_4L_4L_Lg_m + C_4L_4L_Lg_m\right) + s\left(C_4L_4R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_m\right)}$

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10.395 INVALID-ORDER-395 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_4L_1R_1g_ms^4 + L_4g_ms + s^3\left(C_1C_LL_4R_1R_Lg_m + C_LL_4L_Lg_m\right) + s^2\left(C_1L_4R_1g_m + C_LL_4R_Lg_m\right)}{2g_m + s^5\left(2C_1C_4C_LL_4L_Lg_m + 2C_1C_4L_LL_4R_1g_m + 2C_1C_4L_4R_1g_m + 2C_1
10.396 INVALID-ORDER-396 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
   H(s) = \frac{C_1L_4L_LR_1R_Lg_ms^2 + L_4L_LR_Lg_ms}{L_4R_Lg_m + 2L_LR_Lg_m + 2C_1C_4L_4L_LR_1R_Lg_m + 2C_1C_4L_4L_LR_1R_Lg_m + C_1C_LL_4L_LR_1g_m + C_1L_4L_LR_1g_m + C_1L_4L_1R_1g_m + C_1L_4L_1R
10.397 INVALID-ORDER-397 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_R L_s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_LL_4L_LR_1R_Lg_ms^4 + L_4R_Lg_ms + s^3\left(C_1L_4L_LR_1g_m + C_LL_4L_LR_Lg_m\right) + s^2\left(C_1L_4R_1R_Lg_m + L_4L_Lg_m\right)}{2R_Lg_m + s^5\left(2C_1C_4L_LL_4L_LR_1g_m + 2C_1C_4L_4L_LR_1g_m + 2C_1C_4L_4L_1R_1g_m + 2C_1C_4L_4L_1R_1g_m + 2C_1C_4L_4L_1R_1g_m + 2C_1C_4L_4L_1R_1g_m + 2C_1C_4L_4L_1R_1g_m + 2C_1C_4L_4R_1R_1g_m + 2C_1C_4L_4R_1g_m + 2C_1C_4L_4R_1R_1g_m + 2C_1C_4R_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_{1}C_{L}L_{4}L_{L}R_{1}R_{L}g_{m}s^{4} + L_{4}R_{L}g_{m}s + s^{3}\left(C_{1}L_{4}L_{L}R_{1}g_{m} + C_{L}L_{4}L_{L}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{4}R_{1}R_{L}g_{m} + L_{4}L_{L}g_{m}\right)
10.398 INVALID-ORDER-398 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_1C_LL_4L_LR_1R_Lg_ms^4 + C_1L_4R_1R_Lg_ms^2 + C_LL_4L_LR_Lg_ms^3 + L_4R_Lg_ms^4
H(s) = \frac{C_1C_LL_4L_LR_1R_Lg_ms^4 + C_1L_4R_1R_Lg_ms^3 + L_4R_Lg_ms^3 + L_4R_Lg
10.399 INVALID-ORDER-399 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)
                                                                                                                                                                                                                                                                      H(s) = \frac{C_1C_4L_4R_1R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_4R_1R_4R_Lg_m + C_4L_4R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_4R_4R_Lg_m\right)}{g_m + s^3\left(C_1C_4L_4R_1g_m + C_1C_4L_4\right) + s^2\left(C_1C_4R_1R_4g_m + 2C_1C_4R_1R_Lg_m + C_1C_4R_4 + 2C_1C_4R_L + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_1 + C_4R_4g_m + 2C_4R_Lg_m\right)}
10.400 INVALID-ORDER-400 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                            H(s) = \frac{C_1C_4L_4R_1g_ms^3 + g_m + s^2\left(C_1C_4R_1R_4g_m + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m\right)}{s^4\left(C_1C_4C_LL_4R_1g_m + C_1C_4C_LL_4\right) + s^3\left(C_1C_4C_LR_1R_4g_m + C_1C_4C_LR_4 + C_4C_LL_4g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L + C_4C_LR_4g_m\right) + s\left(2C_4g_m + C_Lg_m\right)}
10.401 INVALID-ORDER-401 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_4L_4R_1R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_4R_1R_4R_Lg_m + C_4L_4R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_4R_4R_Lg_m\right)}{g_m + s^4\left(C_1C_4C_LL_4R_1R_Lg_m + C_1C_4L_4R_Lg_m + C_1C_4L_4R_Lg_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_4R_4R_Lg_m + C_1C_4R_4R_Lg_m + C_1C_4R_4R_Lg_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_4R_4R_Lg_m\right) + s^2\left(C_1C_4R_1R_4g_
10.402 INVALID-ORDER-402 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                  H(s) = \frac{C_1C_4C_LL_4R_1R_Lg_ms^4 + g_m + s^3\left(C_1C_4C_LR_1R_4R_Lg_m + C_1C_4L_4R_1g_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_4C_LR_4R_Lg_m + C_4C_LR_4R_Lg_m + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m + C_4R_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m\right) + s\left(C_1R
10.403 INVALID-ORDER-403 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                  H(s) = \frac{C_1C_4C_LL_4L_Rg_ms^5 + g_m + s^4\left(C_1C_4C_LL_Rg_m + C_4C_LL_4L_g_m\right) + s^3\left(C_1C_4L_4R_1g_m + C_1C_LL_Rg_m + C_4C_LL_Rg_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_4L_4g_m + C_4L_4g_m + C_4L_4g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_4L_4g_m + C_4L_4g_m + C_4L_4g_m\right) + s^2\left(C_1C_4R_1g_m + C_4L_4g_m + C_4L_4g_m + C_4L_4g_m\right) + s^2\left(C_1C_4R_1g_m + C_4L_4g_m + C_4L_4g_m + C_4L_4g_m\right) + s^2\left(C_1C_4R_1g_m + C_4C_4L_4g_m\right) + s^2\left(C_1C_4R_1g_m + C_4C_4R_4g_m\right) + s^2\left(C_1
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10.404 INVALID-ORDER-404 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_4L_4L_1R_1g_ms^4 + L_Lg_ms + s^3\left(C_1C_4L_LR_1R_4g_m + C_4L_4L_Lg_m\right) + s^2\left(C_1L_LR_1g_m + C_4L_LR_4g_m\right)}{g_m + s^5\left(C_1C_4L_LL_4L_LR_1g_m + C_1C_4L_LL_4L_4\right) + s^4\left(C_1C_4L_LR_1R_4g_m + C_1C_4L_LR_4g_m + C_1C_4L_LR_1g_m + C_1C_
10.405 INVALID-ORDER-405 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_4L_LR_1g_ms^5 + g_m + s^4\left(C_1C_4C_LL_4R_1R_Lg_m + C_1C_4L_LR_1R_4g_m + C_4C_LL_4R_1g_m + C_4C_LR_4R_1g_m + C_4C_LL_4R_1g_m + C_4C_LR_4R_1g_m + C_4C_LR_4R_1g_m + C_4C_LR_4R_1g_m + C_4C_LR_4R_1g_m + C_4C_LR_4R_1g_m + C_4C_LR_
10.406 INVALID-ORDER-406 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_1C_4L_4L_LR_1R_Lg_ms^4 + L_LR_Lg_ms + s^3(C_1C_4L_LR_1R_4R_Lg_m + C_1C_4L_LR_1R_4R_Lg_m)
10.407 INVALID-ORDER-407 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_4C_LL_4L_RR_1R_Lg_m + s^4\left(C_1C_4C_LL_LR_1R_4R_Lg_m + C_1C_4L_LR_1g_m + C_4C_LL_LR_1R_Lg_m + C_1C_4L_LR_1R_Lg_m + C_4C_LL_LR_1R_Lg_m + C_4C_
10.408 INVALID-ORDER-408 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_{1}C_{4}C_{L}L_{4}L_{L}R_{1}R_{L}g_{m}s^{5} + R_{L}g_{m} + s^{4}\left(C_{1}C_{4}C_{L}L_{L}R_{1}R_{4}R_{L}g_{m} + C_{4}C_{L}L_{4}L_{L}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{4}R_{1}R_{L}g_{m} + C_{4}C_{L}L_{4}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{4}R_{1}R_{L}g_{m} + C_{4}C_{L}L_{4}L_{L}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{4}R_{1}R_{L}g_{m} + C_{4}C_{L}L_{4}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{4}R_{L}g_{m} + C_{4}C_{L}L_{4}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}R_{L}g_{m} + C_{4}C_{L}L_{4}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}R_{L}g_{m} + C_{4}C_{L}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}R_{L}g_{m} + C_{4}C_{L}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}R_{L}g_{m} + C_{4}C_{
                                      10.409 INVALID-ORDER-409 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}, \infty, R_L\right)
                                                                                                                                       H(s) = \frac{C_1L_4R_1R_4R_Lg_ms^2 + L_4R_4R_Lg_ms}{2R_4R_Lg_m + s^3\left(2C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_4R_L\right) + s^2\left(C_1L_4R_1R_4g_m + 2C_1L_4R_1R_Lg_m + C_1L_4R_4 + 2C_1L_4R_L + 2C_4L_4R_4R_Lg_m\right) + s\left(2C_1R_1R_4R_Lg_m + 2C_1R_4R_L + L_4R_4g_m + 2L_4R_Lg_m\right)}
10.410 INVALID-ORDER-410 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}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                    H(s) = \frac{C_1L_4R_1R_4g_ms^2 + L_4R_4g_ms}{2R_4g_m + s^3\left(2C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_4 + C_1C_LL_4R_1R_4g_m + C_1C_LL_4R_4\right) + s^2\left(2C_1L_4R_1g_m + 2C_1L_4 + 2C_4L_4R_4g_m + C_LL_4R_4g_m\right) + s\left(2C_1R_1R_4g_m + 2C_1R_4 + 2L_4g_m\right)}{2R_4g_m + s^3\left(2C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_4 + C_1C_LL_4R_4g_m + C_1C_LL_4R_4\right) + s^2\left(2C_1L_4R_1g_m + 2C_1L_4 + 2C_4L_4R_4g_m + C_LL_4R_4g_m\right) + s\left(2C_1R_1R_4g_m + 2C_1R_4 + 2C_4L_4R_4g_m\right) + s\left(2C_1R_1R_4g_m + 2C_1R_4 + 2C_4L_4R_4g_m\right) + s\left(2C_1R_4R_4g_m + 2C_4R_4g_m\right) + s\left(2C_1R_4R_4g_m + 2C_4R_4g_m\right) + s\left(2C_4R_4R_4g_m + 2C_4R_4g_m\right) + s\left(2C_4R_4g_m +
10.411 INVALID-ORDER-411 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1L_4R_1R_4R_Lg_ms^2 + L_4R_4R_Lg_ms}{2R_4R_Lg_m + s^3\left(2C_1C_4L_4R_1R_4R_Lg_m + 2C_1C_4L_4R_4R_L + C_1C_LL_4R_1R_4R_Lg_m + C_1L_4R_4R_Lg_m + C_
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 $H(s) = \frac{C_1C_LL_4R_1R_4R_Lg_ms^3 + L_4R_4g_ms + s^2\left(C_1L_4R_1R_4g_m + C_LL_4R_4R_Lg_m\right)}{2R_4g_m + s^4\left(2C_1C_4L_LL_4R_1R_4g_m + 2C_1C_4L_4R_4R_Lg_m + 2C_1C_LL_4R_1R_4g_m + 2C_1C_LL_4R_1R_4g_m + 2C_1C_LL_4R_1R_4g_m + 2C_1C_LL_4R_1R_4g_m + 2C_1C_LL_4R_1R_4g_m + 2C_1C_LL_4R_1R_4g_m + 2C_1C_LL_4R_4R_Lg_m\right) + s^2\left(2C_1C_LL_4R_4R_Lg_m + 2C_1C_LL_4R_4R_Lg_m + 2C_1C_LL_4R_4R_Lg_m + 2C_1C_LL_4R_4R_Lg_m + 2C_1C_LL_4R_4R_Lg_m + 2C_1C_LL_4R_4R_Lg_m + 2C_1C_LL_4R_4R_Lg_m\right) + s^2\left(2C_1C_LL_4R_4R_Lg_m + 2C_1C_LL_4R_4R_Lg_m right) + s^2\left(2C_1C_LL_4R_4R_Lg_m + 2C_1C_LL_4R_4R_Lg_m +$

 $C_1C_LL_4R_1R_4R_Lg_ms^3 + L_4R_4g_ms + s^2\left(C_1L_4R_1R_4g_m + C_LL_4R_4R_Lg_m\right)$

10.412 INVALID-ORDER-412 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L + \frac{1}{C_L s}\right)$

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10.413 INVALID-ORDER-413 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}, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_4L_LR_1R_4g_ms^4 + C_1L_4R_1R_4g_ms^2 + C_LL_4L_LR_4g_ms^3 + L_4R_4g_ms}{2R_4g_m + s^5\left(2C_1C_4L_LL_4L_LR_4g_m + 2C_1C_4L_4L_LR_4g_m + 2C_1C_4L_4L_LR_4g_m + 2C_1C_4L_4L_LR_4g_m + 2C_1C_4L_4R_4R_4g_m + 2C_1C_4L_4R_4R_4g_m + 2C_1C_4L_4R_4g_m + 2C_1C_4R_4g_m +
10.414 INVALID-ORDER-414 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
    H(s) = \frac{C_1L_4L_LR_1R_4g_ms^2 + L_4L_LR_4g_ms}{L_4R_4g_m + 2L_LR_4g_m + s^3\left(2C_1C_4L_4L_LR_1R_4g_m + 2C_1L_4L_LR_4g_m + C_1C_LL_4L_LR_4g_m + C_1L_4L_LR_4g_m + C_1L_4R_4g_m + C_1L_4R_
10.415 INVALID-ORDER-415 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   H(s) = \frac{C_1 C_L L_4 L_L R_1 R_4 g_m s^* + L_4 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \left(C_1 C_L L_4 R_1 R_4 g_m s + s^* \right) \right) \right) \right) \right) \right)
10.416 INVALID-ORDER-416 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_1L_4L_LR_1R_4R_Lg_ms^2 + L_4L_LR_4R_Lg_ms}{L_4R_4R_Lg_m + 2L_LR_4R_Lg_m + s^3\left(2C_1C_4L_4L_LR_1R_4R_Lg_m + 2C_1L_4L_LR_4R_Lg_m + C_1L_4L_LR_4R_Lg_m + C_1L_4L_RR_4R_Lg_m + C_1L_4L_RR_4R_
10.417 INVALID-ORDER-417 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_1 L_1 s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_1C_LL_4L_LR_1R_4R
10.418 INVALID-ORDER-418 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_1C_LL_4L_LR_1R_4R_Lq_ms^4 + C_1L_4R_1R_4R_Lq_m
                                10.419 INVALID-ORDER-419 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}, \infty, R_L\right)
                                                                                             H(s) = \frac{C_1C_4L_4R_1R_4R_Lg_ms^3 + R_4R_Lg_m + s^2\left(C_1L_4R_1R_Lg_m + C_4L_4R_4R_Lg_m\right) + s\left(C_1R_1R_4R_Lg_m + L_4R_Lg_m\right)}{R_4g_m + 2R_Lg_m + s^3\left(C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_1R_Lg_m + C_1C_4L_4R_1\right) + s^2\left(C_1L_4R_1g_m + C_1L_4 + C_4L_4R_4g_m + 2C_4L_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + 2C_1R_1R_4g_m + 2C_1R_1R_4g_m + C_1R_4 + 2C_1R_4R_4g_m\right)}
10.420 INVALID-ORDER-420 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}, \infty, \frac{1}{C_1 s}\right)
                                                                    H(s) = \frac{C_1C_4L_4R_1R_4g_ms^3 + R_4g_m + s^2\left(C_1L_4R_1g_m + C_4L_4R_4g_m\right) + s\left(C_1R_1R_4g_m + L_4g_m\right)}{2g_m + s^4\left(C_1C_4C_LL_4R_1g_m + C_1C_4L_4R_4\right) + s^3\left(2C_1C_4L_4R_1g_m + 2C_1C_4L_4 + C_1C_LL_4R_1g_m + C_1C_LL_4R_4g_m\right) + s^2\left(C_1C_LR_1R_4g_m + C_1C_LR_4 + 2C_4L_4g_m + C_LL_4g_m\right) + s\left(2C_1R_1g_m + 2C_1C_4R_4g_m\right) + s\left(2C_1R_1g_m + 
10.421 INVALID-ORDER-421 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
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10.422 INVALID-ORDER-422 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}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_4R_1R_4g_m + s^3\left(C_1C_4L_4R_1R_4g_m + C_1C_LL_4R_1R_Lg_m + C_4C_LL_4R_4g_m + C_1L_4R_1g_m + C_4L_4R_4g_m + C_LL_4R_1g_m + C_4L_4R_4g_m + C_LL_4R_1g_m + C_4L_4R_4g_m + C_4L_4R_4g_
10.423 INVALID-ORDER-423 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}, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_4L_LR_1g_m + s^4\left(C_1C_LL_4L_LR_1g_m + C_4C_LL_4L_Rg_m\right) + s^3\left(C_1C_4L_4R_1g_m + C_1L_LR_1g_m + C_4L_4R_4g_m + C_LL_4R_1g_m + C_4L_4R_4g_m\right) + s^2\left(C_1L_4R_1g_m + C_4L_4R_4g_m + C_4L_4R_4g_m + C_4L_4R_4g_m\right) + s^2\left(C_1L_4R_4g_m + C_4L_4R_4g_m + C_4L_4R_
10.424 INVALID-ORDER-424 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_{1}C_{4}L_{4}L_{L}R_{1}R_{4}g_{m}s^{4} + L_{L}R_{4}g_{m}s + s^{3}\left(C_{1}L_{4}L_{L}R_{1}g_{m} + C_{4}L_{4}L_{L}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{L}R_{1}R_{4}g_{m} + L_{4}L_{L}g_{m}\right)
H(s) = \frac{C_1C_4L_4L_LR_1g_ms + s^3\left(C_1L_4L_LR_1g_m + C_4L_4L_LR_4g_m\right) + s^2\left(C_1L_LR_1R_4g_m + L_4L_Lg_m\right)}{R_4g_m + s^5\left(C_1C_4L_LL_4L_RR_4g_m + C_1C_4L_4L_LR_4g_m + C_1C_4L_4L_LR_4g_m\right) + s^3\left(C_1C_4L_4R_1R_4g_m + C_1C_4L_4L_RR_4g_m + C_1C_4L_4L_RR_4g_m + C_1C_4L_4L_RR_4g_m\right) + s^3\left(C_1C_4L_4R_1R_4g_m + C_1C_4L_4R_4R_4 + C_1C_4R_4R_4 _4 + C_1C_4R_4R_4 + C
10.425 INVALID-ORDER-425 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_4L_1R_1R_4g_ms^5 + R_4g_m + s^4\left(C_1C_4C_LL_4R_1R_4g_m + C_1C_LL_4L_1R_1g_m + C_4C_LL_4R_1R_4g_m + C_1C_LL_4R_1R_4g_m + C_1C_LL_4R_1R_
10.426 INVALID-ORDER-426 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_1C_4L_4L_LR_1R_4R_Lg_ms^4 + L_L
10.427 INVALID-ORDER-427 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    H(s) = \frac{C_1C_4C_LL_4L_LR_1R_4g_m + s^4\left(C_1C_4L_4L_LR_1R_4g_m + C_1C_LL_4L_LR_1R_4g_m + C_4C_LL_4L_LR_4R_Lg_m\right) + s^3\left(C_1C_4L_4R_1R_4g_m + C_4C_LL_4L_RR_4g_m + s^4\left(C_1C_4L_4L_LR_1R_4g_m + C_4C_LL_4L_LR_4g_m + C_4C_LL_4L_RR_4g_m\right) + s^3\left(C_1C_4L_4R_1R_4g_m + C_4C_LL_4L_RR_4g_m 
10.428 INVALID-ORDER-428 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_1C_4C_LL_4L_LR_1R_4R_Lg_ms^5 + R_4R_Lg_m + s^4(C_1C_LR_1)
H(s) = \frac{1}{R_4 g_m + 2 R_L g_m + s^5 \left( C_1 C_4 C_L L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_4 L_L R_1 R_4 g_m + C_1 C_4 C_L L_4 R_1 R_4 g_m + C_1 C_4 C_L L_4 R_1 R_4 g_m + C_1 C_4 C_L L_4 L_4 R_1 R_4 g_m + C_1 C_4 C_L L_4 L_4 R_1 R_4 g_m + C_1
10.429 INVALID-ORDER-429 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}, \infty, R_L\right)
                                                         H(s) = \frac{C_1C_4L_4R_1R_4R_Lg_ms^3 + C_1R_1R_4R_Lg_ms + C_4L_4R_4R_Lg_ms^2 + R_4R_Lg_m}{R_4g_m + 2R_Lg_m + s^3\left(C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_1R_Lg_m + C_1C_4L_4R_4 + 2C_1C_4L_4R_L\right) + s^2\left(2C_1C_4R_1R_4R_Lg_m + 2C_1C_4R_4R_L + C_4L_4R_4g_m + 2C_4L_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + 2C_1R_1R_Lg_m + C_1R_4 + 2C_1R_L + 2C_4R_4R_Lg_m\right)}
10.430 INVALID-ORDER-430 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}, \infty, \frac{1}{C_L s}\right)
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 $H(s) = \frac{C_1C_4L_4R_1R_4g_ms^3 + C_1R_1R_4g_ms + C_4L_4R_4g_ms^2 + R_4g_m}{2g_m + s^4\left(C_1C_4C_LL_4R_1R_4g_m + C_1C_4C_LL_4R_4\right) + s^3\left(2C_1C_4L_4R_1g_m + 2C_1C_4L_4 + C_4C_LL_4R_4g_m\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + C_1C_LR_1R_4g_m + C_1C_LR_4 + 2C_4L_4g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_4R_4g_m + C_4C_LR_4g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_4R_4g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_4R_4g_m\right) + s\left(2C_1R_1g_m + 2C_1C_4R_4g_m\right) + s\left(2C_1R_1g_m + 2C_1C_4R$

10.434 INVALID-ORDER-434 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_4L_4L_RR_4g_ms^4 + C_1L_LR_1R_4g_ms^2 + C_4L_4L_LR_4g_ms^3 + L_LR_4g_ms}{R_4g_m + s^5\left(C_1C_4L_LL_4L_RR_4g_m + C_1C_4L_LR_4R_4g_m + C_1C_4L_4R_4g_m + C_1C_4L_$

10.435 INVALID-ORDER-435 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

10.436 INVALID-ORDER-436 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $s) = \frac{C_1C_4L_4L_LR_1R_4R_Lg_ms^4 + C_1L_LR_1R_4R_Lg_ms^2 + C_2C_4L_4L_LR_1R_4R_Lg_ms^4 + C_1L_LR_1R_4R_Lg_ms^4 + C_1L_LR_1R_4R_Lg_ms^2 + C_2R_4R_4R_Lg_m + C_1C_4L_4L_RR_1R_4R_Lg_m + C_1C_4L_4R_1R_4R_Lg_m + C_1C_4L_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_1R_4R_1R_4R_1R_1R_4R_1R_1R_1R_1R_1$

10.437 INVALID-ORDER-437 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_4C_LL_4L_LR_1R_4R_Lg_ms^5 + R_4R_Lg_m + s^5}{R_4g_m + 2R_Lg_m + s^5\left(C_1C_4C_LL_4L_LR_1R_4g_m + 2C_1C_4C_LL_4L_LR_1R_4g_m + 2C_1C_4C_LL_4L_LR_1g_m + 2C_1C_4C_LL_4L_4L_4R_1g_m + 2C_1C_4C_LL_4L_4L_4R_1g_m + 2C_1C_4C_LL_4L_4R_1g_m + 2C_1C_4C_LL_4R_1g_m + 2C_1C_4C_LL_4R$

10.438 INVALID-ORDER-438 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4(C_4 L_4 s^2 + 1)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_1C_4C_LL_4L_LR_1R_4}{R_4g_m + 2R_Lg_m + s^5\left(C_1C_4C_LL_4L_LR_1R_4g_m + 2C_1C_4C_LL_4L_LR_1R_4g_m + C_1C_4C_LL_4L_LR_1R_4g_m + C_1C_4C_LL_4R_4R_L + 2C_1C_4C_LL_4R_4R_L + 2C_1C_4C_LL_4R_4R_4R_L + 2C_1C_4C_LL_4R_4R_4R_L + 2C_1C_4C_LL_4R_4R_4R_L + 2C_1C_4C_LL_4R_4R_4R_L + 2C_$

10.439 INVALID-ORDER-439 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 L_1 R_4 g_m s^2 + R_4 g_m}{C_1 C_L L_1 R_4 g_m s^3 + 2 g_m + s^2 \left(C_1 C_L R_4 + 2 C_1 L_1 g_m \right) + s \left(2 C_1 + C_L R_4 g_m \right)}$$

10.440 INVALID-ORDER-440
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1L_1R_4R_Lg_ms^2 + R_4R_Lg_m}{C_1C_LL_1R_4R_Lg_ms^3 + R_4g_m + 2R_Lg_m + s^2\left(C_1C_LR_4R_L + C_1L_1R_4g_m + 2C_1L_1R_Lg_m\right) + s\left(C_1R_4 + 2C_1R_L + C_LR_4R_Lg_m\right)}$$

10.441 INVALID-ORDER-441 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_1R_4R_Lg_ms^3 + C_1L_1R_4g_ms^2 + C_LR_4R_Lg_ms + R_4g_m}{2g_m + s^3\left(C_1C_LL_1R_4g_m + 2C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_LR_4 + 2C_1C_LR_L + 2C_1L_1g_m\right) + s\left(2C_1 + C_LR_4g_m + 2C_LR_Lg_m\right)}$$

10.442 INVALID-ORDER-442 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_LL_1L_LR_4g_ms^4 + R_4g_m + s^2\left(C_1L_1R_4g_m + C_LL_LR_4g_m\right)}{2C_1C_LL_1L_Lg_ms^4 + 2g_m + s^3\left(C_1C_LL_1R_4g_m + 2C_1C_LL_L\right) + s^2\left(C_1C_LR_4 + 2C_1L_1g_m + 2C_LL_Lg_m\right) + s\left(2C_1 + C_LR_4g_m\right)}$$

10.443 INVALID-ORDER-443 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1L_1L_LR_4g_ms^3 + L_LR_4g_ms}{C_1C_LL_1L_LR_4g_ms^4 + R_4g_m + s^3\left(C_1C_LL_LR_4 + 2C_1L_1L_Lg_m\right) + s^2\left(C_1L_1R_4g_m + 2C_1L_L + C_LL_LR_4g_m\right) + s\left(C_1R_4 + 2L_Lg_m\right)}$$

10.444 INVALID-ORDER-444 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

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

10.445 INVALID-ORDER-445 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.446 INVALID-ORDER-446 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1C_LL_1L_LR_4R_Lg_ms^4 + C_1L_1L_LR_4g_ms^3 + L_LR_4g_ms + R_4R_Lg_m + s^2\left(C_1L_1R_4R_Lg_m + C_LL_LR_4R_Lg_m\right)}{R_4g_m + 2R_Lg_m + s^4\left(C_1C_LL_1L_LR_4g_m + 2C_1C_LL_1L_LR_4g_m\right) + s^3\left(C_1C_LL_LR_4 + 2C_1C_LL_LR_L + 2C_1L_LL_g_m\right) + s^2\left(C_1L_1R_4g_m + 2C_1L_LR_4g_m + 2C_1L_LR_4g_m + 2C_1L_LR_4g_m\right) + s^2\left(C_1L_1R_4g_m + 2C_1L_1R_4g_m + 2C_1L_LR_4g_m\right) + s^2\left(C_1L_1R_4g_m + 2C_1L_1R_4g_m + 2C_1L_1R_4g_m\right) + s^2\left(C_1L_1R_4g_m + 2C_1L_1R_4g_m + 2C_1L_1R_4g_m\right) + s^2\left(C_1L_1R_4g_m + 2C$$

10.447 INVALID-ORDER-447 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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

10.448 INVALID-ORDER-448 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L\right)$

$$H(s) = \frac{C_1 L_1 R_L g_m s^2 + R_L g_m}{2C_1 C_4 L_1 R_L g_m s^3 + g_m + s^2 \left(2C_1 C_4 R_L + C_1 L_1 g_m\right) + s \left(C_1 + 2C_4 R_L g_m\right)}$$

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

$$H(s) = \frac{C_1 L_1 g_m s^2 + g_m}{s^3 \left(2 C_1 C_4 L_1 g_m + C_1 C_L L_1 g_m\right) + s^2 \left(2 C_1 C_4 + C_1 C_L\right) + s \left(2 C_4 g_m + C_L g_m\right)}$$

10.450 INVALID-ORDER-450
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1 L_1 R_L g_m s^2 + R_L g_m}{g_m + s^3 \left(2 C_1 C_4 L_1 R_L g_m + C_1 C_L L_1 R_L g_m\right) + s^2 \left(2 C_1 C_4 R_L + C_1 C_L R_L + C_1 L_1 g_m\right) + s \left(C_1 + 2 C_4 R_L g_m + C_L R_L g_m\right)}$$

10.451 INVALID-ORDER-451
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_1R_Lg_ms^3 + C_1L_1g_ms^2 + C_LR_Lg_ms + g_m}{2C_1C_4C_LL_1R_Lg_ms^4 + s^3\left(2C_1C_4C_LR_L + 2C_1C_4L_1g_m + C_1C_LL_1g_m\right) + s^2\left(2C_1C_4 + C_1C_L + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$$

10.452 INVALID-ORDER-452
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1 C_L L_1 L_L g_m s^4 + g_m + s^2 \left(C_1 L_1 g_m + C_L L_L g_m\right)}{2 C_1 C_4 C_L L_1 L_L g_m s^5 + 2 C_1 C_4 C_L L_L s^4 + s^3 \left(2 C_1 C_4 L_1 g_m + C_1 C_L L_1 g_m + 2 C_4 C_L L_L g_m\right) + s^2 \left(2 C_1 C_4 + C_1 C_L\right) + s \left(2 C_4 g_m + C_L g_m\right)}$$

10.453 INVALID-ORDER-453
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1 L_1 L_L g_m s^3 + L_L g_m s}{C_1 s + g_m + s^4 \left(2 C_1 C_4 L_1 L_L g_m + C_1 C_L L_1 L_L g_m\right) + s^3 \left(2 C_1 C_4 L_L + C_1 C_L L_L\right) + s^2 \left(C_1 L_1 g_m + 2 C_4 L_L g_m + C_L L_L g_m\right)}$$

10.454 INVALID-ORDER-454
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_1L_Lg_ms^4 + C_1C_LL_1R_Lg_ms^3 + C_LR_Lg_ms + g_m + s^2\left(C_1L_1g_m + C_LL_Lg_m\right)}{2C_1C_4C_LL_1L_Lg_ms^5 + s^4\left(2C_1C_4C_LL_1R_Lg_m + 2C_1C_4C_LL_L\right) + s^3\left(2C_1C_4C_LR_L + 2C_1C_4L_1g_m + C_1C_LL_1g_m + 2C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4 + C_1C_L + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$$

10.455 INVALID-ORDER-455
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.456 INVALID-ORDER-456
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_Lg_ms^4 + C_1L_1L_Lg_ms^3 + L_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_LL_LR_Lg_m\right)}{2C_1C_4C_LL_1L_LR_Lg_ms^5 + g_m + s^4\left(2C_1C_4C_LL_LR_L + 2C_1C_4L_1L_Lg_m + C_1C_LL_1L_Lg_m\right) + s^3\left(2C_1C_4L_1R_Lg_m + 2C_1C_4L_L + C_1C_LL_L + 2C_4C_LL_LR_Lg_m\right) + s^2\left(2C_1C_4R_L + C_1L_1g_m + 2C_4L_Lg_m + C_LL_Lg_m\right) + s^2\left(2C_1C_4R_L + C_1L_1R_Lg_m + C_LL_Lg_m\right) + s^2\left(2C_1C_4R_Lg_m + C_LL_Lg_m\right) + s^2\left(2C_1C_4R_Lg_m + C_LL_Lg_m\right) +$$

10.457 INVALID-ORDER-457
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_Lg_ms^4 + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_LL_LR_Lg_m\right)}{2C_1C_4C_LL_1L_LR_Lg_ms^5 + g_m + s^4\left(2C_1C_4C_LL_LR_L + C_1C_LL_1L_Lg_m\right) + s^3\left(2C_1C_4L_1R_Lg_m + C_1C_LL_1R_Lg_m + C_1C_LL_1R_Lg_m\right) + s^2\left(2C_1C_4R_L + C_1C_LR_L + C_1L_1g_m + C_LL_Lg_m\right) + s^2\left(2C_1C_4R_L + C_1C_LR_L + C_1C_LR_L + C_1C_LR_L + C_1C_LR_Lg_m\right) + s^2\left(2C_1C_4R_L _m\right) + s^2\left(2$$

 $H(s) = \frac{C_1 L_1 R_4 g_m s^2 + R_4 g_m}{2q_m + s^3 \left(2C_1 C_4 L_1 R_4 q_m + C_1 C_L L_1 R_4 q_m\right) + s^2 \left(2C_1 C_4 R_4 + C_1 C_L R_4 + 2C_1 L_1 q_m\right) + s \left(2C_1 + 2C_4 R_4 q_m + C_L R_4 q_m\right)}$ **10.460** INVALID-ORDER-460 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1L_1R_4R_Lg_ms^2 + R_4R_Lg_m}{R_4g_m + 2R_Lg_m + s^3\left(2C_1C_4L_1R_4R_Lg_m + C_1C_LL_1R_4R_Lg_m\right) + s^2\left(2C_1C_4R_4R_L + C_1C_LR_4R_L + C_1L_1R_4g_m + 2C_1L_1R_Lg_m\right) + s\left(C_1R_4 + 2C_1R_L + 2C_4R_4R_Lg_m + C_LR_4R_Lg_m\right)}$ **10.461** INVALID-ORDER-461 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1R_4R_Lg_ms^3 + C_1L_1R_4g_ms^2 + C_LR_4R_Lg_ms + R_4g_m}{2C_1C_4C_LL_1R_4g_ms^4 + 2g_m + s^3\left(2C_1C_4C_LR_4R_L + 2C_1C_4L_1R_4g_m + C_1C_LL_1R_Lg_m\right) + s^2\left(2C_1C_4R_4 + C_1C_LR_4 + 2C_1C_LR_4 + 2C_1C_LR_4R_Lg_m\right) + s\left(2C_1 + 2C_4R_4g_m + C_LR_4g_m + 2C_LR_Lg_m\right)}$ **10.462** INVALID-ORDER-462 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_LR_4g_ms^4 + R_4g_m + s^2\left(C_1L_1R_4g_m + C_LL_LR_4g_m\right)}{2C_1C_4C_LL_1L_LR_4g_ms^5 + 2g_m + s^4\left(2C_1C_4L_LL_R4 + 2C_1C_LL_1L_Lg_m\right) + s^3\left(2C_1C_4L_1R_4g_m + C_1C_LL_1R_4g_m + 2C_1C_LL_LR_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_LR_4 + 2C_1L_Lg_m\right) + s^2\left(2C_1C_4R_4 + 2C_1L_LR_4g_m\right) + s^2\left(2C_1C_4R_4$ 10.463 INVALID-ORDER-463 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}L_{1}L_{L}R_{4}g_{m}s^{3} + L_{L}R_{4}g_{m}s}{R_{4}g_{m} + s^{4}\left(2C_{1}C_{4}L_{L}L_{L}R_{4}g_{m} + C_{1}C_{L}L_{L}R_{4}g_{m}\right) + s^{3}\left(2C_{1}C_{4}L_{L}R_{4} + C_{1}C_{L}L_{L}R_{4} + 2C_{1}L_{L}L_{g}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + 2C_{1}L_{L} + 2C_{4}L_{L}R_{4}g_{m}\right) + s\left(C_{1}R_{4} + 2L_{L}g_{m}\right) + s\left(C_{1}R_{4} + 2L_{L}g_{m}\right) + s\left(C_{1}R_{4} + 2L_{L}g_{m}\right) + s\left(C_{1}R_{4} + 2L_{L}R_{4}g_{m}\right) + s\left(C_{1}R_{4} + 2L_{L}R_{4}g_{m$ **10.464** INVALID-ORDER-464 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_Rq_gms^4 + C_1C_LL_1R_4R_Lgms^3 + C_LR_4R_Lgms + R_4gm + s^2\left(C_1L_1R_4g_m + C_LL_LR_4g_m\right)}{2C_1C_4C_LL_1L_LR_4g_ms^5 + 2g_m + s^4\left(2C_1C_4C_LL_1R_4R_Lgm + 2C_1C_LL_1L_Lg_m\right) + s^3\left(2C_1C_4C_LR_4R_L + 2C_1C_LL_1R_4g_m + C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4R_Lg_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4R_Lg_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4R_Lg_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4R_Lg_m + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_1C_LL_1R_4g_m + 2C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_4R_Lg_m + 2C_1C_LR_4R_Lg_m\right) + s^2\left(2C_1C_4R_4R_Lg_m\right) +$ 10.465 INVALID-ORDER-465 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_{1}L_{1}L_{L}R_{4}R_{L}g_{m}s^{3} + L_{L}R_{4}R_{L}g_{m}s}{R_{4}R_{L}g_{m} + s^{4}\left(2C_{1}C_{4}L_{1}L_{L}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{4}R_{L}g_{m}\right) + s^{3}\left(2C_{1}C_{4}L_{L}R_{4}R_{L} + C_{1}C_{L}L_{L}R_{4}R_{L} + C_{1}L_{L}L_{L}R_{4}g_{m} + 2C_{1}L_{L}L_{L}R_{4}g_{m} + C_{1}L_{L}R_{4} + 2C_{1}L_{L}R_{4} + 2C_{1}L_{L}R_{4}R_{L}g_{m} + C_{L}L_{L}R_{4}R_{L}g_{m}\right) + s\left(C_{1}R_{4}R_{L} + C_{1}L_{L}R_{4}R_{L}g_{m} + C_{1}L_{L}R_{4}R_{L}g_{m} + C_{1}L_{L}R_{4}R_{L}g_{m} + C_{1}L_{L}R_{4}R_{L}g_{m}\right) + s\left(C_{1}R_{4}R_{L} + C_{1}L_{L}R_{4}R_{L}g_{m} + C_{1}L_{L}R_{4}R_{L}g_{m}\right) + s\left(C_{1}R_{4}R_{L} + C_{1}L_{L}R_{4}R_{L}g_{m} + C_{1}L_{L}R_{4}R_{L}g_{m}\right) + s\left(C_{1}R_{4}R_{L} _{m}\right) 10.466 INVALID-ORDER-466 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $C_1C_LL_1L_LR_4R_Lg_ms^4 + C_1L_1L_LR_4g_ms^3 + L_LR_4g_ms + R_4R_Lg_m + s^2\left(C_1L_1R_4R_Lg_m + C_LL_LR_4R_Lg_m\right)$ $H(s) = \frac{C_1C_LL_1L_LR_4R_Lg_ms^{\sharp} + C_1L_1L_LR_4g_ms^{\sharp} + C_1L_1L_LR_4g_ms^{\sharp} + C_1L_1L_LR_4g_ms^{\sharp} + C_1L_LR_4g_ms^{\sharp} 10.467 INVALID-ORDER-467 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $C_1C_LL_1L_LR_4R_Lg_ms^4 + R_4R_Lg_m + s^2(C_1L_1R_4R_Lg_m + C_LL_LR_4R_Lg_m)$ $\frac{2C_{1}C_{4}C_{L}L_{L}L_{R}R_{4}R_{L}g_{m}+c-(c_{1}L_{1}L_{L}R_{4}R_{L}$ 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 $H(s) = \frac{C_1L_1R_4R_Lg_ms^2 + R_4R_Lg_m}{2C_1C_4L_1R_4R_Lg_ms^3 + R_4g_m + 2R_Lg_m + s^2\left(2C_1C_4R_4R_L + C_1L_1R_4g_m + 2C_1L_1R_Lg_m\right) + s\left(C_1R_4 + 2C_1R_L + 2C_4R_4R_Lg_m\right)}$

10.458 INVALID-ORDER-458 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)$

10.459 INVALID-ORDER-459 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$

10.468 INVALID-ORDER-468 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$ $H(s) = \frac{C_1C_4L_1R_4R_Lg_ms^3 + C_1L_1R_Lg_ms^2 + C_4R_4R_Lg_ms + R_Lg_m}{g_m + s^3\left(C_1C_4L_1R_4g_m + 2C_1C_4L_1R_Lg_m\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_L + C_1L_1g_m\right) + s\left(C_1 + C_4R_4g_m + 2C_4R_Lg_m\right)}$ **10.469** INVALID-ORDER-469 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4L_1R_4g_ms^3 + C_1L_1g_ms^2 + C_4R_4g_ms + g_m}{C_1C_4C_LL_1R_4g_ms^4 + s^3\left(C_1C_4C_LR_4 + 2C_1C_4L_1g_m + C_1C_LL_1g_m\right) + s^2\left(2C_1C_4 + C_1C_L + C_4C_LR_4g_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.470 INVALID-ORDER-470 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1C_4L_1R_4R_Lg_ms^3 + C_1L_1R_Lg_ms^2 + C_4R_4R_Lg_ms + R_Lg_m}{C_1C_4C_LL_1R_4R_Lg_ms^4 + g_m + s^3\left(C_1C_4C_LR_4R_L + C_1C_4L_1R_4g_m + 2C_1C_4L_1R_Lg_m\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_4 + C_1C_LR_L + C_1L_1g_m + C_4C_LR_4R_Lg_m\right) + s\left(C_1 + C_4R_4g_m + 2C_4R_Lg_m + C_4R_Lg_m\right)}$ 10.471 INVALID-ORDER-471 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4C_LL_1R_4R_Lg_ms^4 + g_m + s^3\left(C_1C_4L_1R_4g_m + C_1C_LL_1R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4C_LR_4R_Lg_m\right) + s\left(C_4R_4g_m + C_LR_Lg_m\right)}{s^4\left(C_1C_4C_LL_1R_4g_m + 2C_1C_4C_LL_1R_Lg_m\right) + s^3\left(C_1C_4C_LR_4 + 2C_1C_4C_LR_L + 2C_1C_4L_1g_m + C_1C_LL_1g_m\right) + s^2\left(2C_1C_4 + C_1C_L + C_4C_LR_4g_m + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.472 INVALID-ORDER-472 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4C_LL_1L_LR_4g_ms^5 + C_1C_LL_1L_Lg_ms^4 + C_4R_4g_ms + g_m + s^3\left(C_1C_4L_1R_4g_m + C_4C_LL_LR_4g_m\right) + s^2\left(C_1L_1g_m + C_LL_Lg_m\right)}{2C_1C_4C_LL_1L_Lg_ms^5 + s^4\left(C_1C_4C_LL_1R_4g_m + 2C_1C_4C_LL_1\right) + s^3\left(C_1C_4C_LR_4 + 2C_1C_4L_1g_m + C_1C_LL_1g_m + 2C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4 + C_1C_L + C_4C_LR_4g_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.473 INVALID-ORDER-473 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}C_{4}L_{1}L_{L}R_{4}g_{m}s^{4} + C_{1}L_{1}L_{L}g_{m}s^{3} + C_{4}L_{L}R_{4}g_{m}s^{2} + L_{L}g_{m}s}{C_{1}C_{4}C_{L}L_{L}R_{4}g_{m}s^{5} + g_{m} + s^{4}\left(C_{1}C_{4}C_{L}L_{L}R_{4} + 2C_{1}C_{4}L_{L}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{4}g_{m} + 2C_{1}C_{4}L_{L} + C_{1}C_{L}L_{L}R_{4}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{4} + C_{1}L_{1}g_{m} + 2C_{4}L_{L}g_{m}\right) + s\left(C_{1} + C_{4}R_{4}g_{m}\right)}{C_{1}C_{4}C_{L}L_{L}R_{4}g_{m}s^{5} + g_{m} + s^{4}\left(C_{1}C_{4}C_{L}L_{L}R_{4} + 2C_{1}C_{4}L_{L}L_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}L_{L}R_{4}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{4} + C_{1}L_{1}g_{m} + 2C_{4}L_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{4} + C_{1}L_{1}g_{m} + 2C_{4}L_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{4} + C_{1}L_{1}g_{m} + 2C_{4}L_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{4} + C_{1}L_{1}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{4} + C_{1}L_{1}R_{4}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{4} + C_{1}L_$ 10.474 INVALID-ORDER-474 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 10.475 INVALID-ORDER-475 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_1C_4L_1L_LR_4R_Lg_ms^4 + C_1L_1L_LR_4g_ms^3 + C_4L_LR_4R_Lg_ms^2 + L_LR_Lg_ms}{C_1C_4C_LL_LL_R_4R_Lg_ms^5 + R_Lg_m + s^4\left(C_1C_4C_LL_LR_4R_L + C_1C_4L_LR_4g_m + 2C_1C_4L_LR_4R_Lg_m\right) + s^3\left(C_1C_4L_1R_4R_Lg_m + C_1C_4L_LR_4 + 2C_1C_4L_LR_4 + C_1C_4L_LR_4 + C_1C_4L_LR_4R_Lg_m\right) + s^2\left(C_1C_4R_4R_L + C_1L_LR_4R_Lg_m + C_1C_4L_LR_4R_Lg_m\right) + s^2\left(C_1C_4R_4R_L + C_1C_4L_LR_4R_Lg_m\right) + s^2\left(C_1C_4R_4R_L + C_1C_4L_LR_4R_Lg_m\right) + s^2\left(C_1C_4R_4R_L + C_1C_4L_LR_4R_Lg_m\right) + s^2\left(C_1C_4R_4R_Lg_m\right) + s^2\left(C_1C_4R_$ 10.476 INVALID-ORDER-476 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_R L_S^2 + L_L s + R_L}{C_L L_S^2 + 1}\right)$ $H(s) = \frac{C_1C_4C_LL_1L_LR_4g_m + s^4\left(C_1C_4L_1L_LR_4g_m + C_1C_LL_1L_LR_4g_m + C_1L_LL_Rg_m\right) + s^3\left(C_1C_4L_1R_4R_Lg_m + C_4C_LL_RR_4g_m + C_4L_LR_4g_m

 $\frac{1}{g_m + s^5 \left(C_1 C_4 C_L L_1 L_L R_4 g_m + 2 C_1 C_4 C_L L_L L_L R_4 g_m + C_1 C_4 C_L R_4 g_$

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

10.477 INVALID-ORDER-477 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

10.478 INVALID-ORDER-478 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)$ $H(s) = \frac{C_1C_4L_1L_4R_Lg_ms^4 + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_4L_4R_Lg_m\right)}{C_1C_4L_1L_4g_ms^4 + g_m + s^3\left(2C_1C_4L_1R_Lg_m + C_1C_4L_4\right) + s^2\left(2C_1C_4R_L + C_1L_1g_m + C_4L_4g_m\right) + s\left(C_1 + 2C_4R_Lg_m\right)}$ **10.479** INVALID-ORDER-479 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4L_1L_4g_ms^4 + g_m + s^2\left(C_1L_1g_m + C_4L_4g_m\right)}{C_1C_4C_LL_1L_4g_ms^5 + C_1C_4C_LL_4s^4 + s^3\left(2C_1C_4L_1g_m + C_1C_LL_1g_m + C_4C_LL_4g_m\right) + s^2\left(2C_1C_4 + C_1C_L\right) + s\left(2C_4g_m + C_Lg_m\right)}$ **10.480** INVALID-ORDER-480 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1C_4L_1L_4R_Lg_ms^4 + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_4L_4R_Lg_m\right)}{C_1C_4C_LL_1L_4R_Lg_ms^5 + g_m + s^4\left(C_1C_4C_LL_4R_L + C_1C_4L_1L_4g_m\right) + s^3\left(2C_1C_4L_1R_Lg_m + C_1C_4L_4 + C_1C_LL_1R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(2C_1C_4R_L + C_1L_1g_m + C_4L_4g_m\right) + s\left(C_1+2C_4R_Lg_m + C_4L_4g_m\right) + s^2\left(2C_1C_4R_L + C_1C_4R_L + C_1C_4R_Lg_m\right) + s^2\left(2C_1C_4R_L + C_1C_4R_Lg_m + C_4R_Lg_m\right) + s^2\left(2C_1C_4R_L + C_1C_4R_Lg_m\right) + s^2\left(2C_1C_4R_Lg_m\right) + s^2\left(2C_1C_4R_Lg_$ **10.481** INVALID-ORDER-481 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4C_LL_1L_4R_Lg_ms^5 + C_1C_4L_1L_4g_ms^4 + C_LR_Lg_ms + g_m + s^3\left(C_1C_LL_1R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4L_4g_m\right)}{C_1C_4C_LL_1L_4g_ms^5 + s^4\left(2C_1C_4L_LR_Lg_m + C_1C_4L_L\right) + s^3\left(2C_1C_4C_LR_L + 2C_1C_4L_1g_m + C_4C_LL_4g_m\right) + s^2\left(2C_1C_4 + C_1C_L + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.482 INVALID-ORDER-482 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4C_LL_1L_4L_Lg_ms^6 + g_m + s^4\left(C_1C_4L_1L_4g_m + C_1C_LL_1L_Lg_m + C_4C_LL_4L_Lg_m\right) + s^2\left(C_1L_1g_m + C_4L_4g_m + C_LL_Lg_m\right)}{s^5\left(C_1C_4C_LL_1L_4g_m + 2C_1C_4C_LL_1L_Lg_m\right) + s^4\left(C_1C_4C_LL_4 + 2C_1C_4C_LL_L\right) + s^3\left(2C_1C_4L_1g_m + C_4C_LL_4g_m + C_4C_LL_4g_m + 2C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4 + C_1C_L\right) + s\left(2C_4g_m + C_Lg_m\right)}$ 10.483 INVALID-ORDER-483 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}C_{4}L_{1}L_{4}L_{L}g_{m}s^{5} + L_{L}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}g_{m} + C_{4}L_{4}L_{L}g_{m}\right)}{C_{1}C_{4}C_{L}L_{1}L_{2}g_{m}s^{6} + C_{1}C_{4}L_{L}L_{L}s^{5} + C_{1}s + g_{m} + s^{4}\left(C_{1}C_{4}L_{1}L_{4}g_{m} + 2C_{1}C_{4}L_{1}L_{L}g_{m} + C_{4}C_{L}L_{4}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{4} + 2C_{1}C_{4}L_{L} + C_{1}C_{L}L_{L}\right) + s^{2}\left(C_{1}L_{1}g_{m} + C_{4}L_{4}g_{m} + 2C_{4}L_{L}g_{m}\right)}$ 10.484 INVALID-ORDER-484 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_4C_LL_1L_4L_Lg_ms^6 + C_1C_4C_LL_1L_4R_Lg_ms^5 + C_LR_Lg_ms + g_m + s^4\left(C_1C_4L_1L_4g_m + C_4C_LL_1L_Lg_m + C_4C_LL_4L_Lg_m\right) + s^3\left(C_1C_LL_1R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4L_4g_m + C_LL_Lg_m\right)}{s^5\left(C_1C_4C_LL_1L_4g_m + 2C_1C_4C_LL_1L_Lg_m\right) + s^4\left(2C_1C_4C_LL_1R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(2C_1C_4C_LL_1L_2g_m\right) + s^2\left(2C_$ 10.485 INVALID-ORDER-485 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_{1}C_{4}L_{1}L_{4}L_{L}R_{L}g_{m}s^{5} + L_{L}R_{L}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}R_{L}g_{m} + C_{4}L_{4}L_{L}R_{L}g_{m}\right)}{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{L}g_{m} + s^{5}\left(C_{1}C_{4}L_{L}L_{L}R_{L}g_{m} + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{L}g_{m} + 2C_{1}C_{4}L_{1}L_{L}R_{L}g_{m} + C_{1}C_{4}L_{4}L_{L}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{4}L_{L}R_{L} + C_{1}C_{L}L_{L}R_{L}g_{m} + C_{4}L_{4}L_{L}R_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{4}L_{L}R_{L} + C_{1}C_{4}L_{4}L_{L}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}L_{4}L_{L}R_{L}g_{m}\right) +$ 10.486 INVALID-ORDER-486 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{L}g_{m}s^{6} + R_{L}g_{m} + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{L}g_{m} + C_{4}C_{L}L_{4}L_{L}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{L}g_{m} + C_{4}L_{4}R_{L}g_{m} + C_{4}L_{4}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{L}g_{m} + C_{4}L_{4}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_$

10.487 INVALID-ORDER-487 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

10.488 INVALID-ORDER-488 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$ $H(s) = \frac{C_1L_1L_4R_Lg_ms^3 + L_4R_Lg_ms}{2C_1C_4L_1L_4R_Lg_ms^4 + 2R_Lg_m + s^3\left(2C_1C_4L_4R_L + C_1L_1L_4g_m\right) + s^2\left(2C_1L_1R_Lg_m + C_1L_4 + 2C_4L_4R_Lg_m\right) + s\left(2C_1R_L + L_4g_m\right)}$ **10.489** INVALID-ORDER-489 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1 L_1 L_4 g_m s^3 + L_4 g_m s}{2C_1 s + 2q_m + s^4 (2C_1 C_4 L_1 L_4 q_m + C_1 C_L L_1 L_4 q_m) + s^3 (2C_1 C_4 L_4 + C_1 C_L L_4) + s^2 (2C_1 L_1 q_m + 2C_4 L_4 q_m + C_L L_4 q_m)}$ 10.490 INVALID-ORDER-490 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1L_1L_4R_Lg_ms^3 + L_4R_Lg_ms}{2R_Lg_m + s^4\left(2C_1C_4L_1L_4R_Lg_m + C_1C_LL_1L_4R_Lg_m\right) + s^3\left(2C_1C_4L_4R_L + C_1C_LL_4R_L + C_1L_1L_4g_m\right) + s^2\left(2C_1L_1R_Lg_m + C_1L_4 + 2C_4L_4R_Lg_m + C_LL_4R_Lg_m\right) + s\left(2C_1R_L + L_4g_m\right)}{s^3\left(2C_1C_4L_1L_4R_Lg_m + C_1C_LL_4R_Lg_m\right) + s^3\left(2C_1C_4L_4R_L + C_1C_LL_4R_Lg_m\right) + s^2\left(2C_1L_1R_Lg_m + C_1L_4 + 2C_4L_4R_Lg_m\right) + s\left(2C_1R_L + L_4g_m\right)}$ 10.491 INVALID-ORDER-491 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_4R_Lg_ms^4 + C_1L_1L_4g_ms^3 + C_LL_4R_Lg_ms^2 + L_4g_ms}{2C_1C_4C_LL_1L_4R_Lg_ms^5 + 2g_m + s^4\left(2C_1C_4L_LL_4R_L + 2C_1C_4L_1L_4g_m + C_1C_LL_1L_4g_m\right) + s^3\left(2C_1C_4L_4 + 2C_1C_LL_1R_Lg_m + C_1C_LL_4R_Lg_m\right) + s^2\left(2C_1C_LR_L + 2C_1L_1g_m + 2C_4L_4g_m + C_LL_4g_m\right) + s\left(2C_1C_4R_Lg_m\right) + s^2\left(2C_1C_4R_L + 2C_4C_4R_Lg_m\right) + s^2\left(2C_1C_4R_L + 2C_4C_4R_Lg_m\right) + s^2\left(2C_4C_4R_Lg_m\right) + s^2\left(2C_4R_Lg_m\right) + s^2\left(2C$ 10.492 INVALID-ORDER-492 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_4L_Lg_ms^5 + L_4g_ms + s^3\left(C_1L_1L_4g_m + C_LL_4L_Lg_m\right)}{2C_1C_4C_LL_1L_4g_ms^6 + 2C_1C_4C_LL_4L_Ls^5 + 2C_1s + 2g_m + s^4\left(2C_1C_4L_1L_4g_m + C_1C_LL_1L_4g_m + 2C_4C_LL_4L_Lg_m\right) + s^3\left(2C_1C_4L_4 + C_1C_LL_4 + 2C_1C_LL_4\right) + s^2\left(2C_1L_1g_m + 2C_4L_4g_m + C_LL_4g_m + 2C_4L_4g_m\right)}$ **10.493** INVALID-ORDER-493 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_{1}L_{1}L_{4}L_{L}g_{m}s^{3} + L_{4}L_{L}g_{m}s}{L_{4}g_{m} + 2L_{L}g_{m} + s^{4}\left(2C_{1}C_{4}L_{1}L_{4}L_{L}g_{m} + C_{1}C_{L}L_{1}L_{4}L_{L}g_{m}\right) + s^{3}\left(2C_{1}C_{4}L_{4}L_{L} + C_{1}C_{L}L_{4}L_{L}\right) + s^{2}\left(C_{1}L_{1}L_{4}g_{m} + 2C_{1}L_{1}L_{L}g_{m} + 2C_{4}L_{4}L_{L}g_{m}\right) + s\left(C_{1}L_{4} + 2C_{1}L_{L}\right)}{c^{2}}$ **10.494** INVALID-ORDER-494 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_LL_1L_4L_Lg_ms^5 + C_1C_LL_1L_4R_Lg_ms^4 + C_LL_4R_Lg_ms^2 + L_4g_ms + s^3\left(C_1L_1L_4g_m + C_LL_4L_Lg_m\right)}{2C_1C_4C_LL_1L_4L_g_ms^6 + 2g_m + s^5\left(2C_1C_4C_LL_1L_4R_Lg_m + 2C_1C_4L_LL_4R_Lg_m + 2C_1C_LL_1L_4g_m + 2C_4C_LL_4L_Lg_m\right) + s^3\left(2C_1C_4L_4 + 2C_1C_LL_1L_4g_m + 2C_4C_LL_4R_Lg_m\right) + s^3\left(2C_1C_4L_4 + 2C_1C_LL_4R_Lg_m + 2C_4C_LL_4R_Lg_m\right) + s^3\left(2C_1C_4L_4 _Lg_m\right) + s^3\left$ 10.495 INVALID-ORDER-495 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 10.496 INVALID-ORDER-496 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ $C_1C_LL_1L_4L_LR_Lg_ms^5 + C_1L_1L_4L_Lg_ms^4 + L_4L_Lg_ms^2 + L_4R_Lg_ms + s^3\left(C_1L_1L_4R_Lg_m + C_LL_4L_LR_Lg_m\right)$ $H(s) = \frac{C_1C_LL_1L_4L_LR_Lg_ms^3 + C_1L_1L_4L_Lg_ms^3 + C_1L_1L_4L_Lg_ms^3 + L_4L_Lg_ms^4 + L_4L_Lg_ms^4 + L_4L_Lg_ms^4 + C_1L_4L_LR_Lg_m)}{2C_1C_4C_LL_1L_4L_LR_Lg_ms^6 + 2R_Lg_m + s^5\left(2C_1C_4L_LL_4L_Lg_m + C_1C_LL_4L_Lg_m\right) + s^4\left(2C_1C_4L_1L_4R_Lg_m + C_1C_LL_4L_LR_Lg_m + C_1C_LL_4L_LR_Lg_m\right) + s^4\left(2C_1C_4L_4L_LR_Lg_m + C_1C_LL_4L_LR_Lg_m\right) + s^4\left(2C_1C_4L_4L_4L_LR_Lg_m + C_1C_LL_4L_LR_Lg_m\right) + s^4\left(2C_1C_4L_4L_4L_4R_Lg_m + C_1C_4L_4L_4R_Lg_m\right) + s^4\left(2C_1C_4L_4L_4R_Lg_m + C_1C_4L_4R_Lg_m\right) + s^4\left(2C_1C_4L_4R_Lg_m\right) + s^4\left(2C_1C$ 10.497 INVALID-ORDER-497 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $C_1C_LL_1L_4L_LR_Lg_ms^5 + L_4R_Lg_ms + s^3(C_1L_1L_4R_Lg_m + C_LL_4L_LR_Lg_m)$ $\frac{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{L}g_{m}s^{6}+2R_{L}g_{m}+s^{5}\left(2C_{1}C_{4}C_{L}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{1}L_{4}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}C_{L}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{L}R_{L}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}\right)+s^{4}\left(2C_{1}C_{4}L_{4}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_{1}L_{4}L_{L}R_{L}g_{m}+C_$

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H(s) = \frac{C_1C_4L_1L_4R_Lg_ms^4 + C_1C_4L_1R_4R_Lg_ms^3 + C_4R_4R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_4L_4R_Lg_m\right)}{C_1C_4L_1L_4g_ms^4 + g_m + s^3\left(C_1C_4L_1R_4g_m + 2C_1C_4L_1R_Lg_m + C_1C_4L_4\right) + s^2\left(C_1C_4R_4 + 2C_1C_4R_L + C_1L_1g_m + C_4L_4g_m\right) + s\left(C_1 + C_4R_4g_m + 2C_4R_Lg_m\right)}
10.499 INVALID-ORDER-499 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                             H(s) = \frac{C_1C_4L_1L_4g_ms^4 + C_1C_4L_1R_4g_ms^3 + C_4R_4g_ms + g_m + s^2\left(C_1L_1g_m + C_4L_4g_m\right)}{C_1C_4C_LL_1L_4g_ms^5 + s^4\left(C_1C_4C_LL_1R_4g_m + C_1C_4C_LL_4\right) + s^3\left(C_1C_4C_LR_4 + 2C_1C_4L_1g_m + C_1C_LL_1g_m + C_4C_LL_4g_m\right) + s^2\left(2C_1C_4 + C_1C_L + C_4C_LR_4g_m\right) + s\left(2C_4g_m + C_Lg_m\right)}
10.500 INVALID-ORDER-500 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_4L_1L_4R_Lg_ms^4 + C_1C_4L_1R_4g_ms^3 + C_4R_4R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_4L_4R_Lg_m\right)}{C_1C_4C_LL_1L_4R_Lg_ms^5 + g_m + s^4\left(C_1C_4C_LL_1R_4R_Lg_m + C_1C_4L_1L_4g_m\right) + s^3\left(C_1C_4C_LR_4R_L + C_1C_4L_1R_4g_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1C_4R_4 + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1C_4R_4 + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1C_4R_4 + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_4C_LR_4R_Lg_m + C_4C_LR_4R_Lg_m\right) + s^2\left(C_4C_LR_4R_Lg_m + C_4C_LR_4R_Lg_m\right) + s^2\left(C_4C_LR_4R_Lg_m + C_4C_LR_4R_Lg_m\right) + s^2\left(C_4C_LR_4R_Lg_m + C_4C_LR_4R_Lg_m\right) + s^2\left(C_4C_LR_4R_Lg_m\right) + s
10.501 INVALID-ORDER-501 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
                                                                H(s) = \frac{C_1C_4C_LL_1L_4R_Lg_ms^5 + g_m + s^4\left(C_1C_4C_LL_1R_4R_Lg_m + C_1C_4L_1L_4g_m\right) + s^3\left(C_1C_4L_1R_4g_m + C_4C_LL_1R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4C_LR_4R_Lg_m + C_4L_4g_m\right) + s\left(C_4R_4g_m + C_LR_Lg_m\right)}{C_1C_4C_LL_1L_4g_ms^5 + s^4\left(C_1C_4C_LL_1R_4g_m + C_1C_4C_LL_4\right) + s^3\left(C_1C_4C_LR_4 + 2C_1C_4C_LR_L + 2C_1C_4L_1g_m + C_4C_LL_4g_m\right) + s^2\left(2C_1C_4 + C_1C_L + C_4C_LR_4g_m + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_4g_m\right)} + s\left(2C_4g_m + C_4g_m\right) + s\left(2C_4g_m + 
10.502 INVALID-ORDER-502 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
                                                          H(s) = \frac{C_1C_4C_LL_1L_4L_Lg_ms^6 + C_1C_4C_LL_1L_LR_4g_ms^5 + C_4R_4g_ms + g_m + s^4\left(C_1C_4L_1L_4g_m + C_1C_LL_1L_Lg_m + C_4C_LL_4L_Lg_m\right) + s^3\left(C_1C_4L_1R_4g_m + C_4C_LL_LR_4g_m\right) + s^2\left(C_1L_1g_m + C_4L_4g_m + C_4L_Lg_m\right) + s^2\left(C_1L_1g_m + C_4L_4g_m + C_4L_4g_m\right) + s^2\left(C_1L_1g_m + C_4L_4g_m + C_4L_4g_m\right) + s^2\left(C_1L_1g_m + C_4L_4g_m\right) + s^2\left(C_1L
10.503 INVALID-ORDER-503 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_{1}C_{4}L_{1}L_{4}L_{L}g_{m}s^{5} + C_{1}C_{4}L_{1}L_{L}R_{4}g_{m}s^{4} + C_{4}L_{L}R_{4}g_{m}s^{2} + L_{L}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}g_{m} + C_{4}L_{4}L_{L}g_{m}\right)
                                           \frac{C_1C_4L_1L_4L_Lg_ms + C_1C_4L_1L_Lg_ms + C_4L_Lg_ms +
10.504 INVALID-ORDER-504 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_Lg_ms^6 + g_m + s^5\left(C_1C_4C_LL_1L_4R_Lg_m + C_1C_4C_LL_1L_LR_4g_m\right) + s^4\left(C_1C_4C_LL_1L_4R_Lg_m + C_1C_LL_1L_Lg_m + C_4C_LL_4L_Lg_m\right) + s^3\left(C_1C_4L_1R_4g_m + C_1C_LL_1R_Lg_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1L_1g_m + C_4C_LL_4R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1
10.505 INVALID-ORDER-505 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_1C_4L_1L_4L_LR_Lg_ms^5 + C_1C_4L_1L_LR_4R_Lg_ms^4 + C_4L_LR_4R_Lg_ms^5
H(s) = \frac{1}{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{L}g_{m}s^{6} + R_{L}g_{m} + s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{L}R_{4}R_{L}g_{m} + C_{1}C_{4}L_{L}L_{L}R_{4}g_{m} + C_{1}C_{4}L_{L}R_{4}g_{m} + C_{1}C_{4}L_{L}R_{4}R_{4}g_{m} + C_{1}C_{4}L_
10.506 INVALID-ORDER-506 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_LR_2g_ms^6 + R_Lg_m + s^5\left(C_1C_4C_LL_1L_LR_4R_Lg_m + C_1C_4L_1L_LR_4g_m + C_1C_4L_1L_1L_1R_4g_m + C_1C_4L_1L_1L_1R_4g_m + C_1C_4L_1L_1R_4g_m + C_1C_4L_1R_4g_m + C_1C_4L_1R_4g_
10.507 INVALID-ORDER-507 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   H(s) = \frac{1}{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}g_{m}s^{6} + g_{m} + s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{L}R_{L}g_{m} + C_{1}C_{4}C_{L}L_{1}L_{L}R_{L}g_{m} ```

**10.498** INVALID-ORDER-498  $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$ 

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H(s) = \frac{C_1L_1L_4R_4g_ms^3 + L_4R_4g_ms}{2R_4g_m + s^4\left(2C_1C_4L_1L_4R_4g_m + C_1C_LL_1L_4R_4g_m\right) + s^3\left(2C_1C_4L_4R_4 + C_1C_LL_4R_4 + 2C_1L_1L_4g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_4 + 2C_4L_4R_4g_m + C_LL_4R_4g_m\right) + s\left(2C_1R_4 + 2L_4g_m\right)}{2R_4g_m + s^4\left(2C_1C_4L_1L_4R_4g_m + C_1C_LL_4R_4g_m\right) + s^3\left(2C_1C_4L_4R_4 + C_1C_LL_4R_4 + 2C_1L_4R_4g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_4 + 2C_4L_4R_4g_m\right) + s\left(2C_1R_4 + 2L_4g_m\right)}
10.510 INVALID-ORDER-510 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1L_1L_4R_4R_Lg_ms^3 + L_4R_4R_Lg_ms}{2R_4R_Lg_m + s^4\left(2C_1C_4L_1L_4R_4R_Lg_m + C_1C_LL_1L_4R_4R_Lg_m\right) + s^3\left(2C_1C_4L_4R_4R_L + C_1C_LL_4R_4R_L + C_1L_1L_4R_4g_m + 2C_1L_1L_4R_4g_m + C_1L_4R_4R_Lg_m\right) + s^2\left(2C_1L_1R_4R_Lg_m + C_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m\right) + s^2\left(2C_1L_1R_4R_Lg_m + C_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m\right) + s^2\left(2C_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m\right) + s^2\left(2C_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m\right) + s^2\left(2C_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m\right) + s^2\left(2C_1R_4R_4R_Lg_m + C_1R_4R_Lg_m\right) + s^2\left(2C_1R_4R_Lg_m + C_1R_4R_Lg_m\right) + s^2\left(2C_1R_4R_Lg_m + C_
10.511 INVALID-ORDER-511 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}, \infty, R_L + \frac{1}{C_L s}\right)
 \frac{C_{1}C_{L}L_{1}L_{4}R_{4}g_{m}s^{4}+C_{1}L_{1}L_{4}R_{4}g_{m}s^{3}+C_{L}L_{4}R_{4}g_{m}s^{2}+L_{4}R_{4}g_{m}s}{2C_{1}C_{4}C_{L}L_{1}L_{4}R_{4}g_{m}+s^{4}\left(2C_{1}C_{4}L_{L}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}R_{4}+2C_{1}C_{L}L_{4}
 C_1C_LL_1L_4R_4R_Lg_ms^4 + C_1L_1L_4R_4g_ms^3 + C_LL_4R_4R_Lg_ms^2 + L_4R_4g_ms
10.512 INVALID-ORDER-512 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}, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_4L_LR_4g_ms^5 + L_4R_4g_ms + s^3\left(C_1L_1L_4R_4g_m + C_LL_4L_LR_4g_m\right)}{2C_1C_4C_LL_1L_4L_LR_4g_m + s^5\left(2C_1C_4C_LL_4L_LR_4 + 2C_1C_LL_4L_LR_4g_m + C_1C_LL_4L_LR_4g_m + 2C_1C_LL_4L_LR_4g_m\right) + s^3\left(2C_1C_4L_4L_LR_4g_m + s^5\left(2C_1C_4L_4L_LR_4g_m + 2C_1C_LL_4L_LR_4g_m + 2C_1C_LL_4L_LR_4g_m\right) + s^3\left(2C_1C_4L_4L_4R_4g_m + 2C_1C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m\right) + s^3\left(2C_1C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m\right) + s^3\left(2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m\right) + s^3\left(2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m\right) + s^3\left(2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m\right) + s^3\left(2C_4C_4L_4R_4 + 2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m\right) + s^3\left(2C_4C_4L_4R_4 + 2C_4C_4L_4L_4R_4g_m + 2C_4C_4L_4L_4R_4g_m\right) + s^3\left(2C_4C_4L_4R_4 + 2C_4C_4L_4R_4g_m + 2C_4C_4L_4R_4g_m\right) + s^3\left(2C_4C_4L_4R_4 + 2C_4C_4L_4R_4g_m + 2C_4C_4L_4R_4g_m\right) + s^3\left(2C_4C_4L_4R_4 _m\right) + s^3\left(2C_4C_4R_4R_4 + 2C_4C_4R_4R_4g_m\right) + s^3\left(2C_4C_4R_4R_4 + 2C_4C_4R_4R_4 + 2C_4C_4R_4R_4R_4R_4R_4R_4R_4R_4R_4R_4R_
10.513 INVALID-ORDER-513 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1L_1L_4L_LR_4g_ms^3 + L_4L_LR_4g_ms}{L_4R_4g_m + 2L_LR_4g_m + s^4\left(2C_1C_4L_1L_4L_LR_4g_m + C_1C_LL_1L_4L_LR_4g_m\right) + s^3\left(2C_1C_4L_4L_LR_4 + C_1C_LL_4L_LR_4 + C_1C_LL_4L_LR_4g_m\right) + s^2\left(C_1L_1L_4R_4g_m + 2C_1L_4L_LR_4g_m + 2C_1L_4L_LR_4g_m\right) + s^2\left(C_1L_4L_4L_4R_4g_m + 2C_4L_4L_4R_4g_m\right) + s^2\left(C_4L_4L_4R_4g_m + 2C_4L_4L_4R_4g_m\right) + s^2\left(C_4L_4L_4R_4g_m + 2C_4L_4L_4R_4g_m\right) + s^2\left(C_4L_4L_4R_4g_m + 2C_4L_4L_4R_4g_m\right) + s^2\left(C_4L_4L_4R_4g_m + 2C_4L_4L_4R_4g_m\right) + s^2\left(C_4L_4R_4g_m + 2C_4L_4L_4R_4g_m\right) + s^2\left(C_4L_4R_4g_m + 2C_4L_4R_4g_m\right) + s^2\left(C_4L_4R_4g_m + 2C_4L_4R_4g_m\right) + s^2\left(C_4R_4g_m + 2C_4R_4g_m\right) + s^2\left(C_
10.514 INVALID-ORDER-514 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 C_1C_LL_1L_4L_LR_4g_ms^5 + C_1C_LL_1L_4R_4R_Lg_ms^4 + C_L
H(s) = \frac{1}{2C_1C_4C_LL_1L_4L_Rq_m s^6 + 2R_4q_m + s^5\left(2C_1C_4C_LL_1L_4R_4q_m + 2C_1C_LL_1L_4R_4q_m + 2C_1C
10.515 INVALID-ORDER-515 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
 C_1L_1L_4L_LR_4R_Lg_ms^3 + L_4L_LR_4R_Lg_ms
10.516 INVALID-ORDER-516 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_LL_1L_4L_LR_4R_Lg_ms^6 + 2R_4R_Lg_m + s^5\left(2C_1C_4C_LL_4L_LR_4R_L + 2C_1C_4L_1L_4L_LR_4g_m + C_1C_LL_1L_4L_LR_4g_m + 2C_1C_4L_4L_LR_4 + 2C_1C_4L_4L_4L_4R_4 + 2C_1C_4L_4L_4R_4 + 2C_1C_4L_4L_4L_4R_4 + 2C_1C_4L_4L_4L_4R_4 + 2C_1C_4L_4L_4L_4R_4 + 2C_1C_4L_4L_4R_4 + 2C_1C_4L_4L_4
10.517 INVALID-ORDER-517 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 C_1C_LL_1L_4L_LR_4R_Lg_ms^5 + L_4R_4R_Lg_ms +
 \frac{1}{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}s^{6}+2R_{4}R_{L}g_{m}+s^{5}\left(2C_{1}C_{4}C_{L}L_{4}L_{L}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{1}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}+c_{1}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}+c_{1}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m}+c_
 108
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 $H(s) = \frac{C_1L_1L_4R_4R_Lg_ms^3 + L_4R_4R_Lg_ms}{2C_1C_4L_1L_4R_4g_m + s^3\left(2C_1C_4L_4R_4R_L + C_1L_1L_4R_4g_m + 2C_1L_1L_4R_Lg_m\right) + s^2\left(2C_1L_1R_4R_Lg_m + C_1L_4R_4 + 2C_1L_4R_L + 2C_4L_4R_4R_Lg_m\right) + s\left(2C_1R_4R_L + L_4R_4g_m + 2L_4R_Lg_m\right)}{2C_1C_4L_4R_4R_Lg_m + s^3\left(2C_1C_4L_4R_4R_L + C_1L_4R_4g_m + 2C_1L_4R_Lg_m\right) + s^2\left(2C_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m\right) + s\left(2C_1R_4R_L + L_4R_4g_m + 2L_4R_Lg_m\right)}$ 

10.508 INVALID-ORDER-508  $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L\right)$ 

10.509 INVALID-ORDER-509  $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{1}{C_1 s}\right)$ 

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H(s) = \frac{C_1C_4L_1L_4R_4g_ms^4 + C_1L_1L_4g_ms^3 + L_4g_ms + R_4g_m + s^2\left(C_1L_1R_4g_m + C_4L_4R_4g_m\right)}{C_1C_4C_LL_1L_4R_4g_ms^5 + 2g_m + s^4\left(C_1C_4L_4L_4R_4 + 2C_1C_4L_1L_4g_m + C_1C_LL_1L_4g_m\right) + s^3\left(2C_1C_4L_4 + C_1C_LL_1R_4g_m + C_1C_LL_4R_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_1g_m + 2C_4L_4g_m + C_LL_4g_m\right) + s^2\left(C_1C_LR_4 + C_4C_LL_4R_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_4R_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_4R_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_4R_4g_m\right) + s^2\left(C_1C_LR_4 + 2C_1L_4
10.520 INVALID-ORDER-520 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 C_{1}C_{4}L_{1}L_{4}R_{4}R_{L}g_{m}s^{4} + C_{1}L_{1}L_{4}R_{L}g_{m}s^{3} + L_{4}R_{L}g_{m}s + R_{4}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m} + C_{4}L_{4}R_{4}R_{L}g_{m}\right)
10.521 INVALID-ORDER-521 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}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_1L_4R_4R_Lg_ms^5 + R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_1C_LL_1L_4R_Lg_m\right) + s^3\left(C_1C_LL_1R_4R_Lg_m + C_4L_4R_4g_m + C
10.522 INVALID-ORDER-522 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}, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_2g_ms^6 + C_1C_LL_1L_4L_2g_ms^5 + L_4g_ms + R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_4C_LL_4L_LR_4g_m\right) + s^3\left(C_1L_1L_4g_m + C_LL_4L_Lg_m\right) + s^2\left(C_1L_1R_4g_m + C_4L_4R_4g_m + C_4L_4L_4g_m\right) + s^2\left(C_1L_1R_4g_m + C_4L_4L_4g_m\right) + s^2\left(C_1L_4R_4g_m + C_4L_4R_4g_m\right) + s^2\left(C_1L_4R_4
10.523 INVALID-ORDER-523 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
 C_{1}C_{4}L_{1}L_{4}L_{L}R_{4}g_{m}s^{5} + C_{1}L_{1}L_{4}L_{L}g_{m}s^{4} + L_{4}L_{L}g_{m}s^{2} + L_{L}R_{4}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}R_{4}g_{m} + C_{4}L_{4}L_{L}R_{4}g_{m}\right)
H(s) = \frac{C_1C_4L_1L_4L_2g_{m}s^6 + R_4g_{m} + s^5\left(C_1C_4C_LL_4L_2g_{m} + C_1C_LL_4L_2g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + 2C_1C_4L_4L_4R_4g_{m} + 2C_1C_4L_4L_4R_4g_{m} + 2C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + 2C_1C_4L_4L_4R_4g_{m} + 2C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + 2C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + 2C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4L_4R_4g_{m} + s^5\left(C_1C_4L_4R_4g_{m} + s^5c_1C_4L_4R_4g_{m} + s^5c_1C_4L_4R_4g_{m} + s^5c_1C_4L_4R_4g_{m} + s^5c_1C_4L_4R_4g_{m} + s^5
10.524 INVALID-ORDER-524 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_R_4g_ms^6 + R_4g_m + s^5\left(C_1C_4C_LL_1L_4R_4g_m + C_1C_LL_1L_4R_4g_m + C_1C_LL_1L_4R_4
10.525 INVALID-ORDER-525 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
 C_1C_4L_1L_4L_LR_4R_Lg_ms^5 + C_1
H(s) = \frac{1}{C_1 C_4 C_L L_1 L_4 L_L R_4 R_L g_m s^6 + R_4 R_L g_m + s^5 \left(C_1 C_4 C_L L_4 L_L R_4 R_L + C_1 C_4 L_1 L_4 L_L R_4 g_m + C_1 C_L L_1 L_4 L_L R_4 g_m + C_1 C_4 L_4 L_L R_4 R_L g_m + C_1 C_4 L_4 L_L R_4
10.526 INVALID-ORDER-526 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
 C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}s^{6} + R_{4}R_{L}g_{m} + s^{5}\left(C_{1}C_{4}L_{1}L_{4}L_{L}R_{4}g_{m} + C_{1}C_{L}L_{1}L_{4}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{4}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{2}R_{4}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{2}R_{4}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{4}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{L}g_{m} right) + s^{4}\left(C_{1}C_{4}L_{1}L
H(s) = \frac{C_1C_4C_LL_1L_4L_LR_4R_Lg_ms^6 + R_4R_Lg_m + s^3\left(C_1C_4L_1L_4L_LR_4g_m + C_1C_LL_1L_4L_LR_4g_m + C_1C_LL_1L_4L_4L_4g_m + C_1C_LL_4L_4L_4R_4g_m + C_1C_LL_4L_4R_4g_m + C_1C_LL_4L_4R_4g_m + C_1C_LL_4L_4L_4R_4g_m + C_1C_LL_4L_4R_4g_m + C_1C_LL_4L_4L_4R_4g_m + C_1C_LL_4L_4L_4R_4g_m + C_
10.527 INVALID-ORDER-527 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 C_1C_4C_LL_1L_4L_LR_4R_Lg_ms^6 + C_1C_LL_1L_4L_LR_Lg_m
 \frac{1}{R_4 g_m + 2 R_L g_m + s^6 \left(C_1 C_4 C_L L_1 L_4 L_L R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_L g_m \right) + s^5 \left(C_1 C_4 C_L L_1 L_4 R_L g_m + C_1 C_4 L_L L_L R_L + C_1 C_L L_1 L_4 L_L R_L g_m \right) + s^4 \left(C_1 C_4 C_L L_4 L_4 R_4 R_L + C_1 C_4 L_
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 $H(s) = \frac{C_1C_4L_1L_4R_4R_Lg_ms^4 + C_1L_1L_4R_Lg_ms^3 + L_4R_Lg_ms + R_4R_Lg_m + s^2\left(C_1L_1R_4R_Lg_m + C_4L_4R_4g_m + C_4L_4R_4g_m\right)}{R_4g_m + 2R_Lg_m + s^4\left(C_1C_4L_1L_4R_4g_m + 2C_1C_4L_1L_4R_Lg_m\right) + s^3\left(C_1C_4L_4R_4 + 2C_1C_4L_4R_4 + 2C_1C_4L_4R_4\right) + s^2\left(C_1L_1R_4g_m + 2C_1L_1R_Lg_m + C_4L_4R_4g_m + 2C_4L_4R_4g_m\right) + s^2\left(C_1L_1R_4g_m + 2C_4L_4R_4g_m + 2C_4L_4R_4g_m\right) + s^2\left(C_4L_4R_4g_m + 2C_4L_4R_4g_m + 2C_4L_$ 

10.518 INVALID-ORDER-518  $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$ 

10.519 INVALID-ORDER-519  $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_1 s}\right)$ 

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10.528 INVALID-ORDER-528 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \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}, \infty, R_L\right)
 H(s) = \frac{C_{1}C_{4}L_{1}L_{4}R_{4}g_{m}s^{4} + R_{4}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m} + C_{4}L_{4}R_{4}g_{m} + C_{4}L_{4}R_{4}g_{m}\right)}{R_{4}g_{m} + 2R_{L}g_{m} + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{4}g_{m} + 2C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right) + s^{3}\left(2C_{1}C_{4}L_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}L_{4}R_{L}\right) + s^{2}\left(2C_{1}C_{4}R_{4}R_{L} + C_{1}L_{1}R_{4}g_{m} + 2C_{1}L_{1}R_{L}g_{m} + C_{4}L_{4}R_{L}g_{m}\right) + s\left(C_{1}R_{4} + 2C_{1}R_{L} + 2C_{4}R_{4}R_{L}g_{m}\right)}{R_{4}g_{m} + 2R_{L}g_{m} + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{4}g_{m} + 2C_{1}C_{4}L_{1}R_{4}R_{L}g_{m}\right) + s\left(C_{1}R_{4} + 2C_{1}R_{L}R_{L}g_{m}\right) 10.529 INVALID-ORDER-529 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}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_4L_1L_4R_4g_ms^4 + R_4g_m + s^2\left(C_1L_1R_4g_m + C_4L_4R_4g_m\right)}{C_1C_4C_LL_1L_4R_4g_ms^5 + 2g_m + s^4\left(C_1C_4L_LL_4R_4 + 2C_1C_4L_1L_4g_m\right) + s^3\left(2C_1C_4L_1R_4g_m + 2C_1C_4L_4 + C_1C_LL_1R_4g_m + C_4C_LL_4R_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_LR_4 + 2C_1L_1g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_LR_4 + 2C_1L_1g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + C_1C_LR_4 + 2C_1L_1g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_1L_1g_m + 2C_4L_4g_m\right) + s^2\left(2C_1C_4R_4 + 2C_1L_4R_4g_m\right) + s^2\left(2C_1
10.530 INVALID-ORDER-530 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.531 INVALID-ORDER-531 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}, \infty, R_L + \frac{1}{C_L s}\right)
 C_{1}C_{4}C_{L}L_{1}L_{4}R_{4}R_{L}g_{m}s^{5} + C_{1}C_{4}L_{1}L_{4}R_{4}g_{m}s^{4} + C_{L}R_{4}R_{L}g_{m}s + R_{4}g_{m} + s^{3}\left(C_{1}C_{L}L_{1}R_{4}R_{L}g_{m} + C_{4}C_{L}L_{4}R_{4}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + C_{4}L_{1}L_{4}R_{4}g_{m} + C_{4}L_{1}L_{4}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + C_{4}L_{1}L_{4}R_{4}g_{m} + C_{4}L_{1}L_{4}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + C_{4}L_{1}L_{4}R_{4}
 \frac{C_{1}C_{4}C_{L}L_{1}L_{4}R_{4}g_{m}s^{5}+C_{1}C_{4}L_{1}L_{4}R_{4}g_{m}s^{4}+C_{L}R_{4}R_{L}g_{m}s+R_{4}g_{m}+s^{5}\left(C_{1}C_{L}L_{1}R_{4}R_{L}g_{m}+C_{4}C_{L}L_{4}R_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{4}C_{L}L_{4}R_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{L}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{1}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}R_{1}
10.532 INVALID-ORDER-532 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}, \infty, L_L s + \frac{1}{C_L s}\right)
 C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}g_{m}s^{6} + R_{4}g_{m} + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{4}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{4}g_{m} + C_{4}C_{L}L_{4}L_{L}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + C_{4}L_{4}R_{4}g_{m} + C_{L}L_{L}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + C_{4}L_{4}R_{4}g_{m} + C_{L}L_{L}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + C_{4}L_{4}R_{4}g_{m} + C_{4}L_{L}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + C_{4}L_{4}R_{4}g_{m} + C_{4}L_{L}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} + C_{4}L_{4}R_{4}g_{m} + C_{4}L_{4}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{4}g_{m} right) + s^{2}\left(C_{1}L_{1}R_{4}g
H(s) = \frac{C_1C_4C_LL_1L_4K_4g_m + s^* (C_1C_4L_1L_4K_4g_m + C_1C_LL_1L_4K_4g_m + C_4C_LL_4L_4K_4g_m + C_4L_4K_4g_m + C_4L_4K_
10.533 INVALID-ORDER-533 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
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10.534 INVALID-ORDER-534 
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_1C_4C_LL_1L_4L_LR_4g_ms^0 + C_1C_4C_LL_1L_4R_4g_ms^0 + C_LR_4R_Lg_ms^0 + C_LR_4R_Lg_ms + R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_1C_4C_LL_1L_4R_4g_m + C_1C_4C_LL_1L_4R_4g_m + C_1C_4C_LL_1L_4R_4g_m + C_1C_4C_LL_4R_4 + C$ 

10.535 INVALID-ORDER-535 
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

 $C_1C_4L_1L_4L_LR_4R_Lg_ms^5 + L_LR_4R_Lg_ms + s^3$  (C  $H(s) = \frac{ \frac{ C_1 C_4 L_1 L_4 L_L R_4 R_L g_m s^6 + R_4 R_L g_m s$ 

10.536 INVALID-ORDER-536 
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

 $C_1C_4C_LL_1L_4L_LR_4R_Lg_ms^6 + C_1C_4L_1L_4R_Lg_ms^6$  $H(s) = \frac{\sum_{1 \le 4 \le L} \sum_{1  

10.537 INVALID-ORDER-537 
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{1}{R_4 g_m + 2 R_L g_m + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_4 R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_4 R_4 R_L + 2 C_1 C_4 C_L L_4 L_4 R_4 R_L + 2 C_1 C_4 C_L L_4 L_4 R_4 R_L + 2 C_1 C_4 C_L L_4 L_4 R_4 R_L + 2 C_1 C_4 C_L L_4 L_4 R_4 R_L + 2 C_1 C_4 C_L L_4 L_4 R_4 R_L + 2 C_1 C_4 C_L L_4 L_4 R_4 R_L + 2 C_1 C_4 C_L  

**10.538** INVALID-ORDER-538  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{L_1 R_4 g_m s}{C_1 C_L L_1 R_4 s^3 + s^2 \left(2 C_1 L_1 + C_L L_1 R_4 g_m\right) + s \left(C_L R_4 + 2 L_1 g_m\right) + 2}$$

**10.539** INVALID-ORDER-539  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ 

$$H(s) = \frac{L_1 R_4 R_L g_m s}{C_1 C_L L_1 R_4 R_L s^3 + R_4 + 2R_L + s^2 \left( C_1 L_1 R_4 + 2C_1 L_1 R_L + C_L L_1 R_4 R_L g_m \right) + s \left( C_L R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m \right)}$$

**10.540** INVALID-ORDER-540  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$ 

**10.541** INVALID-ORDER-541  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{C_L L_1 L_L R_4 g_m s^3 + L_1 R_4 g_m s}{2C_1 C_L L_1 L_L s^4 + s^3 \left(C_1 C_L L_1 R_4 + 2C_L L_1 L_L g_m\right) + s^2 \left(2C_1 L_1 + C_L L_1 R_4 g_m + 2C_L L_L\right) + s \left(C_L R_4 + 2L_1 g_m\right) + 2C_L L_1 L_2 g_m + 2C_L L_1$$

**10.542** INVALID-ORDER-542  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ 

$$H(s) = \frac{L_1 L_L R_4 g_m s^2}{C_1 C_L L_1 L_L R_4 s^4 + R_4 + s^3 \left(2 C_1 L_1 L_L + C_L L_1 L_L R_4 g_m\right) + s^2 \left(C_1 L_1 R_4 + C_L L_L R_4 + 2 L_1 L_L g_m\right) + s \left(L_1 R_4 g_m + 2 L_L\right)}$$

**10.543** INVALID-ORDER-543  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 

**10.544** INVALID-ORDER-544  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 

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

**10.545** INVALID-ORDER-545  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

$$H(s) = \frac{C_L L_1 L_L R_4 R_L g_m s^3 + L_1 L_L R_4 g_m s^2 + L_1 R_4 R_L g_m s}{R_4 + 2 R_L + s^4 \left( C_1 C_L L_1 L_L R_4 + 2 C_1 C_L L_1 L_L R_L \right) + s^3 \left( 2 C_1 L_1 L_L + C_L L_1 L_L R_4 g_m + 2 C_L L_1 L_L R_L g_m \right) + s^2 \left( C_1 L_1 R_4 + 2 C_1 L_1 R_4 + 2 C_1 L_L $

$$H(s) = \frac{L_1 R_L g_m s}{s^3 \left(2 C_1 C_4 L_1 R_L + C_1 C_L L_1 R_L\right) + s^2 \left(C_1 L_1 + 2 C_4 L_1 R_L g_m + C_L L_1 R_L g_m\right) + s \left(2 C_4 R_L + C_L R_L + L_1 g_m\right) + 1}$$

$$\textbf{10.549} \quad \textbf{INVALID-ORDER-549} \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ R_L + \frac{1}{C_L s}\right)$$
 
$$\frac{C_L L_1 R_L g_m s + L_1 g_m}{2C_1 C_4 C_L L_1 R_L s^3 + 2C_4 + C_L + s^2 \left(2C_1 C_4 L_1 + 2C_4 C_L L_1 R_L g_m\right) + s \left(2C_4 C_L R_L + 2C_4 L_1 g_m + C_L L_1 g_m\right) }$$

$$\textbf{10.550} \quad \textbf{INVALID-ORDER-550} \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \infty, \ \infty, \ \frac{1}{C_4 s}, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$$
 
$$H(s) = \frac{C_L L_1 L_L g_m s^2 + L_1 g_m}{2C_1 C_4 C_L L_1 L_L s^4 + 2C_4 C_L L_1 L_L g_m s^3 + 2C_4 + C_L + s^2 \left(2C_1 C_4 L_1 + C_1 C_L L_1 + 2C_4 C_L L_L\right) + s \left(2C_4 L_1 g_m + C_L L_1 g_m\right) }$$

$$\textbf{10.551} \quad \textbf{INVALID-ORDER-551} \ Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \ \infty, \ \infty, \ \frac{1}{C_{4}s}, \ \infty, \ \frac{L_{L}s}{C_{L}L_{L}s^{2}+1}\right)$$
 
$$H(s) = \frac{L_{1}L_{L}g_{m}s^{2}}{L_{1}g_{m}s + s^{4}\left(2C_{1}C_{4}L_{1}L_{L} + C_{1}C_{L}L_{1}L_{L}\right) + s^{3}\left(2C_{4}L_{1}L_{L}g_{m} + C_{L}L_{1}L_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1} + 2C_{4}L_{L} + C_{L}L_{L}\right) + 1$$

10.552 INVALID-ORDER-552 
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L g_m s^2 + C_L L_1 R_L g_m s + L_1 g_m}{2C_1 C_4 C_L L_1 L_L s^4 + 2C_4 + C_L + s^3 \left(2C_1 C_4 C_L L_1 R_L + 2C_4 C_L L_1 L_L g_m\right) + s^2 \left(2C_1 C_4 L_1 + C_1 C_L L_1 + 2C_4 C_L L_1 R_L g_m + 2C_4 C_L L_L\right) + s \left(2C_4 C_L R_L + 2C_4 L_1 g_m + C_L L_1 g_m\right)}$$

10.553 INVALID-ORDER-553 
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

**10.554** INVALID-ORDER-554 
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$$

**10.555** INVALID-ORDER-555 
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

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

**10.556** INVALID-ORDER-556  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)$  $H(s) = \frac{L_1 R_4 R_L g_m s}{2C_1 C_4 L_1 R_4 R_L s^3 + R_4 + 2R_L + s^2 \left(C_1 L_1 R_4 + 2C_1 L_1 R_L + 2C_4 L_1 R_4 R_L g_m\right) + s \left(2C_4 R_4 R_L + L_1 R_4 g_m + 2L_1 R_L g_m\right)}$ **10.557** INVALID-ORDER-557  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$ 10.558 INVALID-ORDER-558  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$  $H(s) = \frac{L_1 R_4 R_L g_m s}{R_4 + 2 R_L + s^3 \left(2 C_1 C_4 L_1 R_4 R_L + C_1 C_L L_1 R_4 R_L\right) + s^2 \left(C_1 L_1 R_4 + 2 C_1 L_1 R_L + 2 C_4 L_1 R_4 R_L g_m + C_L L_1 R_4 R_L g_m\right) + s \left(2 C_4 R_4 R_L + C_L R_4 R_L + L_1 R_4 g_m + 2 L_1 R_L g_m\right)}{R_4 + 2 R_L + s^3 \left(2 C_1 C_4 L_1 R_4 R_L + C_1 C_L L_1 R_4 R_L\right) + s^2 \left(C_1 L_1 R_4 + 2 C_1 L_1 R_L + 2 C_4 L_1 R_4 R_L g_m + C_L L_1 R_4 R_L g_m\right) + s \left(2 C_4 R_4 R_L + C_1 R_4 R_L + L_1 R_4 g_m + 2 L_1 R_4 g_m\right)}$ **10.559** INVALID-ORDER-559  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$  $H(s) = \frac{C_L L_1 R_4 R_L g_m s^2 + L_1 R_4 g_m s}{2C_1 C_4 L_L R_4 R_L s^4 + s^3 \left(2C_1 C_4 L_1 R_4 + C_1 C_L L_1 R_4 + 2C_4 C_L L_1 R_4 R_L g_m\right) + s^2 \left(2C_1 L_1 + 2C_4 C_L R_4 R_L + 2C_4 L_1 R_4 g_m + C_L L_1 R_4 g_m + 2C_L L_1 R_4 g_m\right) + s \left(2C_4 R_4 + C_L R_4 + 2C_L R_4 + 2C_L R_4 R_L + 2C_4 R_4 R$ **10.560** INVALID-ORDER-560  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$ **10.561** INVALID-ORDER-561  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$  $H(s) = \frac{L_1 L_L R_4 g_m s^2}{R_4 + s^4 \left(2 C_1 C_4 L_1 L_L R_4 + C_1 C_L L_1 L_L R_4\right) + s^3 \left(2 C_1 L_1 L_L + 2 C_4 L_1 L_L R_4 g_m + C_L L_1 L_L R_4 g_m\right) + s^2 \left(C_1 L_1 R_4 + 2 C_4 L_L R_4 + C_L L_L R_4 + 2 L_1 L_L g_m\right) + s \left(L_1 R_4 g_m + 2 L_L\right)}$ **10.562** INVALID-ORDER-562  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$  $H(s) = \frac{C_L L_1 L_L R_4 g_m s^3 + C_L L_1 R_4 R_L g_m s^2 + L_1 R_4 g_m s}{2C_1 C_4 C_L L_1 L_L R_4 s^5 + s^4 \left(2C_1 C_4 C_L L_1 R_4 R_L + 2C_1 C_L L_1 L_L R_4 g_m\right) + s^3 \left(2C_1 C_4 L_1 R_4 + C_1 C_L L_1 R_4 + 2C_1 C_L L_1 R_4 R_L g_m + 2C_4 C_L L_1 L_L g_m\right) + s^2 \left(2C_1 L_1 + 2C_4 C_L L_1 R_4 g_m + C_L L_1 R_4 g_m + 2C_L L_1 R_4 g_m + 2C_L L_1 R_4 g_m\right) + s^2 \left(2C_1 L_1 + 2C_4 C_L L_1 R_4 R_L + 2C_4 C_L$ 10.563 INVALID-ORDER-563  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_1 L_1 R_1 s^2 + L_1 s + R_L}\right)$  $H(s) = \frac{L_1 L_L R_4 R_L g_m s^2}{R_4 R_L + s^4 \left(2 C_1 C_4 L_1 L_L R_4 R_L + C_1 C_L L_1 L_L R_4 R_L\right) + s^3 \left(C_1 L_1 L_L R_4 + 2 C_1 L_1 L_L R_4 R_L g_m + C_L L_1 L_L R_4 R_L g_m\right) + s^2 \left(C_1 L_1 R_4 R_L + C_L L_L R_4 R_L + L_1 L_L R_4 g_m + 2 L_1 L_L R_4 g_m\right) + s \left(L_1 R_4 R_L g_m + L_L R_4 R_L + 2 L_L R_4 R_L + C_L L_L R_4 R_L + L_1 L_L R_4 g_m + 2 L_1 L_L R_4 R_L + 2 L_$ 10.564 INVALID-ORDER-564  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$  $H(s) = \frac{C_L L_1 L_L R_4 R_L g_m s^3 + L_1 L_L R_4 R_L g_m s^3}{2 C_1 C_4 L_1 L_L R_4 R_L s^5 + R_4 + 2 R_L + s^4 \left(2 C_1 C_4 L_1 L_L R_4 + C_1 C_L L_1 L_L R_4 R_L g_m\right) + s^3 \left(2 C_1 C_4 L_1 L_L R_4 R_L + 2 C_4 L_L L_L R_4 R_L + 2 C_4 L_L L_L R_4 g_m + C_L L_1  10.565 INVALID-ORDER-565  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$  $C_L L_1 L_L R_4 R_L g_m s^3 + L_1 R_4 R_L g_m s$ 

$$10.566 \quad \text{INVALID-ORDER-566} \ Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \ \infty, \ \infty, \ R_{4} + \frac{1}{C_{4}s}, \ \infty, \ R_{L}\right)$$
 
$$H(s) = \frac{C_{4}L_{1}R_{4}R_{L}g_{m}s^{2} + L_{1}R_{L}g_{m}s}{s^{3}\left(C_{1}C_{4}L_{1}R_{4} + 2C_{1}C_{4}L_{1}R_{L}\right) + s^{2}\left(C_{1}L_{1} + C_{4}L_{1}R_{4}g_{m} + 2C_{4}L_{1}R_{L}g_{m}\right) + s\left(C_{4}R_{4} + 2C_{4}R_{L} + L_{1}g_{m}\right) + 1}$$
 
$$10.567 \quad \text{INVALID-ORDER-567} \ Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \ \infty, \ \infty, \ R_{4} + \frac{1}{C_{4}s}, \ \infty, \ \frac{1}{C_{L}s}\right)$$
 
$$H(s) = \frac{C_{4}L_{1}R_{4}g_{m}s + L_{1}g_{m}}{C_{1}C_{4}C_{L}L_{1}R_{4}s^{3} + 2C_{4} + C_{L} + s^{2}\left(2C_{1}C_{4}L_{1} + C_{1}C_{L}L_{1} + C_{4}C_{L}L_{1}R_{4}g_{m}\right) + s\left(C_{4}C_{L}R_{4} + 2C_{4}L_{1}g_{m} + C_{L}L_{1}g_{m}\right)}$$

**10.568** INVALID-ORDER-568  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ 

$$H(s) = \frac{C_4 L_1 R_4 R_L g_m s^2 + L_1 R_L g_m s}{C_1 C_4 C_L L_1 R_4 R_L s^4 + s^3 \left(C_1 C_4 L_1 R_4 + 2 C_1 C_4 L_1 R_L + C_4 C_L L_1 R_4 R_L g_m\right) + s^2 \left(C_1 L_1 + C_4 C_L R_4 R_L + C_4 L_1 R_4 g_m + 2 C_4 L_1 R_L g_m + C_L L_1 R_L g_m\right) + s \left(C_4 R_4 + 2 C_4 R_L + C_L R_L + L_1 g_m\right) + 1}$$

**10.569** INVALID-ORDER-569  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{C_4C_LL_1R_4R_Lg_ms^2 + L_1g_m + s\left(C_4L_1R_4g_m + C_LL_1R_Lg_m\right)}{2C_4 + C_L + s^3\left(C_1C_4C_LL_1R_4 + 2C_1C_4C_LL_1R_L\right) + s^2\left(2C_1C_4L_1 + C_1C_LL_1 + C_4C_LL_1R_4g_m + 2C_4C_LL_1R_Lg_m\right) + s\left(C_4C_LR_4 + 2C_4C_LR_L + 2C_4L_1g_m + C_LL_1g_m\right)}$$

**10.570** INVALID-ORDER-570  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{C_4C_LL_1L_LR_4g_ms^3 + C_4L_1R_4g_ms + C_LL_1L_Lg_ms^2 + L_1g_m}{2C_1C_4C_LL_1L_Ls^4 + 2C_4 + C_L + s^3\left(C_1C_4C_LL_1R_4 + 2C_4C_LL_1L_Lg_m\right) + s^2\left(2C_1C_4L_1 + C_1C_LL_1 + C_4C_LL_1R_4g_m + 2C_4C_LL_L\right) + s\left(C_4C_LR_4 + 2C_4L_1g_m + C_LL_1g_m\right)}$$

10.571 INVALID-ORDER-571  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ 

$$H(s) = \frac{C_4 L_1 L_L R_4 g_m s^3 + L_1 L_L g_m s^2}{C_1 C_4 C_L L_1 L_L R_4 s^5 + s^4 \left(2 C_1 C_4 L_1 L_L + C_1 C_L L_1 L_L + C_4 C_L L_1 L_L R_4 g_m\right) + s^3 \left(C_1 C_4 L_1 L_L R_4 + C_4 C_L L_L R_4 + 2 C_4 L_1 L_L g_m + C_L L_1 L_L g_m\right) + s^2 \left(C_1 L_1 + C_4 L_1 R_4 g_m + 2 C_4 L_L + C_L L_L\right) + s \left(C_4 R_4 + L_1 g_m\right) + 1 C_4 C_4 L_1 L_1 R_4 g_m + C_4 L_1 L_2 R_4 g_m + C_4 L_1 L_2 R_4 g_m + C_4 L_1 L_2 R_4 g_m + C_4 L_2 L_4 $

10.572 INVALID-ORDER-572  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{C_4C_LL_1L_LR_4g_ms^3 + L_1g_m + s^2\left(C_4C_LL_1R_4R_Lg_m + C_LL_1L_Lg_m\right) + s\left(C_4L_1R_4g_m + C_LL_1R_Lg_m\right)}{2C_1C_4C_LL_1L_Ls^4 + 2C_4 + C_L + s^3\left(C_1C_4C_LL_1R_4 + 2C_4C_LL_1L_Lg_m\right) + s^2\left(2C_1C_4L_1 + C_4C_LL_1R_4g_m + 2C_4C_LL_1R_Lg_m + 2C_4C_LL_1\right) + s\left(C_4C_LR_4 + 2C_4C_LR_4 + 2C_4C_LR_4 + 2C_4C_LR_4\right)}$$

10.573 INVALID-ORDER-573  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 

$$H(s) = \frac{C_4 L_1 L_L R_4 R_L g_m s^3 + L_1 L_L R_L g_m s^2}{C_1 C_4 C_L L_1 L_L R_4 R_L s^5 + R_L + s^4 \left(C_1 C_4 L_1 L_L R_4 + 2 C_1 C_4 L_1 L_L R_L + C_4 C_L L_1 L_L R_4 R_L g_m\right) + s^3 \left(C_1 C_4 L_1 R_4 R_L + C_4 L_1 L_L R_4 R_L + C_4 L_$$

10.574 INVALID-ORDER-574  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

$$H(s) = \frac{C_4C_LL_1L_LR_4R_Lg_ms^4 + L_1R_Lg_ms + s^3\left(C_4L_1L_LR_4g_m + C_LL_1L_LR_4g_m + L_1L_Lg_m\right) + s^2\left(C_4L_1R_4R_Lg_m + L_1L_Lg_m\right)}{s^5\left(C_1C_4C_LL_1L_LR_4 + 2C_1C_4L_1L_LR_4\right) + s^4\left(2C_1C_4L_1L_L + C_4C_LL_1L_LR_4g_m + 2C_4C_LL_1L_LR_4\right) + s^3\left(C_1C_4L_1L_LR_4 + 2C_4C_LL_1L_LR_4\right) + s^4\left(2C_1C_4L_1L_L + C_4C_LL_1L_LR_4g_m + 2C_4C_LL_1L_LR_4\right) + s^4\left(2C_1C_4L_1L_LR_4 right) + s^4\left(2C_1C_4L_1L_1L_1R_4\right) + s^4\left(2C_1C_4L_1L_1L_1R_4\right) + s^4\left(2C_1C_4L_1L_1L_1R_4\right) + s^4\left(2C_1C_4L_1L_1L_1R_4\right) + s^4\left(2C_1C_4L_1L_1L_1R_4\right) + s^4\left(2C_1C_4L_1L_1L_1R_4\right) + s^4\left(2C_1C_4L_1L_1R_4\right) + s^4\left(2C_1C_4L_1R_4\right) + s^$$

10.575 INVALID-ORDER-575 
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_4C_LL_1L_LR_4R_Lg_ms^4 + C_4L_1R_4R_Lg_ms^2 + C_LL_1L_LR_Lg_ms^3 + L_1R_Lg_ms}{s^5\left(C_1C_4C_LL_1L_LR_4 + 2C_1C_4L_1L_LR_L\right) + s^4\left(C_1C_4C_LL_1L_LR_4 + C_1C_LL_1L_LR_4g_m + 2C_4C_LL_1L_LR_4g_m + 2C_4C_LL_1L_LR_4 + 2C_1C_4L_1R_4 + 2C_4C_LL_1R_4R_Lg_m + C_4C_LL_1R_4 + 2C_4C_LL_1R_4 + 2C_4C_$$

10.576 INVALID-ORDER-576 
$$Z(s) = \begin{pmatrix} \frac{1}{C_{11}^{(s)}(s)} & \infty & \infty & L_{12} + \frac{1}{C_{12}^{(s)}} & \infty \\ -\frac{C_{11}^{(s)}(s_{11}^{(s)}(s_{12}^{(s)}s)^{2} + s_{11}^{(s)}(s_{12}^{(s)}(s_{11}^{(s)}s)^{2} + s_{11}^{(s)}(s_{12}^{(s)}s)^{2} + s_{11}^{(s)}(s_{12}^{(s)}s)^{2} + s_{11}^{(s)}(s_{12}^{(s)}s)^{2} + s_{11}^{(s)}(s_{12}^{(s)}s)^{2} + s_{11}^{(s)}(s_{12}^{(s)}s)^{2} + s_{12}^{(s)}(s_{12}^{(s)}s)^{2} + s_{12}^{(s)}(s_{12}^{(s)}s)^{2} + s_{12}^{(s)}(s_{12}^{(s)}s)^{2} + s_{12}^{(s)}s)^{2} + s_{12}^{(s)}(s_{12}^{(s)}s)^{2} + s_{12}^{(s)}s)^{2} + s_{12}^{(s)}(s_{12}^{(s)}s)^{2} + s_{12}^{(s)}s)^{2} + s_{12}^{(s)}s^{2} + s_{12}^{(s)}s^{2} + s_{12}^{(s)}s)^{2} + s_{12}^{(s)}s^{2} + s_{12}^{(s)}s^{2} + s_{12}^{(s)}s)^{2} + s_{12}^{(s)}(s_{12}^{(s)}s)^{2} + s_{12}^{(s)}(s_{12}^{(s)}s)^{2$$

10.584 INVALID-ORDER-584  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

 $H(s) = \frac{C_4C_LL_1L_4L_Lg_ms^5 + C_4L_1L_4L_Lg_ms^4 + L_1L_Lg_ms^2 + L_1R_Lg_ms + s^3\left(C_4L_1L_4R_Lg_m + C_LL_1L_LR_Lg_m\right)}{C_1C_4C_LL_1L_4L_Ls^6 + s^5\left(2C_1C_4C_LL_1L_LR_L + C_4C_LL_1L_LL_L + C_4C_LL_1L_LR_Lg_m + C_4C_LL_1L_LR_L + C_4C_LL_1L_LR_L + C_4C_LL_1L_LR_Lg_m + C_4C_LL_1L_LR_L + C_4C_LL_1L_1L_1L_1 + C_4C_LL_1L_1L_1 + C_4C_LL_1L_1L_1 + C_4C_LL_1L_1L_1 + C_4C_LL_1L_1L_1 + C_4C_L$ 

10.585 INVALID-ORDER-585  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ 

 $C_4C_LL_1L_4L_LR_Lg_ms^5 + L_1R_Lg_ms + s^3(C_4L_1L_4R_Lg_m + C_LL_1L_LR_Lg_m)$  $H(s) = \frac{C_4 C_L L_1 L_4 L_L S_0 + s^5 \left( C_1 C_4 C_L L_1 L_4 R_L + 2 C_1 C_4 C_L L_1 L_4 R_L + C_4 C_L L_4 L_4 R_L + C_4$  **10.586** INVALID-ORDER-586  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$  $H(s) = \frac{L_1 L_4 R_L g_m s^2}{2C_1 C_4 L_1 L_4 R_L s^4 + 2R_L + s^3 \left(C_1 L_1 L_4 + 2C_4 L_1 L_4 R_L g_m\right) + s^2 \left(2C_1 L_1 R_L + 2C_4 L_4 R_L + L_1 L_4 g_m\right) + s \left(2L_1 R_L g_m + L_4\right)}$ 10.587 INVALID-ORDER-587  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)$  $H(s) = \frac{L_1 L_4 g_m s^2}{2L_1 q_m s + s^4 \left(2C_1 C_4 L_1 L_4 + C_1 C_L L_1 L_4\right) + s^3 \left(2C_4 L_1 L_4 q_m + C_L L_1 L_4 q_m\right) + s^2 \left(2C_1 L_1 + 2C_4 L_4 + C_L L_4\right) + 2}$ 10.588 INVALID-ORDER-588  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$  $H(s) = \frac{L_1 L_4 R_L g_m s^2}{2R_L + s^4 \left(2C_1 C_4 L_1 L_4 R_L + C_1 C_L L_1 L_4 R_L\right) + s^3 \left(C_1 L_1 L_4 + 2C_4 L_1 L_4 R_L g_m + C_L L_1 L_4 R_L g_m\right) + s^2 \left(2C_1 L_1 R_L + 2C_4 L_4 R_L + C_L L_4 R_L + L_1 L_4 g_m\right) + s \left(2L_1 R_L g_m + L_4\right)}{s^2 \left(2C_1 L_1 L_4 R_L + C_1 L_4 R_L + L_1 L_4 R_L\right) + s^3 \left(C_1 L_1 L_4 R_L + C_2 L_4 R_L + C_2 L_4 R_L + L_1 L_4 R_L\right)}$ **10.589** INVALID-ORDER-589  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)$ **10.590** INVALID-ORDER-590  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$ 10.591 INVALID-ORDER-591  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$  $H(s) = \frac{L_{1}L_{4}L_{L}g_{m}s^{2}}{L_{4} + 2L_{L} + s^{4}\left(2C_{1}C_{4}L_{1}L_{4}L_{L} + C_{1}C_{L}L_{1}L_{4}L_{L}\right) + s^{3}\left(2C_{4}L_{1}L_{4}L_{L}g_{m} + C_{L}L_{1}L_{4}L_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}L_{4} + 2C_{1}L_{1}L_{L} + 2C_{4}L_{4}L_{L}\right) + s\left(L_{1}L_{4}g_{m} + 2L_{1}L_{L}g_{m}\right)}{s^{2}}$ **10.592** INVALID-ORDER-592  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 10.593 INVALID-ORDER-593  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$  $H(s) = \frac{L_{1}L_{4}L_{L}R_{L}g_{m}s^{2}}{L_{4}R_{L} + 2L_{L}R_{L} + s^{4}\left(2C_{1}C_{4}L_{1}L_{4}L_{L}R_{L} + C_{1}C_{L}L_{1}L_{4}L_{L}R_{L}\right) + s^{3}\left(C_{1}L_{1}L_{4}L_{L} + 2C_{4}L_{1}L_{4}L_{L}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}L_{4}R_{L} + 2C_{4}L_{4}L_{L}R_{L} + C_{L}L_{4}L_{L}R_{L} + L_{1}L_{4}L_{L}g_{m}\right) + s\left(L_{1}L_{4}R_{L}g_{m} + 2L_{1}L_{L}R_{L}g_{m} + L_{4}L_{L}\right)}$ 10.594 INVALID-ORDER-594  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$  $C_L L_1 L_4 L_L R_L g_m s^4 + L_1 L_4 L_L g_m s^3 + L_1 L_4 R_L g_m s^2$ 10.595 INVALID-ORDER-595  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ 

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

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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, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_4 L_1 L_4 g_m s^2 + C_4 L_1 R_4 g_m s + L_1 g_m}{C_1 C_4 C_L L_1 L_4 s^4 + 2 C_4 + C_L + s^3 \left(C_1 C_4 C_L L_1 R_4 + C_4 C_L L_1 L_4 g_m \right) + s^2 \left(2 C_1 C_4 L_1 + C_1 C_L L_1 + C_4 C_L L_1 R_4 g_m + C_4 C_L L_4 \right) + s \left(C_4 C_L R_4 + 2 C_4 L_1 g_m + C_L L_1 g_m \right)}
10.598 INVALID-ORDER-598 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_4 L_1 L_4 R_L g_m s^3 + C_4 L_1 R_4 R_L g_m s^2 + L_1 R_L g_m s}{C_1 C_4 C_L L_1 L_4 R_L s^5 + s^4 \left(C_1 C_4 C_L L_1 R_4 R_L + C_1 C_4 L_1 L_4 + C_4 C_L L_1 R_4 + 2 C_1 C_4 L_1 R_L + C_4 C_L L_1 R_4 R_L g_m + C_4 C_L L_1 R_4 R_L + C_4 L_1 L_4 g_m \right) + s^2 \left(C_1 L_1 + C_4 C_L R_4 R_L + C_4 L_1 R_4 g_m + 2 C_4 L_1 R_4 g_m + C_4 L_4 R_L g_m +
10.599 INVALID-ORDER-599 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}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_4C_LL_1L_4R_Lg_ms^3 + L_1g_m + s^2\left(C_4C_LL_1R_4R_Lg_m + C_4L_1L_4g_m\right) + s\left(C_4L_1R_4g_m + C_LL_1R_Lg_m\right)}{C_1C_4C_LL_1L_4s^4 + 2C_4 + C_L + s^3\left(C_1C_4L_LL_1R_4 + 2C_1C_4L_LL_1L_4g_m\right) + s^2\left(2C_1C_4L_1 + C_1C_LL_1 + C_4C_LL_1R_4g_m + 2C_4C_LL_1\right) + s\left(C_4C_LR_4 + 2C_4C_LR_4 + 2C_4C_LR_4 + 2C_4C_LR_4\right)}
10.600 INVALID-ORDER-600 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}, \infty, L_L s + \frac{1}{C_L s}\right)
 H(s) = \frac{C_4C_LL_1L_4L_2g_ms^4 + C_4C_LL_1L_LR_4g_ms^3 + C_4L_1R_4g_ms + L_1g_m + s^2\left(C_4L_1L_4g_m + C_LL_1L_Lg_m\right)}{2C_4 + C_L + s^4\left(C_1C_4C_LL_1L_4 + 2C_1C_4C_LL_1L_L\right) + s^3\left(C_1C_4C_LL_1R_4 + C_4C_LL_1L_4g_m + 2C_4C_LL_1L_Lg_m\right) + s^2\left(2C_1C_4L_1 + C_4C_LL_1R_4g_m + C_4C_LL_1 + C_4C_LL_1R_4g_m + C_4C_LL_1\right) + s\left(C_4C_LR_4 + 2C_4L_1g_m + C_LL_1g_m\right)}
10.601 INVALID-ORDER-601 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.602 INVALID-ORDER-602 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_4C_LL_1L_4L_2g_ms^4 + L_1g_m + s^3\left(C_4C_LL_1L_4R_Lg_m + C_4C_LL_1L_LR_4g_m\right) + s^2\left(C_4C_LL_1R_4R_Lg_m + C_4L_1L_4g_m + C_LL_1L_Lg_m\right) + s\left(C_4L_1R_4g_m + C_LL_1R_4g_m + C_LL_1R_4g_m + C_LL_1R_4g_m + C_LL_1R_4g_m + C_LL_1R_4g_m\right) + s\left(C_4C_LL_1L_4C_LL_1C_LL_1C_L
10.603 INVALID-ORDER-603 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
 H(s) = \frac{-\frac{(4L_1L_4L_2R_56 + R_L + s^5(C_1C_4C_LL_1L_2R_4R_L + C_1C_4L_1L_4R_L +
10.604 INVALID-ORDER-604 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_4C_LL_1L_4L_Rg_ms^5 + L_1R_Lg_ms + s^4\left(C_4C_LL_1L_LR_4R_Lg_m + C_4L_1L_4L_Lg_m\right) + s^3\left(C_4L_1L_4R_Lg_m + C_4L_1L_LR_4g_m + C_4L_1L_1L_1R_4g_m + C_4L_1L_1R_4g_m + C_4L_1
10.605 INVALID-ORDER-605 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 C_4C_LL_1L_4L_LR_Lg_ms^5 + C_4C_LL_1L_LR_4R_Lg_ms^4 + C_4L_1R_4R_Lg_ms^2 +
H(s) = \frac{1}{C_1 C_4 C_L L_1 L_4 L_L s^6 + s^5 \left(C_1 C_4 C_L L_1 L_4 R_L + C_1 C_4 C_L L_1 L_L R_4 + 2 C_1 C_4 C_L L_1 L_L R_4 + 2 C_1 C_4 L_1 L_L R_4 R_L + C_1 C_4 L_1 L_1 R_4 R_L + C_1 C_4 L_1 R_4 R_L
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 $H(s) = \frac{C_4L_1L_4R_Lg_ms^3 + C_4L_1R_4R_Lg_ms^2 + L_1R_Lg_ms}{C_1C_4L_1L_4s^4 + s^3\left(C_1C_4L_1R_4 + 2C_1C_4L_1R_L + C_4L_1L_4g_m\right) + s^2\left(C_1L_1 + C_4L_1R_4g_m + 2C_4L_1R_Lg_m + C_4L_4\right) + s\left(C_4R_4 + 2C_4R_L + L_1g_m\right) + 1}$ 

**10.596** INVALID-ORDER-596  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)$ 

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10.606 INVALID-ORDER-606 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}, \infty, R_L\right)
 H(s) = \frac{L_1 L_4 R_4 R_L g_m s^2}{2 C_1 C_4 L_1 L_4 R_4 R_L s^4 + 2 R_4 R_L + s^3 \left(C_1 L_1 L_4 R_4 + 2 C_1 L_1 L_4 R_L + 2 C_4 L_1 L_4 R_4 R_L g_m \right) + s^2 \left(2 C_1 L_1 R_4 R_L + 2 C_4 L_4 R_4 R_L + L_1 L_4 R_4 g_m + 2 L_1 L_4 R_L g_m \right) + s \left(2 L_1 R_4 R_L g_m + L_4 R_4 + 2 L_4 R_L \right)}
10.607 INVALID-ORDER-607 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}, \infty, \frac{1}{C_L s}\right)
 10.608 INVALID-ORDER-608 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 H(s) = \frac{L_1 L_4 R_4 R_L g_m s^2}{2 R_4 R_L + s^4 \left(2 C_1 C_4 L_1 L_4 R_4 R_L + C_1 C_L L_1 L_4 R_4 R_L \right) + s^3 \left(C_1 L_1 L_4 R_4 + 2 C_1 L_1 L_4 R_4 + 2 C_4 L_1 L_4 R_4 R_L g_m + C_L L_1 L_4 R_4 R_L + C_L L_4 R_4 R_L + L_1 L_4 R_4 g_m + 2 L_1 L_4 R_4 g_m + 2 L_1 L_4 R_4 g_m + L_4 R_4 + 2 L_4 R_L \right)}
10.609 INVALID-ORDER-609 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}, \infty, R_L + \frac{1}{C_L s}\right)
 \frac{C_{L}L_{1}L_{4}R_{4}R_{L}g_{m}s^{3}+L_{1}L_{4}R_{4}g_{m}s^{2}}{2C_{1}C_{4}L_{L}L_{4}R_{4}+C_{1}C_{L}L_{1}L_{4}R_{4}+2C_{1}C_{L}L_{1}L_{4}R_{4}+2C_{1}C_{L}L_{1}L_{4}R_{L}+2C_{1}L_{1}L_{4}R_{L}+2C_{1}L_{1}L_{4}R_{2}+2C_{1}L_{1}L_{4}R_{2}+2C_{1}L_{1}L_{4}R_{4}g_{m}+C_{L}L_{1}L
10.610 INVALID-ORDER-610 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}, \infty, L_L s + \frac{1}{C_L s}\right)
10.611 INVALID-ORDER-611 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
 H(s) = \frac{L_1 L_4 L_L R_4 g_m s^2}{L_4 R_4 + 2 L_L R_4 + s^4 \left(2 C_1 C_4 L_1 L_4 L_L R_4 + C_1 C_L L_1 L_4 L_L R_4 \right) + s^3 \left(2 C_1 L_1 L_4 L_L R_4 g_m + C_L L_1 L_4 L_L R_4 g_m + C_L L_1 L_4 L_L R_4 g_m \right) + s^2 \left(C_1 L_1 L_4 R_4 + 2 C_4 L_4 L_L R_4 + C_L L_4 L_L R_4 + 2 C_4 L_4 L_L R_4 + C_L L_4 L_L R_4 + C_L L_4 L_L R_4 \right) + s^2 \left(2 C_1 L_1 L_4 L_L R_4 + C_1 L_4 L_L R_4 \right) + s^2 \left(2 C_1 L_1 L_4 L_L R_4 + C_1 L_4 L_L R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right) + s^2 \left(2 C_1 L_4 L_4 L_4 R_4 + C_1 L_4 L_4 R_4 \right)
10.612 INVALID-ORDER-612 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_4 L_L R_4 g_m s^4 + C_L L_1 L_4 R_4 R_L g_m}{2C_1 C_4 C_L L_1 L_4 L_L R_4 s^6 + 2R_4 + s^5 \left(2C_1 C_4 C_L L_1 L_4 R_4 R_L + 2C_1 C_L L_1 L_4 R_4 + C_1 C_L L_1 L_4 R_4 + C_1 C_L L_1 L_4 R_4 + 2C_1 C_L L_1 L_4 R_4 R_L
10.613 INVALID-ORDER-613 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}s^{2}}{L_{4}R_{4}R_{L} + 2L_{L}R_{4}R_{L} + s^{4}\left(2C_{1}C_{4}L_{1}L_{4}L_{L}R_{4}R_{L} + C_{1}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}\right) + s^{3}\left(C_{1}L_{1}L_{4}L_{L}R_{4} + 2C_{1}L_{1}L_{4}L_{L}R_{4}R_{L} + 2C_{1}L_{1}L_{4}L_{4}R_{4}R_{L} + 2C_{1}L_{4}L_{4}R_{4}R_{L} + 2C_{1}L_{
10.614 INVALID-ORDER-614 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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10.615 INVALID-ORDER-615  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ 

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10.618 INVALID-ORDER-618 Z(s) = \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}, \infty, \frac{R_L}{C_LR_Ls+1}\right)
 C_4L_1L_4R_4R_Lg_ms^3 + L_1L_4R_Lg_ms^2 + L_1R_4R_Lg_ms
10.619 INVALID-ORDER-619 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}, \infty, R_L + \frac{1}{C_L s}\right)
 \frac{C_{4}C_{L}L_{1}L_{4}R_{4}g_{m}s^{4}+L_{1}R_{4}g_{m}s+s^{3}\left(C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{2}\left(C_{L}L_{1}R_{4}R_{L}g_{m}+L_{1}L_{4}g_{m}\right)}{s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{4}+C_{1}C_{L}L_{1}L_{4}+C_{4}C_{L}L_{1}L_{4}R_{2}g_{m}\right)+s^{3}\left(C_{1}C_{L}L_{1}R_{4}+2C_{1}C_{L}L_{1}R_{L}+C_{4}C_{L}L_{1}L_{4}R_{L}+C_{4}C_{L}L_{1}L_{4}R_{L}\right)+s^{4}\left(2C_{1}C_{4}L_{1}L_{4}+C_{4}C_{L}L_{1}L_{4}R_{2}g_{m}+2C_{4}C_{L}L_{1}R_{4}+2C_{4}C_{L}L_{4}R_{L}+2C_{4}C_{L}L_{4}R_{L}+2C_{4}L_{1}L_{4}g_{m}+C_{L}L_{1}L_{4}g_{m}\right)+s^{2}\left(2C_{1}L_{1}+2C_{4}L_{4}+C_{L}L_{1}R_{4}g_{m}+2C_{L}L_{1}R_{4}g_{m}+2C_{L}L_{1}R_{4}R_{L}+2C_{4}C_{L}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_{4}L_{4}R_{L}+2C_
10.620 INVALID-ORDER-620 Z(s) = \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}, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_4C_LL_1L_4L_Lg_ms^5 + C_LL_1L_4L_Lg_ms^4 + L_1L_4g_ms^2 + L_1R_4g_ms + s^3\left(C_4L_1L_4R_4g_m + C_LL_1L_LR_4g_m\right)}{2C_1C_4C_LL_1L_4L_Ls^6 + s^5\left(C_1C_4C_LL_1L_4R_4 + 2C_4C_LL_1L_4L_Lg_m\right) + s^4\left(2C_1C_4L_1L_4 + C_1C_LL_1L_4 + 2C_4C_LL_1L_4R_4g_m + 2C_4C_LL_4L_L\right) + s^3\left(C_1C_LL_1R_4 + 2C_4L_1L_4g_m + C_LL_1L_4g_m + 2C_4L_1L_4g_m + 2C_4L_1L_4g_m\right) + s^2\left(2C_1L_1 + 2C_4L_4 + C_4L_1L_4R_4g_m + 2C_4L_4L_4L_4\right) + s^3\left(C_4L_4L_4L_4R_4 + 2C_4L_4L_4R_4 + 2C_4L_4L_4R_4 + 2C_4L_4L_4R_4 + 2C_4L_4L_4R_4 + 2C_4L_4L_4R_4\right) + s^3\left(C_4L_4L_4L_4R_4 + 2C_4L_4L_4L_4R_4 + 2C_4L_4L_4L_4R_4\right) + s^3\left(C_4L_4L_4L_4R_4 + 2C_4L_4L_4L_4R_4 + 2C_4L_4L_4R_4\right) + s^3\left(C_4L_4L_4L_4R_4 + 2C_4L_4L_4L_4R_4\right) + s^3\left(C_4L_4L_4L_4R_4 + 2C_4L_4L_4L_4R_4\right) + s^3\left(C_4L_4L_4L_4R_4 + 2C_4L_4L_4R_4\right) + s^3\left(C_4L_4L_4R_4 + 2C_4L_4L_4R_4\right) + s^3\left(C_4L_4R_4 + 2C_4L_4R_4\right) + s^3\left(C_4L_4R_4 + 2C_4L
10.621 INVALID-ORDER-621 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}, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right)
 C_4L_1L_4L_LR_4g_ms^4 + L_1L_4L_Lg_ms^3 + L_1L_LR_4g_ms^2
10.622 INVALID-ORDER-622 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}, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
H(s) = \frac{C_4C_LL_1L_4R_4g_ms^5 + L_1R_4g_ms + s^4\left(C_4C_LL_1L_4R_4g_m + C_LL_1L_4R_4g_m + C_LL_1L_4R
10.623 INVALID-ORDER-623 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}s^{6} + R_{4}R_{L} + s^{5}\left(C_{1}C_{4}L_{1}L_{4}L_{L}R_{4} + 2C_{1}C_{4}L_{1}L_{4}L_{L}R_{L} + C_{1}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L} 10.624 INVALID-ORDER-624 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
 C_4C_LL_1L_4L_LR_4R_Lg_ms^5 + L_1R_4R_Lg_ms + s^4(C_4L_1L_4L_LR_4g_m + C_LL_1L_4L_1R_4g_m)
H(s) = \frac{C_4C_LL_1L_4L_LR_4 + 2C_1C_4C_LL_1L_4L_LR_3 + 5(C_4C_LL_1L_4L_LR_4 + 2C_1C_4L_1L_4L_LR_4 + 2C_1C_4L_1L_4L_LR_4 + 2C_1C_4L_1L_4L_LR_4 + 2C_4C_LL_1L_4L_LR_4 + 2C_4C_LL_1L_4L_LR_4 + 2C_4C_LL_4L_LR_4 + 2C_4C_LL_4L_4L_4R_4 + 2C_4C_LL_4L_4R_4 + 2C_4C_LL_4
10.625 INVALID-ORDER-625 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 \frac{1}{R_4 + 2R_L + s^6 \left(C_1 C_4 C_L L_1 L_4 L_L R_4 + 2 C_1 C_4 C_L L_1 L_4 L_L R_L \right) + s^5 \left(C_1 C_4 C_L L_1 L_4 R_L + C_1 C_L L_1 L_4 L_L R_4 q_m + 2 C_4 C_L L_1 L_4 L_L R_4 q_m + 2 C_4 C_L L_1 L_4 R_L + C_1 C_L L_1 L_4 R_L + C_1 C_L L_1 L_4 R_L + C_1 C_L L_1 L_4 R_4 R_L
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 $H(s) = \frac{C_4 L_1 L_4 R_4 R_L g_m s^3 + L_1 L_4 R_L g_m s^2 + L_1 R_4 R_L g_m s}{R_4 + 2 R_L + s^4 \left(C_1 C_4 L_1 L_4 R_4 + 2 C_1 C_4 L_1 L_4 R_L\right) + s^3 \left(C_1 L_1 L_4 + C_4 L_1 L_4 R_2 g_m + 2 C_4 L_1 L_4 R_L g_m\right) + s^2 \left(C_1 L_1 R_4 + 2 C_1 L_1 R_L + C_4 L_4 R_4 + 2 C_4 L_4 R_L + L_1 L_4 g_m\right) + s \left(L_1 R_4 g_m + 2 L_1 R_L g_m + L_4\right)}$ 

**10.616** INVALID-ORDER-616  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, R_L\right)$ 

**10.617** INVALID-ORDER-617  $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)$ 

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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{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, R_L\right)
 H(s) = \frac{C_4 L_1 L_4 R_4 R_L g_m s^3 + L_1 R_4 R_L g_m s}{R_4 + 2 R_L + s^4 \left(C_1 C_4 L_1 L_4 R_4 + 2 C_1 C_4 L_1 L_4 R_L \right) + s^3 \left(2 C_1 C_4 L_1 R_4 R_L + C_4 L_1 L_4 R_4 g_m + 2 C_4 L_1 L_4 R_L g_m \right) + s^2 \left(C_1 L_1 R_4 + 2 C_4 L_1 R_4 R_L g_m + C_4 L_4 R_4 + 2 C_4 L_4 R_L \right) + s \left(2 C_4 R_4 R_L + L_1 R_4 g_m + 2 L_1 R_L g_m \right)}
10.627 INVALID-ORDER-627 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}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_4L_1L_4R_4g_ms^3 + L_1R_4g_ms}{C_1C_4C_LL_1L_4R_4s^5 + s^4\left(2C_1C_4L_1L_4 + C_4C_LL_1L_4R_4g_m\right) + s^3\left(2C_1C_4L_1R_4 + C_4C_LL_1R_4 + C_4C_LL_4R_4 + 2C_4L_1L_4g_m\right) + s^2\left(2C_1L_1 + 2C_4L_1R_4g_m + 2C_4L_4 + C_LL_1R_4g_m\right) + s\left(2C_4R_4 + C_LR_4 + 2L_1g_m\right) + 2C_4R_4 + C_4R_4 +
10.628 INVALID-ORDER-628 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_4 L_1 L_4 R_4 R_L g_m s^3 + L_1 R_4 R_L g_m s}{C_1 C_4 C_L L_1 L_4 R_4 R_L s^5 + R_4 + 2 R_L + s^4 \left(C_1 C_4 L_1 L_4 R_4 + 2 C_1 C_4 L_1 L_4 R_4 R_L g_m\right) + s^3 \left(2 C_1 C_4 L_1 R_4 R_L + C_1 C_L L_1 R_4 R_L + C_4 C_L L_4 R_4 R_L
10.629 INVALID-ORDER-629 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}, \infty, R_L + \frac{1}{C_L s}\right)
 \frac{C_{4}C_{L}L_{1}L_{4}R_{4}g_{m}s^{4} + C_{4}L_{1}L_{4}R_{4}g_{m}s^{3} + C_{L}L_{1}R_{4}R_{L}g_{m}s^{2} + L_{1}R_{4}g_{m}s}{s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{4} + 2C_{1}C_{4}L_{1}L_{4}R_{L} + 2C_{1}C_{4}L_{1}L_{4}R_{L} + 2C_{1}C_{4}L_{1}L_{4}R_{L} + 2C_{4}C_{L}L_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{1}R_{L} + 2C_{4}C_{L}L_{1}R_{L} + 2C_{4}C_{L}L_{1}R_{L} + 2C_{4}C_{L
10.630 INVALID-ORDER-630 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}, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_4C_LL_1L_4L_LR_4g_ms^5 + L_1R_4g_ms + s^3\left(C_4L_1L_4R_4g_m + C_LL_1L_LR_4g_m\right)}{2C_1C_4C_LL_1L_4L_Ls^6 + s^5\left(C_1C_4C_LL_1L_4R_4 + 2C_4C_LL_1L_4R_4 + 2C_4C_LL_1L_4R_4 + 2C_4C_LL_1L_4R_4g_m + 2C_4C_LL_1L_4R_4g_m + 2C_4C_LL_4L_4R_4 + 2C_4C_LL_4R_4 + 2C_4C_LL_
10.631 INVALID-ORDER-631 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.632 INVALID-ORDER-632 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_4C_LL_1L_4R_4g_ms^5 + C_4C_LL_1L_4R_4g_ms^5 + C_4C_LL_1L_4R_4g_ms
10.633 INVALID-ORDER-633 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_4L_1L_4L_LR_4R_Lg_ms^- + L_1L_LR_4R_Lg_ms^- + L_1L_LR_4R_Lg
10.634 INVALID-ORDER-634 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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10.635 INVALID-ORDER-635 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
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 $H(s) = \frac{1}{R_4 + 2R_L + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_4 + 2 C_1 C_4 C_L L_1 L_4 L_L R_4 + 2 C_1 C_4 L_L L_4 L_L R_4 + 2 C_1 C_4 L_L L_4 L_L R_4 R_L + 2 C_1 C_4 L_L L_4 L_L R_4 R_L + 2 C_1 C_4 L_L L_4 L_L R_4 R_L + 2 C_1 C_4 L_L L_4 L_L R_4 R_L + 2 C_1 C_4 L_L L_4 L_L R_4 R_L + 2 C_1 C_4 L_L L_4 L_L R_4 R_L + 2 C_1 C_4 L_L L_4 L_L R_4 R_L + 2 C_1 C_4 L_L L_4 L_L R_4 R_L + 2 C_1 C_4 L_4 L_4 L_4 R_4 R_L + 2 C_1 C_4 L_4 L_4 L_4 R_4 R_L + 2 C_1 C_4 L_4 L_4 L_4 R_4 R_L + 2 C_1 C_4 L_4 L_4 L_4 R_4 R_L + 2 C_1 C_4 L_4 L_4 L_4 R_4 R_L + 2 C_1 C_4 L_4 L_4 L_4 R_4 R_L + 2 C_1 C_4 L_4 L_4 L_4 R_4 R_L + 2 C_1 C_4 L_4$ 

**10.636** INVALID-ORDER-636  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{C_1 L_1 R_4 g_m s^2 + C_1 R_1 R_4 g_m s + R_4 g_m}{C_1 C_L L_1 R_4 g_m s^3 + 2 g_m + s^2 \left( C_1 C_L R_1 R_4 g_m + C_1 C_L R_4 + 2 C_1 L_1 g_m \right) + s \left( 2 C_1 R_1 g_m + 2 C_1 + C_L R_4 g_m \right)}$$

10.637 INVALID-ORDER-637  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ 

$$H(s) = \frac{C_1L_1R_4R_Lg_ms^2 + C_1R_1R_4R_Lg_ms + R_4R_Lg_m}{C_1C_LL_1R_4R_Lg_ms^3 + R_4g_m + 2R_Lg_m + s^2\left(C_1C_LR_1R_4R_Lg_m + C_1C_LR_4R_L + C_1L_1R_4g_m + 2C_1L_1R_Lg_m\right) + s\left(C_1R_1R_4g_m + 2C_1R_1R_Lg_m + C_1R_4 + 2C_1R_L + C_LR_4R_Lg_m\right)}$$

**10.638** INVALID-ORDER-638  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{C_1C_LL_1R_4R_Lg_ms^3 + R_4g_m + s^2\left(C_1C_LR_1R_4R_Lg_m + C_1L_1R_4g_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right)}{2g_m + s^3\left(C_1C_LL_1R_4g_m + 2C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_LR_1R_4g_m + 2C_1C_LR_1R_Lg_m + C_1C_LR_4 + 2C_1C_LR_L + 2C_1L_1g_m\right) + s\left(2C_1R_1g_m + 2C_1+C_LR_4g_m + 2C_LR_Lg_m\right)}$$

10.639 INVALID-ORDER-639  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{C_1C_LL_1L_LR_4g_ms^4 + C_1C_LL_LR_1R_4g_ms^3 + C_1R_1R_4g_ms + R_4g_m + s^2\left(C_1L_1R_4g_m + C_LL_LR_4g_m\right)}{2C_1C_LL_1L_Lg_ms^4 + 2g_m + s^3\left(C_1C_LL_1R_4g_m + 2C_1C_LL_LR_1g_m + 2C_1C_LL_L\right) + s^2\left(C_1C_LR_1R_4g_m + C_1C_LR_4 + 2C_1L_1g_m + 2C_LL_Lg_m\right) + s\left(2C_1R_1g_m + 2C_1C_LL_Rg_m\right)}$$

10.640 INVALID-ORDER-640  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ 

$$H(s) = \frac{C_1L_1L_LR_4g_ms^3 + C_1L_LR_1R_4g_ms^2 + L_LR_4g_ms}{C_1C_LL_LR_4g_ms^4 + R_4g_m + s^3\left(C_1C_LL_LR_1R_4g_m + C_1C_LL_LR_4 + 2C_1L_1L_Lg_m\right) + s^2\left(C_1L_1R_4g_m + 2C_1L_LR_1g_m + 2C_1L_L + C_LL_LR_4g_m\right) + s\left(C_1R_1R_4g_m + C_1R_4 + 2L_Lg_m\right)}$$

**10.641** INVALID-ORDER-641  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 

$$H(s) = \frac{C_1C_LL_1L_LR_4g_ms^4 + R_4g_m + s^3\left(C_1C_LL_1R_4R_Lg_m + C_1C_LL_LR_1R_4g_m\right) + s^2\left(C_1C_LR_1R_4R_Lg_m + C_1L_1R_4g_m + C_LL_LR_4g_m\right) + s\left(C_1R_1R_4g_m + C_LL_RR_4g_m\right) + s\left(C_1R_1R_4g_m + C_LL_RR_4g_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + C_LR_4g_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + C_1R_4R_Lg_m\right) + s\left(C_1R_$$

10.642 INVALID-ORDER-642  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 

$$H(s) = \frac{C_1L_1L_R_4R_Lg_ms^3 + C_1L_LR_1R_4R_Lg_ms^2 + L_LR_4R_Lg_ms}{C_1C_LL_1L_R_4R_Lg_ms^4 + R_4R_Lg_m + s^3\left(C_1C_LL_LR_1R_4R_Lg_m + C_1C_LL_LR_4R_L + C_1L_LR_4R_Lg_m + s^2\left(C_1L_1R_4R_Lg_m + C_1L_LR_4R_Lg_m + C_1L_LR_4R_Lg_m + C_1L_LR_4R_Lg_m + C_1L_LR_4R_Lg_m + s^2\left(C_1L_1R_4R_Lg_m + C_1L_LR_4R_Lg_m + c_1L_LR_4$$

10.643 INVALID-ORDER-643  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

$$H(s) = \frac{C_1C_LL_1L_LR_4R_Lg_m + s^3\left(C_1C_LL_LR_1R_4R_Lg_m + C_1L_LR_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + s^2\left(C_1L_1R_4R_Lg_m + C_1L_LR_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + s^2\left(C_1L_1R_4R_Lg_m + C_1L_LR_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + s^2\left(C_1L_1R_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + s^2\left(C_1L_1R_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + C_1L_LR_4g_m + s^2\left(C_1L_1R_4g_m + C_1L_LR_4g_m + C$$

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10.644 INVALID-ORDER-644 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_1C_LL_1R_4R_Lg_ms^4 + C_1C_LL_LR_1R_4R_Lg_ms^3 + C_1R_1R_4R_Lg_ms + R_4R_Lg_m + s^2\left(C_1L_1R_4R_Lg_m + C_LL_LR_4R_Lg_m\right)}{R_4g_m + 2R_Lg_m + s^4\left(C_1C_LL_1L_LR_4g_m + 2C_1C_LL_LR_1R_4g_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_RR_Lg_m + C_1C_LR_RR_Lg_m + C_1C_LR_RR_Lg_
10.645 INVALID-ORDER-645 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{C_1 L_1 R_L g_m s^2 + C_1 R_1 R_L g_m s + R_L g_m}{2C_1 C_4 L_1 R_L g_m s^3 + g_m + s^2 \left(2C_1 C_4 R_1 R_L g_m + 2C_1 C_4 R_L + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m + C_1 + 2C_4 R_L g_m\right)}
10.646 INVALID-ORDER-646 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{1}{C_4 s}\right)
 H(s) = \frac{C_1 L_1 g_m s^2 + C_1 R_1 g_m s + g_m}{s^3 \left(2 C_1 C_4 L_1 g_m + C_1 C_L L_1 g_m\right) + s^2 \left(2 C_1 C_4 R_1 g_m + 2 C_1 C_4 + C_1 C_L R_1 g_m + C_1 C_L\right) + s \left(2 C_4 g_m + C_L g_m\right)}
10.647 INVALID-ORDER-647 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 H(s) = \frac{C_1L_1R_Lg_ms^2 + C_1R_1R_Lg_ms + R_Lg_m}{g_m + s^3\left(2C_1C_4L_1R_Lg_m + C_1C_LL_1R_Lg_m\right) + s^2\left(2C_1C_4R_1R_Lg_m + 2C_1C_4R_L + C_1C_LR_1R_Lg_m + C_1C_LR_L + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_1 + 2C_4R_Lg_m + C_LR_Lg_m\right)}
10.648 INVALID-ORDER-648 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_LL_1R_Lg_ms^3 + g_m + s^2\left(C_1C_LR_1R_Lg_m + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_LR_Lg_m\right)}{2C_1C_4C_LL_1R_Lg_ms^4 + s^3\left(2C_1C_4C_LR_1R_Lg_m + 2C_1C_4L_1R_Lg_m + C_1C_LL_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L + 2C_4C_LR_Lg_m\right) + s\left(2C_4g_m + C_Lg_m\right)}
10.649 INVALID-ORDER-649 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_LL_1L_Lg_ms^4 + C_1C_LL_LR_1g_ms^3 + C_1R_1g_ms + g_m + s^2\left(C_1L_1g_m + C_LL_Lg_m\right)}{2C_1C_4C_LL_1L_Lg_ms^5 + s^4\left(2C_1C_4C_LL_LR_1g_m + 2C_1C_4C_LL_L\right) + s^3\left(2C_1C_4L_1g_m + C_1C_LL_1g_m + 2C_4C_LL_Lg_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L\right) + s\left(2C_4g_m + C_Lg_m\right)}
10.650 INVALID-ORDER-650 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
 H(s) = \frac{C_1L_1L_Lg_ms^3 + C_1L_LR_1g_ms^2 + L_Lg_ms}{g_m + s^4\left(2C_1C_4L_1L_Lg_m + C_1C_LL_1L_Lg_m\right) + s^3\left(2C_1C_4L_LR_1g_m + 2C_1C_4L_L + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + 2C_4L_Lg_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + 2C_4L_Lg_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + 2C_4L_Lg_m + C_4L_Lg_m\right) + s\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + 2C_4L_Lg_m + C_4L_Lg_m\right) + s\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + C_1C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + C_1C_LL_Lg_m\right) + s^2\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + C_1C_LL_Lg_m\right) + s^2\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + C_1C_LL_Lg_m\right) + s^2\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + C_1C_LL_Lg_m\right) + s^2\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1R_1g_m + C_1C_LL_Lg_m\right) + s^2\left(C_1R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1R_1g_m + C_1C_LL_Lg_m\right) + s^2\left(C_1R_1g_m + C_1C_LL_LR_1g_m\right) + s^2\left(C_1R_1g_m + C_1C_LR_1g_m\right) + s^2\left(C_1R_1g_m + C_1C_1R_1g_m\right) + s^2\left(C_1R_1g_m + C_1C_1R_1g_m\right) + s^2\left(C_1R_1g_m + C_1R_1g_m\right) 10.651 INVALID-ORDER-651 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \frac{C_{1}C_{L}L_{1}L_{L}g_{m}s^{4}+g_{m}+s^{3}\left(C_{1}C_{L}L_{1}R_{L}g_{m}+C_{1}C_{L}L_{R}g_{m}\right)+s^{2}\left(C_{1}C_{L}R_{1}R_{L}g_{m}+C_{L}L_{L}g_{m}\right)+s\left(C_{1}R_{1}g_{m}+C_{L}L_{L}g_{m}\right)+s\left(C_{1}R_{1}g_{m}+C_{L}L_{L}g_{m}\right)}{2C_{1}C_{4}C_{L}L_{1}L_{L}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}R_{1}g_{m}+2C_{1}C_{4}
10.652 INVALID-ORDER-652 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
 H(s) = \frac{C_1L_1L_LR_Lg_ms^3 + C_1L_LR_1g_ms^2 + L_LR_Lg_ms}{R_Lg_m + s^4\left(2C_1C_4L_1L_LR_Lg_m + C_1C_LL_LR_Lg_m + s^3\left(2C_1C_4L_LR_Lg_m + 2C_1C_4L_LR_Lg_m + C_1L_LR_Lg_m 10.653 INVALID-ORDER-653 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
 \frac{C_{1}C_{L}L_{1}L_{L}R_{L}g_{m}s^{4}+R_{L}g_{m}+s^{3}\left(C_{1}C_{L}L_{L}R_{1}R_{L}g_{m}+C_{1}L_{L}R_{1}g_{m}+C_{1
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10.654 INVALID-ORDER-654 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_1C_LL_1L_LR_Lg_ms^4 + C_1C_LL_LR_1R_Lg_ms^3 + C_1R_1R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_LL_LR_Lg_m\right)}{2C_1C_4C_LL_LL_LR_Lg_ms^5 + g_m + s^4\left(2C_1C_4C_LL_LR_1g_m + 2C_1C_4C_LL_LR_Lg_m\right) + s^3\left(2C_1C_4L_1R_Lg_m + C_1C_LL_LR_1g_m + C_1C_LL_LR_1g_m\right) + s^2\left(2C_1C_4R_1R_Lg_m + 2C_1C_4R_LR_Lg_m\right) + s^2\left(2C_1C_4R_1R_Lg_m\right) 10.655 INVALID-ORDER-655 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)
 H(s) = \frac{C_1L_1R_4R_Lg_ms^2 + C_1R_1R_4R_Lg_ms + R_4R_Lg_m}{2C_1C_4L_1R_4R_Lg_ms^3 + R_4g_m + 2R_Lg_m + s^2\left(2C_1C_4R_1R_4R_Lg_m + 2C_1C_4R_4R_L + C_1L_1R_4g_m + 2C_1L_1R_Lg_m\right) + s\left(C_1R_1R_4g_m + 2C_1R_1R_Lg_m + C_1R_4 + 2C_1R_L + 2C_4R_4R_Lg_m\right)}
10.656 INVALID-ORDER-656 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_1L_1R_4g_ms^2 + C_1R_1R_4g_ms + R_4g_m}{2g_m + s^3\left(2C_1C_4L_1R_4g_m + C_1C_LL_1R_4g_m\right) + s^2\left(2C_1C_4R_1R_4g_m + 2C_1C_4R_4 + C_1C_LR_1R_4g_m + C_1C_LR_4 + 2C_1L_1g_m\right) + s\left(2C_1R_1g_m + 2C_1 + 2C_4R_4g_m + C_LR_4g_m\right)}
10.657 INVALID-ORDER-657 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1s}}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 H(s) = \frac{C_1L_1R_4R_Lg_ms^2 + C_1R_1R_4R_Lg_ms + R_4R_Lg_m}{R_4g_m + 2R_Lg_m + s^3\left(2C_1C_4L_1R_4R_Lg_m + C_1C_LL_1R_4R_Lg_m\right) + s^2\left(2C_1C_4R_1R_4R_Lg_m + 2C_1C_4R_4R_L + C_1C_LR_4R_Lg_m + C_1C_LR_4R_L + C_1C_LR_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + 2C_1R_1R_4g_m + 2C_1R_1R_4g_m + 2C_1R_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + C_1R_4R_Lg_m + C_1R_4R_Lg_m + C_1R_4R_Lg_m\right) + s\left(C_1R_1R_4g_m + C_1R_4R_Lg_m + C_1R_4R_Lg_m\right) + s\left(C_1R_4R_Lg_m + C_1R_4R_Lg_m + C_1R_4R_Lg_m\right) + s\left(C_1R_4R_
10.658 INVALID-ORDER-658 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1R_4R_Lg_ms^3 + R_4g_m + s^2\left(C_1C_LR_1R_4R_Lg_m + C_1L_1R_4g_m\right) + s\left(C_1R_1R_4g_m + C_LR_4R_Lg_m\right)}{2C_1C_4C_LL_1R_4g_ms^4 + 2g_m + s^3\left(2C_1C_4C_LR_1R_4R_Lg_m + 2C_1C_4L_1R_4g_m + C_1C_LL_1R_4g_m\right) + s\left(2C_1C_4R_1R_4g_m + 2C_1C_LR_1R_4g_m + 2C_1C_LR_1R_4g_m + 2C_1C_LR_1R_4g_m + 2C_1C_LR_1R_4g_m\right) + s\left(2C_1C_4R_4R_4R_Lg_m + 2C_1C_4R_4R_4R_Lg_m + 2C_1C_4R_4R_4g_m\right) + s\left(2C_1C_4R_4R_4R_4g_m + 2C_1C_4R_4R_4g_m right) + s\left(2C_1C_4R_4R_4R_4g_m + 2C_1C_4R_4R_4g_m\right) + s\left(2C_1C_4R_4R_4g_m + 2C_1C_4R_4g_m\right) + s\left(2C_1C_4R_4R_4g_m\right) + s\left(2C_1C_4R_4R_4g_m
10.659 INVALID-ORDER-659 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)
 \frac{C_{1}C_{L}L_{1}L_{L}R_{4}g_{m}s^{4}+C_{1}C_{L}L_{L}R_{1}R_{4}g_{m}s^{3}+C_{1}R_{1}R_{4}g_{m}s+R_{4}g_{m}+s^{2}\left(C_{1}L_{1}R_{4}g_{m}+C_{L}L_{L}R_{4}g_{m}\right)}{2C_{1}C_{4}C_{L}L_{L}L_{R}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}L_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1}C_{L}R_{4}g_{m}+2C_{1
10.660 INVALID-ORDER-660 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
 H(s) = \frac{C_1L_1L_1R_4g_ms^3 + C_1L_LR_1g_ms^2 + L_LR_4g_ms}{R_4g_m + s^4\left(2C_1C_4L_1L_LR_4g_m + C_1C_LL_LR_4g_m\right) + s^3\left(2C_1C_4L_LR_1R_4g_m + 2C_1C_4L_LR_4 + C_1C_LL_LR_4g_m\right) + s^2\left(C_1L_1R_4g_m + 2C_1L_LR_4g_m + 2C_1L_LR_4g_m\right) + s\left(C_1R_1R_4g_m + C_1R_4g_m + C_1R_4g_m\right) + s\left(C_1R_1R_4g_m right) +
10.661 INVALID-ORDER-661 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 C_{1}C_{L}L_{1}L_{L}R_{4}g_{m}s^{4} + R_{4}g_{m} + s^{3}\left(C_{1}C_{L}L_{1}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{1}R_{4}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{4}R_{L}g_{m} + C_{1}L_{1}R_{4}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{4}R_{L}g_{m} + C_{1}R_{1}R_{4}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{4}R_{L}g_{m} + C_{1}R_{1}R_{4}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{2}R_{L}g_{m} + C_{1}R_{1}R_{2}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{2}R_{L}g_{m} + C_{1}R_{1}R_{2}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{2}R_{L}g_{m} + C_{1}R_{1}R_{2}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{2}R_{L}g_{m} + C_{1}R_{1}R_{2}g_{m}\right) + s^{2}\left(C_{1}C_{L}R_{1}R_{2}R_{L}g
 \frac{C_1C_LL_1L_LR_4g_ms^5 + R_4g_m + s^*(C_1C_LL_1R_4R_Lg_m + C_1C_LL_LR_1R_4g_m) + s^*(C_1C_LL_1R_4R_Lg_m + C_1L_LR_1R_4g_m) + s^*(C_1C_LL_1R_4R_Lg_m + C_1C_LL_1R_4g_m) + s^*(C_1C_LL_1R_4g_m + C_1C_LL_1R_4g_m) + s^*(C_1C_LL_1R_4g_m + C_1C_LL_1R_4g_m + C_1C_LL_1R_4g_m) + s^*(C_1C_LL_1R_4g_m + C_1C_LL_1R_4g_m + C_1C_LL_1R_4g_m + C_1C_LL_1R_4g_m) + s^*(C_1C_LL_1R_4g_m + C_1C_LL_1R_4g_m + C
10.662 INVALID-ORDER-662 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
 C_1L_1L_LR_4R_Lg_ms^3 + C_1L_LR_1R_4R_Lg_ms^2 + L_LR_4R_Lg_ms
 \frac{C_1L_1L_LR_4R_Lg_ms^s + C_1L_LR_1R_4R_Lg_ms^s + C_1L_LR_1R_4R_Lg_ms^s}{R_4R_Lg_m + s^4\left(2C_1C_4L_1L_LR_4R_Lg_m + C_1C_LL_LR_4R_Lg_m + C_1C_LL_LR_4R_Lg_m + C_1C_LL_LR_4R_Lg_m + C_1C_LL_LR_4R_Lg_m + C_1C_LL_LR_4R_Lg_m + C_1C_LL_RR_4R_Lg_m 10.663 INVALID-ORDER-663 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $\frac{2C_1C_4C_LL_1L_LR_4R_Lg_ms^5 + R_4g_m + 2R_Lg_m + s^4\left(2C_1C_4C_LL_LR_1R_4R_Lg_m + 2C_1C_4L_LL_Rq_m + C_1C_LL_LL_Rq_m + C_1C_LL_LL_Rq_m + C_1C_LL_LR_1R_4g_m + C_1C_LL_LR_1R_1R_1g_m + C_1C_LL_1R_1R_1g_m + C_1C_LL_1R_$ 

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10.664 INVALID-ORDER-664 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 C_1C_LL_1L_LR_4R_Lg_ms^4 + C_1C_LL_LR_1R_4R_Lg_ms^3 + C_1R_1R_4R_Lg_ms + R_4
H(s) = \frac{1}{2C_{1}C_{4}C_{L}L_{L}L_{R}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{L}R_{1}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{L}R_{1}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{L}R_{1}R_{L}g_{m} + 2C_{1}
10.665 INVALID-ORDER-665 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{C_1C_4L_1R_4R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_4R_1R_4R_Lg_m + C_1L_1R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_4R_4R_Lg_m\right)}{g_m + s^3\left(C_1C_4L_1R_4g_m + 2C_1C_4L_1R_Lg_m\right) + s^2\left(C_1C_4R_1R_4g_m + 2C_1C_4R_1R_Lg_m + C_1C_4R_4 + 2C_1C_4R_L + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_1 + C_4R_4g_m + 2C_4R_Lg_m\right)}
10.666 INVALID-ORDER-666 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_4L_1R_4g_ms^3 + g_m + s^2\left(C_1C_4R_1R_4g_m + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m\right)}{C_1C_4C_LL_1R_4g_ms^4 + s^3\left(C_1C_4C_LR_1R_4g_m + C_1C_4L_1g_m + C_1C_LL_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L + C_4C_LR_4g_m\right) + s\left(2C_4g_m + C_Lg_m\right)}
10.667 INVALID-ORDER-667 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_4L_1R_4R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_4R_1R_4R_Lg_m + C_1L_1R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_4R_4R_Lg_m\right)}{C_1C_4C_LL_1R_4R_Lg_ms^4 + g_m + s^3\left(C_1C_4C_LR_1R_4R_Lg_m + C_1C_4L_1R_4g_m + C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_4R_4R_Lg_m + C_1C_4R_4R_Lg_m + C_1C_4R_4R_Lg_m + C_1C_4R_4R_Lg_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_4R_4
10.668 INVALID-ORDER-668 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_7 s}\right)
 H(s) = \frac{C_1C_4C_LL_1R_4R_Lg_ms^4 + g_m + s^3\left(C_1C_4C_LR_1R_4g_m + C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1L_1g_m + C_4C_LR_4R_Lg_m\right) + s\left(C_1R_1g_m + C_4R_4g_m + C_LR_Lg_m\right)}{s^4\left(C_1C_4C_LL_1R_4g_m + 2C_1C_4C_LR_1R_4g_m + 2C_1C_4C_LR_1R_4g_m + 2C_1C_4C_LR_1R_4g_m + C_1C_LL_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_LR_1g_m + C_1C_LR_1g_m + C_1C_LR_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_LR_1g_m + C_1C_LR_1g_m + C_1C_LR_1g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_LR_1g_m right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4C_LR_1g_
10.669 INVALID-ORDER-669 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{L}R_{4}g_{m}s^{5}+g_{m}+s^{4}\left(C_{1}C_{4}C_{L}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{L}L_{L}g_{m}\right)+s^{3}\left(C_{1}C_{4}L_{L}R_{1}g_{m}+C_{4}C_{L}L_{L}R_{4}g_{m}\right)+s^{2}\left(C_{1}C_{4}R_{1}R_{4}g_{m}+C_{1}L_{L}g_{m}\right)+s\left(C_{1}R_{1}g_{m}+C_{4}L_{L}g_{m}\right)+s\left(C_{1}R_{1}g_{m}+C_{4}R_{4}g_{m}\right)}{2C_{1}C_{4}C_{L}L_{1}L_{L}g_{m}s^{5}+s^{4}\left(C_{1}C_{4}L_{L}L_{R}g_{m}+2C_{1}C_{4}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{L}\right)+s^{3}\left(C_{1}C_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{R}g_{m}+C_{1}C_{L}L_{R}g_{m}\right)+s^{2}\left(2C_{1}C_{4}R_{1}g_{m}+2C_{1}C_{4}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}+C_{4}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_{m}+C_{1}C_{L}R_{1}g_
10.670 INVALID-ORDER-670 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_4L_1L_LR_4g_ms^4 + L_Lg_ms + s^3\left(C_1C_4L_LR_1R_4g_m + C_1L_LLg_m\right) + s^2\left(C_1L_LR_1g_m + C_4L_LR_4g_m\right)}{C_1C_4C_LL_LL_Rq_ms^5 + g_m + s^4\left(C_1C_4L_LR_1R_4g_m + C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4L_LR_1g_m + C_1C_4L_LR_1g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4L_LR_1g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4R_1R_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4R_1R_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4R_1R_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4R_1R_4g_m + C_1C_4L_LR_4g_m\right) + s^3\left(C_1C_4R_4R_4g_m\right) + s^3\left(C_1C
10.671 INVALID-ORDER-671 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{L}R_{4}g_{m}s^{5}+g_{m}+s^{4}\left(C_{1}C_{4}C_{L}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{L}L_{L}R_{1}g_{m}+C_
10.672 INVALID-ORDER-672 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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 $H(s) = \frac{C_1C_4L_1L_LR_4R_Lg_ms^4 + L_LR_Lg_ms + s^3\left(C_1C_4L_LR_1R_4R_Lg_m + C_1L_1L_LR_Lg_m\right) + s^3\left(C_1C_4L_LR_4R_Lg_ms^5 + R_Lg_m + s^4\left(C_1C_4L_LR_1R_4R_Lg_m + C_1C_4L_LR_4R_Lg_m + C_1C_4L_LR$ 

10.673 INVALID-ORDER-673  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

 $H(s) = \frac{C_1C_4C_LL_1L_LR_4R_Lg_m + s^4\left(C_1C_4C_LL_LR_1R_4R_Lg_m + C_1C_LL_LL_RL_g_m\right) + s^3\left(C_1C_4L_1R_4R_Lg_m + C_1C_4L_LR_1R_4g_m + C_1C_LL_LR_1R_4g_m + C_1C_LL_LR_1R_4g_$ 

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10.674 INVALID-ORDER-674 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 10.675 INVALID-ORDER-675 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{C_1C_4L_1L_4R_Lg_ms^4 + C_1C_4L_4R_1R_Lg_ms^3 + C_1R_1R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_4L_4R_Lg_m\right)}{C_1C_4L_1L_4g_ms^4 + g_m + s^3\left(2C_1C_4L_1R_Lg_m + C_1C_4L_4R_1g_m + C_1C_4L_4\right) + s^2\left(2C_1C_4R_1R_Lg_m + 2C_1C_4R_L + C_1L_1g_m + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_1C_4L_4R_1g_m + C_4L_4R_1g_m + C_4L_4g_m\right)}
10.676 INVALID-ORDER-676 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_4L_1L_4g_ms^4 + C_1C_4L_4R_1g_ms^3 + C_1R_1g_ms + g_m + s^2\left(C_1L_1g_m + C_4L_4g_m\right)}{C_1C_4C_LL_1L_4g_ms^5 + s^4\left(C_1C_4C_LL_4R_1g_m + C_1C_4C_LL_4\right) + s^3\left(2C_1C_4L_1g_m + C_1C_LL_1g_m + C_4C_LL_4g_m\right) + s^2\left(2C_1C_4R_1g_m + 2C_1C_4 + C_1C_LR_1g_m + C_1C_L\right) + s\left(2C_4g_m + C_Lg_m\right)}
10.677 INVALID-ORDER-677 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_4L_1L_4R_Lg_ms^4 + C_1C_4L_4R_1R_Lg_ms^3 + C_1R_1R_Lg_ms + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_4L_4R_Lg_m\right)}{C_1C_4C_LL_4R_Lg_ms^5 + g_m + s^4\left(C_1C_4C_LL_4R_1R_Lg_m + C_1C_4L_4R_Lg_m\right) + s^3\left(2C_1C_4L_1R_Lg_m + C_1C_4L_4R_1g_m + C_1C_4L_4R_Lg_m\right) + s^2\left(2C_1C_4R_1R_Lg_m + C_4C_LL_4R_Lg_m\right) + s^2\left(2C_1C_4R_1R_Lg_m + C
10.678 INVALID-ORDER-678 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_4C_LL_1L_4R_Lg_ms^5 + g_m + s^4\left(C_1C_4C_LL_4R_1R_Lg_m + C_1C_4L_1L_4g_m\right) + s^3\left(C_1C_4L_4R_1g_m + C_4C_LL_4R_Lg_m\right) + s^2\left(C_1C_LR_1R_Lg_m + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_
10.679 INVALID-ORDER-679 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 10.680 INVALID-ORDER-680 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_4L_1L_4L_Lg_ms^5 + C_1C_4L_LL_Rg_ms^4 + C_1L_LR_1g_ms^4 + C_1L_LR_1g_ms^2 + L_Lg_ms + s^3\left(C_1L_1L_Lg_m + C_4L_4L_Lg_m\right)}{C_1C_4C_LL_1L_4L_g_ms^6 + g_m + s^5\left(C_1C_4L_LL_Rg_m + C_1C_4L_LL_Rg_m + C_1C_4L_LL_Rg_m + C_4C_LL_4L_Lg_m\right) + s^3\left(C_1C_4L_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m\right) + s^3\left(C_1C_4L_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m\right) + s^3\left(C_1C_4C_LL_4L_Rg_m + C_4C_LL_4L_Rg_m + C_4C_LL_4L_
10.681 INVALID-ORDER-681 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_Lg_ms^6 + g_m + s^5\left(C_1C_4C_LL_1L_4R_Lg_m + C_1C_4L_LL_Rg_m + C_1C_LL_LL_Rg_m + C_1C_LL_LL_Rg_m + C_1C_LL_LR_Lg_m + C_1C_LL_LR_Lg_m + C_1C_LL_LR_Lg_m + C_1C_LL_LR_Lg_m + C_1C_LL_Rg_m + C_
10.682 INVALID-ORDER-682 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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 $H(s) = \frac{C_{1}C_{4}L_{1}L_{4}L_{L}R_{L}g_{m}s + C_{1}C_{4}L_{L}R_{L}R_{L}g_{m}s + C_{1}C_{4}L_{L}R_{L}g_{m}s + C_{1}C_{4$ 

 $C_1C_4L_1L_4L_LR_Lg_ms^5 + C_1C_4L_4L_LR_1R_Lg_ms^4 + C_1L_LR_1R_Lg_ms^2 + L_LR_Lg_ms^4$ 

 $H(s) = \frac{C_1C_4C_LL_1L_4L_LR_2g_ms^6 + R_Lg_m + s^5\left(C_1C_4C_LL_4L_LR_1R_Lg_m + C_1C_4L_1L_4R_Lg_m + C_1C_4L_4L_LR_1g_m + C_1C_4L_4L_4R_1g_m + C_1C_4L_4R_1g_m + C_1C_$ 

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10.684 INVALID-ORDER-684 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 10.685 INVALID-ORDER-685 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)
 H(s) = \frac{C_1L_1L_4R_Lg_ms^3 + C_1L_4R_Lg_ms^2 + L_4R_Lg_ms}{2C_1C_4L_1L_4R_Lg_ms^4 + 2R_Lg_ms + s^3\left(2C_1C_4L_4R_1R_Lg_m + 2C_1C_4L_4R_L + C_1L_1L_4g_m\right) + s^2\left(2C_1L_1R_Lg_m + C_1L_4R_1g_m + C_1L_4 + 2C_4L_4R_Lg_m\right) + s\left(2C_1R_1R_Lg_m + 2C_1R_L + L_4g_m\right)}
10.686 INVALID-ORDER-686 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}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_1L_1L_4g_ms^3 + C_1L_4R_1g_ms^2 + L_4g_ms}{2g_m + s^4\left(2C_1C_4L_1L_4g_m + C_1C_LL_1L_4g_m\right) + s^3\left(2C_1C_4L_4R_1g_m + 2C_1C_4L_4 + C_1C_LL_4R_1g_m + C_1C_LL_4\right) + s^2\left(2C_1L_1g_m + 2C_4L_4g_m + C_LL_4g_m\right) + s\left(2C_1R_1g_m + 2C_1C_4L_4R_1g_m + C_1C_LL_4\right) + s^2\left(2C_1L_1g_m + 2C_4L_4g_m + C_LL_4g_m\right) + s\left(2C_1R_1g_m + 2C_4L_4R_1g_m + C_4L_4g_m\right) + s\left(2C_1R_1g_m + 2C_4L_4g_m\right) + s\left(2C_1R_1g
10.687 INVALID-ORDER-687 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 H(s) = \frac{C_1L_1L_4R_Lg_ms^3 + C_1L_4R_Lg_ms^2 + L_4R_Lg_ms}{2R_Lg_m + s^4\left(2C_1C_4L_1L_4R_Lg_m + C_1C_LL_1L_4R_Lg_m\right) + s^3\left(2C_1C_4L_4R_1R_Lg_m + 2C_1C_4L_4R_L + C_1C_LL_4R_Lg_m + C_1L_4R_Lg_m\right) + s^2\left(2C_1L_1R_Lg_m + C_1L_4R_Lg_m + C_1L_4R_Lg_m\right) + s^2\left(2C_1L_1R_Lg_m + C_1L_4R_Lg_m\right) + s^2\left(2C
10.688 INVALID-ORDER-688 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}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_4R_Lg_ms^4 + L_4g_ms + s^3\left(C_1C_LL_4R_1R_Lg_m + C_1L_1L_4g_m\right) + s^2\left(C_1L_4R_1g_m + C_LL_4R_Lg_m\right)}{2C_1C_4C_LL_1L_4g_ms^5 + 2g_m + s^4\left(2C_1C_4L_4R_1R_Lg_m + 2C_1C_4L_4R_Lg_m + C_1C_LL_4R_1g_m + C_1C_LL_
10.689 INVALID-ORDER-689 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}, \infty, L_1 s + \frac{1}{C_1 s}\right)
 \frac{C_{1}C_{L}L_{1}L_{4}L_{L}g_{m}s^{5}+C_{1}C_{L}L_{4}L_{L}R_{1}g_{m}s^{4}+C_{1}L_{4}R_{1}g_{m}s^{2}+L_{4}g_{m}s+s^{3}\left(C_{1}L_{1}L_{4}g_{m}+C_{L}L_{4}L_{L}g_{m}\right)}{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{g}g_{m}+s^{5}\left(2C_{1}C_{4}L_{L}L_{L}L_{R}g_{m}+2C_{1}C_{L}L_{L}L_{L}g_{m}+2C_{1}C_{L}L_{L}L_{L}g_{m}+2C_{1}C_{L}L_{L}L_{L}g_{m}+2C_{1}C_{L}L_{L}L_{L}g_{m}+s^{5}\left(2C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{L}R_{1}g_{m}+2C_{1}C_{L}L_{
10.690 INVALID-ORDER-690 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
 H(s) = \frac{C_1L_1L_4L_Lg_ms^3 + C_1L_4L_Lg_ms^2 + L_4L_Lg_ms}{L_4g_m + 2L_Lg_m + s^4\left(2C_1C_4L_1L_4L_Lg_m + C_1C_LL_4L_Lg_m + s^3\left(2C_1C_4L_4L_Lg_m + 2C_1L_4L_Lg_m + C_1C_LL_4L_Lg_m + C_1L_4L_Lg_m + C_
10.691 INVALID-ORDER-691 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 C_{1}C_{L}L_{1}L_{4}L_{L}g_{m}s^{5} + L_{4}g_{m}s + s^{4}\left(C_{1}C_{L}L_{1}L_{4}R_{L}g_{m} + C_{1}C_{L}L_{4}L_{L}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{L}L_{4}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{4}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{L}L_{4}R_{1}R_{L}g_{m} + C_{1}L_{1}L_{4}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{L}L_{4}R_{L}g_{m} + C_{1}L_{1}L_{4}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{L}L_{4}R_{1}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{L}L_{4}R_{1}R_{L}g_{m}
 \frac{C_1C_LL_1L_4L_Lg_ms^6 + L_4g_ms + s - (C_1C_LL_1L_4R_Lg_m + C_1C_LL_4L_LR_1g_m) + s - (C_1C_LL_4L_LR_1g_m + C_1L_4L_LR_1g_m) + s - (C_1C_LL_4L_4R_1g_m + C_1L_4L_4R_1g_m + C_1L_4L_4R_1g_m) + s - (C_1C_LL_4L_4R_1g_m + C_1C_4L_4L_4R_1g_m + C_1C_4L_4R_1g_m + C_1C_4R_1g_m + C_
10.692 INVALID-ORDER-692 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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 $C_1C_LL_1L_4L_LR_Lg_ms^5 + L_4R_Lg_ms + s^4(C_1C_LL_4L_LR_1R_Lg_m + C_1L_1I_1R_Lg_m)$  $\frac{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{L}g_{m}s^{6}+2R_{L}g_{m}+s^{5}\left(2C_{1}C_{4}C_{L}L_{4}L_{L}R_{1}R_{L}g_{m}+2C_{1}C_{4}L_{L}L_{L}R_{L}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{1}C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{1}C_{4}L_{4$ 

 $H(s) = \frac{C_1L_1L_4L_LR_Lg_ms^3 + C_1L_4L_LR_Lg_ms^3 + C_1L_4L_LR_Lg_ms^4 + L_4L_LR_Lg_ms^4 + L_4L_LR$ 

 $C_1L_1L_4L_LR_Lg_ms^3 + C_1L_4L_LR_1R_Lg_ms^2 + L_4L_LR_Lg_ms$ 

10.693 INVALID-ORDER-693  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

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10.694 INVALID-ORDER-694 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 C_1C_LL_1L_4L_LR_Lg_ms^5 + C_1C_LL_4L_LR_1R_Lg_ms^4 + C_1L_4R_1R_Lg_ms^2 + L_4
H(s) = \frac{1}{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{L}g_{m} + s^{5}\left(2C_{1}C_{4}C_{L}L_{4}L_{L}R_{L}g_{m} + 2C_{1}C_{4}L_{L}L_{L}R_{L}g_{m} + s^{4}\left(2C_{1}C_{4}L_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}L_{L}R_{L}g_{m} + s^{4}\left(2C_{1}C_{4}L_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}L_{L}R_{L}g_{m} + s^{4}\left(2C_{1}C_{4}L_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{L}g_{m} + C_{1}C_{L}L_{L}R_
10.695 INVALID-ORDER-695 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}, \infty, R_L\right)
 H(s) = \frac{C_1C_4L_1L_4R_Lg_ms^4 + R_Lg_m + s^3\left(C_1C_4L_1R_4R_Lg_m + C_1C_4L_4R_1R_Lg_m\right) + s^2\left(C_1C_4R_1R_4R_Lg_m + C_1L_1R_Lg_m + C_4L_4R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_4R_4R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_4R_Lg_m\right) + s\left(C_1R_1R
10.696 INVALID-ORDER-696 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}, \infty, \frac{1}{C_4 s}\right)
 H(s) = \frac{C_1C_4L_1L_4g_ms^4 + g_m + s^3\left(C_1C_4L_1R_4g_m + C_1C_4L_4R_1g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1L_1g_m + C_4L_4g_m\right) + s\left(C_1R_1g_m + C_4R_4g_m\right)}{C_1C_4C_LL_1L_4g_ms^5 + s^4\left(C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m + C_1C_4L_LR_4g_m + C_1C_4L_RR_4g_m + C_1C_
10.697 INVALID-ORDER-697 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}s^{4} + R_{L}g_{m} + s^{3}\left(C_{1}C_{4}L_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}L_{4}R_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{1}L_{1}R_{L}g_{m} + C_{4}L_{4}R_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{1}R_{4}R_{L}g_{m} + C_{4}L_{4}R_{1}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{1}R_{2}R_{L}g_{m} + C_{4}R_{1}R_{2}R_{L}g_{m}\right) + s^{2}\left(C_{1}C_{4}R_{1}R_{2}R_{L}g_{m} + C_{4}R_{1}R_{2}R_{L}g_{m}\right) + s^{2}\left
H(s) = \frac{C_1C_4L_1L_4R_Lg_ms + R_Lg_m + s^* \cdot (C_1C_4L_1R_4R_Lg_m + C_1C_4L_1R_4R_Lg_m + C_1C_4L_1R_4R_Lg_m + s^* \cdot (C_1C_4L_1R_4R_Lg_m + C_1C_4L_1R_4R_Lg_m + C_1C_4L_1R_4R_Lg_m + c_1C_4L_1R_4g_m + c_1C_4L_1R
10.698 INVALID-ORDER-698 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}, \infty, R_L + \frac{1}{C_7 s}\right)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{4}R_{L}g_{m}s^{5}+g_{m}+s^{4}\left(C_{1}C_{4}C_{L}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{L}L_{4}R_{L}g_{m}+C_{1}C_{4}L_{L}R_{4}g_{m}+C_{1}C_{4}L_{L}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}R_{4}g_{
10.699 INVALID-ORDER-699 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}, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_Lg_ms^6 + g_m + s^5\left(C_1C_4C_LL_1L_LR_4g_m + C_1C_4L_LL_R_1g_m\right) + s^4\left(C_1C_4C_LL_LR_1R_4g_m + C_1C_4L_LL_R_1g_m\right) + s^4\left(C_1C_4L_LL_R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_LR_1g_m\right) + s^3\left(C_1C_4L_1R_4g_m + C_1C_4L_LR_1g_m + C_1C_LL_R_1g_m + C_1C_LL_R_1g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C_1C_4C_LL_R_1g_m\right) + s^2\left(C_1C_4R_1R_4g_m + C
10.700 INVALID-ORDER-700 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_4L_1L_4L_2g_ms^5 + L_Lg_ms + s^4\left(C_1C_4L_1L_LR_4g_m + C_1C_4L_4L_LR_1g_m\right) + s^3\left(C_1C_4L_LR_1R_4g_m + C_1L_LLg_m + C_4L_4L_LR_1g_m\right) + s^3\left(C_1C_4L_LR_1R_4g_m + C_1L_LL_2g_m + C_4L_4L_LR_1g_m\right) + s^3\left(C_1C_4L_LR_1R_4g_m + C_1C_4L_LR_1R_4g_m + C_1C_4L_LR_1R_4g_m + C_1C_4L_LR_1R_4g_m\right) + s^3\left(C_1C_4L_LR_1R_4g_m + C_1C_4L_LR_1R_4g_m + C_1C_4L_LR_1R_4g_m\right) + s^3\left(C_1C_4L_1R_4g_m + C_1C_4L_1R_4g_m + C_1C_4L_1R_4g_m\right) + s^3\left(C_1C_4L_1R_4g_m + C_
 C_{1}C_{4}L_{1}L_{4}L_{L}g_{m}s^{5} + L_{L}g_{m}s + s^{4}\left(C_{1}C_{4}L_{1}L_{L}R_{4}g_{m} + C_{1}C_{4}L_{4}L_{L}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{4}g_{m} + C_{1}L_{1}L_{L}g_{m} + C_{4}L_{4}L_{L}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{4}g_{m} + C_{1}L_{1}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{4}g_{m} + C_{1}L_{1}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{1}g_{m} + C_{1}L_{1}L_{L}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{1}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{2}g_{m}\right) + s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{1}g_{m}\right) + s^{
10.701 INVALID-ORDER-701 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
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 $H(s) = \frac{C_1C_4C_LL_1L_4L_Lg_ms^6 + g_m + s^5\left(C_1C_4C_LL_1L_4R_Lg_m + C_1C_4C_LL_1L_LR_4g_m + C_1C_4C_LL_1R_4g_m + C_1C_4C_LL_1R_4g_$ 

10.702 INVALID-ORDER-702  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 

10.703 INVALID-ORDER-703  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

 $\frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}g_{m}s^{6}+R_{L}g_{m}+s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{L}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}$ 

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10.704 INVALID-ORDER-704 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}, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 H(s) = \frac{C_1C_4C_LL_1L_4L_LR_Lg_ms^\circ + R_Lg_m + s^\circ (C_1C_4C_LL_1L_LR_4R_Lg_m + C_1C_4C_LL_1L_LR_4R_Lg_m + C_1C_4C_LL_1L_LR_4R_Lg_m + C_1C_4C_LL_1L_LR_4R_Lg_m + C_1C_4C_LL_1L_LR_4R_Lg_m + C_1C_4C_LL_4R_1R_Lg_m + C_1C_4C_LL_4R_1R_1g_m + C_1C_4C_
10.705 INVALID-ORDER-705 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}, \infty, R_L\right)
H(s) = \frac{C_1L_1L_4R_4R_Lg_ms^3 + C_1L_4R_1R_4g_Lg_ms^2 + L_4R_4g_Lg_ms}{2C_1C_4L_1L_4R_4g_Lg_ms^4 + 2R_4R_Lg_ms^4 + 2R_4R_Lg_m + s^3\left(2C_1C_4L_4R_1R_4R_Lg_m + 2C_1L_4L_4R_4g_m + 2C_1L_4R_1R_4g_m + C_1L_4R_1R_4g_m + C_1L_4R_4g_m + C_1L_4R_4g_m + 2C_1L_4R_4g_m + C_1L_4R_4g_m
10.706 INVALID-ORDER-706 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}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_1L_1L_4R_4g_ms^3 + C_1L_4R_1g_ms^2 + L_4R_4g_ms}{2R_4g_m + s^4\left(2C_1C_4L_1L_4R_4g_m + C_1C_LL_1L_4R_4g_m\right) + s^3\left(2C_1C_4L_4R_1R_4g_m + 2C_1C_4L_4R_4 + C_1C_LL_4R_4g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_4R_4g_m + 2C_1L_4R_4g_m\right) + s^2\left(2C_1L_1R_4g_m + 2C_1L_4R_4g_m\right) + s^2\left(2C_1R_4R_4g_m + 2C_1R_4R_4g_m\right) + s^2\left(2C_1R_4
10.707 INVALID-ORDER-707 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 C_1L_1L_4R_4R_Lg_ms^3 + C_1L_4R_1R_4R_Lg_ms^2 + L_4R_4R_Lg_ms
 \frac{C_1L_1L_4R_4R_Lg_ms^3 + C_1L_4R_1R_4R_Lg_ms}{2R_4R_Lg_m + s^4\left(2C_1C_4L_1L_4R_4R_Lg_m + C_1C_LL_1L_4R_4R_Lg_m + C_1C_LL_4R_4R_Lg_m
10.708 INVALID-ORDER-708 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}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{1}{2C_{1}C_{4}C_{L}L_{1}L_{4}R_{4}g_{m} + s^{4}\left(2C_{1}C_{4}C_{L}L_{4}R_{1}R_{4}g_{m} + s^{4}\left(2C_{1}C_{4}C_{L}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{4}g_{m} + C_{1}C_{L}L_{1}L_{4}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{4}g_{m} + 2C_{1}C_{L}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{L}L_{4}R_{4}R_{4}g_{m}
10.709 INVALID-ORDER-709 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}, \infty, L_L s + \frac{1}{C_L s}\right)
 C_1C_LL_1L_4L_LR_4g_ms^5 + C_1C_LL_4L_LR_1R_4g_ms^4 + C_1L_4R_1R_4g_ms^2 + L_1L_4R_1R_4g_ms^4 + C_1L_4R_1R_4g_ms^4 + C_1L_4R_1R_4g_ms
 \frac{C_1C_LL_1L_4L_LR_4g_ms + C_1C_LL_4L_LR_1R_4g_ms + C_1C_LL_4L_LR_1R_4g_ms + C_1C_LL_4L_LR_1R_4g_ms + C_1C_LL_4L_LR_1R_4g_ms + C_1C_LL_4L_LR_4g_ms + C_1C_LL_4L_LR_4g_ms + C_1C_LL_4L_LR_4g_m + C_1C
10.710 INVALID-ORDER-710 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}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1L_1L_4L_LR_4g_ms^3 + C_1L_4L_LR_4g_ms^2 + L_4L_LR_4g_ms}{L_4R_4g_m + 2L_LR_4g_m + s^4\left(2C_1C_4L_1L_4L_LR_4g_m + s^4\left(2C_1C_4L_4L_LR_4g_m + s^4\right)\right\right)\right)\right)\right)}
10.711 INVALID-ORDER-711 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \overline{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}g_{m}s^{6}+2R_{4}g_{m}+s^{5}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}R_{4}g_{m}+2C_{1}C_{4}L_{L}L_{L}R_{1}R_{4}g_{m}+2C_{1}C_{4}L_{L}L_{L}L_{L}R_{4}g_{m}+2C_{1}C_{4}L_{L}R_{4}g_{m}+2C_{1}C_{4}L_{L}R_{4}g_{m}+2C_{1}C_{4}L_{L}R_{
10.712 INVALID-ORDER-712 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}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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 $H(s) = \frac{1}{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}s^{6} + 2R_{4}R_{L}g_{m} + s^{5}\left(2C_{1}C_{4}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + 2C_{1}C_{4}L_{L}L_{L}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{L}L_{L}L_{L}R_{4}g_{m} + 2C_{1}C_{L}L_{L}L_{L}L_{L}R_{4}g_{m} + 2C_{1}C_{L}L_{L}L_{L}R_{4}g_{m} + 2C_{1}C_{L}L_{L}L_{L}R_$ 

 $\frac{C_1L_1L_4L_LR_4R_Lg_ms^s + C_1L_4L_LR_4R_Lg_ms^s + L_4L_LR_4R_Lg_ms^s + L_4L_LR_4R_Lg_ms^$ 

 $C_1L_1L_4L_LR_4R_Lq_ms^3 + C_1L_4L_LR_1R_4R_Lq_ms^2 + L_4$ 

10.713 INVALID-ORDER-713  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

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10.714 INVALID-ORDER-714 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{1}{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}s^{6} + 2R_{4}R_{L}g_{m} + s^{5}\left(2C_{1}C_{4}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{4}L_{L}R_{4}R_{L} + C_{1}C_{L}L_{4}L_{L}R_{4}g_{m} + 2C_{1}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + C_{1}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + 2C_{1}C_{L}
10.715 INVALID-ORDER-715 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}, \infty, R_L\right)
H(s) = \frac{C_1C_4L_1L_4R_4R_Lg_m s^4 + R_4R_Lg_m + s^3\left(C_1C_4L_4R_1R_4g_m + C_1L_4R_Lg_m + C_1L_4R_1g_m + C_4L_4R_4R_Lg_m + s^2\left(C_1L_1R_4R_Lg_m + C_4L_4R_4R_Lg_m + C_4L_4R_4R_Lg_m + s^2\left(C_1L_1R_4R_Lg_m + C_4L_4R_4R_Lg_m + C_4L_4R_4R_Lg_m + S_4R_Lg_m + S_4
10.716 INVALID-ORDER-716 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}, \infty, \frac{1}{C_1 s}\right)
H(s) = \frac{C_1C_4L_1L_4R_4g_ms^4 + R_4g_m + s^3\left(C_1C_4L_4R_1R_4g_m + C_1L_1L_4g_m\right) + s^2\left(C_1L_1R_4g_m + C_1L_4R_1g_m + C_4L_4R_4g_m\right) + s\left(C_1R_1R_4g_m + L_4g_m\right)}{C_1C_4C_LL_1L_4R_4g_ms^5 + 2g_m + s^4\left(C_1C_4L_4R_1R_4g_m + C_1C_4L_4R_4g_m\right) + s^3\left(2C_1C_4L_4R_1g_m + 2C_1C_4L_4R_1g_m + C_1C_LL_4R_4g_m\right) + s^2\left(C_1L_4R_4g_m + C_4L_4R_4g_m\right) + s^2\left(C_1L_4R_4g_m + C_4L_4R_4g_m\right) + s^2\left(C_1L_4R_4g_m + C_4L_4R_4g_m\right) + s^2\left(C_1L_4R_4g_m + C_4L_4R_4g_m\right) + s^2\left(C_4L_4R_4g_m right) + s^2\left(C
10.717 INVALID-ORDER-717 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 C_1C_4L_1L_4R_4R_Lg_ms^4 + R_4R_Lg_m + s^3\left(C_1C_4L_4R_1R_4R_Lg_m + C_1L_1L_4R_Lg_m\right) + s^2
H(s) = \frac{C_1C_4L_1L_4R_4R_Lg_ms + R_4R_Lg_m + S_1C_1C_4L_4R_1R_4R_Lg_m + C_1L_4R_4R_Lg_m + C_1L_4R_4
10.718 INVALID-ORDER-718 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}, \infty, R_L + \frac{1}{C_L s}\right)
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 $H(s) = \frac{C_1C_4C_LL_1L_4R_4R_Lg_m + s^4\left(C_1C_4C_LL_4R_1R_4g_m + C_1C_LL_1L_4R_Lg_m + C_1C_LL_1R_4R_Lg_m + C_1C_LL_1R_4R_Lg_m + C_1C_LL_4R_1R_Lg_m + C_1C_LL_4R_1g_m + C_1C_LL_4R_1R_Lg_m + C_1C_LL_$ 

 $H(s) = \frac{C_1C_4L_1L_4L_LR_4g_ms^5 + L_LR_4g_ms^5 + L_LR_4g_ms + s^5 (C_1C_4L_4L_LR_1R_4g_m + C_1L_4L_Lg_m) + s^4 (C_1C_4L_4L_LR_1g_m + 2C_1C_4L_4L_LR_1g_m + S_1C_4L_4L_LR_1g_m + C_1C_4L_4L_LR_1g_m) + s^4 (C_1C_4L_4L_LR_1g_m + 2C_1C_4L_4L_LR_1g_m + C_1C_4L_4L_LR_1g_m + C_1C_4L_4L_LR_1g_m) + s^4 (C_1C_4L_4L_LR_1g_m + 2C_1C_4L_4L_LR_1g_m + C_1C_4L_4L_LR_1g_m + C_1C_4L_4L_LR_1g_m) + s^4 (C_1C_4L_4L_4L_1R_4g_m + C_1C_4L_4L_4L_1R_4g_m + C_1C_4L_4L_4R_4g_m) + s^4 (C_1C_4L_4L_4L_4R_4g_m + C_1C_4L_4L_4L_4R_4g_m + C_1C_4L_4L_4R_4g_m) + s^4 (C_1C_4L_4L_4L_4R_4g_m + C_1C_4L_4L_4R_4g_m + C_1C_4L_4L_4R_4g_m) + s^4 (C_1C_4L_4L_4R_4g_m + C_1C_4L_4L_4R_4g_m + C_1C_4L_4R_4g_m) + s^4 (C_1C_4L_4L_4R_4g_m + C_1C_4L_4R_4g_m + C_1C_4L_4R_4g_m) + s^4 (C_1C_4L_4R_4g_m + C_1C_4L_4R_4g_m + C_1C_4R_4R_4g_m) + s^4 (C_1C_4R_4R_4g_m + C_1C_4R_4R_4g_m + C_1C_4R_4R_4g_m + C_1C$ 

 $\frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}g_{m}+s^{5}\left(C_{1}C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{L}L_{1}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{1}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{1}g_{m}+C_{4}C_{L}L_{4}L_{L}R_{4}g_{m}+s^{5}\left(C_{1}C_{4}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{L}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R_{4}g_{m}+C_{1}C_{L}L_{4}L_{4}L_{4}R$ 

 $\frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{R}q_{m}s^{6}+R_{4}q_{m}+s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{L}q_{m}+C_{1}C_{L}L_{L}L_{L}R_{1}q_{m}+C_{1}C_{L}L_{1}L_{4}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{L}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}q_{m}+C_{1}C_{L}L_{1}L_{2}R_{2}$ 

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

 $C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{4}R_{L}g_{m}s^{6} + R_{4}R_{L}g_{m} + s^{5}\left(C_{1}C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}R_{L}g_{m} + C_{1}C_{4}L_{1}L_{4}L_{L}R_{4}g_{m} + C_{1}C_{L}L_{1}L_{4}L_{L}R_{L}g_{m}\right)$ 

10.719 INVALID-ORDER-719  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$ 

10.720 INVALID-ORDER-720  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ 

10.721 INVALID-ORDER-721  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 

10.722 INVALID-ORDER-722  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 

10.723 INVALID-ORDER-723  $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

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10.724 INVALID-ORDER-724 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}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.725 INVALID-ORDER-725 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}, \infty, R_L\right)
 \frac{C_{1}C_{4}L_{1}L_{4}R_{4}R_{L}g_{m}s^{4}+C_{1}C_{4}L_{4}R_{1}R_{4}R_{L}g_{m}s^{3}+C_{1}R_{1}R_{4}R_{L}g_{m}+s^{2}\left(C_{1}L_{1}R_{4}R_{L}g_{m}+C_{4}L_{4}R_{4}R_{L}g_{m}\right)}{R_{4}g_{m}+2R_{L}g_{m}+s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{L}g_{m}\right)+s^{3}\left(2C_{1}C_{4}L_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{4}R_{1}R_{L}g_{m}+C_{1}C_{4}L_{4}R_{L}\right)+s^{2}\left(2C_{1}C_{4}R_{1}R_{4}R_{L}g_{m}+2C_{1}C_{4}L_{4}R_{L}g_{m}+2C_
10.726 INVALID-ORDER-726 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}, \infty, \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4L_1L_4R_4g_ms^4 + C_1C_4L_4R_1R_4g_ms^3 + C_1R_1R_4g_ms + R_4g_m + s^2\left(C_1L_1R_4g_m + C_4L_4R_4g_m\right)}{C_1C_4C_LL_1L_4R_4g_ms^5 + 2g_m + s^4\left(C_1C_4L_LL_4R_4g_m + C_1C_4L_4R_4g_m + s^2\left(C_1L_4R_4g_m + C_4L_4R_4g_m + C_4L_4R_4g_m\right) + s^2\left(2C_1C_4R_1R_4g_m + C_4C_LL_4R_4g_m + C_4C_LL_
10.727 INVALID-ORDER-727 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}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 C_1C_4L_1L_4R_4R_Lg_ms^4 + C_1C_4L_4R_1R_4R_Lg_ms^3 + C_1R_1R_4R_Lg_ms + R_4R_Lg_ms^4
 \frac{C_1C_4L_1L_4R_4R_Lg_{m}s + C_1C_4L_4R_4R_Lg_{m}s + C_1C_4L_4R_4R_4R_Lg_{m}s + C_1C_4L_4R_4R_4R_Lg_{m}s + C_1C_4L_4R_4R_4R_Lg_{m}s + C_1C_4L_4R_4R_
10.728 INVALID-ORDER-728 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}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_4C_LL_1L_4R_4R_Lg_ms^5 + R_4g_m + s^4\left(C_1C_4C_LL_4R_1R_4R_Lg_m + C_1C_4L_1L_4R_4g_m\right) + s^6\left(C_1C_4L_4R_1R_4g_m + C_1C_4L_1L_4R_4g_m\right) + s^6\left(C_1C_4L_4R_1R_4g_m + C_1C_4L_4R_1R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_1R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m + C_1C_4L_4R_4R_4g_m\right) + s^6\left(C_1C_4C_4R_4R_4R_4g_m + C_1C_4C_4R_4R_4g_m\right) + s^6\left(C_1C_4C_4R_4R_4g_m + C_1C_4C_4R_4R_4g_m\right) + s^6\left(C_1C_4C_4R_4R_4R_4g_m right) + s^6\left(C_1C_4C_
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10.729 INVALID-ORDER-729 
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_1C_4C_LL_1L_4L_LR_4g_ms^6 + C_1C_4C_LL_4L_LR_1R_4g_ms^5 + C_1R_1R_4g_ms + R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_1C_4C_LL_4L_4R_4g_m + C_1C_4C_LL_4R_4R_4g_m + C_1C_4C_LL_4R_4R_4g_m + C_1C_4C_LL_4R_4R_4g_m + C_1C_4C_LL_4R_4g_m + C$ 

10.730 INVALID-ORDER-730 
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

 $H(s) = \frac{C_1C_4L_1L_4L_LR_4g_ms^5 + C_1C_4L_4L_LR_1R_4g_ms^4 + C_1L_LR_1R_4g_ms^2 + L_LR_4g_ms^2 + L_LR_4g_ms$ 

10.731 INVALID-ORDER-731 
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_1C_4C_LL_1L_4L_LR_4g_ms^6 + R_4g_m + s^5\left(C_1C_4C_LL_1L_4R_4g_m + s^6\left(C_1C_4C_LL_1L_4R_4g_m + s^6\left(C_1C_4C_LL_4R_4g_m + s^6c_1C_4C_LL_4R_4g_m + s^6\left(C_1C_4C_LL_4R_4g_m + s^6c_1C_4C_LL_4R_4g_m + s^6c_1C_4C_LL_4R_4g_m + s^6c_1C_4C_LL_4R_4g_m + s^6c_1C_4C_LL_4R_4g_m + s^6c_1C_4C_LL_4R_4g_m + s^6c_1C_4C_LL_4R_4g_m + s^$ 

10.732 INVALID-ORDER-732 
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

 $H(s) = \frac{1}{C_1 C_4 C_L L_1 L_4 L_L R_4 R_L g_m + s^5 \left( C_1 C_4 C_L L_4 L_L R_1 R_4 R_L g_m + C_1 C_4 L_L L_L R_4 R_L + C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_4 R_L g_m + 2 C_1 C_4 L_L R_4 R_L g_m + 2$ 

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10.733 INVALID-ORDER-733 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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $H(s) = \frac{1}{R_4 g_m + 2 R_L g_m + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_4 g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L R_4 R_L g_m + 2$ 

10.734 INVALID-ORDER-734 
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{1}{R_4 g_m + 2 R_L g_m + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_4 g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L L_4 L_L R_4 R_L g_m + 2 C_1 C_4 C_L R_4 R_L$ 

**10.735** INVALID-ORDER-735 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{L_1 R_1 R_4 g_m s}{C_1 C_L L_1 R_1 R_4 s^3 + 2R_1 + s^2 \left(2C_1 L_1 R_1 + C_L L_1 R_1 R_4 q_m + C_L L_1 R_4\right) + s \left(C_L R_1 R_4 + 2L_1 R_1 q_m + 2L_1\right)}$$

10.736 INVALID-ORDER-736 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{L_1 R_1 R_4 R_L g_m s}{C_1 C_L L_1 R_1 R_4 R_L s^3 + R_1 R_4 + 2 R_1 R_L + s^2 \left( C_1 L_1 R_1 R_4 + 2 C_1 L_1 R_1 R_L + C_L L_1 R_1 R_4 R_L g_m + C_L L_1 R_4 R_L \right) + s \left( C_L R_1 R_4 R_L + L_1 R_1 R_4 g_m + 2 L_1 R_1 R_L g_m + L_1 R_4 + 2 L_1 R_L \right)}$$

10.737 INVALID-ORDER-737 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 R_1 R_4 R_L g_m s^2 + L_1 R_1 R_4 g_m s}{2R_1 + s^3 \left(C_1 C_L L_1 R_1 R_4 + 2C_1 C_L L_1 R_1 R_L\right) + s^2 \left(2C_1 L_1 R_1 + C_L L_1 R_1 R_4 g_m + 2C_L L_1 R_1 R_2 g_m + C_L L_1 R_4 + 2C_L L_1 R_L\right) + s \left(C_L R_1 R_4 + 2C_L R_1 R_L + 2L_1 R_1 g_m + 2L_1\right)}$$

10.738 INVALID-ORDER-738 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_L L_1 L_L R_1 R_4 g_m s^3 + L_1 R_1 R_4 g_m s}{2C_1 C_L L_1 L_L R_1 s^4 + 2R_1 + s^3 \left(C_1 C_L L_1 R_1 R_4 + 2C_L L_1 L_L R_1 g_m + 2C_L L_1 L_L\right) + s^2 \left(2C_1 L_1 R_1 + C_L L_1 R_1 R_4 g_m + C_L L_1 R_4 + 2C_L L_L R_1\right) + s \left(C_L R_1 R_4 + 2L_1 R_1 g_m + 2L_1\right)}$$

10.739 INVALID-ORDER-739 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_1 L_L R_1 R_4 g_m s^2}{C_1 C_L L_1 L_L R_1 R_4 s^4 + R_1 R_4 + s^3 \left(2 C_1 L_1 L_L R_1 + C_L L_1 L_L R_1 R_4 g_m + C_L L_1 L_L R_4\right) + s^2 \left(C_1 L_1 R_1 R_4 + C_L L_L R_1 R_4 + 2 L_1 L_L R_1 g_m + 2 L_1 L_L\right) + s \left(L_1 R_1 R_4 g_m + L_1 R_4 + 2 L_L R_1\right)}$$

**10.740** INVALID-ORDER-740 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

10.741 INVALID-ORDER-741 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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10.742 INVALID-ORDER-742 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_L L_1 L_L R_1 R_4 R_L g_m s^3 + L_1 L_L R_1 R_4 g_m s^2 + L_1 R_1 R_4 g_m s^2 + L_1 R_1 R_4 g_m s}{R_1 R_4 + 2 R_1 R_L + s^4 \left(C_1 C_L L_1 L_L R_1 R_4 + 2 C_L L_L L_L R_1 R_L \right) + s^3 \left(2 C_1 L_1 L_L R_1 R_4 g_m + 2 C_L L_1 L_L R_1 R_4 g_m + C_L L_1 L_L R_1 R_4 + 2 C_L L_1 L_L R_1 R_4 + 2 C_L L_1 R_1 R_4 + 2 C_L L_L R_1 R_4 + 2 C_L R
10.743 INVALID-ORDER-743 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_1 L_L R_1 R_4 R_L g_m s^3 + L_1 R_1 R_4 R_L g_m s}{R_1 R_4 + 2 R_1 R_L + s^4 \left(C_1 C_L L_1 L_L R_1 R_4 + 2 C_1 C_L L_1 L_L R_1 R_4 R_L + C_L L_1 L_L R_1 R_4 g_m + C_L L_1 L_L R_1 R_4 g_m + C_L L_1 L_L R_1 R_4 + 2 C_L L_1 L_L R_1 R_4 + 2 C_L L_1 L_L R_1 R_4 R_L + C_L L_1 R_1 R_1 R_1 + C_L L
10.744 INVALID-ORDER-744 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{L_1 R_1 R_L g_m s}{2C_1 C_4 L_1 R_1 R_L s^3 + R_1 + s^2 \left(C_1 L_1 R_1 + 2C_4 L_1 R_1 R_L g_m + 2C_4 L_1 R_L\right) + s \left(2C_4 R_1 R_L + L_1 R_1 g_m + L_1\right)}
10.745 INVALID-ORDER-745 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 H(s) = \frac{L_1 R_1 R_L g_m s}{R_1 + s^3 \left(2 C_1 C_4 L_1 R_1 R_L + C_1 C_L L_1 R_1 R_L\right) + s^2 \left(C_1 L_1 R_1 + 2 C_4 L_1 R_1 R_L g_m + 2 C_4 L_1 R_L + C_L L_1 R_1 R_L g_m + C_L L_1 R_L\right) + s \left(2 C_4 R_1 R_L + C_L R_1 R_L + L_1 R_1 g_m + L_1\right)}
10.746 INVALID-ORDER-746 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_L L_1 R_1 R_L g_m s + L_1 R_1 g_m}{2C_1 C_4 C_L L_1 R_1 R_L s^3 + 2C_4 R_1 + C_L R_1 + s^2 \left(2C_1 C_4 L_1 R_1 + C_1 C_L L_1 R_1 + 2C_4 C_L L_1 R_1 R_L g_m + 2C_4 C_L L_1 R_L\right) + s \left(2C_4 C_L R_1 R_L + 2C_4 L_1 R_1 g_m + 2C_4 L_1 + C_L L_1 R_1 g_m + C_L L_1\right)}
10.747 INVALID-ORDER-747 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 H(s) = \frac{C_L L_1 L_L R_1 g_m s^2 + L_1 R_1 g_m}{2C_1 C_4 C_L L_1 L_L R_1 s^4 + 2C_4 R_1 + C_L R_1 + s^3 \left(2C_4 C_L L_1 L_L R_1 g_m + 2C_4 C_L L_1 L_L\right) + s^2 \left(2C_1 C_4 L_1 R_1 + C_1 C_L L_1 R_1 + 2C_4 C_L L_L R_1\right) + s \left(2C_4 L_1 R_1 g_m + 2C_4 L_1 + C_L L_1 R_1 g_m + C_L L_1\right)}
10.748 INVALID-ORDER-748 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
 H(s) = \frac{L_1 L_L R_1 g_m s^2}{R_1 + s^4 \left(2 C_1 C_4 L_1 L_L R_1 + C_1 C_L L_1 L_L R_1\right) + s^3 \left(2 C_4 L_1 L_L R_1 g_m + 2 C_4 L_1 L_L + C_L L_1 L_L R_1 g_m + C_L L_1 L_L\right) + s^2 \left(C_1 L_1 R_1 + 2 C_4 L_L R_1 + C_L L_L R_1\right) + s \left(L_1 R_1 g_m + L_1\right)}
10.749 INVALID-ORDER-749 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \frac{C_{L}L_{1}L_{L}R_{1}g_{m}s^{2}+C_{L}L_{1}R_{1}R_{L}g_{m}s+L_{1}R_{1}g_{m}}{2C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}s^{4}+2C_{4}R_{1}+C_{L}R_{1}+s^{3}\left(2C_{1}C_{4}C_{L}L_{1}R_{1}R_{L}+2C_{4}C_{L}L_{1}L_{L}\right)+s^{2}\left(2C_{1}C_{4}L_{1}R_{1}+C_{1}C_{L}L_{1}R_{1}+2C_{4}C_{L}L_{1}R_{L}\right)+s\left(2C_{4}C_{L}L_{1}R_{1}+2C_{4}C_{L}L_{1}R_{1}+2C_{4}C_{L}L_{1}R_{1}\right)+s\left(2C_{4}C_{L}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}\right)+s\left(2C_{4}C_{L}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{L}+2C_{4}L_{1}R_{1}R_{
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, \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
 H(s) = \frac{L_1 L_L R_1 R_L g_m s^2}{R_1 R_L + s^4 \left(2 C_1 C_4 L_1 L_L R_1 R_L + C_1 C_L L_1 L_L R_1 R_L \right) + s^3 \left(C_1 L_1 L_L R_1 R_L g_m + 2 C_4 L_1 L_L R_1 R_L g_m + C_L L_1 L_L R_1 R_L + C_L R_1 R_L + C
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, \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
 \frac{C_{L}L_{1}L_{L}R_{1}R_{L}g_{m}s^{3}+L_{1}L_{L}R_{1}g_{m}s^{2}+L_{1}R_{1}R_{L}g_{m}s}{2C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}+S^{4}\left(2C_{1}C_{4}L_{1}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{L}R_{1}+C_{L}L_{L}R_{1}R_{L}+2C_{4}L_{1}L_{L}R_{1}R_{L}+2C_{4}L_{1}L_{L}R_{1}g_{m}+2C_{4}L_{1}L_{L}R_{1}g_{m}+2C_{4}L_{1}L_{L}R_{1}+C_{4}L_{1}L_{L}R_{1}R_{L}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L_{1}L_{L}R_{1}+2C_{4}L
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10.752 INVALID-ORDER-752 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_1 L_L R_1 R_L g_m s^3 + L_1 R_1 R_L g_m s}{2C_1 C_4 C_L L_1 L_L R_1 R_L s^5 + R_1 + s^4 \left(C_1 C_L L_1 L_L R_1 + 2 C_4 C_L L_1 L_L R_1 R_L g_m + 2 C_4 C_L L_1 L_L R_1 R_L + C_1 C_L L_1 R_1 R_L + C_1 C_L L_1 R_1 R_L + C_1 L_1 L_L R_1 R_L g_m + C_L L_1 R_L g_m + C_L R_1 R_L g_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, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)
 H(s) = \frac{L_1 R_1 R_4 R_L g_m s}{2 C_1 C_4 L_1 R_1 R_4 R_L s^3 + R_1 R_4 + 2 R_1 R_L + s^2 \left(C_1 L_1 R_1 R_4 + 2 C_1 L_1 R_1 R_L + 2 C_4 L_1 R_1 R_4 R_L g_m + 2 C_4 L_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + L_1 R_1 R_4 g_m + 2 L_1 R_1 R_L g_m + L_1 R_4 + 2 L_1 R_L \right)}
10.754 INVALID-ORDER-754 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{L_1 R_1 R_4 g_m s}{2 R_1 + s^3 \left(2 C_1 C_4 L_1 R_1 R_4 + C_1 C_L L_1 R_1 R_4\right) + s^2 \left(2 C_1 L_1 R_1 + 2 C_4 L_1 R_1 R_4 g_m + 2 C_4 L_1 R_4 + C_L L_1 R_1 R_4 g_m + C_L L_1 R_4\right) + s \left(2 C_4 R_1 R_4 + C_L R_1 R_4 + 2 L_1 R_1 g_m + 2 L_1\right)}{2 R_1 + s^2 \left(2 C_1 L_1 R_1 R_4 + C_1 L_1 R_1 R_4 + C_1 L_1 R_1 R_4 + C_1 L_1 R_1 R_4\right) + s \left(2 C_4 R_1 R_4 + C_1 L_1 R_1 R_4 + C_1 L_1 R_1 R_4 + C_1 L_1 R_1 R_4\right)}
10.755 INVALID-ORDER-755 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 H(s) = \frac{L_1 R_1 R_4 R_L g_m s}{R_1 R_4 + 2 R_1 R_L + s^3 \left(2 C_1 C_4 L_1 R_1 R_4 R_L + C_1 C_L L_1 R_1 R_4 R_L \right) + s^2 \left(C_1 L_1 R_1 R_4 + 2 C_4 L_1 R_1 R_4 R_L + C_L L_1 R_1 R_4 R_L + C_L L_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_L R_1 R_4 R_L + L_1 R_1 R_4 g_m + 2 L_1 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + L_1 R_1 R_4 R_L + L_1 R_1 R_4 R_L + L_1 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C_4 R_1 R_4 R_L \right) + s \left(2 C_4 R_1 R_4 R_L + C
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{R_4}{C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 R_1 R_4 R_L g_m s^2 + L_1 R_1 R_4 g_m s}{2C_1 C_4 C_L L_1 R_1 R_4 R_L s^4 + 2R_1 + s^3 \left(2C_1 C_4 L_1 R_1 R_4 + C_1 C_L L_1 R_1 R_4 + 2C_4 C_L L_1 R_1 R_4 R_L g_m + 2C_4 C_L L_1 R_1 R_4 R_L \right) + s^2 \left(2C_1 L_1 R_1 R_4 R_L + 2C_4 L_1 R_1 R_4 g_m + 2C_4 L_1
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{R_4}{C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)
 \frac{C_{L}L_{1}L_{L}R_{1}R_{4}g_{m}s^{3}+L_{1}R_{1}R_{4}g_{m}s}{2C_{1}C_{4}L_{L}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{L}R_{2}+2C_{4}C_{L}L_{1}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{L}R_{1}+2C_{4}L_{1}R_{1}R_{4}+2C_{4}L_{1}R_{1}R_{4}+2C_{4}L_{1}L_{L}R_{1}R_{2}+2C_{4}L_{1}L_{L}R_{1}R_{2}+2C_{4}L_{1}L_{L}R_{1}R_{2}+2C_{4}L_{1}L_{L}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{1}R_{2}+2C_{4}L_{1}R_{
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{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
 H(s) = \frac{L_1 L_L R_1 R_4 g_m s^2}{R_1 R_4 + s^4 \left(2 C_1 C_4 L_1 L_L R_1 R_4 + C_1 C_L L_1 L_L R_1 R_4 \right) + s^3 \left(2 C_1 L_1 L_L R_1 + 2 C_4 L_1 L_L R_1 R_4 g_m + 2 C_4 L_1 L_L R_1 R_4 g_m + C_L L_1 L_L R_4 \right) + s^2 \left(C_1 L_1 R_1 R_4 + C_L L_L R_1 R_4 \right) + s^2 \left(C_1 L_1 R_1 R_4 + C_L L_L R_1 R_4 \right) + s^2 \left(C_1 L_1 R_1 R_4 + C_L L_L R_1 R_4 \right) + s^2 \left(C_1 L_1 R_1 R_4 + C_L L_L R_1 R_4 \right) + s^2 \left(C_1 L_1 R_1 R_4 + C_L L_L R_
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{R_4}{C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \frac{C_L L_1 L_L R_1 R_4 g_m s^s + C_L L_1 R_1 R_4 R_L g_m s^s + L_1 R_1 R_4 g_m s^s}{2C_1 C_4 C_L L_1 L_L R_1 R_4 s^5 + 2R_1 + s^4 \left(2C_1 C_4 C_L L_1 R_1 R_4 R_L + 2C_4 C_L L_1 L_L R_1 R_4 g_m + 2C_4 C_L L_1 L_L R_1 R_4 + 2C_4 C_L L_1 R_1 R_4 R_L + 2C_4
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 $C_L L_1 L_L R_1 R_4 g_m s^3 + C_L L_1 R_1 R_4 R_L g_m s^2 + L_1 R_1 R_4 g_m s^2$ 

10.760 INVALID-ORDER-760  $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ 

10.761 INVALID-ORDER-761  $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

 $\frac{C_L L_1 L_L R_1 R_4 R_L s^5}{2C_1 C_4 L_1 L_L R_1 R_4 R_L s^5 + R_1 R_4 + 2R_1 R_L + s^4 \left(2C_1 C_4 L_1 L_L R_1 R_4 + C_1 C_L L_1 L_L R_1 R_4 + 2C_4 C_L L_1 L_L R_1 R_4 R_L g_m + 2C_4 C_L L_1 L_L R_1 R_4 R_L + 2C_4 L_L L_L R_1 R_4 R_L$ 

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10.762 INVALID-ORDER-762 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_1 L_L R_1 R_4 R_L s^5 + R_1 R_4 + 2 R_1 R_L + s^4 \left(C_1 C_L L_1 L_L R_1 R_4 + 2 C_4 C_L L_1 L_L R_1 R_4 R_L g_m + 2 C_4 C_L L_1 L_L R_1 R_4 R_L + s^4 \left(C_1 C_L L_1 L_L R_1 R_4 R_L + 2 C_4 C_L L_1 L_L R_1 R_4 R_L + C_1 C_L L_1 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, R_4 + \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{C_4 L_1 R_1 R_4 R_L g_m s^2 + L_1 R_1 R_L g_m s}{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_L \right) + s^2 \left(C_1 L_1 R_1 + C_4 L_1 R_1 R_4 g_m + 2 C_4 L_1 R_1 R_L g_m + C_4 L_1 R_4 + 2 C_4 L_1 R_L \right) + s \left(C_4 R_1 R_4 + 2 C_4 R_1 R_L + L_1 R_1 g_m + L_1 \right)}
10.764 INVALID-ORDER-764 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_4L_1R_1R_4g_ms + L_1R_1g_m}{C_1C_4C_LL_1R_1R_4s^3 + 2C_4R_1 + C_LR_1 + s^2\left(2C_1C_4L_1R_1 + C_4C_LL_1R_1 + C_4C_LL_1R_1R_4g_m + C_4C_LL_1R_4\right) + s\left(C_4C_LR_1R_4 + 2C_4L_1R_1g_m + 2C_4L_1 + C_LL_1R_1g_m + C_LL_1\right)}
10.765 INVALID-ORDER-765 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_4L_1R_1R_4R_Lg_ms^2 + L_1R_1R_Lg_ms}{C_1C_4C_LL_1R_1R_4R_Ls^4 + R_1 + s^3\left(C_1C_4L_1R_1R_4 + 2C_1C_4L_1R_1R_L + C_4C_LL_1R_1R_4R_Lg_m + C_4C_LL_1R_4R_L\right) + s^2\left(C_1L_1R_1 + C_4C_LR_1R_4R_L + C_4L_1R_1R_4g_m + 2C_4L_1R_1R_4g_m + 2C_4L_1R_1R_4g_m + C_4L_1R_4R_L\right) + s^2\left(C_1L_1R_1 + C_4C_LR_1R_4R_L + C_4L_1R_1R_4g_m + 2C_4L_1R_4R_L\right) + s^2\left(C_1L_1R_1 + C_4C_LR_1R_4R_L + C_4L_1R_1R_4g_m + 2C_4L_1R_4R_L\right) + s^2\left(C_1L_1R_1 + C_4C_LR_1R_4R_L + C_4L_1R_4R_L\right) + s^2\left(C_1L_1R_1 + C_4C_LR_1R_4R_L\right) + s^2\left(C_1L_1R_1 + C_4C_LR_1R_4R_L\right) + s^2\left(C_1L_1R_1 + C_4C_LR_1R_4R_L\right) + s^2\left(C_1L_1R_1R_4R_L\right) + s^2\left(C_1L_1R_1
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, R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_4C_LL_1R_1R_4R_Lg_ms^2 + L_1R_1g_m + s\left(C_4L_1R_1R_4g_m + C_LL_1R_1R_Lg_m\right)}{2C_4R_1 + C_LR_1 + s^3\left(C_1C_4C_LL_1R_1R_4 + 2C_1C_4C_LL_1R_1R_L\right) + s^2\left(2C_1C_4L_1R_1 + C_4C_LL_1R_1R_4g_m + 2C_4C_LL_1R_1R_4g_m + C_4C_LL_1R_4 + 2C_4C_LR_1R_4 +
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, R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 H(s) = \frac{C_4C_LL_1L_LR_1R_4g_ms^3 + C_4L_1R_1R_4g_ms + C_LL_1L_LR_1g_ms^2 + L_1R_1g_m}{2C_1C_4C_LL_1L_LR_1s^4 + 2C_4R_1 + C_LR_1 + s^3\left(C_1C_4C_LL_1R_1R_4 + 2C_4C_LL_1L_L\right) + s^2\left(2C_1C_4L_1R_1 + C_4C_LL_1R_1 + C_4C_LL_1R_4 + 2C_4C_LL_1R_1\right) + s\left(C_4C_LR_1R_4 + 2C_4L_1R_1g_m + 2C_4L_1R_1g_m + C_LL_1\right)}
10.768 INVALID-ORDER-768 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_4 L_1 L_L R_1 R_4 g_m s^3 + L_1 L_L R_1 g_m s^2}{C_1 C_4 L_L L_L R_1 R_4 s^5 + R_1 + s^4 \left(2 C_1 C_4 L_1 L_L R_1 + C_4 C_L L_1 L_L R_1 R_4 g_m + C_4 C_L L_1 L_L R_1 R_4 + C_4 C_L L_L R_1 R_4 + 2 C_4 L_1 L_L R_1 g_m + 2 C_4 L_1 L_L R_1 g_m + C_L L_1 L_L \right) + s^2 \left(C_1 L_1 R_1 + C_4 L_1 R_1 R_4 g_m + C_4 L_1 R_1 R_4 g
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, R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_4 s}\right)
 \frac{C_4C_LL_1L_LR_1R_4g_ms^3 + L_1R_1g_m + s^2\left(C_4C_LL_1R_1R_4g_m + C_LL_1L_LR_1g_m\right) + s\left(C_4L_1R_1R_4g_m + C_LL_1R_1R_4g_m + C_LL_1R_1R
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, R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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 $\frac{C_4 C_L L_1 L_L R_1 R_4 + 2 C_1 C_4 C_L L_1 L_L R_1 R_4 + 2 C_1 C_4 L_1 L_L R_1 R_4 + 2 C_4 C_L L_1 L_L R_1 R_$ 

10.771 INVALID-ORDER-771  $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

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10.772 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, R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.773 INVALID-ORDER-773 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{C_4 L_1 L_4 R_1 R_L g_m s^3 + L_1 R_1 R_L g_m s}{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_L + 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_L g_m + 2 C_4 L_1 R_L + C_4 L_4 R_1\right) + s \left(2 C_4 R_1 R_L + L_1 R_1 g_m + L_1\right)}
10.774 INVALID-ORDER-774 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_4 L_1 L_4 R_1 g_m s^2 + L_1 R_1 g_m}{C_1 C_4 C_L L_1 L_4 R_1 s^4 + 2 C_4 R_1 + C_L R_1 + s^3 \left(C_4 C_L L_1 L_4 R_1 g_m + C_4 C_L L_1 L_4 \right) + s^2 \left(2 C_1 C_4 L_1 R_1 + C_1 C_L L_1 R_1 + C_4 C_L L_4 R_1 \right) + s \left(2 C_4 L_1 R_1 g_m + 2 C_4 L_1 + C_L L_1 R_1 g_m + C_L L_1 \right)}
10.775 INVALID-ORDER-775 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_4 L_1 L_4 R_1 R_L g_m s^3 + L_1 R_1 R_L g_m s}{C_1 C_4 C_L L_1 L_4 R_1 R_L s^5 + R_1 + s^4 \left(C_1 C_4 L_1 L_4 R_1 + C_4 C_L L_1 L_4 R_1 R_L g_m + C_4 C_L L_1 L_4 R_1 R_L + C_4 C_L L_1 R_1 R_L + C_4 C_L R_1 R_L + C_4
10.776 INVALID-ORDER-776 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_4C_LL_1L_4R_1R_Lg_ms^3 + C_4L_1L_4R_1g_ms^2 + C_LL_1R_1R_Lg_ms + L_1R_1g_m}{C_1C_4C_LL_1L_4R_1s^4 + 2C_4R_1 + C_LR_1 + s^3\left(2C_1C_4C_LL_1R_1R_L + C_4C_LL_1L_4R_1g_m + C_4C_LL_1R_1 + C_4C_L
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, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 H(s) = \frac{C_4C_LL_1L_4L_LR_1g_ms^4 + L_1R_1g_m + s^2\left(C_4L_1L_4R_1g_m + C_LL_1L_LR_1g_m\right)}{2C_4R_1 + C_LR_1 + s^4\left(C_1C_4C_LL_1L_4R_1 + 2C_1C_4C_LL_1L_4R_1g_m + C_4C_LL_1L_4R_1g_m + 2C_4C_LL_1L_L\right) + s^2\left(2C_1C_4L_1R_1 + C_4C_LL_4R_1 + 2C_4C_LL_4R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4L_1R_1g_m + 2C_4L_1R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4L_1R_1g_m + 2C_4C_1R_1R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4L_1R_1g_m + 2C_4C_1R_1R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4L_1R_1g_m + 2C_4C_1R_1R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R_1R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R_1R_1\right) + s\left(2C_4L_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R_1R_1\right) + s\left(2C_4R_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R_1R_1\right) + s\left(2C_4R_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R_1R_1\right) + s\left(2C_4R_1R_1g_m + 2C_4R_1R_1g_m + 2C_4R
10.778 INVALID-ORDER-778 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_1 L_L s^2 + 1}\right)
H(s) = \frac{C_4L_1L_4L_LR_1g_ms^4 + L_1L_LR_1g_ms^2}{C_1C_4C_LL_1L_4L_LR_1s^6 + R_1 + s^5\left(C_4C_LL_1L_4L_LR_1g_m + C_4C_LL_1L_4L_L\right) + s^4\left(C_1C_4L_1L_4R_1 + 2C_1C_4L_1L_LR_1 + C_4C_LL_4L_LR_1\right) + s^3\left(C_4L_1L_4R_1g_m + C_4L_1L_LR_1g_m + 2C_4L_1L_LR_1g_m + C_4L_1L_L\right) + s^2\left(C_1L_1R_1 + C_4L_4R_1g_m + C_4L_4L_R\right) + s^3\left(C_4L_1L_4R_1g_m + C_4L_4L_LR_1g_m + C_4L_4R_1g_m + C_4L_4
10.779 INVALID-ORDER-779 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \frac{C_4C_LL_1L_4R_1g_ms^4 + C_4C_LL_1L_4R_1g_ms^3 + C_LL_1R_1g_ms + L_1R_1g_ms + L_1R_1g_m + s^2\left(C_4L_1L_4R_1g_m + C_LL_1L_LR_1g_m\right)}{2C_4R_1 + C_LR_1 + s^4\left(C_1C_4C_LL_1L_4R_1 + 2C_4C_LL_1L_4R_1 + 2C_4C_LL_1L_4R_1g_m + 2C_4C_LL_1L_4R_1 + 2C_4C_LL_1R_1
10.780 INVALID-ORDER-780 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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10.781 INVALID-ORDER-781  $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

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10.782 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, L_4 s + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_4C_LL_1L_4L_LR_1s^6 + L_1R_Lg_ms^5 + L_1R_1R_Lg_ms^5 + L_1R_1R_1R_1g_ms^5 + L_1R_1R_1g_ms^5 + L_1R_1R_1g_ms
10.783 INVALID-ORDER-783 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L\right)
 H(s) = \frac{L_1 L_4 R_1 R_L g_m s^2}{2 C_1 C_4 L_1 L_4 R_1 R_L s^4 + 2 R_1 R_L + s^3 \left(C_1 L_1 L_4 R_1 + 2 C_4 L_1 L_4 R_1 R_L q_m + 2 C_4 L_1 L_4 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + 2 C_4 L_4 R_1 R_L + L_1 L_4 R_1 q_m + L_1 L_4 \right) + s \left(2 L_1 R_1 R_L q_m + 2 L_1 R_L + L_4 R_1 \right) + s \left(2 L_1 R_1 R_L q_m + 2 L_1 R_L + L_4 R_1 \right) + s \left(2 L_1 R_1 R_L q_m + 2 L_1 R_L + L_4 R_1 \right) + s \left(2 L_1 R_1 R_L q_m + 2 L_1 R_L + L_4 R_1 R_L \right) + s \left(2 L_1 R_1 R_L q_m + 2 L_1 R_L + L_4 R
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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{L_1L_4R_1g_ms^2}{2R_1 + s^4\left(2C_1C_4L_1L_4R_1 + C_1C_LL_1L_4R_1\right) + s^3\left(2C_4L_1L_4R_1g_m + 2C_4L_1L_4 + C_LL_1L_4R_1g_m + C_LL_1L_4\right) + s^2\left(2C_1L_1R_1 + 2C_4L_4R_1 + C_LL_4R_1\right) + s\left(2L_1R_1g_m + 2L_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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 H(s) = \frac{L_1 L_4 R_1 R_L g_m s^2}{2 R_1 R_L + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 R_L + C_1 C_L L_1 L_4 R_1 R_L \right) + s^3 \left(C_1 L_1 L_4 R_1 + 2 C_4 L_1 L_4 R_1 R_L g_m + 2 C_4 L_1 L_4 R_1 R_L g_m + C_L L_1 L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_L L_4 R_1 R_L + C_L L_4 R_1 R_L + L_4 L_4 R_1 R_L + C_L L_4 R_1 R_L + L_4 L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + C_1 L_4 R_1 R_L + L_4 L_4 R_1 R_L + L_4 L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 L_4 R_1 R_L + L_4 L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 L_4 R_1 R_L + L_4 L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 L_4 R_1 R_L + L_4 L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 L_4 R_1 R_L + L_4 L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + C_1 L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + L_4 R_1 R_L \right) + s^2 \left(2 C_1 L_1 R_1 R_L + L_4 R_1 R_L + L
10.786 INVALID-ORDER-786 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_4 R_1 R_L g_m s^3 + L_1 L_4 R_1 g_m s^2}{2C_1 C_4 C_L L_1 L_4 R_1 R_L s^5 + 2R_1 + s^4 \left(2C_1 C_4 L_1 L_4 R_1 + 2C_4 C_L L_1 L_4 R_1 R_L g_m + 2C_4 C_L L_1 L_4 R_1 R_L + 2C_4 C_L L_4 R_1 R_L + 2C_4 L_1 L_4 R_1 g_m + 2C_4 L_4 R_1 g
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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)
 \frac{C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}s^{4}+L_{1}L_{4}R_{1}g_{m}s^{2}}{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}+2C_{4}C_{L}L_{1}L_{4}L_{L})+s^{4}\left(2C_{1}C_{4}L_{1}L_{4}R_{1}+C_{1}C_{L}L_{1}L_{4}R_{1}+2C_{4}C_{L}L_{4}L_{L}R_{1}\right)+s^{3}\left(2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{1}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{4}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{4}L_{4}L_{4}R_{1}g_{m}+2C_{
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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
 H(s) = \frac{L_1L_4L_LR_1g_ms^2}{L_4R_1 + 2L_LR_1 + s^4\left(2C_1C_4L_1L_4L_LR_1 + C_1C_LL_1L_4L_LR_1\right) + s^3\left(2C_4L_1L_4L_LR_1g_m + 2C_4L_1L_4L_LR_1g_m + C_LL_1L_4L_L\right) + s^2\left(C_1L_1L_4R_1 + 2C_4L_4L_LR_1 + C_4L_4L_LR_1\right) + s\left(L_1L_4R_1g_m + L_1L_4 + 2L_4L_LR_1g_m + 2L_4L_LR_1\right) + s^2\left(C_1L_4R_1 + 2C_4L_4L_LR_1 + C_4L_4L_LR_1\right) + s\left(L_4R_1g_m + L_4L_4R_1g_m + L_4L_4R_1\right) + s\left(L_4R_1g_m + L_4R_1g_m + L_4R_1\right) + s\left(L_4R_1g_m + L_4R_1g_m + L_
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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \frac{C_L L_1 L_4 L_L R_1 g_m s^4 + C_L L_1 L_4 R_1 R_L g_m s^6 + L_1 L_
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10.790 INVALID-ORDER-790  $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_4 L_4 L_4 s^2 + L_1 s + R_L}\right)$ 

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

10.791 INVALID-ORDER-791  $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)$ 

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10.792 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, \frac{L_4 s}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{\sum_{L} \sum_{L} \sum
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 + R_4 + \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{C_4L_1L_4R_1R_Lg_ms^3 + C_4L_1R_1R_4g_ms^2 + L_1R_1R_Lg_ms}{C_1C_4L_1L_4R_1s^4 + R_1 + s^3\left(C_1C_4L_1R_1R_4 + 2C_1C_4L_1R_1R_L + C_4L_1L_4R_1g_m + C_4L_1L_4\right) + s^2\left(C_1L_1R_1 + C_4L_1R_1R_4g_m + 2C_4L_1R_1R_Lg_m + C_4L_1R_4 + 2C_4L_1R_L + C_4L_4R_1\right) + s\left(C_4R_1R_4 + 2C_4R_1R_L + L_1R_1g_m + L_1\right)}
10.794 INVALID-ORDER-794 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_4L_1L_4R_1g_ms^2 + C_4L_1R_1R_4g_ms + L_1R_1g_m}{C_1C_4C_LL_1L_4R_1s^4 + 2C_4R_1 + C_LR_1 + s^3\left(C_1C_4C_LL_1R_1R_4 + C_4C_LL_1L_4R_1g_m + C_4C_LL_1R_1 + C_4C
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, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 C_4L_1L_4R_1R_Lg_ms^3 + C_4L_1R_1R_4R_Lg_ms^2 + L_1R_1R_Lg_ms
H(s) = \frac{C_4L_1L_4R_1R_Lg_ms^\circ + C_4L_1R_1R_Lg_ms^\circ + L_4R_1R_Lg_ms^\circ + L_4R_1R_1R_Lg_ms^\circ + L_4R_1R_1R_Lg_ms^\circ + L_4R_1R_1R_Lg_ms^\circ + L_4R_1R_1R_Lg_ms^\circ + L_4R_1R_1R_1R_1R
10.796 INVALID-ORDER-796 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_4C_LL_1L_4R_1R_Lg_ms^3 + L_1R_1g_m + s^2\left(C_4C_LL_1R_1R_4R_Lg_m + C_4L_1L_4R_1g_m\right) + s\left(C_4L_1R_1R_4g_m + C_LL_1R_1R_Lg_m\right)}{C_1C_4C_LL_1L_4R_1s^4 + 2C_4R_1 + C_4L_1L_4R_1g_m + C_4C_LL_1R_1R_4 + 2C_4C_LL_1R_1R_4 + 2C_4C_LL_1R_1
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, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 \frac{C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}s^{4}+C_{4}C_{L}L_{1}L_{L}R_{1}R_{4}g_{m}s+L_{1}R_{1}g_{m}+s^{2}\left(C_{4}L_{1}L_{4}R_{1}g_{m}+C_{L}L_{1}L_{L}R_{1}g_{m}\right)}{2C_{4}R_{1}+C_{L}R_{1}+s^{4}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}+2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{4}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{1}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_{4}R_{1}+C_{4}C_{L}L_
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, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L s}{C_1 L_L s^2 + 1}\right)
H(s) = \frac{C_4 L_1 L_4 L_1 R_1 g_m s^4 + C_4 L_1 L_L R_1 g_m s^3 + L_1 L_L R_1 g_m s^2}{C_1 C_4 C_L L_1 L_4 L_1 R_1 s^6 + R_1 + s^5 \left(C_1 C_4 C_L L_1 L_4 L_1 R_1 g_m + C_4 C_L L_1 L_4 L_1 R_1 + C_4 C_L L_1 L_4 R_1 + C_4 C_L L_4 L_4
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, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \frac{C_4C_LL_1L_4L_R_1g_ms^4 + L_1R_1g_m + s^3\left(C_4C_LL_1L_4R_1R_Lg_m + C_4C_LL_1L_LR_1R_4g_m\right) + s^2\left(C_4C_LL_1R_1R_4R_Lg_m + C_4L_1L_4R_1g_m + C_4L_1L_4R_1g_m + C_4L_1L_4R_1g_m\right) + s\left(C_4L_1R_1R_4R_Lg_m + C_4L_1L_4R_1g_m + C_4L_4R_1g_m + C
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, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_1 C_4 C_L L_1 L_4 L_L R_1 R_L + s^5 \left(C_1 C_4 C_L L_1 L_L R_1 R_4 R_L + C_1 C_4 L_1 L_4 L_L R_1 R_L + C_4 C_L L_1 L_4 L_4 R_1 R_L + C_4 C_L L_4 L_4 R_1
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, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{C_L L_R R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $C_4C_LL_1L_4L_LR_1R_Lg_ms^5 + L_1R_1R_Lg_ms + s^4(C_4C_LL_1L_LR_1R_4)$ 

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H(s) = \frac{1}{C_1 C_4 C_L L_1 L_4 L_L R_1 s^6 + R_1 + s^5 \left(C_1 C_4 C_L L_1 L_4 R_1 R_L + C_1 C_4 C_L L_1 L_L R_1 R_4 + 2 C_1 C_4 C_L L_1 L_L R_1 R_L + C_4 C_L L_1 L_4 L_L R_1 g_m + C_4 C_L L_1 L_4 L_L R_1 g_m + C_4 C_L L_1 L_4 R_1 R_2 + C_4 C_L L_1 L
10.803 INVALID-ORDER-803 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L\right)
H(s) = \frac{L_1L_4R_1R_4R_Lg_ms^2}{2C_1C_4L_1L_4R_1R_4R_Ls^4 + 2R_1R_4R_L + s^3\left(C_1L_1L_4R_1R_4 + 2C_4L_1L_4R_1R_4 + 2C_4L_1L_4R_1R_4R_Lg_m + 2C_4L_1L_4R_1R_4R_L + s^2\left(2C_1L_1R_1R_4R_L + 2C_4L_4R_1R_4R_L + L_1L_4R_1R_4g_m + L_1L_4R_1R_4g_m + L_1L_4R_1R_4g_m + L_1L_4R_1R_4g_m + 2L_1L_4R_1R_4g_m + 2L_1L_4R_1R_4g_m + L_1L_4R_1R_4g_m + L
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, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{L_1 L_4 R_1 R_4 g_m s^2}{2 R_1 R_4 + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 R_4 + C_1 C_L L_1 L_4 R_1 R_4 \right) + s^3 \left(2 C_1 L_1 L_4 R_1 R_4 g_m + 2 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_4 L_1 L_4 R_1 R_4 + C_L L_1 L_4 R_1 R_4 + C_L L_4 R
\textbf{10.805} \quad \textbf{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, \ \ \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \ \ \infty, \ \ \frac{R_L}{C_L R_L s + 1} \right)
 \frac{L_{1}L_{4}R_{1}R_{4}R_{L}g_{m}s^{2}}{2R_{1}R_{4}R_{L} + s^{4}\left(2C_{1}C_{4}L_{1}L_{4}R_{1}R_{4}R_{L} + C_{1}C_{L}L_{1}L_{4}R_{1}R_{4}R_{L}\right) + s^{3}\left(C_{1}L_{1}L_{4}R_{1}R_{4} + 2C_{1}L_{1}L_{4}R_{1}R_{4}R_{L} + 2C_{4}L_{1}L_{4}R_{1}R_{4}R_{L} + C_{L}L_{1}L_{4}R_{1}R_{4}R_{L}\right) + s^{2}\left(2C_{1}L_{1}R_{1}R_{4}R_{L} + 2C_{4}L_{4}R_{1}R_{4}R_{L} + 2C_{4}L_{4}R_{4
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, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_4 R_1 R_4 R_L g_m s^\circ + L_1 L_4 R_1 R_4}{2 C_1 C_4 L_1 L_4 R_1 R_4 R_L s^5 + 2 R_1 R_4 + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 R_4 + 2 C_1 C_L L_1 L_4 R_1 R_4 + 2 C_4 C_L L_1 L_4 R_1 R_4 R_L + 2 C_4 C_L L_1 L_4 R_1 R_4 R_L + 2 C_4 C_L L_1 L_4 R_1 R_4 R_L + 2 C_4 C_L L_1 L_4 R_1 R_4 R_L + 2 C_4 L_4 R_4 R_L
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, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, L_L s + \frac{1}{C_L s}\right)
 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, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{L_1L_4L_LR_1R_4g_ms^2}{L_4R_1R_4 + 2L_LR_1R_4 + s^4\left(2C_1C_4L_1L_4L_LR_1R_4 + C_1C_LL_1L_4L_LR_1R_4 + 2C_4L_1L_4L_LR_1R_4 + C_LL_1L_4L_LR_1R_4 + C_LL_1L_4L_1R_1R_4 + C_LL_1L_4L_1R_1R_1 + C_LL_1L_4L_1R_1R_1R_1R_1R_1 + C_LL_1L_1R_1R_1R_1R_1 + C_LL_1L_1R_1R_1R_1 + C_LL_1L_1R_1R_1R_1 + C_LL_1L_1
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, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \overline{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}s^{6}+2R_{1}R_{4}+s^{5}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}R_{L}+2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{1}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{1}R_{1}+2C_{4}C_{L}L_{1}L_{4}L_{1}R_{1}+2C_{4}C_{L}L_{
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, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.811 INVALID-ORDER-811 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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10.802 INVALID-ORDER-802  $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ 

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H(s) = \frac{1}{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}s^{6} + 2R_{1}R_{4}R_{L} + s^{5}\left(C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4} + 2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{1}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2C_{4}C_{L}L_{4}L_{4}L_{4}R_{4}R_{L} + 2
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, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, R_L\right)
H(s) = \frac{C_4L_1L_4R_1R_4R_Lg_ms^3 + L_1L_4R_1R_Lg_ms^2 + L_1R_1R_4R_Lg_ms}{R_1R_4 + 2R_1R_L + s^4\left(C_1C_4L_1L_4R_1R_4 + 2C_4L_1L_4R_1R_L\right) + s^3\left(C_1L_1L_4R_1 + C_4L_1L_4R_1R_Lg_m + 2C_4L_1L_4R_1R_L\right) + s^2\left(C_1L_1R_1R_4 + 2C_4L_4R_1R_L + C_4L_4R_1R_L + 2C_4L_4R_1R_L
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{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{1}{C_L s}\right)
H(s) = \frac{C_4 L_1 L_4 R_1 g_m s^3 + L_1 L_4 R_1 g_m s^2 + L_1 R_1 g_m s^2 + L_1 R_1 R_4 g_m s}{C_1 C_4 L_1 L_4 R_1 R_4 s^5 + 2 R_1 + s^4 \left(2 C_1 C_4 L_1 L_4 R_1 + C_4 C_L L_1 L_4 R_1 + C_4 C_L L_1 L_4 R_1 + C_4 C_L L_1 L_4 R_1 R_4 + C_4 C_L L_4 R_4 R_4 R_4 R_4 R_
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{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 C_4L_1L_4R_1R_4R_Lg_ms^3 + L_1L_4
H(s) = \frac{C_4 L_1 L_4 R_1 R_4 R_L g_m s^3 + L_1 L_4}{C_1 C_4 L_1 L_4 R_1 R_4 R_L s^5 + R_1 R_4 + 2 R_1 R_L + s^4 \left(C_1 C_4 L_1 L_4 R_1 R_4 + 2 C_1 C_4 L_1 L_4 R_1 R_4 + C_4 C_L L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 R_4 R_L \right) + s^3 \left(C_1 C_L L_1 R_1 R_4 R_L + C_4 L_1 R_4 R_L \right) +
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{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_4C_LL_1L_4R_1R_4g_ms + s^3\left(C_4L_1L_4R_1R_4g_ms + s^3\left(C_4L_1L_4R_1R_4g_m + C_LL_1L_4R_1R_Lg_m\right) + s^2\left(C_LL_1L_4R_1R_4g_m + C_LL_1L_4R_1R_4g_m 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{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, L_L s + \frac{1}{C_L s}\right)
 C_4C_LL_1L_4L_LR_1R_4g_ms^5 + C_LL_1L_4L_LR_1g_ms^4 + L_1L_4R_1g_ms^2 + L_1R_1R_4g_ms + s^3\left(C_4L_1L_4R_1R_1g_ms^2 + L_1R_1R_4g_ms^2 + L
 \frac{C_4C_LL_1L_4L_LR_1g_ms^5 + C_LL_1L_4L_LR_1g_ms^4 + L_1L_4R_1g_ms^4 + L_1L_4R_1g_ms^4 + L_1R_1R_4g_ms + s^5\left(C_4L_1L_4R_1R_4\right)}{2C_1C_4C_LL_1L_4L_LR_1s^6 + 2R_1 + s^5\left(C_1C_4C_LL_1L_4R_1R_4 + 2C_4C_LL_1L_4R_1 + C_4C_LL_1L_4R_1 + C_4C_LL_1L_4R_
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{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L s}{C_1 L_L s^2 + 1}\right)
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{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
 \frac{C_4C_LL_1L_4L_LR_1R_4g_ms^* + L_1R_1R_4g_ms^* + L_1R_1R_4g_ms^
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{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + s^5 \left(C_1 C_4 L_1 L_4 L_L R_1 R_4 + 2 C_1 C_4 L_1 L_4 L_L R_1 R_L + C_1 C_L L_1 L_4 L_L R_1 R_4 R_L + C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + C_4 C_L L_4
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{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
 \overline{R_{1}R_{4} + 2R_{1}R_{L} + s^{6}\left(C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4} + 2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{L}\right) + s^{5}\left(2C_{1}C_{4}L_{1}L_{4}L_{L}R_{1} + C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m} + 2C_{4}C_{L}L_{1}L_{4}L_{L}R_{4} + 2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4} + 2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2} + 2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{1} + 2C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{1} + 2C_{4}C_{L}L_{1}L_{4}L_{1}R_{1} + 2C_{4}C_{L}L
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10.812 INVALID-ORDER-812  $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ 

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10.822 INVALID-ORDER-822 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{C_4 L_4 R_4 s^2 + L_4 s + R_4}{C_4 L_4 s^2 + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
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10.823 INVALID-ORDER-823 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, R_L\right)$$

 $H(s) = \frac{C_4 L_1 L_4 R_1 R_4 R_L g_m s^3 + L_1 R_1 R_4 R_L g_m s}{R_1 R_4 + 2 R_1 R_L + s^4 \left( C_1 C_4 L_1 L_4 R_1 R_4 + 2 C_1 C_4 L_1 L_4 R_1 R_4 + C_4 L_1 L_4 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L + C_4 L_1 L_4 R_1 R_4 R_L + C_4 L_4 R_1 R_L + C_4 L_4 R$ 

10.824 INVALID-ORDER-824 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{1}{C_L s}\right)$$

10.825 INVALID-ORDER-825 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

10.826 INVALID-ORDER-826 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, R_L + \frac{1}{C_L s}\right)$$

10.827 INVALID-ORDER-827 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, L_L s + \frac{1}{C_L s}\right)$$

10.828 INVALID-ORDER-828 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

 $H(s) = \frac{C_4 L_1 L_4 L_L R_1 R_4 g_m s^4 + L_1 L_L R_1 R_4 g_m s^4 +$ 

10.829 INVALID-ORDER-829 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

 $\overline{2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}s^{6}+2R_{1}+s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}L_{1}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}+2C_{4}C_{L}L_{1}L_{4$ 

10.830 INVALID-ORDER-830 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

 $H(s) = \frac{1}{C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + s^5 \left( C_1 C_4 L_1 L_4 L_L R_1 R_4 + 2 C_1 C_4 L_1 L_4 L_L R_1 R_4 + 2 C_1 C_4 L_1 L_4 L_L R_1 R_4 R_L + C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + C_4 C_L L_4 L_L R_1 R_4 R$ 

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10.831 INVALID-ORDER-831 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \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}, \infty, \frac{C_L L_L R_L s^2 + L_L s + R_L}{C_L L_L s^2 + 1}\right)
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 $H(s) = \frac{1}{R_1 R_4 + 2 R_1 R_L + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 R_L + 2 C_1 C_4 L_L L_4 L_L R_1 R_4 R_L + 2 C_1 C_4 L_1 L_4 L_L R_1 R_1 R_L + 2 C_1 C_4 L_1 L_4 L_L R_1 R_1 R_L + 2 C_1 C_4 L_1 L_4 L_L R_1 R_1 R_L + 2 C_1 C_4 L_1 L_4 L_1$ 

10.832 INVALID-ORDER-832 
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \infty, \infty, \frac{R_4 \left(C_4 L_4 s^2 + 1\right)}{C_4 L_4 s^2 + C_4 R_4 s + 1}, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{1}{R_1R_4 + 2R_1R_L + s^6\left(C_1C_4C_LL_1L_4L_LR_1R_4 + 2C_1C_4C_LL_1L_4L_RR_1R_L\right) + s^5\left(C_1C_4C_LL_1L_4R_1R_4R_L + 2C_1C_4C_LL_1L_4L_RR_1R_4R_L + 2C_4C_LL_1L_4L_RR_1R_4R_L + 2C_4C_LL_1L_4R_1R_4R_L + 2C_4C_LL_1L_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4R_1R_4$ 

**10.833** INVALID-ORDER-833 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1L_1R_1R_4g_ms^2 + L_1R_4g_ms + R_1R_4g_m}{2R_1g_m + s^3\left(C_1C_LL_1R_1R_4g_m + C_1C_LL_1R_4\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + C_LL_1R_4g_m\right) + s\left(C_LR_1R_4g_m + C_LR_4 + 2L_1g_m\right) + 2C_1L_1R_4g_m}$$

**10.834** INVALID-ORDER-834 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$$

$$H(s) = \frac{C_1L_1R_1R_4R_Lg_ms^2 + L_1R_4R_Lg_ms + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(C_1C_LL_1R_1R_4R_Lg_m + C_1C_LL_1R_4R_L\right) + s^2\left(C_1L_1R_1R_4g_m + 2C_1L_1R_1R_Lg_m + C_1L_1R_4 + 2C_1L_1R_L + C_LL_1R_4R_Lg_m\right) + s\left(C_LR_1R_4R_Lg_m + C_LR_4R_L + L_1R_4g_m + 2L_1R_Lg_m\right)}$$

**10.835** INVALID-ORDER-835 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1C_LL_1R_1R_4R_Lg_ms^3 + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_LL_1R_4R_Lg_m\right) + s\left(C_LR_1R_4R_Lg_m + L_1R_4g_m\right)}{2R_1g_m + s^3\left(C_1C_LL_1R_1R_4g_m + 2C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + C_LL_1R_4g_m + 2C_LL_1R_Lg_m\right) + s\left(C_LR_1R_4g_m + 2C_LR_1R_4g_m + 2C_LR_1R_4g_m + 2C_LR_1R_4g_m\right) + s\left(C_LR_1R_4g_m right) + s\left(C_LR_1R_4$$

10.836 INVALID-ORDER-836 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_1R_4g_ms^4 + C_LL_1L_LR_4g_ms^3 + L_1R_4g_ms + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_LL_LR_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_1C_LL_1L_LR_1g_m + 2C_1C_LL_1L_L\right) + s^3\left(C_1C_LL_1R_1R_4g_m + C_1C_LL_1L_Lg_m\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + C_LL_1R_4g_m + 2C_LL_L\right) + s\left(C_LR_1R_4g_m + C_LR_4 + 2L_1g_m\right) + 2C_LR_4g_m + c_LR_4g_m + c_LR_$$

10.837 INVALID-ORDER-837 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$$

$$H(s) = \frac{C_1L_1L_LR_1R_4g_ms^3 + L_1L_LR_4g_ms^2 + L_LR_1R_4g_ms}{R_1R_4g_m + R_4 + s^4\left(C_1C_LL_1L_LR_1R_4g_m + C_1C_LL_1L_LR_4\right) + s^3\left(2C_1L_1L_LR_1g_m + 2C_1L_1L_LR_4g_m\right) + s^2\left(C_1L_1R_1R_4g_m + C_1L_LR_1R_4g_m + C_LL_LR_4g_m\right) + s\left(L_1R_4g_m + 2L_LR_1g_m + 2L_LR_1g_m\right) + s\left(L_1R_4g_m + 2L_LR_1g_m\right) + s\left(L_1R_4g$$

**10.838** INVALID-ORDER-838 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_1R_4g_m + s^3\left(C_1C_LL_1R_1R_4g_m + C_LL_1L_LR_4g_m\right) + s^2\left(C_1L_1R_1R_4g_m + C_LL_1R_4g_m + C_LL_1R_4g_m\right) + s\left(C_LR_1R_4R_Lg_m + L_1R_4g_m\right) + s\left(C_LR_1R_4R_Lg_m + L_1R_4g_m\right) + s\left(C_LR_1R_4R_Lg_m + L_1R_4g_m\right) + s\left(C_LR_1R_4R_Lg_m + C_LL_1R_4g_m\right) + s\left(C_LR_1R_4g_m right) +$$

**10.839** INVALID-ORDER-839 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$$

$$H(s) = \frac{C_1L_1L_RR_4R_Lg_ms^3 + L_1L_LR_4R_Lg_ms^2 + L_LR_1R_4R_Lg_ms}{R_1R_4R_Lg_m + R_4R_L + s^4\left(C_1C_LL_1L_LR_1R_4R_Lg_m + C_1C_LL_1L_RR_4R_Lg_m + C_1L_LL_RR_4R_Lg_m + C_1L_LL_RR_4R_Lg_m + C_1L_LR_4R_Lg_m + C_1L_LR_4R_Lg_$$

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10.840 INVALID-ORDER-840 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_4R_Lg_m + s^3\left(C_1L_1L_LR_1R_4g_m + C_LL_1L_LR_4R_Lg_m\right) + s^2\left(C_1L_1R_1R_4R_Lg_m + C_LL_LR_1R_4R_Lg_m + L_1L_LR_4g_m\right) + s\left(L_1R_4R_Lg_m + L_1L_LR_4g_m\right) + s\left(L_1R_4R_Lg_m + L_1L_LR_4g_m + L_1L_RR_4g_m\right) + s\left(L_1R_4R_Lg_m + L_1L_RR_4g_m + L_1L_RR_4g_m\right) + s\left(L_1R_4R_4g_m + L_1L_RR_4g_m + L_1L_RR_4g_m\right) + s\left(L_1R_4g_m + L_1L
10.841 INVALID-ORDER-841 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, R_4, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
 C_{1}C_{L}L_{1}L_{L}R_{1}R_{4}R_{L}g_{m}s^{4} + C_{L}L_{1}L_{L}R_{4}R_{L}g_{m}s^{3} + L_{1}R_{4}R_{L}g_{m}s + R_{1}R_{4}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}R_{4}R_{L}g_{m} + C_{L}L_{L}R_{1}R_{4}R_{L}g_{m}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_4R_Lg_ms^4 + C_LL_1L_LR_4R_Lg_ms^3 + L_1R_4R_Lg_ms + R_1R_4R_Lg_m + s^2\left(C_1L_1R_1R_4R_Lg_m + C_LL_LR_1R_4R_Lg_m\right)}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^4\left(C_1C_LL_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_4g_m + C_1C_LL_1L_LR_4g_m + C_1C_LL_1L_LR_4g_m + C_1C_LL_1L_LR_4g_m + C_1C_LL_1L_LR_4g_m + C_1C_LL_1L_RR_4g_m + C_1C_LL_1L_1R_4g_m + C_1C_LL_1L_1R_4g_m + C_1C_LL_1L_1R_4g_m + C_1C_LL_1L_1R_4g_m + C_1C_
10.842 INVALID-ORDER-842 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + L_1R_Lg_ms + R_1R_Lg_m}{R_1g_m + s^3\left(2C_1C_4L_1R_1R_Lg_m + 2C_1C_4L_1R_L\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + 2C_4L_1R_Lg_m\right) + s\left(2C_4R_1R_Lg_m + 2C_4R_L + L_1g_m\right) + 1}
10.843 INVALID-ORDER-843 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, \infty, \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1L_1R_1g_ms^2 + L_1g_ms + R_1g_m}{s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(2C_4L_1g_m + C_LL_1g_m\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_L\right)}
10.844 INVALID-ORDER-844 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
 H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + L_1R_Lg_ms + R_1R_Lg_m}{R_1g_m + s^3\left(2C_1C_4L_1R_1R_Lg_m + 2C_1C_4L_1R_L + C_1C_LL_1R_1R_Lg_m + C_1L_1R_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + 2C_4L_1R_Lg_m + C_LL_1R_Lg_m\right) + s\left(2C_4R_1R_Lg_m + 2C_4R_L + C_LR_1R_Lg_m + C_LR_L + L_1g_m\right) + 1}
10.845 INVALID-ORDER-845 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_LL_1R_1R_Lg_ms^3 + R_1g_m + s^2\left(C_1L_1R_1g_m + C_LL_1R_Lg_m\right) + s\left(C_LR_1R_Lg_m + L_1g_m\right)}{s^4\left(2C_1C_4C_LL_1R_1g_m + 2C_1C_4L_1R_L\right) + s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + 2C_4C_LL_1R_Lg_m\right) + s^2\left(2C_4C_LR_1R_Lg_m + 2C_4C_LR_1R_Lg_m + C_LL_1g_m\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1R_Lg_m + C_LL_1g_m\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1R_Lg_m + C_LL_1g_m\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1R_Lg_m + 2C_4C_LR_1R_Lg_m\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1R_Lg_m\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1R_Lg_m\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1R_1g_m\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1g_m\right) + s\left(2C_
10.846 INVALID-ORDER-846 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_LL_1L_LR_1g_ms^4 + C_LL_1L_Lg_ms^3 + L_1g_ms + R_1g_m + s^2\left(C_1L_1R_1g_m + C_LL_LR_1g_m\right)}{2C_4C_LL_1L_Lg_ms^4 + s^5\left(2C_1C_4C_LL_1L_LR_1g_m + 2C_1C_4L_LL_L\right) + s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + 2C_4C_LL_LR_1g_m + 2C_4C_LL_L\right) + s^2\left(2C_4L_1g_m + C_LL_1g_m\right) + s\left(2C_4R_1g_m + 2C_4C_4L_1R_1g_m + 2C_4C_4L_1R_1g_m + C_4C_4R_1g_m + C_4C_4R_1g_m + C_4C_4R_1g_m\right)}
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, \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
 H(s) = \frac{C_1L_1L_LR_1g_ms^3 + L_1L_Lg_ms^2 + L_LR_1g_ms}{L_1g_ms + R_1g_m + s^4\left(2C_1C_4L_1L_LR_1g_m + 2C_1C_4L_1L_L + C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(2C_4L_1L_Lg_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + 2C_4L_LR_1g_m + 2C_4L_L + C_LL_LR_1g_m + C_LL_L\right) + 1s^2\left(2C_4L_1L_Lg_m + C_4L_1L_LR_1g_m + C_4L_LR_1g_m + C_4L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_LR_1g_m + C_4L_1L_LR_1g_m + C_4L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_LR_1g_m + C_4L_1L_LR_1g_m + C_4L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_LR_1g_m + 2C_4L_LR_1g_m + C_4L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_LR_1g_m + C_4L_1L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_LR_1g_m + C_4L_1L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_LR_1g_m + C_4L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_LR_1g_m + C_4L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_LR_1g_m + C_4L_LR_1g_m\right) + s^2\left(2C_4L_1L_1R_1g_m + C_4L_1R_1g_m\right) + s^2\left(2C_4L_1R_1g_m right) + s
10.848 INVALID-ORDER-848 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{1}{C_4 s}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_LR_1g_m + s^3\left(C_1C_LL_1R_1g_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_LL_1R_1g_m + C_LL_1R_1g_m\right) + s\left(C_LR_1R_Lg_m + L_1g_m\right)}{s^5\left(2C_1C_4C_LL_1L_LR_1g_m + 2C_1C_4C_LL_1R_1g_m + 2C_1C_4C_LL_1R_1g_m + 2C_1C_4L_1R_1g_m + 2C_1C_4L_1R_1g_m + 2C_4C_LL_1R_1g_m + 2C_4C_LL_1R_1g_
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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, \frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
H(s) = \frac{C_1C_LL_1L_LR_1g_ms^4 + R_1R_Lg_m + s^3\left(C_1L_1L_LR_1g_m + C_LL_1L_LR_1g_m + C_LL_LR_1g_m + C_LL_LR_1R_Lg_m + L_1L_Lg_m\right) + s^2\left(C_1L_1R_1R_Lg_m + C_LL_LR_1R_Lg_m + L_1L_Lg_m\right) + s\left(L_1R_Lg_m + C_LL_LR_1R_Lg_m + C_LL_
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, \frac{1}{C_4s}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
 C_{1}C_{L}L_{1}L_{L}R_{1}R_{L}g_{m}s^{4} + C_{L}L_{1}L_{L}R_{L}g_{m}s^{3} + L_{1}R_{L}g_{m}s + R_{1}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}R_{L}g_{m} + C_{L}L_{L}R_{1}R_{L}g_{m}\right)
H(s) = \frac{C_1 C_L L_1 L_L R_1 R_L g_m s + C_L L_1 L_L R_1 g_m s + C_L L_1 L_L R_1 g_m s + C_1 L_L R_1 g_m s + C_1 L_L R_1 g_m + S \cdot (C_1 L_1 R_1 R_L g_m + S \cdot (C_1 L_1 R_1 R_L g_m + C_1 L_L R_1 R_L
10.852 INVALID-ORDER-852 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{R_4}{C_4 R_4 s + 1}, \infty, R_L\right)
 H(s) = \frac{C_1L_1R_4R_Lg_ms^2 + L_1R_4R_Lg_ms + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(2C_1C_4L_1R_1R_4R_Lg_m + 2C_1C_4L_1R_4R_L\right) + s^2\left(C_1L_1R_1R_4g_m + 2C_1L_1R_1R_4g_m + C_1L_1R_4 + 2C_1L_1R_L + 2C_4L_1R_4R_Lg_m\right) + s\left(2C_4R_1R_4R_Lg_m + 2C_4R_4R_L + L_1R_4g_m + 2L_1R_Lg_m\right)}
10.853 INVALID-ORDER-853 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \infty, \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1L_1R_1R_4g_ms^2 + L_1R_4g_ms + R_1R_4g_m}{2R_1g_m + s^3\left(2C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_4 + C_1C_LL_1R_1R_4g_m + C_1C_LL_1R_4\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + 2C_4L_1R_4g_m + C_LL_1R_4g_m\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4 + C_LR_1R_4g_m + C_LR_4 + 2L_1g_m\right) + 2C_4R_4g_m + 2C_4R_4g_m + 2C_4R_4g_m + 2C_4R_4g_m + 2C_4R_4g_m + 2C_4R_4g_m + 2C_4R_4g_m\right) + s\left(2C_4R_1R_4g_m + 2C_4R_4g_m + 2C_4R_4
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{R_4}{C_4R_4s + 1}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
H(s) = \frac{C_1L_1R_1R_4R_Lg_ms^2 + L_1R_4R_Lg_ms + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(2C_1C_4L_1R_1R_4R_Lg_m + 2C_1C_4L_1R_4R_Lg_m + C_1C_LL_1R_4R_Lg_m + C_1L_1R_4R_Lg_m
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{R_4}{C_4R_4s + 1}, \infty, R_L + \frac{1}{C_Ls}\right)
 C_{1}C_{L}L_{1}R_{1}R_{4}R_{L}g_{m}s^{3} + R_{1}R_{4}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}R_{4}g_{m} + C_{L}L_{1}R_{4}R_{L}g_{m}\right) + s\left(C_{L}R_{1}R_{4}R_{L}g_{m} + L_{1}R_{4}g_{m}\right)
H(s) = \frac{C_1C_LL_1R_1R_4R_Lg_ms^3 + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_LL_1R_4R_Lg_m\right) + s\left(C_LR_1R_4R_Lg_m + L_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_4R_Lg_m + 2C_1C_4L_1R_4R_Lg_m\right) + s^2\left(2C_1L_1R_1R_4g_m + 2C_1L_1R_4R_Lg_m\right) + s^2\left(2C_1L_1R_4R_Lg_m\right) +
10.856 INVALID-ORDER-856 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \infty, L_Ls + \frac{1}{C_Ls}\right)
 C_1C_LL_1L_LR_1R_4g_ms^4 + C_LL_1L_LR_4g_ms^3 + L_1R_4g_ms + R_1R_4g_m + s^2(C_1L_1R_1R_4g_m + C_LL_LR_1R_4g_m)
H(s) = \frac{C_1C_LL_1L_LR_1R_4g_ms^4 + C_LL_1L_LR_4g_ms^5 + L_1R_4g_ms^5 + L_1R_4g
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{R_4}{C_4R_4s + 1}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
 C_1L_1L_LR_1R_4g_ms^3 + L_1L_LR_4g_ms^2 + L_LR_1R_4g_ms
H(s) = \frac{C_1L_1L_LR_1R_4g_ms^3 + L_1L_LR_4g_ms^2 + L_LR_1R_4g_ms}{R_1R_4g_m + R_4 + s^4\left(2C_1C_4L_1L_LR_1R_4g_m + 2C_1C_4L_1L_LR_4g_m + C_1C_LL_1L_LR_4g_m + C_1L_LL_RR_4g_m + C_1L_LL_RR_4g_m + C_1L_LR_4g_m + C_1L_L
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 $H(s) = \frac{C_1L_1L_LR_1g_ms^3 + L_1L_LR_Lg_ms^2 + L_LR_1R_Lg_ms}{R_1R_Lg_m + R_L + s^4\left(2C_1C_4L_1L_LR_1g_m + 2C_1C_4L_1L_LR_1R_Lg_m + C_1C_LL_1L_LR_1g_m + C_1L_LL_RL_g_m + C_LL_LL_RL_g_m + C_LL_LL_RL_g_m + C_LL_LR_1g_m + C_LL_RR_1g_m + C_LL_RR_1g_m + C_LL_RR_1g_m + C_LR_1g_m + C_LR_1$ 

**10.849** INVALID-ORDER-849  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$ 

10.861 INVALID-ORDER-861  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4}{C_4R_4s + 1}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$ 

**10.864** INVALID-ORDER-864  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$ 

 $H(s) = \frac{C_1C_4L_1R_1R_4R_Lg_ms^3 + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_4L_1R_4R_Lg_m\right) + s\left(C_4R_1R_4R_Lg_m + L_1R_Lg_m\right)}{R_1g_m + s^4\left(C_1C_4C_LL_1R_1R_4g_m + C_1C_4L_1R_1R_4g_m + C_1C_4L_1R_1R_Lg_m + C_1C_4L_1R_4R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1R_4R_Lg_m + C_1C_4L_1R_4R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1C_4L_1R_4R_Lg_m + C_1C_4L_1R_4R_Lg_$ 

**10.865** INVALID-ORDER-865  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)$ 

 $H(s) = \frac{C_1C_4C_LL_1R_1R_4R_Lg_m s^4 + R_1g_m + s^3\left(C_1C_4L_1R_1R_4g_m + C_4C_LL_1R_4R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_4C_LR_1R_4R_Lg_m + C_4L_1R_4g_m +$ 

**10.866** INVALID-ORDER-866  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)$ 

 $H(s) = \frac{C_1C_4C_LL_1L_LR_1R_4g_ms^5 + R_1g_m + s^4\left(C_1C_LL_1L_LR_1g_m + C_4C_LL_1L_LR_4g_m\right) + s^3\left(C_1C_4L_1R_1R_4g_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_4L_1R_4g_m + C_LL_1R_1g_m\right) + s\left(C_4R_1R_4g_m + C_LL_1R_1g_m\right) + s\left(C_4R_1R_4g_m + C_LL_1R_1g_m + C_4L_1R_4g_m\right) + s^2\left(C_1L_1R_1g_m + C_4L_1R_4g_m + C_4L_1R_4g_m + C_4L_1R_4g_m\right) + s^2\left(C_4R_1R_4g_m + C_4R_4R_4g_m + C_4R_4R_4g_m\right) + s^2\left(C_4R_1R_4g_m + C_4R_4R_4g_m + C_4R_4R_4g_m\right) + s^2\left(C_4R_1R_4g_m + C_4R_4R_4g_m + C_4R_4R_4g_m\right) + s^2\left(C_4R_4R_4g_m + C_4R_4R_4g_m\right) + s^2\left(C_4R_4R_4g_m + C_4R_4R_4g_m + C_4R_4R_4g_m\right) + s^2\left(C_4R_4R_4g_m + C_4R_4R_4g_m\right) + s^2\left(C_4R$ 

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10.867 INVALID-ORDER-867 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
 C_1C_4L_1L_LR_1R_4g_ms^4 + L_LR_1g_ms + s^3\left(C_1L_1L_LR_1g_m + C_4L_1L_LR_4g_m\right) + s^2\left(C_4L_LR_1R_4g_m + L_1L_Lg_m\right)
H(s) = \frac{C_1C_4L_1L_LR_1R_4g_ms^2 + L_LR_1g_ms + s^3\left(C_1L_1L_LR_1g_m + C_4L_1L_LR_4g_m\right) + s^2\left(C_4L_LR_1R_4g_m + L_1L_Lg_m\right)}{R_1g_m + s^5\left(C_1C_4L_LL_1L_LR_4g_m + C_1C_4L_1L_LR_4g_m + C_1C_4L_1L_LR_4g_m + C_4C_4L_1L_LR_4g_m + C_4C_4L_4R_4g_m + C_4C_4R_4g_m + C_4C_4
10.868 INVALID-ORDER-868 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}, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_4C_LL_1L_LR_1g_m + s^4\left(C_1C_4C_LL_1R_1R_4g_m + C_1C_LL_1L_LR_1g_m + C_4C_LL_1R_1R_4g_m + C_4C_LL_1R_4g_m + C_4C_
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, R_4 + \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
 C_1C_4L_1L_LR_1R_4R_Lg_ms^4
H(s) = \frac{\sum_{1 \le 4 \le L_1 \le L_2 \le m} (C_1 \le C_2 \le L_2 \le L_2 \le L_2 \le L_3 \le L_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, R_4 + \frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
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, R_4 + \frac{1}{C_4s}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
 C_1C_4C_LL_1L_LR_1R_4R_Lg_ms^5 + R_1R_Lg_m + s^4(C_1C_LL_1)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}R_{4}g_{m}+S_{1}C_{1}C_{L}L_{L}}{R_{1}g_{m}+s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}R
10.872 INVALID-ORDER-872 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, R_L\right)
 H(s) = \frac{C_1C_4L_1L_4R_1R_Lg_ms^4 + C_4L_1L_4R_Lg_ms^3 + L_1R_Lg_ms + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_4L_4R_1R_Lg_m\right)}{R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4\right) + s^3\left(2C_1C_4L_1R_1R_Lg_m + 2C_1C_4L_1R_L + C_4L_1L_4g_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + 2C_4L_1R_Lg_m + C_4L_4R_1g_m + C_4L_4\right) + s\left(2C_4R_1R_Lg_m + 2C_4R_L + L_1g_m\right) + 1}
10.873 INVALID-ORDER-873 Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + \frac{1}{C_4 s}, \infty, \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_4L_1L_4R_1g_ms^4 + C_4L_1L_4g_ms^3 + L_1g_ms + R_1g_m + s^2\left(C_1L_1R_1g_m + C_4L_4R_1g_m\right)}{C_4C_LL_1L_4g_ms^4 + s^5\left(C_1C_4C_LL_1L_4R_1g_m + C_1C_4L_1L_4\right) + s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + C_4C_LL_4R_1g_m + C_4C_LL_4\right) + s^2\left(2C_4L_1g_m + C_LL_1g_m\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_1C_LL_1\right) + s^2\left(2C_4L_1g_m + C_4C_LL_4\right) + s^2\left(2C_4L_1g_m + C_4C_LL_4
10.874 INVALID-ORDER-874 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 + \frac{1}{C_4 s}, \infty, \frac{R_L}{C_L R_L s + 1}\right)
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 $H(s) = \frac{C_1C_4L_1L_4R_1R_Lg_ms^4 + C_4L_1L_4R_Lg_ms^3 + L_1R_Lg_ms + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_4L_4R_1R_Lg_m\right)}{R_1g_m + s^5\left(C_1C_4L_LL_4R_1R_Lg_m + C_1C_4L_1L_4R_Lg_m + C_4C_LL_4R_1R_Lg_m + C_4C_LL_4R_1R$ 

**10.875** INVALID-ORDER-875  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)$ 

 $H(s) = \frac{C_1C_4C_LL_1L_4R_1R_Lg_ms^5 + R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_4C_LL_1R_1R_Lg_m + C_4C_LL_4R_1R_Lg_m + C_4L_4R_1g_m + C_4L_4R_$ 

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10.876 INVALID-ORDER-876 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_LR_1g_ms^6 + C_4C_LL_1L_4L_Lg_ms^5 + L_1g_ms + R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_4C_LL_4L_LR_1g_m\right) + s^3\left(C_4L_1L_4g_m + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_m\right) + s^2\left(C_1L_1R_1g_m right) + s^2\left(C_1L_1R_1g_m\right) + s^2\left(C_1L_1R_1g_m\right) + s^2\left(C_1L_1R_1g
10.877 INVALID-ORDER-877 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}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
 C_{1}C_{4}L_{1}L_{4}L_{L}R_{1}g_{m}s^{5} + C_{4}L_{1}L_{4}L_{L}g_{m}s^{4} + L_{1}L_{L}g_{m}s^{2} + L_{L}R_{1}g_{m}s + s^{3}\left(C_{1}L_{1}L_{L}R_{1}g_{m} + C_{4}L_{4}L_{L}R_{1}g_{m}\right)
 \frac{C_1C_4L_1L_4L_LR_1g_ms + L_1L_Lg_ms + L_1L_Lg_ms + L_1L_Lg_ms + L_1L_Lg_ms + L_1L_1g_ms + L_
10.878 INVALID-ORDER-878 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}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_Rg_ms^6 + R_1g_m + s^5\left(C_1C_4C_LL_1L_4R_1g_m + C_4C_LL_1L_4R_1g_m + C_4C_LL_1L_4R_1g_m + C_4C_LL_4L_Rg_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_4C_LL_1L_4R_1g_m + C_4C_LL_4L_Rg_m + C_4C_LL_4R_1g_m + C_4C_LL_4
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, L_4s + \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
 C_1C_4L_1L_4L_LR_1R_Lg_ms
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, L_4s + \frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
 H(s) = \frac{C_1C_4C_LL_1L_4L_LR_1g_ms^\circ + R_1R_Lg_m + s^\circ \left(C_1C_4L_LL_4L_LR_1g_m + C_4C_LL_1L_4L_LR_1g_m + s^\circ \left(C_1C_4L_LL_4L_LR_1g_m + s^\circ \left(C_1C_4L_LL_4L_LR_1g_m + C_4C_LL_LL_4L_Rg_m + s^\circ \left(C_1C_4L_LL_4L_LR_1g_m + C_4C_LL_LL_4L_Rg_m + s^\circ \left(C_1C_4L_LL_4L_Rg_m
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, L_4s + \frac{1}{C_4s}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
 C_1C_4C_LL_1L_4L_LR_1R_Lg_ms^6 + C_4C_LL_1L_4L_LR_Lg_ms^5
 \frac{1}{R_{1}g_{m}+s^{6}\left(C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}+C_{1}C_{4}C_{L}L_{1}L_{4}R_{L}g_{m}+
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, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, R_L\right)
 H(s) = \frac{C_1L_1L_4R_1R_Lg_ms^3 + L_1L_4R_Lg_ms^2 + L_4R_1R_Lg_ms}{2R_1R_Lg_m + 2R_L + s^4\left(2C_1C_4L_1L_4R_1R_Lg_m + 2C_1C_4L_1L_4R_L\right) + s^3\left(C_1L_1L_4R_1g_m + C_1L_1L_4 + 2C_4L_1L_4R_Lg_m\right) + s^2\left(2C_1L_1R_1R_Lg_m + 2C_4L_4R_1R_Lg_m + 2C_4L_4R_L + L_1L_4g_m\right) + s\left(2L_1R_Lg_m + L_4R_1g_m + L_4R_1g_m + L_4R_1g_m\right) + s\left(2L_1R_Lg_m + 2C_4L_4R_1R_Lg_m + 2C_4L_4R_1R_Lg_m + 2C_4L_4R_1R_Lg_m\right) + s\left(2L_1R_Lg_m right) + s\left(2L_1R_Lg_m\right
10.883 INVALID-ORDER-883 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, \frac{1}{C_Ls}\right)
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10.883 INVALID-ORDER-883 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_1L_1L_4R_1g_ms^3 + L_1L_4g_ms^2 + L_4R_1g_ms}{2L_1g_ms + 2R_1g_m + s^4\left(2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1L_4R_1g_m + C_1C_LL_1L_4\right) + s^3\left(2C_4L_1L_4g_m + C_LL_1L_4g_m\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + 2C_4L_4R_1g_m + 2C_4L_4 + C_LL_4R_1g_m + C_LL_4\right) + 2c_4R_1g_m + c_4R_1g_m + c_4R_1g$$

**10.884** INVALID-ORDER-884  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$ 

 $C_1L_1L_4R_1R_Lg_ms^3 + L_1L_4R_Lg_ms^2 + L_4R_1R_Lg_ms$  $H(s) = \frac{C_1L_1L_4R_1R_Lg_ms^3 + L_1L_4R_Lg_ms^2 + L_4R_1R_Lg_ms}{2R_1R_Lg_m + 2R_L + s^4(2C_1C_4L_1L_4R_1R_Lg_m + 2C_1C_4L_1L_4R_1R_Lg_m + C_1L_1L_4R_1g_m + C_1L_1L_4R_1g_$ 

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10.885 INVALID-ORDER-885 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 s}{C_4 L_4 s^2 + 1}, \infty, R_L + \frac{1}{C_L s}\right)
 C_1C_LL_1L_4R_1R_Lg_ms^4 + L_4R_1g_ms + s^3\left(C_1L_1L_4R_1g_m + C_LL_1L_4R_Lg_m\right) + s^2\left(C_LL_4R_1R_Lg_m + L_1L_4g_m\right)
H(s) = \frac{C_1C_LL_1L_4R_1R_Lg_ms^2 + L_4R_1g_ms + s^3\left(C_1L_1L_4R_1g_m + C_LL_1L_4R_Lg_m\right) + s^2\left(C_LL_4R_1R_Lg_m + L_1L_4g_m\right)}{2R_1g_m + s^5\left(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_4C_4L_1L_4R_1g_m + 2C_4C_4L_4R_1R_4g_m + 2C_4C_4L_4R_1R_4g_m + 2C_4C_4L_4R_4R_4g_m + 2C_4C_4L_4R_4g_m + 2C_4C_4L_4R
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, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, L_Ls + \frac{1}{C_Ls}\right)
 C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}s^{5} + C_{L}L_{1}L_{4}L_{L}g_{m}s^{4} + L_{1}L_{4}g_{m}s^{2} + L_{4}R_{1}g_{m}s + s^{3}\left(C_{1}L_{1}L_{4}R_{1}g_{m} + C_{L}L_{4}L_{L}R_{1}g_{m}\right)
 \frac{C_1C_LL_1L_4L_Lg_ms^{\circ} + C_LL_1L_4L_Lg_ms^{\circ} + L_1L_4g_ms^{\circ} + L_1L
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, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, \frac{L_Ls}{C_4L_4s^2 + 1}\right)
H(s) = \frac{C_1L_1L_4L_LR_1g_ms^3 + L_1L_4L_Lg_ms^2 + L_4L_LR_1g_ms}{L_4R_1g_m + L_4 + 2L_LR_1g_m + 2L_L + s^4\left(2C_1C_4L_1L_4L_LR_1g_m + 2C_1C_4L_1L_4L_LR_1g_m + C_1C_LL_1L_4L_LR_1g_m + C_1L_1L_4L_Lg_m\right) + s^3\left(2C_4L_1L_4L_Lg_m + C_1L_1L_4L_Lg_m + C_1L_1L_4R_1g_m + C_1L_1L_4R_1g_m + C_1L_1L_4R_1g_m + C_1L_1L_4R_1g_m + C_1L_1L_4R_1g_m + C_1L_1L_4R_1g_m + C_1L_1L_4R_1g_m\right) + s^3\left(2C_4L_1L_4L_1R_1g_m + C_1L_1L_4R_1g_m + C_1L_1
10.888 INVALID-ORDER-888 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}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
 C_1C_LL_1L_4L_LR_1g_ms^5 + L_4R_1g_ms + s^4(C_1C_LL_1L_4R_1g_ms^5)
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, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
 C_1L_1L_4L_LR_1R_Lg_ms^3 + L_1L_4L_LR_Lg_ms^2 + L_4L_LR_1R_Lg_ms
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, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
H(s) = \frac{C_1 C_L L_1}{2R_1 R_L g_m + 2R_L + s^6 \left(2C_1 C_4 C_L L_1 L_4 L_L R_1 R_L g_m + 2C_1 C_4 L_L L_4 L_L R_1 g_m + 2C_1 C_4 L_1 L_4 L_1 R_1 g_m + 2C
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10.891 INVALID-ORDER-891 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2 + 1}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$$

**10.892** INVALID-ORDER-892 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, R_L\right)$$

 $H(s) = \frac{C_1C_4L_1L_4R_1R_Lg_m + s^3\left(C_1C_4L_1R_1R_Lg_m + C_4L_1L_4R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_4L_1R_Lg_m + C_4L_1R_L$ 

**10.893** INVALID-ORDER-893 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_4L_1L_4R_1g_ms^4 + R_1g_m + s^3\left(C_1C_4L_1R_1R_4g_m + C_4L_1L_4g_m\right) + s^2\left(C_1L_1R_1g_m + C_4L_4R_1g_m\right) + s\left(C_4R_1R_4g_m + L_1g_m\right)}{s^5\left(C_1C_4C_LL_1L_4R_1g_m + C_1C_4C_LL_1R_4g_m + C_1C_4L_1R_4g_m + C_4C_LL_1R_4g_m + C_4C_LL_$ 

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10.894 INVALID-ORDER-894 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
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 $H(s) = \frac{C_1C_4L_1L_4R_1R_Lg_ms^4 + R_1R_Lg_m + s^5\left(C_1C_4L_1R_1R_4R_Lg_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4R_1g_m + s^5\left(C_1C_4L_1R_1R_4R_Lg_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4R_1g_m + s^5\left(C_1C_4L_1R_1R_4g_m + C_1C_4L_1R_4R_Lg_m + C$ 

10.895 INVALID-ORDER-895  $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, R_L + \frac{1}{C_L s}\right)$ 

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

10.896 INVALID-ORDER-896  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_{Ls}}\right)$ 

 $H(s) = \frac{C_1C_4C_LL_1L_4L_R_1g_ms^6 + R_1g_m + s^5\left(C_1C_4C_LL_1L_LR_1R_4g_m + C_4C_LL_1L_LR_1g_m + s^4\left(C_1C_4L_1L_LR_1g_m + C_4C_LL_1L_LR_1g_m + C_4C_LL_1L_LR_1g_m + C_4C_LL_1L_LR_1g_m + C_4C_LL_1L_LR_1g_m + C_4C_LL_1L_RR_1g_m + C_4C_LL_1R_1g_m + C_4C_LL_1R$ 

10.897 INVALID-ORDER-897  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$ 

 $C_1C_4L_1L_4L_LR_1g_ms^5 + L_LR_1g_ms + s^4(C_1C_4L_1L_LR_1R_4g_m + C_4L_1L_1R_1R_4g_m + C_4L_1R_1R_4g_m + C_4L_1R_4g_m + C_4L_1R_$  $H(s) = \frac{C_1C_4L_1L_4L_LR_1g_m + C_1C_4L_1L_4L_LR_1g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1R_4g_m + C_1C_4L_4R_1g_m + C_1C$ 

10.898 INVALID-ORDER-898  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$ 

 $\frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}s^{6}+R_{1}g_{m}+s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{4}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{4}C_{L}L_{4}L_{4}R_{1}g_{m}+C_{4}C_{L}L_{4}L_{4}R_{1}g_{m}+C_{4}C_{L}L_{4}L_{4}R_{4}g_{m}+C_{4}C_{L}L_{4}L_{4}R_{4}g_{m}+C_{4}C_{L}L_{4}L_{4}R_{4}g_{m}+C_{4}C_{L}L_{4}L_{4}R_{4}g_{m}+C_{4}C_{L}L_{4}L_{4}$ 

10.899 INVALID-ORDER-899  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$ 

 $H(s) = \frac{1}{R_1 R_L g_m + R_L + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_1 g_m + C_1 C_4 L_1 L_4 L_1 R_1 g_m + C_1 C_4 L_1 L_4 R_1 R_1 g_m + C_1 C_4 L_4 R_1 R_1 g_m + C_1 C_4 L_4 L_4 R_1 R_1 g_m + C_1 C_4 L$ 

10.900 INVALID-ORDER-900  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)$ 

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

10.901 INVALID-ORDER-901  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$ 

 $H(s) = \frac{1}{R_{1}g_{m} + s^{6}\left(C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m} + C_{1}C_{4}C_{L}L_{1}L_{4}R_{L}g_{m} + C_{1}C_{4}C_{L}L_{1}L_{4}R_{L}g_{m} + C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{4}C_{L}L_{1}L_{1}R_{1}R_{2}g_{m} + C$ 

10.902 INVALID-ORDER-902  $Z(s) = \left(\frac{C_1 L_1 R_1 s^2 + L_1 s + R_1}{C_1 L_1 s^2 + 1}, \infty, \infty, \frac{L_4 R_4 s}{C_4 L_4 R_4 s^2 + L_4 s + R_4}, \infty, R_L\right)$ 

 $C_1L_1L_4R_1R_4R_Lg_ms^3 + L_1L_4R_4R_Lg_ms^2 + L_4R_1R_4R_Lg_ms$ 

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10.903 INVALID-ORDER-903 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, \frac{1}{C_Ls}\right)
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 $H(s) = \frac{C_1L_1L_4R_1R_4g_ms^3 + L_1L_4R_4g_ms^2 + L_4R_1R_4g_ms}{2R_1R_4g_m + 2R_4 + s^4\left(2C_1C_4L_1L_4R_1R_4g_m + 2C_1L_1L_4R_4g_m + C_1L_1L_4R_4g_m + C_1L_4R_4g_m + C_1L_4R_4g$ 

10.904 INVALID-ORDER-904  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$ 

 $C_1L_1L_4R_1R_4R_Lg_ms^3 + L_1L_4R_4R_Lg_ms^2 + L_4R_1R_4R_Lg_ms$ 

 $\frac{C_1L_1L_4R_1R_4R_Lg_ms^5 + L_1L_4R_4R_Lg_ms^5 + L_4R_1R_4R_Lg_ms}{2R_1R_4R_Lg_m + 2R_4R_L + s^4\left(2C_1C_4L_1L_4R_1R_4R_Lg_m + 2C_1L_1L_4R_4R_Lg_m + C_1L_1L_4R_4R_Lg_m + C_1L_4R_4R_Lg_m + C_$ 

10.905 INVALID-ORDER-905  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, R_L + \frac{1}{C_Ls}\right)$ 

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

**10.906** INVALID-ORDER-906  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, L_Ls + \frac{1}{C_Ls}\right)$ 

 $H(s) = \frac{C_1C_LL_1L_4L}{2R_1R_4g_m + 2R_4 + s^6\left(2C_1C_4C_LL_1L_4L_LR_1R_4g_m + 2C_1C_4L_LL_4L_LR_4g_m + s^4\left(2C_1C_4L_1L_4L_LR_4g_m + s^4\left(2C_1C_4L_1L_4R_4g_m + 2C_1C_4L_1L_4R_4g_m + s^4\left(2C_1C_4L_1L_4R_4g_m + 2C_1C_4L_1L_4R_4g_m + s^4\left(2C_1C_4L_1L_4R_4g_m + s^4\right)\right)\right)\right)\right)\right)$ 

10.907 INVALID-ORDER-907  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$ 

 $C_1L_1L_4L_LR_1R_4g_ms^3 + L_1L_4L_LR_4g_ms^2 + L_4L_LR_1R_4g_ms$ 

 $H(s) = \frac{C_1L_1L_4L_LR_1R_4g_ms^3 + L_1L_4L_LR_4g_ms^3 + L_1L_4L_LR_4g_ms^3 + L_4L_LR_4g_ms^3 + L_4L$ 

10.908 INVALID-ORDER-908  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$ 

 $H(s) = \frac{1}{2R_{1}R_{4}g_{m} + 2R_{4} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{L}R_{4}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{4}R_{4}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{4}R_{4}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{4}R_{4}g_{m} + 2C_{1}C_{4}L_{4}L_{4}R_{4}g_{m}  

10.909 INVALID-ORDER-909  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)$ 

10.910 INVALID-ORDER-910  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)$ 

10.911 INVALID-ORDER-911  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2 + L_4s + R_4}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$ 

 $H(s) = \frac{1}{2R_{1}R_{4}R_{L}g_{m} + 2R_{4}R_{L} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{L}R_{4}R_{L}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}R_{2}g_{m} + 2C_{1$ 

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\frac{C_{1}C_{4}L_{1}L_{4}R_{1}R_{4}R_{L}g_{m}+s^{3}\left(C_{1}L_{1}L_{4}R_{1}R_{L}g_{m}+C_{4}L_{1}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}L_{4}R_{L}g_{m}+C_{4}
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{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{1}{C_Ls}\right)
 C_{1}C_{4}L_{1}L_{4}R_{1}R_{4}g_{m}s^{4} + R_{1}R_{4}g_{m} + s^{3}\left(C_{1}L_{1}L_{4}R_{1}g_{m} + C_{4}L_{1}L_{4}R_{4}g_{m}\right) + s^{2}\left(C_{1}L_{1}R_{1}R_{4}g_{m} + C_{4}L_{4}R_{1}R_{4}g_{m} + L_{1}L_{4}g_{m}\right) + s\left(L_{1}R_{4}g_{m} + L_{4}R_{1}g_{m}\right) + s\left(L_{1}R_{4}g_{m} + L_{4}R_{1}
 \frac{C_1C_4L_1L_4R_1q_m + s^*(C_1L_1L_4R_1q_m + C_4L_1L_4R_1q_m + C_4L_1L_4R_1q_m + C_4L_4R_1q_m
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{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)
 C_1C_4L_1L_4R_1R_4R_Lq_m
 \frac{C_1C_4L_1L_4R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^5\left(C_1C_4C_LL_1L_4R_1R_4g_m + C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1R_Lg_m + C_1C_4L_1L_4R_1R_Lg_m + C_1C_4L_1L_4R_1R_1g_m + C_1C_4L_1R_1g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4R
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{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, R_L + \frac{1}{C_Ls}\right)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{m}+C_{1}C_{L}L_{1}L_{4}R_{1}g_{
10.916 INVALID-ORDER-916 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_LR_1g_m + s^5\left(C_1C_LL_1L_4L_LR_1g_m + C_4C_LL_1L_4L_LR_4g_m\right) + s^4\left(C_1C_4L_1L_4R_1R_4g_m + C_1C_LL_1L_LR_1R_4g_m + C_4C_LL_4L_4R_4g_m\right) + s^4\left(C_1C_4L_1L_4L_1R_4g_m + C_4C_LL_4L_4R_4g_m\right) + s^4\left(C_1C_4L_4L_4R_4g_m + C_4C_LL_4L_4R_4g_m + C_4C_LL_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4L_4R_4g_m + C_4C_4L_4L_4R_4g_m + C_4C_4L_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4L_4R_4g_m + C_4C_4L_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4L_4R_4g_m + C_4C_4L_4L_4R_4g_m + C_4C_4L_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4L_4R_4g_m + C_4C_4L_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4L_4R_4g_m + C_4C_4L_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4L_4R_4g_m + C_4C_4L_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^4\left(C_4C_4L_4R_4g_m right) + s^4\left(C_4C_4L_4R
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{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)
 C_1C_4L_1L_4L_LR_1R_4g_m
 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{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_4L_RR_1g_ms^6 + R_1R_4g_m + s^5\left(C_1C_4C_LL_1L_4R_1R_4g_m + C_1C_LL_1L_4L_RR_1g_m + C_4C_LL_1L_4L_RR_4g_m\right) + s^4\left(C_1C_4L_1L_4R_1R_4g_m + C_1C_LL_1L_4R_1R_4g_m + C_1C_LL_1L
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{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2 + L_Ls + R_L}\right)
10.920 INVALID-ORDER-920 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)
 C_1C_4C_LL_1L_4L_LR_1R_4R_Lg_ms^6
H(s) = \frac{C_1C_4C_LL_1L_4L_LR_1g_m + R_4 + 2R_L + s^6\left(C_1C_4C_LL_1L_4L_LR_1R_4g_m + 2C_1C_4C_LL_1L_4L_LR_1 + 2C_1C_4C_LL_1L_4L_LR_1g_m + 2C_1C_4C_LL_1L_4L_1g_m + 2C_1C_4C_LL_1L_4L_1g_m + 2C_1C_4C_LL_1L_4L_1g_m + 2C_1C_4C_LL_1L_4L_1g_m + 2C_1C_4C_LL_1L_
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{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, \frac{R_L(C_LL_Ls^2 + 1)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)
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10.912 INVALID-ORDER-912  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{C_4L_4R_4s^2 + L_4s + R_4}{C_4L_4s^2 + 1}, \infty, R_L\right)$ 

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10.922 INVALID-ORDER-922 Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4(C_4L_4s^2 + 1)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, R_L\right)
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 $H(s) = \frac{C_1C_4L_1L_4R_1R_4R_Lg_ms^4 + C_4L_1L_4R_4g_ms^3 + L_1R_4R_Lg_ms + R_1R_4R_Lg_m + s^2\left(C_1L_1R_1R_4R_Lg_m + C_4L_4R_1R_4g_m + C_4L_4R_1R_4g_m\right)}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^4\left(C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_1R_4g_m + 2C_1L_4R_1R_4g_m + 2C_4L_4R_4g_m + 2$ 

10.923 INVALID-ORDER-923 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, \frac{1}{C_{Ls}}\right)$$

 $H(s) = \frac{C_1C_4L_1L_4R_1R_4g_ms^4 + C_4L_1L_4R_4g_ms^3 + L_1R_4g_ms + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_4L_4R_1R_4g_m\right)}{2R_1g_m + s^5\left(C_1C_4L_LL_4R_4g_m + C_4C_LL_4R_4g_m + s^2\left(C_1L_4R_4g_m + C_4C_LL_4R_4g_m\right) + s^3\left(2C_1C_4L_1R_4R_4g_m + C_4C_LL_4R_4g_m + C_4C_LL_4R_4g_m + C_4C_LL_4R_4g_m\right) + s^2\left(2C_1L_4R_4R_4g_m + s^2\left(C_4L_4R_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^2\left(2C_4L_4R_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^2\left(2C_4L_4R_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^2\left(2C_4L_4R_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^2\left(2C_4L_4R_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^2\left(2C_4L_4R_4R_4g_m + C_4C_4L_4R_4g_m + C_4C_4L_4R_4g_m\right) + s^2\left(2C_4L_4R_4g_m + C_4C_4L_$ 

10.924 INVALID-ORDER-924 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, \frac{R_L}{C_LR_Ls + 1}\right)$$

 $H(s) = \frac{C_1C_4L_1L_4R_1R_4R_Lg}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^5\left(C_1C_4C_LL_1L_4R_1R_4R_Lg_m + C_1C_4L_1L_4R_1R_4g_m + 2C_1C_4L_1L_4R_4R_Lg_m + C_1C_4L_1L_4R_4R_Lg_m + C_1C_4L_1L_4R_4R_$ 

10.925 INVALID-ORDER-925 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4(C_4L_4s^2 + 1)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, R_L + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_4C_LL_1L_4R_1R_4g_m + s^5}{2R_1g_m + s^5\left(C_1C_4C_LL_1L_4R_1R_4g_m + 2C_1C_4C_LL_1L_4R_1R_4g_m + 2C_1C_4C_LL_1L_4R_1g_m + 2C_1C_4C$ 

10.926 INVALID-ORDER-926 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_4C_LL_1L_4L_LR_1R_4g_ms^6 + C_4C_LL_1L_4L_RR_1R_4g_ms^6 + C_4C_LL_1L_4L_RR_1R_4g_ms^6 + C_4C_LL_1L_4L_RR_1R_4g_ms^6 + C_4C_LL_1L_4L_RR_1R_4g_ms^6 + C_4C_LL_1L_4R_1R_4g_ms^6 + C_4C_LL_1L_4R_1R_4g$ 

10.927 INVALID-ORDER-927 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1}\right)$$

 $I(s) = \frac{C_1C_4L_1L_4L_LR_1R_4g}{R_1R_4g_m + R_4 + s^6\left(C_1C_4C_LL_1L_4L_LR_1R_4g_m + C_1C_4L_LL_4L_LR_4g_m + s^6\left(C_1C_4L_1L_4L_LR_1R_4g_m + C_1C_4L_1L_4L_LR_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_1C_4L_1L_4R_4g_m + C_1C_4L_1L_4R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_1C_4L_1L_4R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_1C_4L_1L_4R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + C_1C_4L_1L_4R_4g_m + s^4\left(C_1C_4L_1L_4R_4g_m + s^4\left(C_1C_4R_4g_m + s^4\left(C_1C_4R_4R_4g_m + s^4\left(C_1C_4R_4R_4g_$ 

10.928 INVALID-ORDER-928 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{1}{2R_{1}g_{m} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}\right) + s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_$ 

10.929 INVALID-ORDER-929 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4(C_4L_4s^2 + 1)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, \frac{L_LR_Ls}{C_LL_RL_s^2 + L_Ls + R_L}\right)$$

 $H(s) = \frac{1}{R_1 R_4 R_L g_m + R_4 R_L + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 R_L g_m + C_1 C_4 L_L L_4 L_L R_4 R_L \right) + s^5 \left( C_1 C_4 L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_1 L_4 L_L R_4 R_L g_m + C_1 C_4 L_4 L_4 R_4 R_L g_m + C_1 C_4 L_4 R_4 R_L g_m + C_1 C_4 L_4 L_4 R_4 R_L g_m + C_1 C_4 L_4 R_4 R$ 

10.930 INVALID-ORDER-930 
$$Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, \frac{C_LL_LR_Ls^2 + L_Ls + R_L}{C_LL_Ls^2 + 1}\right)$$

 $H(s) = \frac{1}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 R_L g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 R$ 

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H(s) = \frac{1}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^6 \left(C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 R_L g_m + C_1 C_4 C_L L_1 L_4 R_4 R_L + 2 C_1 C
10.932 INVALID-ORDER-932 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1L_1R_1R_4g_ms^2 + R_1R_4g_m}{2R_1g_m + s^3\left(C_1C_LL_1R_1R_4g_m + C_1C_LL_1R_4\right) + s^2\left(C_1C_LR_1R_4 + 2C_1L_1R_1g_m + 2C_1L_1\right) + s\left(2C_1R_1 + C_LR_1R_4g_m + C_LR_4\right) + 2C_1R_1R_4g_m + C_2R_4R_4g_m + C_
10.933 INVALID-ORDER-933 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, \frac{R_L}{C_LR_Ls+1}\right)
 H(s) = \frac{C_1L_1R_1R_4R_Lg_ms^2 + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(C_1C_LL_1R_1R_4R_Lg_m + C_1C_LL_1R_4R_L\right) + s^2\left(C_1C_LR_1R_4R_L + C_1L_1R_1R_4g_m + 2C_1L_1R_1R_Lg_m + C_1L_1R_4 + 2C_1L_1R_L\right) + s\left(C_1R_1R_4 + 2C_1R_1R_L + C_LR_1R_4R_Lg_m + C_LR_4R_L\right)}
10.934 INVALID-ORDER-934 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, R_L + \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_LL_1R_1R_4R_Lg_ms^3 + C_1L_1R_1R_4g_ms^2 + C_LR_1R_4R_Lg_ms + R_1R_4g_m}{2R_1g_m + s^3\left(C_1C_LL_1R_1R_4g_m + 2C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_4 + 2C_1C_LL_1R_1\right) + s^2\left(C_1C_LR_1R_4 + 2C_1C_LR_1R_L + 2C_1L_1R_1g_m + 2C_1L_1\right) + s\left(2C_1R_1 + C_LR_1R_4g_m + 2C_LR_1R_Lg_m + C_LR_4 + 2C_LR_L\right) + 2c_1C_LR_1R_4g_m + 2c_1C_LR_1R_1g_m + 2c_1C_LR_1R_1g_m + 2c_1C_LR_1R_1g_m + 2c_1C_LR_1R_1g_m + 2c_1C_LR_1R_1g_m + 2c_1C_LR_1g_m + 2c_1C_LR_1g_m + 2c_1C_LR_1g_m
10.935 INVALID-ORDER-935 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, R_4, \infty, L_Ls + \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_LL_1L_LR_1R_4g_ms^4 + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_LL_LR_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_1C_LL_1L_LR_1g_m + 2C_1C_LL_1L_L\right) + s^3\left(C_1C_LL_1R_1R_4g_m + C_1C_LL_1R_1\right) + s^2\left(C_1C_LR_1R_4 + 2C_1L_LR_1g_m + 2C_1L_1 + 2C_LL_LR_1g_m + 2C_LL_L\right) + s\left(2C_1R_1 + C_LR_1R_4g_m + C_LR_4\right) + 2C_1R_1R_4g_m + C_1R_4g_m +
10.936 INVALID-ORDER-936 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, R_4, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
 10.937 INVALID-ORDER-937 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_4g_ms^4 + C_1C_LL_1R_1R_4g_ms^3 + C_LR_1R_4g_ms + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_LL_LR_1R_4g_m\right)}{2R_1g_m + s^4\left(2C_1C_LL_1L_LR_1g_m + 2C_1C_LL_1L_L\right) + s^3\left(C_1C_LL_1R_1R_4g_m + 2C_1C_LL_1R_1R_4g_m + C_1C_LL_1R_1 + 2C_1C_LL_1R_1\right) + s^2\left(C_1C_LR_1R_4 + 2C_1C_LL_1R_1g_m + 2C_1L_1R_1g_m + 2C_LL_1\right) + s\left(2C_1R_1 + C_LR_1R_4g_m + 2C_LR_1R_4\right)}
10.938 INVALID-ORDER-938 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, R_4, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
 \frac{C_{1}L_{1}L_{L}R_{1}R_{4}R_{L}g_{m}s^{3}+L_{L}R_{1}R_{4}R_{L}g_{m}s}{R_{1}R_{4}R_{L}g_{m}+R_{4}R_{L}+s^{4}\left(C_{1}C_{L}L_{1}L_{L}R_{1}R_{4}R_{L}g_{m}+C_{1}L_{L}L_{R}R_{4}R_{L}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C_{1}L_{L}R_{1}R_{2}+C
10.939 INVALID-ORDER-939 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_4R_Lg_ms^4 + C_1L_1L_LR_1R_4g_ms^3 + L_LR_1R_4g_ms + R_1R_4R_Lg_m + s^2\left(C_1L_1R_1R_4R_Lg_m + C_LL_LR_1R_4R_Lg_m + C_LL_LR_1R_4R_Lg_m\right)}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^4\left(C_1C_LL_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_4 + 2C_1C_LL_1L_LR_1R_4 + 2C_1C_LL_1L_1R_1R_4 + 2C_1C_LL_1R_1R_4 + 2C_1
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10.931 INVALID-ORDER-931  $Z(s) = \left(\frac{C_1L_1R_1s^2 + L_1s + R_1}{C_1L_1s^2 + 1}, \infty, \infty, \frac{R_4\left(C_4L_4s^2 + 1\right)}{C_4L_4s^2 + C_4R_4s + 1}, \infty, \frac{R_L\left(C_LL_Ls^2 + 1\right)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$ 

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10.940 INVALID-ORDER-940 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.941 INVALID-ORDER-941 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \infty, R_L\right)
 H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^3\left(2C_1C_4L_1R_1R_Lg_m + 2C_1C_4L_1R_L\right) + s^2\left(2C_1C_4R_1R_L + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + 2C_4R_1R_Lg_m + 2C_4R_L\right) + 1}
10.942 INVALID-ORDER-942 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \infty, \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1 L_1 R_1 g_m s^2 + R_1 g_m}{s^3 \left(2 C_1 C_4 L_1 R_1 q_m + 2 C_1 C_4 L_1 + C_1 C_L L_1 R_1 q_m + C_1 C_L L_1\right) + s^2 \left(2 C_1 C_4 R_1 + C_1 C_L R_1\right) + s \left(2 C_4 R_1 q_m + 2 C_4 + C_L R_1 q_m + C_L\right)}
10.943 INVALID-ORDER-943 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls+1}\right)
 H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^3\left(2C_1C_4L_1R_1R_Lg_m + 2C_1C_4L_1R_L + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(2C_1C_4R_1R_L + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + 2C_4R_1R_Lg_m + 2C_4R_L + C_LR_1R_Lg_m + C_LR_L\right) + 1}
10.944 INVALID-ORDER-944 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_LL_1R_1R_Lg_ms^3 + C_1L_1R_1g_ms^2 + C_LR_1R_Lg_ms + R_1g_m}{s^4\left(2C_1C_4C_LL_1R_1g_m + 2C_1C_4L_1R_L\right) + s^3\left(2C_1C_4C_LR_1R_L + 2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1R_Lg_m + 2C_4C_LR_1R_Lg_m + 2C_4C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1R_Lg_m + 2C_4C_LR_1R_1R_1g_m + 2C_4C_LR_1R_1g_m + 2C_4C_LR_1g_m + 2
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, \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_LL_1L_LR_1g_ms^4 + R_1g_m + s^2\left(C_1L_1R_1g_m + C_LL_LR_1g_m\right)}{2C_1C_4C_LL_LR_1s^4 + s^5\left(2C_1C_4C_LL_1L_LR_1g_m + 2C_1C_4C_LL_1L_L\right) + s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + 2C_4C_LL_LR_1g_m + 2C_4C_LL_L\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4C_LL_1R_1g_m + C_1C_LL_1R_1g_m + C_1C_LR_1g_m + C_1C_LL_1R_1g_m + C_1C_LL_1R_1g_m + C_1C_LR_1g_m + C_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, \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
 H(s) = \frac{C_1L_1L_LR_1g_ms^3 + L_LR_1g_ms}{C_1R_1s + R_1g_m + s^4\left(2C_1C_4L_1L_LR_1g_m + 2C_1C_4L_1L_L + C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(2C_1C_4L_LR_1 + C_1C_LL_LR_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + 2C_4L_LR_1g_m + 2C_4L_L + C_LL_LR_1g_m + C_LL_L\right) + 1}
10.947 INVALID-ORDER-947 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
 \frac{C_{1}C_{L}L_{1}L_{L}R_{1}g_{m}s^{4}+C_{1}C_{L}L_{1}R_{1}R_{L}g_{m}s^{3}+C_{L}R_{1}R_{L}g_{m}s+R_{1}g_{m}+s^{2}\left(C_{1}L_{1}R_{1}g_{m}+C_{L}L_{L}R_{1}g_{m}\right)}{s^{5}\left(2C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}g_{m}+2C_{1}C_{4}C_{L}L_{1}R_{L}+2C_{1}C_{4}C_{L}L_{1}R_{1}+s^{2}\left(2C_{1}C_{4}C_{L}L_{1}R_{1}R_{L}+2C_{1}C_{4}L_{L}R_{1}R_{L}+2C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{L}L_{1}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}+c_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}+c_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}+c_{1}C_{L}L_{1}+
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, \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
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 $H(s) = \frac{C_1L_1L_LR_1R_Lg_ms^3 + L_LR_1R_Lg_ms}{R_1R_Lg_m + R_L + s^4\left(2C_1C_4L_1L_LR_1R_Lg_m + 2C_1C_4L_1L_LR_1R_Lg_m + C_1C_LL_1L_LR_1\right) + s^3\left(2C_1C_4L_LR_1R_L + C_1L_LL_RR_1g_m + C_1L_LL_R\right) + s^2\left(C_1L_1R_1R_Lg_m + C_1L_1L_LR_1 + C_1L_LR_1R_Lg_m + C_1L_LR_1\right) + s^2\left(C_1L_1R_1R_Lg_m + C_1L_1L_LR_1 + C_1L_LR_1R_Lg_m + C_1L_LR_1\right) + s^2\left(C_1L_1R_1R_Lg_m + C_1L_1R_L + C_1L_LR_1R_Lg_m + C_1L_1R_L\right) + s^2\left(C_1L_1R_1R_Lg_m + C_1L_1R_L + C_1L_LR_1R_Lg_m + C_1L_1R_L\right) + s^2\left(C_1L_1R_1R_Lg_m + C_1L_1R_Lg_m + C_1L_1R_L\right) + s^2\left(C_1L_1R_1R_Lg_m + C_1L_1R_Lg_m\right) + s$ 

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10.949 INVALID-ORDER-949 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ \frac{1}{C_4s}, \ \infty, \ \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
10.950 INVALID-ORDER-950 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{1}{C_4s}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
H(s) = \frac{C_{1}C_{L}L_{1}L_{L}R_{1}R_{L}g_{m}s^{4} + R_{1}R_{L}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}R_{L}g_{m} + C_{L}L_{L}R_{1}R_{L}g_{m}\right)}{R_{1}g_{m} + s^{5}\left(2C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}R_{L}g_{m} + 2C_{1}C_{4}L_{L}L_{L}R_{1}R_{L}g_{m} + 2C_{1}C_{4}L_{L}L_{L}R_{1}R_{L}g_{m} + 2C_{1}C_{4}L_{L}L_{L}R_{1}R_{L}g_{m} + C_{1}C_{L}L_{1}R_{L}R_{L}g_{m} + 2C_{1}C_{4}L_{L}R_{1}R_{L}g_{m} + 2C_{1}C_{4}L_{L}R_{1}R_{L}g_{m
10.951 INVALID-ORDER-951 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, R_L\right)
 H(s) = \frac{C_1L_1R_1R_4R_Lg_ms^2 + R_1R_4R_Lg_m}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^3\left(2C_1C_4L_1R_1R_4R_Lg_m + 2C_1C_4L_1R_4R_L\right) + s^2\left(2C_1C_4R_1R_4R_L + C_1L_1R_1R_4g_m + 2C_1L_1R_1R_Lg_m + C_1L_1R_4 + 2C_1L_1R_L\right) + s\left(C_1R_1R_4 + 2C_1R_1R_L + 2C_4R_1R_4R_Lg_m + 2C_4R_4R_L\right)}
10.952 INVALID-ORDER-952 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1L_1R_1R_4g_ms^2 + R_1R_4g_m}{2R_1g_m + s^3\left(2C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_4 + C_1C_LL_1R_1R_4g_m + C_1C_LL_1R_4\right) + s^2\left(2C_1C_4R_1R_4 + C_1C_LR_1R_4 + C_1C_LR_1R_1R_4 + C_1C_LR_1R_1R_1R_1R_1R_1R_1R
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, \infty, \frac{R_4}{C_4R_4s+1}, \infty, \frac{R_L}{C_LR_Ls+1}\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, \infty, \frac{R_4}{C_4R_4s+1}, \infty, R_L + \frac{1}{C_Ls}\right)
 \frac{C_{1}C_{L}L_{1}R_{1}R_{4}R_{L}g_{m}s^{3}+C_{1}L_{1}R_{1}R_{4}g_{m}s^{2}+C_{L}R_{1}R_{4}R_{L}g_{m}s+R_{1}R_{4}g_{m}}{2R_{1}g_{m}+s^{4}\left(2C_{1}C_{4}C_{L}L_{1}R_{1}R_{4}R_{L}g_{m}+2C_{1}C_{4}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}R_{1}R_{2}g_{m}+2C_{1}C_{
10.955 INVALID-ORDER-955 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_LR_1R_4g_ms^4 + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_LL_LR_1R_4g_m + C_LL_LR_1R_4g_m\right)}{2R_1g_m + s^5\left(2C_1C_4C_LL_1L_LR_1R_4g_m + 2C_1C_4L_LL_1L_LR_1g_m + 2C_1C_LL_1L_L\right) + s^3\left(2C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_4 + 2C_1C_LL_1R_1R_4g_m + 2C_1C_4L_1R_4\right) + s^4\left(2C_1C_4L_1L_1R_4g_m + 2C_1C_4L_1R_4g_m + 2C_1C_4L_1R_4g_m + 2C_4C_4L_1R_4\right) + s^4\left(2C_1C_4C_4L_1L_1R_4g_m + 2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4\right) + s^4\left(2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4\right) + s^4\left(2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4\right) + s^4\left(2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4\right) + s^4\left(2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4g_m + 2C_4C_4L_1R_4\right) + s^4\left(2C_4C_4L_4R_4g_m + 2C_4C_4L_4R_4\right) + s^4\left(2C_4C_4L_4R_4g_m + 2C_4C_4L_4R_4\right) + s^4\left(2C_4C_4L_4R_4 + 2C_4C_4L_4R_4\right) + s^4\left(2C_4C_4R_4g_m + 2C_4C_4L_4R_4\right) + s^4\left(2C_4C_4R_4g_m + 2C_4C_4R_4g_m + 2C_4C_4R_4\right) + s^4\left(2C_4C_4R_4g_m + 2C_4C_4R_4g_m + 2C_4C_4R_4\right) + s^4\left(2C_4C_4R_4g_m + 2C_4C_4R_4g_m + 2C_4C_4R_4\right) + s^4\left(2C_4C_4R_4g_m + 2C_4C_4R_4g_m + 2C_4
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{R_4}{C_4R_4s+1}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
 \frac{C_{1}L_{1}L_{1}R_{4}g_{m}s^{3}+L_{L}R_{1}R_{4}g_{m}s}{R_{1}R_{4}g_{m}+R_{4}+s^{4}\left(2C_{1}C_{4}L_{1}L_{L}R_{1}R_{4}g_{m}+2C_{1}L_{L}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{L}L_{L}L_{R}R_{4}g_{m}+C_{1}C_{L}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}L_{
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 $H(s) = \frac{1}{2R_1g_m + s^5 \left(2C_1C_4C_LL_1L_LR_1R_4g_m + 2C_1C_4C_LL_1L_LR_4\right) + s^4 \left(2C_1C_4C_LL_1R_1R_4R_Lg_m + 2C_1C_4C_LL_1R_1R_4 + 2C_1C_LL_1L_LR_1g_m + 2C_1C_LL_1L_L\right) + s^3 \left(2C_1C_4C_LR_1R_4R_L + 2C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_4g_m + 2C_$ 

10.957 INVALID-ORDER-957  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$ 

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10.958 INVALID-ORDER-958 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
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{R_4}{C_4R_4s+1}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
H(s) = \frac{1}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^5 \left(2 C_1 C_4 C_L L_1 L_L R_1 R_4 R_L g_m + 2 C_1 C_4 L_L L_L R_1 R_4 R_L + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L L_L R_1 R_4 g_m + 2 C_1 C_4 L_L
10.960 INVALID-ORDER-960 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4}{C_4R_4s+1}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
 \frac{1}{R_{1}R_{4}g_{m}+2R_{1}R_{L}g_{m}+R_{4}+2R_{L}+s^{5}\left(2C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}R_{4}R_{L}g_{m}+2C_{1}C_{4}L_{L}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m}+2C_{1}C_{L}L_{1}
10.961 INVALID-ORDER-961 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, R_L\right)
 H(s) = \frac{C_1C_4L_1R_1R_4R_Lg_ms^3 + C_1L_1R_1R_Lg_ms^2 + C_4R_1R_4R_Lg_ms + R_1R_Lg_m}{R_1g_m + s^3\left(C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_1R_Lg_m + C_1C_4L_1R_1\right) + s^2\left(C_1C_4R_1R_4 + 2C_1C_4R_1R_L + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_4R_1R_4g_m + 2C_4R_1R_Lg_m + C_4R_4 + 2C_4R_L\right) + 1}
10.962 INVALID-ORDER-962 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_4L_1R_1R_4g_ms^3 + C_1L_1R_1g_ms^2 + C_4R_1R_4g_ms + R_1g_m}{s^4\left(C_1C_4C_LL_1R_1R_4g_m + C_1C_4L_1R_4\right) + s^3\left(C_1C_4C_LR_1R_4 + 2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_1C_LL_1\right) + s^2\left(2C_1C_4R_1 + C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s\left(2C_4R_1g_m + 2C_4C_LR_1g_m + C_4C_LR_1\right) + s^2\left(2C_4R_1g_m + C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s^2\left(2C_4R_1g_m + 2C_4C_LR_1R_4g_m + C_4C_LR_4\right) + s^2\left(2C_4R_1g_m + 2C_4C_LR_1R_4\right) + s^2\left(2C_4R_1g_m + 2C_4C_LR_1
10.963 INVALID-ORDER-963 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls+1}\right)
 10.964 INVALID-ORDER-964 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, R_4 + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1R_1R_4R_Lg_ms^4 + R_1g_m + s^3\left(C_1C_4L_1R_1R_4g_m + C_1C_LL_1R_1R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_4C_LR_1R_4R_Lg_m\right) + s\left(C_4R_1R_4g_m + C_LR_1R_Lg_m\right)}{s^4\left(C_1C_4C_LL_1R_1R_4g_m + 2C_1C_4L_1R_1R_4g_m + 2C_1C_4L_1R_4g_m +
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, R_4 + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}g_{m}s^{5}+C_{1}C_{L}L_{1}L_{L}R_{1}g_{m}s^{4}+C_{4}R_{1}R_{4}g_{m}s+R_{1}g_{m}+s^{3}\left(C_{1}C_{4}L_{L}R_{1}R_{4}g_{m}+C_{4}C_{L}L_{L}R_{1}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{1}g_{m}+C_{L}L_{L}R_{1}g_{m}\right)}{s^{5}\left(2C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}g_{m}+2C_{1}C_{4}L_{L}L_{R}R_{1}g_{m}+2C_{1}C_{4}L_{L}R_{1}g_{m}+C_{1}C_{L}L_{R}R_{1}g
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, R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
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 $H(s) = \frac{C_1C_4L_1L_LR_1R_4g_ms + C_1L_LL_RR_1g_ms + C_4L_LR_1R_4g_ms + L_LR_1g_ms}{R_1g_m + s^5\left(C_1C_4C_LL_LL_RR_1R_4g_m + C_1C_4L_LL_RR_1R_4g_m + C_1C_4L_LL_RR_1R_4g_m + C_1C_4L_LR_1R_4g_m + C_$ 

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 $C_1C_4L_1L_LR_1R_4g_ms^4 + C_1L_1L_LR_1g_ms^3 + C_4L_LR_1R_4g_ms^2 + L_LR_1g_ms^3$ 

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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, R_4 + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_LR_1R_4g_ms^5 + R_1g_m + s^4\left(C_1C_4C_LL_1R_1R_4g_m + C_1C_LL_1L_Rg_m\right) + s^3\left(C_1C_4L_1R_1R_4g_m + C_1C_LL_1R_1R_4g_m + C_4C_LL_1R_1R_4g_m\right) + s^2\left(C_1L_1R_1g_m + C_4C_LL_1R_1g_m + C_4C_LL_1R_1g_m\right) + s^2\left(C_1L_1R_1R_4g_m + C_1C_LL_1R_1R_4g_m + C_4C_LL_1R_1R_4g_m\right) + s^2\left(C_1L_1R_1R_4g_m + C_4C_LL_1R_1R_4g_m +
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, R_4 + \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
 \frac{C_{1}C_{4}}{R_{1}R_{L}g_{m}+R_{L}+s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}R_{4}R_{L}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{4}L
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, R_4 + \frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
 H(s) = \frac{C_1C_4C_LL_1L_LR_1R_4g_ms^5 + R_1R_Lg_ms^5 + R_1R_Lg_m + S^5\left(C_1C_4L_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_Lg_m\right) + S^5\left(C_1C_4L_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_Lg_m\right) + S^5\left(C_1C_4L_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_4g_m\right) + S^5\left(C_1C_4L_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_4g_m + C_1C_LL_1L_LR_1R_4g_m\right) + S^5\left(C_1C_4L_1L_1R_1R_4g_m + C_1C_4L_1L_1R_1R_4g_m + C_1C_4L_1L_1R_1R_4g_m + C_1C_4L_1L_1R_1R_4g_m\right) + S^5\left(C_1C_4L_1L_1R_1R_4g_m + C_1C_4L_1L_1R_1R_4g_m + C_1C_4L_1R_1R_4g_m\right) + S^5\left(C_1C_4L_1R_1R_4g_m + C_1C_4L_1L_1R_1R_4g_m + C_1C_4L_1R_1R_4g_m\right) + S^5\left(C_1C_4L_1R_1R_4g_m + C_1C_4L_1L_1R_1R_4g_m + C_1C_4L_1R_1R_4g_m\right) + S^5\left(C_1C_4L_1R_1R_4g_m + C_1C_4L_1R_1R_4g_m + C_1C_4L_1R_1R_4g_m\right) + S^5\left(C_1C_4L_1R_1R_4g_m + C_1C_4L_1R_4g_m + C_1C_4L_1R_4g_m\right) + S^5\left(C_1C_4L_1R_4g_m + C_1C_4L_1R_4g
10.970 INVALID-ORDER-970 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}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
 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, L_4s + \frac{1}{C_4s}, \infty, R_L\right)
 H(s) = \frac{C_1C_4L_1L_4R_1R_Lg_ms^4 + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_4L_4R_1R_Lg_m\right)}{R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_4\right) + s^3\left(2C_1C_4L_1R_1R_Lg_m + 2C_1C_4L_1R_L + C_1C_4L_4R_1\right) + s^2\left(2C_1C_4R_1R_L + C_1L_1R_1g_m + C_1L_1 + C_4L_4R_1g_m + C_4L_4\right) + s\left(C_1R_1 + 2C_4R_1R_Lg_m + 2C_4R_L\right) + 1}
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, 1_4s + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_4L_1L_4R_1g_ms^4 + R_1g_m + s^2\left(C_1L_1R_1g_m + C_4L_4R_1g_m\right)}{C_1C_4C_LL_4R_1s^4 + s^5\left(C_1C_4C_LL_1L_4R_1g_m + C_1C_4L_1L_4\right) + s^3\left(2C_1C_4L_1R_1g_m + 2C_1C_4L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + C_4C_LL_4R_1g_m + C_4C_LL_4\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_4C_LL_4\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_4C_LL_4\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1\right) + s\left(2C_4R_1g_m + 2C_4 + C_LR_1g_m + C_4C_LL_4\right) + s^2\left(2C_1C_4R_1 + C_1C_LR_1\right) + s^2\left(2C_1C_4R_1 + C_1C_1R_1\right) + s^2\left(2C_1C_4R_1 + C_1C_1R_1\right) + s^2\left(2C_1C_4R_1 + C_1C_1R_1\right) + s^2\left(2C_1C_4R_1 + C_1
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, L_4s + \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls+1}\right)
 C_1C_4L_1L_4R_1R_Lg_ms^4 + R_1R_Lg_m + s^2(C_1L_1R_1R_Lg_m + C_4L_4R_1R_Lg_m)
H(s) = \frac{C_1C_4L_1L_4R_1R_Lg_ms^4 + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_4L_4R_1R_Lg_m\right)}{R_1g_m + s^5\left(C_1C_4C_LL_1L_4R_1R_Lg_m + C_1C_4L_1L_4R_1R_Lg_m + C_1C_4L_1R_1R_Lg_m + C_1C_4L_1R_1R_1g_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, L_4s + \frac{1}{C_4s}, \infty, R_L + \frac{1}{C_Ls}\right)
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 $H(s) = \frac{C_1C_4C_LL_1L_4R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_4C_LL_4L_1R_1g_m + C_4C_LL_4R_1g_m + C_4L_4R_1g_m + C_4L_4R_1g_$ 

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

10.975 INVALID-ORDER-975  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)$ 

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10.976 INVALID-ORDER-976 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}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1C_4L_1L_4L_R1g_ms^5 + L_LR_1g_ms + s^3\left(C_1L_1L_LR_1g_m + C_4L_4L_LR_1g_m\right)}{C_1C_4C_LL_4L_LR_1s^5 + C_1R_1s + R_1g_m + s^6\left(C_1C_4L_LL_4L_R1g_m + C_1C_4L_1L_4R_1g_m + C_1C_4L_1L_LR_1g_m + C_4C_LL_4L_LR_1g_m + C_4C_LL_4L_4R_1g_m + C_4C_LL_4R_1g_m + C_4C_LL_4R_1g
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, L_4s + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_4R_1g_ms^6 + C_1C_4C_LL_1L_4R_1g_ms^5 + C_LR_1R_Lg_ms + R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_4C_LL_4L_LR_1g_m\right) + s^3\left(C_1C_LL_1R_1R_Lg_m + C_4C_LL_4R_1g_m + C_4C_LL_4R_1g_m + C_4C_LL_4R_1g_m\right) + s^3\left(C_1C_LL_1R_1R_Lg_m + C_4C_LL_4R_1g_m +
10.978 INVALID-ORDER-978 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
H(s) = \frac{C_1}{R_1 R_L g_m + R_L + s^6 \left(C_1 C_4 C_L L_1 L_4 L_L R_1 R_L g_m + C_1 C_4 L_L L_4 L_L R_1 R_L + C_1 C_4 L_4 L_L R_1 R_L + C_1 C_4 L_4 L_4 L_4 R_1 R_L + C_1 C_4 R_1 R_L + C
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, L_4s + \frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
 C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{L}g_{m}s^{6} + C_{1}C_{4}L_{1}L_{4}L_{L}R_{1}g_{m}s^{5} + L_{L}R_{1}g_{m}s + R_{1}R_{L}g_{m} + s^{4}\left(C_{1}C_{4}L_{1}L_{4}R_{1}R_{L}g_{m}s^{6} + C_{1}C_{4}L_{1}L_{4}L_{L}R_{1}g_{m}s^{6} + L_{L}R_{1}g_{m}s^{6} + L
 \frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}s^{\circ} + C_{1}C_{4}L_{1}L_{4}L_{L}R_{1}g_{m}s^{\circ} + L_{L}R_{1}g_{m}s + R_{1}R_{L}g_{m} + s^{\circ}(C_{1}C_{4}L_{1}L_{4}R_{1}R_{L}g_{m} + S^{\circ}(C_{1}C_{4}L_{1}L_{4}L_{L}R_{1}g_{m} + C_{1}C_{4}L_{1}L_{4}R_{1}g_{m} + C_{1}C_{4}L_{4}L_{4}R_{1}g_{m} + C_{1}C_{4}L_{4}L_{4}R_{4}g_{m} + C_{1}C_{4}L
10.980 INVALID-ORDER-980 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, L_4s + \frac{1}{C_4s}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
H(s) = \frac{\sum_{1 \leq i_1 \leq i_2 \leq i_3 \leq i_4 \leq
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, \frac{L_4s}{C_4L_4s^2+1}, \infty, R_L\right)
 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, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1L_1L_4R_1g_ms^3 + L_4R_1g_ms}{2C_1R_1s + 2R_1g_m + s^4\left(2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1L_4 + C_1C_LL_1L_4R_1g_m + C_1C_LL_1L_4\right) + s^3\left(2C_1C_4L_4R_1 + C_1C_LL_4R_1\right) + s^2\left(2C_1L_1R_1g_m + 2C_1L_1 + 2C_4L_4R_1g_m + 2C_4L_4 + C_LL_4R_1g_m + C_LL_4\right) + 2C_4R_1g_ms^2 + C_4R_1g_ms^2 + C_4R_1g_
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10.984 INVALID-ORDER-984 
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, R_L + \frac{1}{C_Ls}\right)$$

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10.985 INVALID-ORDER-985 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_4L_LR_1g_ms^5 + L_4R_1g_ms + s^3\left(C_1L_1L_4R_1g_m + C_LL_4L_LR_1g_m\right)}{2C_1C_4C_LL_4L_LR_1s^5 + 2C_1R_1s + 2R_1g_m + s^6\left(2C_1C_4C_LL_1L_4L_LR_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_1L_4R_1g_m + 2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_4L_4R_1g_m + 2C_4C_4L_4L_4R_1g_m + 2C_4C_4L_4L_4R_1g_m + 2C_4C_4L_4L_4R_1g_m + 2C_4C_4L_4R_1g_m + 2C_4C_4L_4R_1g_m + 2C_4C_4R_4R_1g_m + 2C_4R_4R_1g_m + 2C_4R
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, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1L_1L_4L_LR_1g_ms^3 + L_4L_LR_1g_ms}{L_4R_1g_m + L_4 + 2L_LR_1g_m + 2L_L + s^4\left(2C_1C_4L_1L_4L_LR_1g_m + 2C_1C_4L_1L_4L_LR_1g_m + C_1C_LL_1L_4L_L\right) + s^3\left(2C_1C_4L_4L_LR_1\right) + s^3\left(2C_1C_4L_4L_LR_1\right) + s^2\left(C_1L_4L_4R_1g_m + C_1L_4L_4R_1g_m + C_1L_4R_1g_m +
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, \frac{L_4s}{C_4L_4s^2+1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1 C_L L_1 L_4 L_L R_1 g_m + s^6 \left(2 C_1 C_4 C_L L_1 L_4 L_L R_1 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L \right) + s^5 \left(2 C_1 C_4 C_L L_1 L_4 R_1 R_L g_m + 2 C_1 C_4 C_L L_4 L_4 R_1 R_L + 2 C_1 C_4 L_4 L_4 R_1 R_L + 2 C_1 C_4 L_4 L_4 R_1 g_m + 2 C_1 C_4 L_4 L_4 R_1 g_m + 2 C_1 C_4 L_4 L_4 R_1 g_m + 2 C_1 C_4 L_4 L_4 L_4 R_1 g_m + 2 C_1 C_4 L_4 L_4 L_4 R_1 g_m + 2 C_1 C_4 L_4 L_4 L_4 R_1 g_m + 2 C_1 C_4 L_4 L_4 R_4 R_4 R_4 R_4 R_4 R_4 R_4 R_4 R_4
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10.988 INVALID-ORDER-988  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$ 

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

10.989 INVALID-ORDER-989  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)$ 

 $H(s) = \frac{1}{2R_{1}R_{L}g_{m} + 2R_{L} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{L}g_{m} + 2C_{1}C_{4}L_{L}L_{L}R_{1}R_{L} + 2C_{1}C_{4}L_{L}L_{L}R_{1}R_{L} + 2C_{1}C_{4}L_{1}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{4}L_{4}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{4}L_{4}L_{4}L_{4}R_{1}R_{1}g_{m} + 2C_{1}C_{4}L_{4}L_{4}R_{1}R_{1}g_{m} + 2C_{1}C_{4}L_{4}L_{4}L_{4}R_{1}R_{1}g_{m} + 2C_{1}C_{4}L_{4}L_{4}L_{4}R_{1}R_{1}g_{m} + 2C_{1}C_{4}L_{4}L_{4}R_{1}R_{1}g_{m} + 2C_{1}C_{4}L_{4}L_{4}R_{1}R_{1}g$ 

10.990 INVALID-ORDER-990  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4s}{C_4L_4s^2+1}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$ 

10.991 INVALID-ORDER-991  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, R_L\right)$ 

 $H(s) = \frac{C_1C_4L_1L_4R_1R_Lg_ms^4 + C_1C_4L_1R_1R_4R_Lg_ms^3 + C_4R_1R_4R_Lg_ms + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_4L_4R_1R_Lg_m\right)}{R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_1C_4L_1R_1\right) + s^3\left(C_1C_4L_1R_1R_4g_m + C_1C_4L_1R_1R_Lg_m + C_1C_4L_1R_1R_Lg_m + C_4L_4R_1g_m + C_4R_1g_m + C_4R_1$ 

10.992 INVALID-ORDER-992  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{1}{C_Ls}\right)$ 

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

10.993 INVALID-ORDER-993  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{R_L}{C_LR_Ls+1}\right)$ 

 $C_1C_4L_1L_4R_1R_Lg_ms^4 + C_1C_4L_1R_1R_4R_Lg_m$ 

 $H(s) = \frac{\sum_{1 \leq a_1 \leq a_2 \leq a_3 \leq a_4 \leq a_1 \leq a_4 \leq$ 

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10.994 INVALID-ORDER-994 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \infty, \ \infty, \ L_4s+R_4+\frac{1}{C_4s}, \ \infty, \ R_L+\frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_4R_1R_Lg_ms^5 + R_1g_m + s^4\left(C_1C_4C_LL_1R_1R_4R_Lg_m + C_1C_4L_1R_1R_4g_m + C_1C_LL_1R_1R_Lg_m + C_4C_LL_4R_1R_Lg_m + s^4\left(C_1L_4R_1R_Lg_m + C_4C_LL_4R_1R_Lg_m + C_4C_LL_4
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, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_4R_1g_ms^6 + C_1C_4C_LL_1L_LR_1g_ms^6 + C_1C_4C_LL_1L_LR_1g_ms^5 + C_4R_1R_4g_ms^5 + C_4R_1R_4g_ms + R_1g_m + s^4\left(C_1C_4L_1L_4R_1g_m + C_4C_LL_4L_R_1g_m\right) + s^3\left(C_1C_4L_1R_1R_4g_m + C_4C_LL_4R_1g_m\right) + s^4\left(C_1C_4L_4R_1g_m + C_4C_4L_4R_1g_m\right) + s^4\left(C_1C_4
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, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1C_4L_1L_4L_LR_1g_m s^\circ + C_1C_4L_1L_LR_1g_m s^\circ + C_1C_4L_1L_1R_1g_m s^\circ + C_1C_4L
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, L_4s + R_4 + \frac{1}{C_4s}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}s^{6}+R_{1}g_{m}+s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{L}g_{m}+C_{1}C_{4}C_{L}L_{1}L_{L}R_{1}R_{4}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{4}L_{L}L_{L}R_{1}g_{m}+C_{1}C_{L}L_{L}L_{R}R_{1}g_{m}+C_{1}
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, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
H(s) = \frac{1}{R_1 R_L g_m + R_L + s^6 \left(C_1 C_4 C_L L_1 L_4 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_4 L_L R_1 R_L + C_1 C_4 C_L L_4 L_L R_1 R_L + C_1 C_4 L_1 R_1 R_L +
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, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
10.1000 INVALID-ORDER-1000 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, L_4s + R_4 + \frac{1}{C_4s}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
H(s) = \frac{1}{R_1 g_m + s^6 \left(C_1 C_4 C_L L_1 L_4 L_L R_1 g_m + C_1 C_4 C_L L_1 L_4 L_L \right) + s^5 \left(C_1 C_4 C_L L_1 L_4 R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 L_L R_1 R_L g_m + C_1 C_4 C_L L_1 R_1 R_L g_m + C_1 C_4 C_L R_1 R_L g_m + C
10.1001 INVALID-ORDER-1001 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}, \infty, R_L\right)
 \frac{C_{1}L_{1}L_{4}R_{1}R_{4}R_{L}g_{m}s^{3}+L_{4}R_{1}R_{4}R_{L}g_{m}s}{2R_{1}R_{4}R_{L}g_{m}+2R_{4}R_{L}+s^{4}\left(2C_{1}C_{4}L_{1}L_{4}R_{1}R_{4}R_{L}+C_{1}L_{4}R_{1}R_{4}R_{L}+C_{1}L_{1}L_{4}R_{1}R_{4}R_{L}+C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2C_{1}L_{4}R_{1}R_{2}+2
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, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, \frac{1}{C_Ls}\right)
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 $H(s) = \frac{C_1L_1L_4R_1R_4g_ms}{2R_1R_4g_m + 2R_4 + s^4\left(2C_1C_4L_1L_4R_1R_4g_m + 2C_1L_4L_4R_1R_4g_m + 2C_1L_4L_4R_1R_4g_m + 2C_1L_4R_1R_4g_m + 2$ 

 $C_1L_1L_4R_1R_4g_ms^3 + L_4R_1R_4g_ms$ 

10.1003 INVALID-ORDER-1003  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, \frac{R_L}{C_LR_Ls+1}\right)$ 

 $H(s) = \frac{C_1L_1L_4R_1R_4R_Lg_ms^3 + L_4R_1R_4g_ms^3 + L_4R_1R_4g_ms}{2R_1R_4R_Lg_m + 2R_4R_L + s^4\left(2C_1C_4L_1L_4R_1R_4g_m + 2C_1L_1L_4R_1R_4g_m + C_1L_LL_4R_1R_4g_m + C_1L_LL_4R_1R_4g_m + 2C_1L_1L_4R_1R_4g_m + C_1L_LL_4R_1R_4g_m + C_1L_4R_1R_4g_m + C_1$ 

**10.1004** INVALID-ORDER-1004  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, R_L + \frac{1}{C_Ls}\right)$ 

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

10.1005 INVALID-ORDER-1005  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, L_Ls + \frac{1}{C_Ls}\right)$ 

 $H(s) = \frac{1}{2R_{1}R_{4}g_{m} + 2R_{4} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{L}R_{1}R_{4} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{2}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{2}R_{1}R_{2}g$ 

10.1006 INVALID-ORDER-1006  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$ 

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

10.1007 INVALID-ORDER-1007  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$ 

 $H(s) = \frac{1}{2R_{1}R_{4}g_{m} + 2R_{4} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}R_{L} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}R_{L} + 2C_{1}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{L} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{L} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{L} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{L} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R$ 

10.1008 INVALID-ORDER-1008  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$ 

 $H(s) = \frac{1}{L_4 R_1 R_4 R_L g_m + L_4 R_4 R_L + 2 L_L R_1 R_4 R_L g_m + 2 L_L R_4 R_L + s^4 \left(2 C_1 C_4 L_1 L_4 L_L R_1 R_4 R_L + C_1 C_L L_1 L_4 L_L R_1 R_4 R_L + C_1 C_L L_1 L_4 L_L R_1 R_4 R_L + C_1 C_L L_4 L_L$ 

10.1009 INVALID-ORDER-1009  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)$ 

 $H(s) = \frac{1}{2R_{1}R_{4}R_{L}g_{m} + 2R_{4}R_{L} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{L}R_{1}R_{4}R_{L}\right) + s^{5}\left(2C_{1}C_{4}C_{L}L_{4}L_{L}R_{1}R_{4}R_{L} + 2C_{1}C_{4}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{1}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_{1}C_{L}L_{2}L_{2}L_{2}L_{2}R_{2}g_{m} + 2C_$ 

10.1010 INVALID-ORDER-1010  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{L_4R_4s}{C_4L_4R_4s^2+L_4s+R_4}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$ 

 $\frac{1}{2R_{1}R_{4}R_{L}g_{m}+2R_{4}R_{L}+s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}g_{m}+2C_{1}C_{4}L_{L}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m}+2C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}R_{L}+C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}R_{2}R_{L}+C_{1}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}+C_{1}C_{L}L_{1}L_{2}L_{2}L_{2}R_{1}R_{2}R_{L}+C_{1}C_{L}L_{1}L_{2}L_{2}L_{2}R_{1}R_{2}R_{2}R_{2}+C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{2}+C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{2}+C_{1}C_{L}L_{1}L_{2}L_{2}R_{1}R_{2}R_{2}+C_{1}C_{L}L_{1}L_{2}L_{2}R_{2}R_{2}+C_{1}C_{L}L_{1}L_{2}L_{2}R_{2}R_{2}+C_{1}C_{L}$ 

10.1011 INVALID-ORDER-1011  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, R_L\right)$ 

 $H(s) = \frac{C_1C_4L_1L_4R_1R_Lg_ms^4 + C_1L_1L_4R_1R_Lg_ms^3 + L_4R_1R_Lg_ms + R_1R_4R_Lg_m + s^2\left(C_1L_1R_1R_4R_Lg_m + C_4L_4R_1R_4g_m + C_4L_4R_1R_4g_m\right)}{R_1R_4g_m + 2R_1R_Lg_m + R_4 + 2R_L + s^4\left(C_1C_4L_1L_4R_1R_4g_m + C_1C_4L_1L_4R_1R_4g_m + C_1C_4L_1L_4R_1R_4g_m + C_1L_4R_1R_4g_m + C_1L_4R_1R_$ 

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10.1012 INVALID-ORDER-1012 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4L_1L_4R_1g_ms^4 + C_1L_1L_4R_1g_ms^3 + L_4R_1g_ms + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_4L_4R_1R_4g_m\right)}{2R_1g_m + s^5\left(C_1C_4C_LL_1L_4R_1g_m + C_1C_LL_1L_4R_1g_m + C_1C_LL_1L_4\right) + s^3\left(2C_1C_4L_4R_1 + C_1C_LL_1R_4 + C_1C_LL_1R_4 + C_1C_LL_4R_1 + C_4C_LL_4R_1 + C_4C_LL_4R
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{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, \frac{R_L}{C_LR_Ls+1}\right)
H(s) = \frac{1}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^5 \left(C_1 C_4 C_L L_1 L_4 R_1 R_4 R_L g_m + C_1 C_4 L_1 L_4 R_1 R_4 R_L + C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_4 R_4 g_m + 2 C_1 C
10.1014 INVALID-ORDER-1014 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_4C_LL_1L_4R_1R_4R_Lg_ms^5 + R_1R_4g_m + s^4\left(C_1C_4L_1L_4R_1R_4g_m + C_1C_LL_1L_4R_1R_4g_m + C_1C_LL_1L_4R_1R_Lg_m\right) + s^3\left(C_1C_LL_1L_4R_1R_4g_m + s^4\left(C_1C_4C_LL_1L_4R_1R_4g_m + C_1C_LL_1L_4R_1R_4g_m + C_1C_LL_1R_4g_m + C_1C_LL_1L_4R_1R_4g_m + C_1C_LL_1L_4R_1R_4g_m + C_1C_LL_
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{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, L_Ls + \frac{1}{C_Ls}\right)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}s^{6} + C_{1}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m}s^{5} + L_{4}R_{1}g_{m}s + R_{1}R_{4}g_{m} + s^{4}\left(C_{1}C_{4}L_{L}L_{4}R_{1}R_{4}g_{m} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{4}L_{L}L_{4}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{4}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{4}R_{1}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{4}R_{1}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}g_{m} + C_{1}C_{L}L_{1}L_{4}R_{1}g_{m} + 2C_{1}C_{L}L_{1}L_{4}R_{1}g_{m} + 2C_{1}C_{L}L_{1}L_{2}R_{1}g_{m} + 2C_{1}C_{L
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{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
H(s) = \frac{1}{R_1 R_4 g_m + R_4 + s^6 \left(C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + C_1 C_4 C_L L_1 L_4 L_L R_1 g_m + C_1 C_4 L_4 L_L R_1 R_4 g_m + C_1 C_4 L_4 L_4 R_4 g_m
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{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
 \frac{C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}R_{4}g_{m}s^{6} + R_{1}R_{4}g_{m} + s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + s^{5}\left(C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4} _{4} + 2C_{1}C_{4
10.1018 INVALID-ORDER-1018 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
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, \frac{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)
 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{C_4L_4R_4s^2+L_4s+R_4}{C_4L_4s^2+1}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
 H(s) = \frac{1}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^6 \left(C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R
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10.1021 INVALID-ORDER-1021 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, R_L\right)
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 $H(s) = \frac{C_1C_4L_1L_4R_1R_4R_Lg_m s^4 + R_1R_4R_Lg_m + s^2\left(C_1L_1R_1R_4R_Lg_m + C_4L_4R_1R_4g_m + C_4L_4R_4R_4g_m + C_4L_4R_4g_m + C_4L_4R_4g_m + C_4L_4R_4g_m + C_4L_4R_4g_m + C_4L_4R_4g_m$ 

10.1022 INVALID-ORDER-1022 
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_4L_1L_4R_1R_4g_m s^4 + R_1R_4g_m + s^2\left(C_1L_1R_1R_4g_m + C_4L_4R_1R_4g_m\right)}{2R_1g_m + s^5\left(C_1C_4C_LL_1L_4R_1R_4g_m + C_1C_4L_LL_4R_1R_4 + 2C_1C_4L_1L_4R_1g_m + 2C_1C_4L_1R_4R_4g_m + C_4C_LL_4R_1R_4g_m  

10.1023 INVALID-ORDER-1023 
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{R_L}{C_LR_Ls+1}\right)$$

 $H(s) = \frac{C}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^5 \left(C_1 C_4 C_L L_1 L_4 R_1 R_4 R_L g_m + C_1 C_4 L_1 L_4 R_1 R_4 R_L + C_1 C_4 L_1 L_4 R_1 R_4 R_L + C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 L_4 R_4 R_4 g_m + 2 C_1 C_4 L_4  

10.1024 INVALID-ORDER-1024 
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, R_L + \frac{1}{C_Ls}\right)$$

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

10.1025 INVALID-ORDER-1025 
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4\left(C_4L_4s^2+1\right)}{C_4L_4s^2+C_4R_4s+1}, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1 C_2}{2 R_1 g_m + s^6 \left(2 C_1 C_4 C_L L_1 L_4 L_L R_1 g_m + 2 C_1 C_4 C_L L_1 L_4 R_1 R_4 g_m + C_1 C_4 C_L L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 R_1 R_4 g_m + 2 C_1 C_4 C_L L_4 L_4 L_1 R_1 + s^4 \left(C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4 L_4 R_1 R_4 + 2 C_1 C_4 C_L L_4$ 

10.1026 INVALID-ORDER-1026 
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$$

 $H(s) = \frac{1}{R_1 R_4 g_m + R_4 + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + C_1 C_4 L_L L_L L_R L_R R_4 + 2 C_1 C_4 L_L L_L L_R L_R R_4 g_m + 2 C_1 C_4 L_L L_L L_R L_R R_4 g_m + 2 C_1 C_4 L_L L_L L_R L_R R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L L_L R_4 R_4 g_m + 2 C_1 C_4 L_L R_4 R_4 g_m + 2 C_1$ 

10.1027 INVALID-ORDER-1027 
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{1}{2R_{1}g_{m} + s^{6}\left(2C_{1}C_{4}C_{L}L_{1}L_{4}L_{L}R_{1}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{4}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{4}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{2}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{2}R_{1}R_{2}g_{m} + 2C_{1}C_{4}C_{L}L_{1}L_{2}R_{1}$ 

10.1028 INVALID-ORDER-1028 
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$$

10.1029 INVALID-ORDER-1029 
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{C_LL_LR_Ls^2+L_Ls+R_L}{C_LL_Ls^2+1}\right)$$

10.1030 INVALID-ORDER-1030  $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \infty, \infty, \infty, \frac{R_4(C_4L_4s^2+1)}{C_4L_4s^2+C_4R_4s+1}, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$ 

 $H(s) = \frac{1}{R_1 R_4 g_m + 2 R_1 R_L g_m + R_4 + 2 R_L + s^6 \left( C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + 2 C_1 C_4 C_L L_1 L_4 L_L R_1 R_4 g_m + C_1 C_4 C_L L_1 L_4 L_L R_4 + 2 C_1 C_4 C_L L_1 L_4 L_L R_4 R_L + 2 C_1 C_4 C_L L_1 L_4 R_4 R_L + 2 C_1 C_4 C_L$ 

## 11 PolynomialError