Filter Summary Report: TIA,simple,Z1,Z2,ZL

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$10.11\text{INVALID-ORDER-11 } Z(s) = \left(R_1, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.12 \text{INVALID-ORDER-} 12 \ Z(s) = \left(R_1, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
$10.13\text{INVALID-ORDER-13 } Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L\left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
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$10.15 \text{INVALID-ORDER-15 } Z(s) = \left(R_1, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \dots \dots$
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$10.26 \text{INVALID-ORDER-} 26 \ Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \ \dots $
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$10.28 \text{INVALID-ORDER-} 28 \ Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
10.29INVALID-ORDER-29 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
$10.30 \text{INVALID-ORDER-30 } Z(s) = \left(R_1, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right) $
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$10.37 \text{INVALID-ORDER-37 } Z(s) = \left(R_1, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
10.38INVALID-ORDER-38 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
$10.39 \text{INVALID-ORDER-39 } Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right) $
$10.40 \text{INVALID-ORDER-40 } Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) $
$10.41 \text{INVALID-ORDER-41 } Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right) $
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$10.44 \text{INVALID-ORDER-} 44 \ Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $
$10.45 \text{INVALID-ORDER-} 45 \ Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
10.46INVALID-ORDER-46 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L\right)$

$10.47 \text{INVALID-ORDER-47 } Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) $	7
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10.53INVALID-ORDER-53 $Z(s) = \left(R_1, \frac{L_{2s}}{C_2L_{2s}^2+1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	7
$10.54 \text{INVALID-ORDER-54 } Z(s) = \left(R_1, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \dots $	7
$10.55 \text{INVALID-ORDER-} 55 \ Z(s) = \left(R_1, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right) $	7
$10.56 \text{INVALID-ORDER-} 56 \ Z(s) = \left(R_1, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) $	3
10.57INVALID-ORDER-57 $Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$	3
$10.58 \text{INVALID-ORDER-} 58 \ Z(s) = \left(R_1, \ \frac{R_2\left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1} \right) \dots $	3
10.59INVALID-ORDER-59 $Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$	3
$10.60 \text{INVALID-ORDER-} 60 \ Z(s) = \left(R_1, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s} \right) $	3
10.61INVALID-ORDER-61 $Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$.	3
$10.62 \text{INVALID-ORDER-} 62 \ Z(s) = \left(R_1, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls} \right) $	3
$10.63 \text{INVALID-ORDER-} 63 \ Z(s) = \left(R_1, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \ \dots $	3
$10.64 \text{INVALID-ORDER-} 64 \ Z(s) = \left(R_1, \ \frac{R_2\left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right) $	3
$10.65 \text{INVALID-ORDER-} 65 \ Z(s) = \left(R_1, \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L\left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $	Э
$10.66 \text{INVALID-ORDER-} 66 \ Z(s) = (L_1 s, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L) \qquad \qquad$)
$10.67 \text{INVALID-ORDER-} 67 \ Z(s) = \left(L_1 s, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $	
10.68INVALID-ORDER-68 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	
$10.69 \text{INVALID-ORDER-} 69 \ Z(s) = \left(L_1 s, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $	
10.70INVALID-ORDER-70 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	
$10.71\text{INVALID-ORDER-71 } Z(s) = \left(L_1 s, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $	
$10.72 \text{INVALID-ORDER-72 } Z(s) = \left(L_1 s, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)'}{C_L L_L s^2 + C_L R_L s + 1}\right) $	
$10.73 \text{INVALID-ORDER-} 73 \ Z(s) = \left(L_1 s, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \left(L_1 s, \ \frac{1}{C_2 s}, \ \infty, \ $	
$10.74 \text{INVALID-ORDER-74 } Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots \dots$)
$10.75 \text{INVALID-ORDER-} 75 \ Z(s) = \left(L_1 s, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)^{-1} $	
$10.76 \text{INVALID-ORDER-} 76 \ Z(s) = \left(L_1 s, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $	
$10.77 \text{INVALID-ORDER-} 77 \ Z(s) = \left(L_1 s, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	J
$10.78 \text{INVALID-ORDER-} 78 \ Z(s) = \left(L_1 s, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $	
$10.79 \text{INVALID-ORDER-79 } Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots \dots$	
$10.80 \text{INVALID-ORDER-80 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right) $	
$10.81 \text{INVALID-ORDER-81 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s+1}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s+1}\right) \qquad . \qquad $	
$10.82 \text{INVALID-ORDER-82 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s+1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots$)
$10.83 \text{INVALID-ORDER-83 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) $	1

$10.84 \text{INVALID-ORDER-84 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots \dots$
$10.85 \text{INVALID-ORDER-85 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots \dots$
$10.86 \text{INVALID-ORDER-86 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots \dots$
$10.87 \text{INVALID-ORDER-87 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
10.88INVALID-ORDER-88 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
$10.89 \text{INVALID-ORDER-89 } Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \dots $
$10.90 \text{INVALID-ORDER-90 } Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $
$10.91\text{INVALID-ORDER-91 } Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) $
$10.92 \text{INVALID-ORDER-92 } Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $
$10.93\text{INVALID-ORDER-93 } Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.94 \text{INVALID-ORDER-} 94 \ Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
10.95INVALID-ORDER-95 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
10.96INVALID-ORDER-96 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L\right)$
$10.97 \text{INVALID-ORDER-97 } Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right) $
$10.98INVALID-ORDER-98 \ Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) $
$10.99 \text{INVALID-ORDER-99 } Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right) $
$10.10 \text{ @NVALID-ORDER-100 } Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \qquad . \qquad $
$10.10 \text{INVALID-ORDER-101 } Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad . \qquad $
$10.102\text{NVALID-ORDER-} 102 \ Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s} \right) $
$10.10 \text{ \& NVALID-ORDER-103 } Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $
$10.104\text{NVALID-ORDER-}104\ Z(s) = \left(L_1 s,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
$10.10 \text{ INVALID-ORDER-} 105 \ Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$10.10 \text{ (ENVALID-ORDER-106 } Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ $
$10.10 \text{INVALID-ORDER-} 107 \ Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right) \dots $
$10.10 \text{\&NVALID-ORDER-} 108 \ Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) $
$10.10 \mathfrak{D} \text{NVALID-ORDER-109 } Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s} \right) $
$10.11 \text{ @NVALID-ORDER-110 } Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \qquad . \qquad $
$10.11\text{INVALID-ORDER-111} \ Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) $
$10.112\text{NVALID-ORDER-}112\ Z(s) = \left(L_1s,\ L_2s + R_2 + \frac{1}{C_2s},\ \infty,\ \infty,\ \infty,\ L_Ls + R_L + \frac{1}{C_Ls}\right) $
$10.11 \text{ ENVALID-ORDER-113 } Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.11 \text{INVALID-ORDER-} 114 \ Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
10.11 INVALID-ORDER-115 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
$10.11 \text{ 6} \text{NVALID-ORDER-116 } Z(s) = \left(L_1 s, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ R_L\right) $
10.11¶NVALID-ORDER-117 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$
10.11 NVALID-ORDER-118 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$
10.11 2 NVALID-ORDER-119 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$
10.12 0 NVALID-ORDER-120 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$
$10.12\text{INVALID-ORDER-}121\ Z(s) = \left(L_1 s,\ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2,\ \infty,\ \infty,\ \infty,\ \frac{L_L s}{C_L L_L s^2 + 1}\right)' \qquad . \qquad $
10.12 2 NVALID-ORDER-122 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

10.19DNIVALID ODDED 192.7(a) $\begin{pmatrix} I_{10} & L_{28} & I_{28} & I_{28}$	==
$10.12 \text{INVALID-ORDER-} 123 \ Z(s) = \left(L_1 s, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $ $10.12 \text{INVALID-ORDER-} 124 \ Z(s) = \left(L_1 s, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $	55
$10.124\text{NVALID-ORDER-}124\ Z(s) = \left(L_1s,\ \frac{L_2s}{C_2L_2s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right) $	90
$10.125 \text{NVALID-ORDER-} 125 \ Z(s) = \left(L_1 s, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \dots $	55
$10.12 \text{ (INVALID-ORDER-126 } Z(s) = \left(L_1 s, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ R_L\right) $	55
$10.12\text{INVALID-ORDER-}127\ Z(s) = \left(L_1 s,\ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1},\ \infty,\ \infty,\ \infty,\ \frac{1}{C_L s}\right)\ \dots \dots$	55
$10.12 \$NVALID-ORDER-128 \ Z(s) = \left(L_1 s, \ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \ \dots $	56
$10.12 \text{ @NVALID-ORDER-129 } Z(s) = \left(L_1 s, \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right) \dots $	56
10.13 0 NVALID-ORDER-130 $Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$	56
10.13INVALID-ORDER-131 $Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	56
10.132NVALID-ORDER-132 $Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	56
10.13 2 NVALID-ORDER-133 $Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$. 56
$10.134\text{NVALID-ORDER-}134\ Z(s) = \left(L_1 s,\ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1},\ \infty,\ \infty,\ \infty,\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)^{\prime}.$	56
$10.13 \text{INVALID-ORDER-135} \ Z(s) = \left(L_1 s, \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L\left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots $	56
10.136NVALID-ORDER-136 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L\right)$	56
10.13TNVALID-ORDER-137 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$	57
10.13 NVALID-ORDER-138 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$	57
10.139NVALID-ORDER-139 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$	57
$10.14 \text{ @NVALID-ORDER-140 } Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)' \dots \dots$	57
10.14INVALID-ORDER-141 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	57
$10.142\text{NVALID-ORDER-}142\ Z(s) = \left(\frac{1}{C_1 s},\ R_2,\ \infty,\ \infty,\ \infty,\ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \qquad . \qquad $	57
10.14\(\text{BNVALID-ORDER-143}\) $Z(s) = \left(\frac{1}{C_{s,s}}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_s L_{s,s}^{2} + 1} + R_L\right)$	57
$10.14 \text{INVALID-ORDER-} 144 \ Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)'}{C_L L_L s^2 + C_L R_L s + 1}\right) \ \dots $. 57
10.145NVALID-ORDER-145 $Z(s) = \left(\frac{1}{C_{r,s}}, \frac{1}{C_{r,s}}, \infty, \infty, \infty, \infty, \frac{1}{C_{r,s}}\right)$. 57
$10.146 \text{NVALID-ORDER-} 146 \ Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{1}{C_L s}\right) $	57
$10.14\text{TNVALID-ORDER-}147 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \dots $	58
$10.14 \text{ENVALID-ORDER-} 148 \ Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots \dots$	58
$10.14 \mathfrak{D} \text{NVALID-ORDER-} 149 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \ \dots $	
$10.15 \text{ONVALID-ORDER-} 150 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	58
$10.15\text{INVALID-ORDER-}151\ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $	58
$10.15 \text{ 2NVALID-ORDER-} 152 \ Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots \dots$. 58
10.15 RNVALID-ORDER-153 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots \dots$. 58
$10.15 \text{INVALID-ORDER-} 154 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right) \dots $	58
$10.15 \text{INVALID-ORDER-} 155 \ Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) $	58
10.15 INVALID-ORDER-156 $Z(s) = \left(\frac{1}{G}, \frac{R_2}{GR_{2}+1}, \infty, \infty, \infty, \frac{L_L s}{GR_{2}+1}\right)$. 58
$10.15\text{TNVALID-ORDER-}157 \ Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $10.15\text{ENVALID-ORDER-}158 \ Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$. 59
$10.15 \text{NVALID-ORDER-} 158 \ Z(s) = \left(\frac{1}{2}, \frac{R_2}{2}, \frac{R_2}{2}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{2}\right)$. 59
$\left(C_1 s' \ C_2 \mathcal{K}_2 s + 1' \ C_L L_L \mathcal{K}_L s^2 + L_L s + \mathcal{K}_L \right)$	50

10.15 9 NVALID-ORDER-159 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$
$10.16 \text{ @NVALID-ORDER-} 160 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.16 \text{INVALID-ORDER-} 161 \ Z(s) = \left(\frac{1}{C_{1s}}, \ R_2 + \frac{1}{C_{2s}}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_{Ls}}\right) \ \dots $
$10.162\text{NVALID-ORDER-}162\ Z(s) = \left(\frac{1}{C_1 s},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \frac{R_L}{C_L R_L s + 1}\right) \dots \qquad 59$
10.16 ENVALID-ORDER- 163 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots$
$10.16 \text{ and } Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) \qquad . \qquad $
$10.16 \text{INVALID-ORDER-} 165 \ Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)' $
10.16 INVALID-ORDER-166 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$.
$10.16\text{TNVALID-ORDER-}167\ Z(s) = \left(\frac{1}{C_1 s},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty,\ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
10.16\(\text{2NVALID-ORDER-168} \(Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \infty, \
$10.16 \text{ @NVALID-ORDER-169 } Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$10.17 \text{@NVALID-ORDER-170 } Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L\right) \qquad \qquad$
$10.17 \text{INVALID-ORDER-} 171 \ Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right) $
10.172NVALID-ORDER-172 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ 60
$10.178\text{NVALID-ORDER-}173\ Z(s) = \left(\frac{1}{C_1s},\ L_2s + \frac{1}{C_2s},\ \infty,\ \infty,\ \infty,\ \infty,\ R_L + \frac{1}{C_Ls}\right) \qquad . \qquad $
$10.17 \text{ INVALID-ORDER-174 } Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \qquad . \qquad $
$10.175\text{NVALID-ORDER-}175 \ Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) $
$10.176\text{NVALID-ORDER-}176\ Z(s) = \left(\frac{1}{C_1 s},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ L_L s + R_L + \frac{1}{C_L s}\right) $
$10.17\text{INVALID-ORDER-}177 \ Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $
$10.17 \text{\&NVALID-ORDER-178 } Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
10.179NVALID-ORDER-179 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
$10.180 \text{NVALID-ORDER-} 180 \ Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ $
$10.18 \text{INVALID-ORDER-} 181 \ Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right) $
$10.182\text{NVALID-ORDER-}182\ Z(s) = \left(\frac{1}{C_1 s},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty,\ \frac{R_L}{C_L R_L s + 1}\right) \qquad . \qquad $
10.18 ENVALID-ORDER-183 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots$
10.18\Pinvalid NVALID-ORDER-184 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$
10.18 INVALID-ORDER-185 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)'$
10.186NVALID-ORDER-186 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 62
10.18\(\text{INVALID-ORDER-187 } \(Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & L_2 s + R_2 + \frac{1}{C_2 s}, & \infty, & \in
10.18 9 NVALID-ORDER-189 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ 62
$10.19 \text{ @NVALID-ORDER-190 } Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right) \qquad (62)$
10.19INVALID-ORDER-191 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$
10.192NVALID-ORDER-192 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ 62 10.192NVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ 62
10.19 IN VALID-ORDER 104 $Z(s) = \left(\frac{1}{C_1s}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$
10.19\(\text{AVVALID-ORDER-194}\(Z(s) = \binom{1}{C_{1}s}, \frac{L_{2}s}{C_{2}L_{2}s^{2}+1} + R_{2}, \infty,
10.19 INVALID-ORDER-195 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ 63 10.19 INVALID-ORDER-196 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ 63
$10.19 \text{ finvalid-order-} 196 \ Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$
10.19IN VALID-ORDER-197 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.19 NVALID-ORDER-198 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ 63
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.19 9 NVALID-ORDER-199 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.20 \text{@NVALID-ORDER-200 } Z(s) = \left\langle \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L \right\rangle $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.20INVALID-ORDER-201 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.202\text{NVALID-ORDER-}202\ Z(s) = \left(\frac{1}{C_1 s},\ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1},\ \infty,\ \infty,\ \infty,\ \frac{R_L}{C_L R_L s + 1}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\searrow
$\begin{array}{c} 10.208 \text{NVAIID-ORDER-90} \ Z(c) = \left(\frac{1}{10.7} \frac{R_{c}(c)c^{2}(c)c^{2}(c)}{c^{2}(c)c^{2}(c)c^{2}(c)} \right) \times S_{c} \times S_{c} \times L_{c} + R_{c} + \frac{c}{c_{c}} \right) \\ 10.208 \text{NVAIID-ORDER-90} \ Z(c) = \left(\frac{1}{10.7} \frac{R_{c}(c)c^{2}(c)c^{2}(c)}{c^{2}(c)c^{2}(c)c^{2}(c)} \right) \times S_{c} \times S_{c} \times \frac{L_{c} \times R_{c}}{c^{2}(c)c^{2}(c)c^{2}(c)} \right) \\ 10.208 \text{NVAIID-ORDER-90} \ Z(c) = \left(\frac{1}{10.7} \frac{R_{c}(c)c^{2}(c)c^{2}(c)}{c^{2}(c)c^{2}(c)c^{2}(c)} \right) \times S_{c} \times S_{c} \times \frac{L_{c} \times R_{c}}{c^{2}(c)c^{2}(c)c^{2}(c)} \right) \\ 10.208 \text{NVAIID-ORDER-90} \ Z(c) = \left(\frac{1}{10.7} \frac{R_{c}(c)c^{2}(c)c^{2}(c)}{c^{2}(c)c^{2}$	$10.20 \text{ INVALID-ORDER-204 } Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty,$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.20 \text{INVALID-ORDER-} 205 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)' $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.20 \text{ (ENVALID-ORDER-206 } Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.20 \text{INVALID-ORDER-} 207 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	\rangle
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.20 \text{ (NVALID-ORDER-209 } Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \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) $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.21 \text{@NVALID-ORDER-210 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, R_L\right) \qquad (64)$
$ \begin{array}{lll} 10.218\text{NALID-ORDER-213} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & R_{i}, \infty, \infty, \infty, L_{k} + R_{k} + \frac{1}{c_{k}} \right) & 65 \\ 10.218\text{NALID-ORDER-214} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & R_{i}, \infty, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{i \in [k+1]}^{n} & R_{k} \right) & 65 \\ 10.218\text{NALID-ORDER-215} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & R_{i}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{i \in [k+1]}^{n} & R_{k} \right) & 65 \\ 10.218\text{NALID-ORDER-215} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & R_{i}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{i \in [k+1]}^{n} & R_{k} \right) & 65 \\ 10.218\text{NALID-ORDER-217} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{i \in [k+1]}^{n} & C_{k}^{2} \right) & 65 \\ 10.218\text{NALID-ORDER-217} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{i \in [k+1]}^{n} & C_{k}^{2} \right) & 65 \\ 10.218\text{NALID-ORDER-219} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, L_{k} + \frac{1}{c_{k}} \right) & 65 \\ 10.228\text{NALID-ORDER-229} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 65 \\ 10.228\text{NALID-ORDER-220} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 65 \\ 10.228\text{NALID-ORDER-220} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 66 \\ 10.228\text{NALID-ORDER-223} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 66 \\ 10.228\text{NALID-ORDER-223} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 66 \\ 10.228\text{NALID-ORDER-225} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 66 \\ 10.228\text{NALID-ORDER-227} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 66 \\ 10.228\text{NALID-ORDER-227} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 66 \\ 10.228\text{NALID-ORDER-229} & Z(s) = \left(\sum_{i \in [k+1]}^{n} & C_{k}^{2}, \infty, \infty, \infty, \frac{1}{c_{k}} \sum_{k \in [k+1]}^{n} & C_{k}^{2} \right) & 66 \\ 10.228\text{NALID-ORDER-229} & Z(s) =$	$10.21 \text{INVALID-ORDER-211 } Z(s) = \left(\begin{array}{c} R_1 \\ \overline{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \end{array}\right) $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.212\text{NVALID-ORDER-}212\ Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ R_2,\ \infty,\ \infty,\ \infty,\ \frac{L_Ls}{C_LL_Ls^2+1}\right)' . \qquad . $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10.21 8NVALID-ORDER-213 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right) \dots \dots$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.21 \text{ INVALID-ORDER-} 216 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)'}{C_L L_L s^2 + C_L R_L s + 1}\right) $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.21 \text{ TNVALID-ORDER-} 217 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right) $
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.21 \text{NVALID-ORDER-218 } Z(s) = \left(\frac{R_1}{CR_{-1}1}, \frac{1}{C_{-}}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_{-}}\right) \dots \dots$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$10.21 \text{ @NVALID-ORDER-219 } Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right) $
$ \begin{array}{llll} 10.22 \text{INVALID-ORDER-} & 22 I Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{1}{C_{2s}}, \infty, \infty, \infty, \infty, L_{L} s + R_{L} + \frac{1}{C_{1,s}} \right) & 65 \\ 10.22 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{R_{1} + 1}, \frac{1}{C_{2s}}, \infty, \infty, \infty, \infty, \frac{L_{L} R_{1s}}{C_{LL} R_{1s} R_{2s} L_{Ls} R_{1s}} \right) & 66 \\ 10.22 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{1}{C_{2s}}, \infty, \infty, \infty, \frac{L_{L} R_{1s}}{C_{LL} R_{2s} R_{2s} L_{Ls} R_{1s}} \right) & 66 \\ 10.22 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{1}{C_{2s}}, \infty, \infty, \infty, \frac{R_{L} (c_{LL} L_{2s} R_{1s})}{C_{LL} L_{2s} R_{2s} L_{2s}} \right) & 66 \\ 10.22 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{2s}}, \infty, \infty, \infty, \frac{R_{L} (c_{LL} L_{2s} R_{1s})}{C_{LL} R_{2s} R_{2s} R_{2s} R_{2s}} \right) & 66 \\ 10.22 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{R_{2s} R_{2s} + 1}}, \infty, \infty, \infty, \frac{R_{L} (c_{LL} L_{2s} R_{2s})}{C_{LL} R_{2s} R_{2s} R_{2s}} \right) & 66 \\ 10.22 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{R_{2s} R_{2s} + 1}}, \infty, \infty, \infty, \frac{L_{L} s}{C_{LL} R_{2s} R_{2s}} \right) & 66 \\ 10.22 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{R_{2s} R_{2s} + 1}}, \infty, \infty, \infty, \frac{L_{L} s}{C_{LL} R_{2s} R_{2s}} \right) & 66 \\ 10.22 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{R_{2s} R_{2s} + 1}}, \infty, \infty, \infty, \frac{L_{L} s}{C_{LL} R_{2s} R_{2s} L_{2s}} \right) & 66 \\ 10.23 \text{ENVALID-ORDER-} & 22 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{R_{2s} R_{2s} + 1}}, \infty, \infty, \infty, \frac{L_{L} R_{2s}}{C_{LL} R_{2s} R_{2s} L_{2s} R_{2s}} \right) & 67 \\ 10.23 \text{ENVALID-ORDER-} & 23 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{R_{2s} R_{2s} + 1}}, \infty, \infty, \infty, \frac{L_{L} R_{2s}}{C_{LL} R_{2s} R_{2s} L_{2s} R_{2s}} \right) & 67 \\ 10.23 \text{ENVALID-ORDER-} & 23 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{R_{2s} R_{2s} + 1}}, \infty, \infty, \infty, \frac{L_{L} R_{2s}}{C_{LL} R_{2s} R_{2s} L_{2s} R_{2s}} \right) & 67 \\ 10.23 \text{ENVALID-ORDER-} & 23 Z(s) = \left(\frac{R_{1}}{C_{R_{1} + 1}}, \frac{R_{2}}{C_{R_{2s} R_{2s} + 1}, \infty, \infty, \infty, \frac{R_{1}}{C_{LL} R_{2s} R_{2s} L_{2s}}$	
$ \begin{array}{llll} & 10.22 \text{EVALID-ORDER-} & 222 \ Z(s) = \left(\frac{R_1}{C_R R_1 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_1 s}{C_L L_R L^2 L^2 L_L L^2 L^2 L_L L^2 L^2} \right) \\ & 10.22 \text{EVALID-ORDER-} & 23 \ Z(s) = \left(\frac{R_1}{C_R R_1 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_1 s}{C_L L_L L^2 + 1} + R_L \right) \\ & 66 \\ & 10.22 \text{ENVALID-ORDER-} & 224 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (C_L L_2^2 + 1)}{C_L L_L L^2 + 1} + R_L \right) \\ & 66 \\ & 10.22 \text{ENVALID-ORDER-} & 225 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_2 s}, \infty, \infty, \infty, \frac{R_L (C_L L_2^2 + 1)}{C_L L_L L^2 + 1} + C_L s \right) \\ & 10.22 \text{ENVALID-ORDER-} & 225 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_2 R_2 + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right) \\ & 10.22 \text{ENVALID-ORDER-} & 227 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_2 R_2 + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L s^2 + 1} \right) \\ & 10.22 \text{ENVALID-ORDER-} & 228 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_2 R_2 + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right) \\ & 10.22 \text{ENVALID-ORDER-} & 228 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_2 R_2 + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L s^2 + 1} \right) \\ & 66 \\ & 10.23 \text{ENVALID-ORDER-} & 23 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_2 R_2 + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L s^2 + 1} + R_L \right) \\ & 66 \\ & 10.23 \text{ENVALID-ORDER-} & 23 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_2 R_2 + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L s^2 + 1} + R_L \right) \\ & 67 \\ & 10.23 \text{ENVALID-ORDER-} & 23 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_1 R_2 + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L s^2 + 1} + R_L \right) \\ & 67 \\ & 10.23 \text{ENVALID-ORDER-} & 23 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_1 R_2 + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L s^2 + 1} + R_L \right) \\ & 67 \\ & 10.23 \text{ENVALID-ORDER-} & 23 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_1 R_2 + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L s^2 + 1} + R_L \right) \\ & 67 \\ & 10.23 \text{ENVALID-ORDER-} & 23 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_1 R_2 + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L s^2 + 1} + R_L \right) \\ & 67 \\ & 10.23 \text{ENVALID-ORDER-} & 23 \ Z(s) = \left(\frac{R_1}{C_1 R_1 + 1}, \frac{R_2}{C_1 R_2$	$10.22 \text{INVALID-ORDER-} 221 \ Z(s) = \left(\frac{R_1}{C \cdot R_1 \cdot s + 1}, \frac{1}{C \cdot s}, \infty, \infty, \infty, \frac{1}{C \cdot s}, \infty, \infty, \infty, \frac{1}{C \cdot s}\right) \dots $
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$10.222\text{NVALID-ORDER-} 222 \ Z(s) = \left(\frac{R_1}{C_1R_1+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_1R_1s}{C_2s}\right) $
$ \begin{array}{lll} 10.22 \text{INVALID-ORDER-} & 224 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ 10.22 \text{INVALID-ORDER-} & 225 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right) \\ 10.22 \text{INVALID-ORDER-} & 226 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right) \\ 10.22 \text{INVALID-ORDER-} & 227 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{L_L s^2 + 1} \right) \\ 10.22 \text{INVALID-ORDER-} & 228 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{L_L L_L s^2 + L_L s} \right) \\ 10.22 \text{INVALID-ORDER-} & 227 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L s^2 + L_L s + R_L} \right) \\ 10.22 \text{INVALID-ORDER-} & 230 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L s^2 + L_L s + R_L} \right) \\ 10.23 \text{INVALID-ORDER-} & 231 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + L_L s + L_L s} \right) \\ 10.23 \text{INVALID-ORDER-} & 232 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + L_L s + L_L s + L_L s} \right) \\ 10.23 \text{INVALID-ORDER-} & 232 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + L_L s + L_$	10.22 NVALID-ORDER-223 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$
$ \begin{array}{c} 10.22 \text{Invalid-order-} \\ 225 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)' \\ 10.22 \text{Invalid-order-} \\ 226 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right) \\ 10.22 \text{Invalid-order-} \\ 227 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s + L_L s}{C_L L_L s + 1} \right) \\ 10.22 \text{Invalid-order-} \\ 228 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right) \\ 10.22 \text{Invalid-order-} \\ 229 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \\ 10.23 \text{Invalid-order-} \\ 230 \text{Invalid-order-} \\ 231 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ 10.23 \text{Invalid-order-} \\ 232 \text{Invalid-order-} \\ 232 Z(s) = \left(\frac{R_1}{C_{R_1 s + 1}}, \frac{R_2}{C_{R_2 s + 1}}, \infty, \infty, \infty, \frac{R_L (C_L L_s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ 10.23 \text{Invalid-order-} \\ 232 \text{Invalid-order-} \\ 232 Z(s) = \left(\frac{R_1}{C_{R_1 s + 1}}, \frac{R_2}{C_{R_2 s + 1}}, \infty, \infty, \infty, \frac{R_L (C_L L_s^2 + 1)}{C_L s^2 + C_L R_L s + 1} \right) \\ 10.23 \text{Invalid-order-} \\ 232 Z(s) = \left(\frac{R_1}{C_{R_1 s + 1}}, \frac{R_2}{C_{R_2 s + 1}}, \infty, \infty, \infty, \frac{R_L (C_L L_s^2 + 1)}{C_L s^2 + C_L R_L s + 1} \right) \\ 10.23 \text{Invalid-order-} \\ 232 Z(s) = \left(\frac{R_1}{C_{R_1 s + 1}}, \frac{R_2}{C_{R_2 s + 1}}, \infty, \infty, \infty, \frac{R_L (C_L L_s^2 + 1)}{C_L s^2 + C_L R_L s + 1} \right) \\ 10.23 \text{Invalid-order-} \\ 232 Z(s) = \left(\frac{R_1}{C_{R_1 s + 1}}, \frac{R_2}{C_{R_2 s + 1}}, \infty, \infty, \infty, \frac{R_L (C_L L_s^2 + 1)}{C_L s^2 + C_L R_L s + 1} \right) \\ 10.23 \text{Invalid-order-} \\ 232 Z(s) = \left(\frac{R_1}{C_{R_1 s + 1}}, \frac{R_2}{C_{R_2 s + 1}}, \infty, \infty, \infty, \infty, \frac{R_L (C_L L_s^2 + 1)}{C_L s^2 + C_L R_L s + 1} \right) \\ 10.23 \text{Invalid-order-} \\ 232 Z(s) = \left(\frac{R_1}{C_{R_1 s + 1}}, \frac{R_2}{C_R c_L s + 1}, \infty, \infty, \infty, \infty, \frac{R_1}{C_L c_L s + 1} \right) \\ 10.23 \text{Invalid-order-} \\ 232 Z(s) = \left(\frac{R_1}{C_{R_1 s + 1}}, \frac{R_2}{C_R c_L s + 1}, \infty, \infty, \infty, \infty, \frac{R_1}{C_L c_L s + 1} \right) \\ 10.23 Invalid-order-$	$10.22 \text{INVALID-ORDER-} 224 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)'}{C_L L_L s^2 + C_L R_L s + 1} \right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.22 \text{INVALID-ORDER-} 227 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) $ $10.22 \text{INVALID-ORDER-} 228 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s + L_L + \frac{1}{C_L s}}{C_L L_L R_L s^2 + L_L s + R_L}\right) $ $10.22 \text{INVALID-ORDER-} 229 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L R_1 s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $ $10.23 \text{INVALID-ORDER-} 230 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \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) $ $10.23 \text{INVALID-ORDER-} 231 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \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) $ $10.23 \text{INVALID-ORDER-} 232 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_2 + \frac{1}{C_2 R_2 s + 1}, R_2 + \frac{1}{C_2 R_2 s + 1}\right) $ $10.23 \text{INVALID-ORDER-} 232 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_2 + \frac{1}{C_2 R_2 s + 1}, R_2 + \frac{1}{C_2 R_2 s + 1}\right) $	$10.22 \text{5NVALID-ORDER-} 225 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)' $
$10.22 \text{INVALID-ORDER-} 227 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) $ $10.22 \text{INVALID-ORDER-} 228 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s + L_L + \frac{1}{C_L s}}{C_L L_L R_L s^2 + L_L s + R_L}\right) $ $10.22 \text{INVALID-ORDER-} 229 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L R_1 s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $ $10.23 \text{INVALID-ORDER-} 230 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \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) $ $10.23 \text{INVALID-ORDER-} 231 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \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) $ $10.23 \text{INVALID-ORDER-} 232 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_2 + \frac{1}{C_2 R_2 s + 1}, R_2 + \frac{1}{C_2 R_2 s + 1}\right) $ $10.23 \text{INVALID-ORDER-} 232 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_2 + \frac{1}{C_2 R_2 s + 1}, R_2 + \frac{1}{C_2 R_2 s + 1}\right) $	$10.22 \text{ (INVALID-ORDER-226 } Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right) \dots \dots$
	$10.22\text{TNVALID-ORDER-} 227 \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_1L_1s^2+1}\right) $
10.22 9 NVALID-ORDER-229 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$ 10.23 0 NVALID-ORDER-230 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$ 10.23 1 NVALID-ORDER-231 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$ 10.23 2 NVALID-ORDER-232 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_2s}\right)$ 67	$10.22 \text{NVALID-ORDER-} 228 \ Z(s) = \left(\frac{R_1}{C_1R_1 + s + 1}, \frac{R_2}{C_2R_2 + s + 1}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_1 s}\right) \dots \dots$
10.23\textbf{Invalidation} VALID-ORDER-230 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$	$10.22 \text{ (NVALID-ORDER-229 } Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) $
10.23INVALID-ORDER-231 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)'}{C_LL_Ls^2+C_LR_Ls+1}\right)$	$10.23 \text{@NVALID-ORDER-} 230 \ Z(s) = \left(\frac{R_1}{C_1R_1 + s+1}, \frac{R_2}{C_2R_2 + s+1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $
$10.232\text{NVALID-ORDER-}232\ Z(s) = \left(\frac{R_1}{C_1R_1+1},\ R_2 + \frac{1}{C_1s},\ \infty,\ \infty,\ \infty,\ \frac{1}{C_1s}\right) \ \dots \ $	$10.23 \text{INVALID-ORDER-} 231 \ Z(s) = \left(\frac{R_1}{C(R_1 + s)}, \frac{R_2}{C(R_2 + s)}, \infty, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)'}{C(R_2 + s)}\right) $
10.23 ENVALID-ORDER-233 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right) $	$10.232\text{NVALID-ORDER-}232\ Z(s) = \left(\frac{R_1}{C_1R_2+1},\ R_2 + \frac{1}{C_2s},\ \infty,\ \infty,\ \infty,\ \frac{1}{C_2s}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
	10.23 ENVALID-ORDER-233 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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10.234NVALID-ORDER-234 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots
10.23 INVALID-ORDER-235 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.236NVALID-ORDER-236 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots
10.23 INVALID-ORDER-237 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) . . .
10.23\( \text{NVALID-ORDER-238} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \)
10.239NVALID-ORDER-239 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
                                                                    \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2 + C_LR_Ls+1}\right)
10.24INVALID-ORDER-241 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right) \dots
10.242NVALID-ORDER-242 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_1 s}\right) \ldots
10.24\(\text{NVALID-ORDER-243}\) Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)
10.24 INVALID-ORDER-244 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.24 INVALID-ORDER-245 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.246NVALID-ORDER-246 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots
10.24\(\text{TNVALID-ORDER-247}\) Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)
10.24\( \text{NVALID-ORDER-248} \) Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right)
10.249NVALID-ORDER-249 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.25 INVALID-ORDER-250 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.25INVALID-ORDER-251 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right) \dots
10.252NVALID-ORDER-252 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_1 s}\right) . . .
10.25 NVALID-ORDER-253 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_1 R_1 s + 1}\right)
10.254NVALID-ORDER-254 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.25 INVALID-ORDER-255 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.25 INVALID-ORDER-256 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) . . . .
10.25 INVALID-ORDER-257 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.25\( \text{NVALID-ORDER-258} \( Z(s) = \left( \frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_1 L_1 R_1 s^2 + L_1 s + R_1} \right) \]
10.259NVALID-ORDER-259 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
                                                                    \left(\frac{R_1}{C_1R_1s+1}, L_2s+R_2+\frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.26INVALID-ORDER-261 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right) \dots \dots
10.262NVALID-ORDER-262 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots
10.26\(\mathbb{Z}\)NVALID-ORDER-263 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right).
10.264NVALID-ORDER-264 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.26 INVALID-ORDER-265 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.26 INVALID-ORDER-266 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots
                                                                   \left(\frac{R_1}{C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                                                                   \left(\frac{R_1}{C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
                                                                    \left(\frac{R_1}{C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right).
                                                                     \frac{R_1}{C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}
                                                                     \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, R_L\right) . . .
10.272\text{NVALID-ORDER-}272 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)
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$10.27 \$NVALID-ORDER-273 \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) \dots $	71
$10.27 \text{INVALID-ORDER-} 274 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right) \ \dots $	71
$10.27 \text{ INVALID-ORDER-} 275 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $	71
$10.27 \text{ (INVALID-ORDER-276 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)' \dots \dots$	71
$10.27 \text{INVALID-ORDER-} 277 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \ \dots $	71
$10.27 \$NVALID-ORDER-278 \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_RL_s^2+L_Ls+R_L}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	71
$10.27 \text{ @NVALID-ORDER-279 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) \ \dots $	72
$10.28 \text{@NVALID-ORDER-} 280 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ \dots $	72
$10.28 \text{INVALID-ORDER-} 281 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L\right) \ \dots $	72
10.28 2 NVALID-ORDER-282 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$	72
10.28 RNVALID-ORDER-283 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots$	72
$10.28 \text{ INVALID-ORDER-} 284 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) $	72
$10.28 \text{INVALID-ORDER-} 285 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $	72
10.286NVALID-ORDER-286 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	72
$10.28\text{TNVALID-ORDER-}287\ Z(s) = \left(R_1 + \frac{1}{C_1 s},\ R_2,\ \infty,\ \infty,\ \infty,\ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $	72
10.28\textbf{NVALID-ORDER-288} $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$	73
10.28 9 NVALID-ORDER-289 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	73
10.29 INVALID-ORDER-290 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$	73
10.29INVALID-ORDER-291 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$	73
10.29 E NVALID-ORDER-292 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$	73
10.29\(\text{RNVALID-ORDER-293} \(Z(s) = \) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	73
$10.29 \text{INVALID-ORDER-} 294 \ Z(s) = \left\langle R_1 + \frac{1}{C_{18}}, \frac{1}{C_{28}}, \ \infty, \ \infty, \ \infty, \ \infty, \frac{L_{LS}}{C_{LLs^2+1}} \right\rangle' \qquad $	73
10.29 INVALID-ORDER-295 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	
$10.29 \text{ (NVALID-ORDER-296 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $	
$10.29\text{TNVALID-ORDER-}297 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) $	
$10.29 \text{\&NVALID-ORDER-} 298 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \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) $	
10.29 NVALID-ORDER-299 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$	
10.30 0 NVALID-ORDER-300 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	74
10.30INVALID-ORDER-301 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	
$10.302\text{NVALID-ORDER-302} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \dots $	
10.30 RNVALID-ORDER-303 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	
10.304NVALID-ORDER-304 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	74
$10.30 \text{ INVALID-ORDER-305 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) $	74
10.306NVALID-ORDER-306 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$	75
$10.30 \text{INVALID-ORDER-307 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)'}{C_L L_L s^2 + C_L R_L s + 1}\right) $	
$10.30 \$NVALID-ORDER-308 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right) \ \dots $	75
10.30 NVALID-ORDER-309 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$	75

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10.310NVALID-ORDER-310 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
 10.31INVALID-ORDER-311 Z(s) = \left(R_1 + \frac{1}{C_{18}}, R_2 + \frac{1}{C_{28}}, \infty, \infty, \infty, L_L s + \frac{1}{C_{L8}}\right)
10.312NVALID-ORDER-312 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) . . . .
10.31 INVALID-ORDER-313 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right).
10.314NVALID-ORDER-314 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, R_2 + \frac{1}{C_{2s}}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.31 INVALID-ORDER-315 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.316NVALID-ORDER-316 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.31 INVALID-ORDER-317 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right).
 10.31 NVALID-ORDER-318 Z(s) = \left(R_1 + \frac{1}{C_{18}}, L_2 s + \frac{1}{C_{28}}, \infty, \infty, \infty, \frac{1}{C_{18}}\right)
 10.31 NVALID-ORDER-319 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 10.320NVALID-ORDER-320 Z(s) = \left(R_1 + \frac{1}{C_{18}}, L_2 s + \frac{1}{C_{28}}, \infty, \infty, \infty, R_L + \frac{1}{C_{L8}}\right)
10.32INVALID-ORDER-321 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
 10.322NVALID-ORDER-322 Z(s) = \left(R_1 + \frac{1}{C_{18}}, L_2 s + \frac{1}{C_{28}}, \infty, \infty, \infty, \frac{L_{LS}}{C_{14}L_{18}^2 + 1}\right)
10.32 INVALID-ORDER-323 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.324NVALID-ORDER-324 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.32\( \text{NVALID-ORDER-325} \( Z(s) = \left( R_1 + \frac{1}{C_{1}s}, L_2 s + \frac{1}{C_{2}s}, \infty, \infty, \infty, \infty, \infty, \infty, \frac{L_L s}{C_{L} L_L s^2 + 1} + R_L \right)
10.326NVALID-ORDER-326 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.32TNVALID-ORDER-327 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right).
 10.32\( \text{NVALID-ORDER-328} \( Z(s) = \left( R_1 + \frac{1}{C_{1s}}, L_2 s + R_2 + \frac{1}{C_{2s}}, \infty, \infty, \infty, \infty, \infty, \frac{1}{C_{Ls}} \right) \)
10.329NVALID-ORDER-329 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.33@NVALID-ORDER-330 Z(s) = \left(R_1 + \frac{1}{C_{1.5}}, L_2 s + R_2 + \frac{1}{C_{2.5}}, \infty, \infty, \infty, R_L + \frac{1}{C_{1.5}}\right)
 10.33INVALID-ORDER-331 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.332NVALID-ORDER-332 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, L_2 s + R_2 + \frac{1}{C_{2s}}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.33BNVALID-ORDER-333 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.334NVALID-ORDER-334 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, L_2s + R_2 + \frac{1}{C_{2s}}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.33 INVALID-ORDER-335 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.336NVALID-ORDER-336 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.33 INVALID-ORDER-337 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right) \dots
10.33 NVALID-ORDER-338 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots
10.339NVALID-ORDER-339 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 10.340NVALID-ORDER-340 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
 10.34INVALID-ORDER-341 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.342NVALID-ORDER-342 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) . . . .
10.348NVALID-ORDER-343 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.34 INVALID-ORDER-344 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
10.34\( \text{INVALID-ORDER-345}\( Z(s) = \left( R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, 
10.346NVALID-ORDER-346 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \frac{L_{2s}}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.34 INVALID-ORDER-347 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)
10.34\(\text{NVALID-ORDER-348}\) Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
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$\begin{pmatrix} p & (q, 1, 2, 1) \end{pmatrix}$	
$10.34 \mathfrak{P} \text{NVALID-ORDER-349} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1} \right) \ \dots $. 79
$10.35 \text{ @NVALID-ORDER-350 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $. 79
$10.35 \text{INVALID-ORDER-351 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s} \right) \ \dots $. 80
$10.352 \text{NVALID-ORDER-352} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $. 80
$10.35 \text{ ENVALID-ORDER-353 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $. 80
$10.35 \text{INVALID-ORDER-354} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \dots $. 80
$10.35 \text{INVALID-ORDER-355} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)^{-1} $. 80
$10.35 \text{ 6NVALID-ORDER-356 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L\left(C_L L_L s^2 + 1\right)'}{C_L L_L s^2 + C_L R_L s + 1}\right) \right)$. 80
$10.35 \text{INVALID-ORDER-} 357 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right) \ \dots $. 80
10.35\(\text{NVALID-ORDER-358} \(Z(s) = \) \ \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \	. 80
	. 00
10.35 NVALID-ORDER-359 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$. 00
$10.36 \text{ @NVALID-ORDER-360 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) \dots \dots$. 81
$10.36 \text{INVALID-ORDER-} 361 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad \dots $. 81
$10.362\text{NVALID-ORDER-}362\ Z(s) = \left(L_1s + \frac{1}{C_1s},\ R_2,\ \infty,\ \infty,\ \infty,\ L_Ls + R_L + \frac{1}{C_Ls}\right)\ \dots \dots$. 81
10.36 NVALID-ORDER-363 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$. 81
$10.364\text{NVALID-ORDER-}364\ Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ R_2,\ \infty,\ \infty,\ \infty,\ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$. 81
10.36 INVALID-ORDER-365 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)'}{C_L L_L s^2 + C_L R_L s + 1}\right)$. 81
$10.36 \text{ @NVALID-ORDER-366 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L\right) \dots \dots$. 81
10.36 TNVALID-ORDER-367 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{1}{C_L s}\right)$. 81
10.36\text{\text{NVALID-ORDER-368}} $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$. 81
$10.36 \text{ @NVALID-ORDER-369 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots$. 82
$10.37 \text{ INVALID-ORDER-370 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) \qquad \dots $. 82
$10.37 \text{INVALID-ORDER-371 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots \dots$. 82
$10.372\text{NVALID-ORDER-}372\ Z(s) = \left(L_1s + \frac{1}{C_1s},\ \frac{1}{C_2s},\ \infty,\ \infty,\ \infty,\ \infty,\ L_Ls + R_L + \frac{1}{C_Ls}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	
10.37 8NVALID-ORDER-373 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots \dots$	
$10.37 \text{4NVALID-ORDER-374} \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \infty, \frac{L_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 $	
10.375NVALID-ORDER-375 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	
$10.376 \text{NVALID-ORDER-376} \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L\right) $	
$10.37 \text{INVALID-ORDER-377 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots \dots$. 82
$10.37 \text{\&NVALID-ORDER-378 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots \dots$	
10.379NVALID-ORDER-379 $Z(s) = (L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s})$. 83
10.380NVALID-ORDER-380 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$	
$10.38 \text{INVALID-ORDER-381 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \qquad \dots $	
$10.382\text{NVALID-ORDER-}382\ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) $	
$10.38 \text{ INVALID-ORDER-383 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \qquad $. 83
$10.384\text{NVALID-ORDER-384} \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $. ଓଡ
$10.38 \text{INVALID-ORDER-385} \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \dots $. 83

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10.386NVALID-ORDER-386 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right) \dots \dots
10.38TNVALID-ORDER-387 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_4 s}\right) \dots
10.38 NVALID-ORDER-388 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.38 NVALID-ORDER-389 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots
10.390NVALID-ORDER-390 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.39INVALID-ORDER-391 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.392NVALID-ORDER-392 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right).
10.39$NVALID-ORDER-393 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.394NVALID-ORDER-394 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) \dots
10.39 INVALID-ORDER-395 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \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)
10.396NVALID-ORDER-396 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right) . . . . . . . .
10.39 INVALID-ORDER-397 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_1 s}\right) \ldots
10.39 NVALID-ORDER-398 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right).
10.399NVALID-ORDER-399 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.40 INVALID-ORDER-400 Z(s) = \left(L_1 s + \frac{1}{C_{1s}}, L_2 s + \frac{1}{C_{2s}}, \infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}\right)
10.40INVALID-ORDER-401 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right) . . .
10.402NVALID-ORDER-402 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.40 INVALID-ORDER-403 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.404NVALID-ORDER-404 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.40 INVALID-ORDER-405 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.40 INVALID-ORDER-406 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L\right) . . .
10.40 TNVALID-ORDER-407 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_1 s}\right)
10.40 NVALID-ORDER-408 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.409NVALID-ORDER-409 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.410NVALID-ORDER-410 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.41INVALID-ORDER-411 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.412NVALID-ORDER-412 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) . . .
10.418NVALID-ORDER-413 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.414NVALID-ORDER-414 Z(s) = \left(L_1 s + \frac{1}{C_{1s}}, L_2 s + R_2 + \frac{1}{C_{2s}}, \infty, \infty, \infty, \frac{L_L s}{C_{1L} L_1 s^2 + 1} + R_L\right)
10.41 INVALID-ORDER-415 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.416NVALID-ORDER-416 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right) \dots
10.41 INVALID-ORDER-417 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_1 s}\right) . . .
10.41 NVALID-ORDER-418 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) . . .
10.419NVALID-ORDER-419 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.420NVALID-ORDER-420 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.42INVALID-ORDER-421 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right)
10.422NVALID-ORDER-422 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.42 \text{BNVALID-ORDER-} 423 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ \dots 
10.424NVALID-ORDER-424 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_1 L_2 s^2 + 1} + R_L\right) \dots \dots \dots
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10.42БNVALID-ORDER-425 $Z(s) = 1$	$\left(L_{1}s + \frac{1}{C_{1}s}, \ \frac{L_{2}s}{C_{2}L_{2}s^{2}+1} + R_{2}, \ \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) $	8'
10.426NVALID-ORDER-426 $Z(s) = 1$	$\left(L_{1}s + \frac{1}{C_{1}s}, \frac{R_{2}(C_{2}L_{2}s^{2}+1)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1}, \infty, \infty, \infty, R_{L}\right) $	88
10.42 INVALID-ORDER-427 $Z(s) = 1$	$\left(L_1s + \frac{1}{C_1s}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$	88
10.42\&NVALID-ORDER-428 $Z(s) = 1$	$\left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots \right)$	88
10.42 9 NVALID-ORDER-429 $Z(s) = 1$	$\left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	88
10.43 0 NVALID-ORDER-430 $Z(s) = 1$	$\left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) \dots $	88
10.43 INVALID-ORDER-431 $\boldsymbol{Z}(s) = ($	$\left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots $	88
10.432NVALID-ORDER-432 $Z(s) = 1$	$\left(L_{1}s + \frac{1}{C_{1}s}, \frac{R_{2}\left(C_{2}L_{2}s^{2} + 1\right)}{C_{2}L_{2}s^{2} + C_{2}R_{2}s + 1}, \infty, \infty, \infty, L_{L}s + R_{L} + \frac{1}{C_{L}s}\right) \dots \dots$	88
10.43 B NVALID-ORDER-433 $Z(s) = 1$	$\left(L_{1}s + \frac{1}{C_{1}s}, \frac{R_{2}(C_{2}L_{2}s^{2}+1)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1}, \infty, \infty, \infty, \frac{L_{L}R_{L}s}{C_{L}L_{L}R_{L}s^{2}+L_{L}s+R_{L}}\right) \dots \dots$	88
10.43#NVALID-ORDER-434 $Z(s) = 1$	$\left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)\right)$	88
10.43 INVALID-ORDER-435 $Z(s) = 1$	$\left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots \dots$	8
10.43 6 NVALID-ORDER-436 $Z(s) = ($	$\left(\frac{L_1s}{C_1L_1s^2+1},\ R_2,\ \infty,\ \infty,\ \infty,\ \frac{1}{C_Ls}\right)$	89
10.43 T NVALID-ORDER-437 $Z(s) = ($	$\left(\frac{L_1s}{C_1L_1s^2+1},\ R_2,\ \infty,\ \infty,\ \frac{R_L}{C_LR_Ls+1}\right)$	8
10.43\$NVALID-ORDER-438 $Z(s)=\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1},\ R_{2},\ \infty,\ \infty,\ \infty,\ R_{L}+\frac{1}{C_{L}s}\right)$	89
10.43 9 NVALID-ORDER-439 $Z(s) = ($	$\left(\frac{L_1s}{C_1L_1s^2+1},\ R_2,\ \infty,\ \infty,\ L_Ls+rac{1}{C_Ls} ight)$	89
10.44 0 NVALID-ORDER-440 $Z(s) = ($	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, R_{2}, \infty, \infty, \infty, \frac{L_{L}s}{C_{L}L_{L}s^{2}+1}\right)'$	8
	$\left(\frac{L_1s}{C_1L_1s^2+1},\ R_2,\ \infty,\ \infty,\ \infty,\ L_Ls+R_L+rac{1}{C_Ls} ight)$	8
	$\left(\frac{L_{18}}{C_1L_1s^2+1}, R_2, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \dots \dots$	8!
	$\left(\frac{L_1s}{C_1L_1s^2+1}, \ R_2, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	89
10.44 INVALID-ORDER-444 $Z(s) = 1$	$\left(\frac{L_1s}{C_1L_1s^2+1}, R_2, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)'}{C_1L_1s^2+C_1R_1s+1}\right)$	90
10.44 5 NVALID-ORDER-445 $Z(s) = ($	$\left(\frac{L_1s}{GL_2s^2+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \infty, R_L\right)$	90
10.44 6 NVALID-ORDER-446 $Z(s) = ($	$\left(\frac{L_1s}{C_1L_1s^2+1}, \frac{1}{C_2s}, \infty, \infty, \infty, R_L\right) \qquad \qquad$	9
10.44 T NVALID-ORDER- 447 $Z(s) = 0$	$\left(\frac{L_{18}}{C_1L_1s^2+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_Ls} \right)$	9
10.44\(\text{8}\)NVALID-ORDER-448 $Z(s) = ($	$\left(rac{L_1s}{C_1L_1s^2+1}, rac{1}{C_2s}, \infty, \infty, \infty, L_Ls + rac{1}{C_Ls} ight)$	96
10.44 9 NVALID-ORDER-449 $Z(s) = ($	$\left(\frac{L_1s}{C_1L_1s^2+1},\frac{1}{C_2s},\infty,\infty,\infty,\frac{L_Ls}{C_LL_Ls^2+1}\right)\ldots$	96
10.45 0 NVALID-ORDER-450 $Z(s) = ($	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \frac{1}{C_{2}s}, \infty, \infty, \infty, L_{L}s+R_{L}+\frac{1}{C_{L}s}\right). \dots \dots$	96
10.45INVALID-ORDER- 451 $Z(s) = 0$	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1},\frac{1}{C_{2}s},\infty,\infty,\infty,\frac{L_{L}R_{L}s}{C_{L}L_{L}R_{L}s^{2}+L_{L}s+R_{L}}\right)..................$	90
10.45 2 NVALID-ORDER- 452 $Z(s) = 0$	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \frac{1}{C_{2}s}, \infty, \infty, \infty, \frac{L_{L}s}{C_{L}L_{L}s^{2}+1} + R_{L}\right)$	90
10.45 NVALID-ORDER-453 $Z(s) = 1$	$\left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \ \dots $	9
10.45INVALID-ORDER- 454 $Z(s) = ($	$\left(\frac{L_1s}{C_1L_2s^2+1},\frac{R_2}{C_2R_2s+1},\infty,\infty,\infty,\infty,R_L\right)$	9
10.45INVALID-ORDER- 455 $Z(s) = ($	$\left(\frac{L_1s}{CL_2^2+1}, \frac{R_2}{CR_2+1}, \infty, \infty, \infty, \frac{1}{C_2}\right)$	9
10.45 6NVALID-ORDER-456 $Z(s) = 1$	$\left(\frac{L_1s}{L_1s}, \frac{R_2}{R_2}, \infty, \infty, \infty, \frac{R_L}{R_2}\right)$	9
$10.45 \text{INVALID-ORDER-} 457 \ Z(s) = 0$	$ \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \frac{R_{2}}{C_{2}R_{2}s+1}, \infty, \infty, \infty, \frac{R_{L}}{C_{L}R_{L}s+1} \right) $ $ \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \frac{R_{2}}{C_{2}R_{2}s+1}, \infty, \infty, \infty, \infty, \frac{R_{L}}{C_{L}R_{L}s+1} \right) $ $ \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \frac{R_{2}}{C_{2}R_{2}s+1}, \infty, \infty, \infty, \infty, R_{L} + \frac{1}{C_{L}s} \right) $	9
10.45\(\text{8NVALID-ORDER-458} \) $Z(s) = 0$	$\left(rac{L_1 s}{C_1 L_1 s^2 + 1}, \; rac{R_2}{C_2 R_2 s + 1}, \; \infty, \; \infty, \; \infty, \; K_L + rac{C_L s}{C_L s} ight) = \left(rac{L_1 s}{C_1 L_1 s^2 + 1}, \; rac{R_2}{C_2 R_2 s + 1}, \; \infty, \; \infty, \; \infty, \; \infty, \; L_L s + rac{1}{C_L s} ight) = \dots $	9
10.45 0 NVALID-ORDER-459 Z(s) —	$\left(rac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \; rac{R_{2}}{C_{2}R_{2}s+1}, \; \infty, \; \infty, \; \infty, \; rac{L_{L}s}{C_{L}L_{L}s^{2}+1} ight) \; . \; . \; . \; . \; . \; . \; . \; . \; . \; $	Q
10.460NVALID-ORDER 460.7(c) = 1		a ·
10.100.11111111111111111111111111111111	$\left(C_1L_1s^2+1, C_2R_2s+1, \infty, \infty, \infty, \Sigma_L s^{-1} + C_L s \right)$	J.

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10.46INVALID-ORDER-461 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) ......
10.462NVALID-ORDER-462 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) \dots
10.46 INVALID-ORDER-463 Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \frac{R_{2}}{C_{2}R_{2}s+1}, \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)
10.464NVALID-ORDER-464 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right) . . . . . . . . . . . . . . . . .
10.46 INVALID-ORDER-465 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_1 s}\right) \dots \dots
10.46 INVALID-ORDER-466 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots
10.46 INVALID-ORDER-467 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) . . . .
10.46 NVALID-ORDER-468 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.469NVALID-ORDER-469 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right) .....
10.470NVALID-ORDER-470 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right).
10.47INVALID-ORDER-471 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) . . . . . .
10.472NVALID-ORDER-472 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1} + R_L\right)
10.47 INVALID-ORDER-473 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \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)
10.47\(\text{INVALID-ORDER-474}\) Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_0 s}, \infty, \infty, \infty, \infty, R_L\right) \dots \dots
10.47 INVALID-ORDER-475 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots \dots
10.476NVALID-ORDER-476 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_1 R_1 s + 1}\right) . . . .
10.47 INVALID-ORDER-477 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots
10.47\( \text{NVALID-ORDER-478} \) Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s} \right) \ . \ . \ .
10.479NVALID-ORDER-479 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots \dots
10.48 INVALID-ORDER-480 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) . . . . .
10.48INVALID-ORDER-481 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.482NVALID-ORDER-482 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1} + R_L\right)
10.48 INVALID-ORDER-483 Z(s) = \left(\frac{L_{1s}}{C_1L_1s^2+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
10.484NVALID-ORDER-484 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L\right) \dots \dots
10.48 INVALID-ORDER-485 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_1 s}\right) \dots
10.48 INVALID-ORDER-486 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_1 R_1 s + 1}\right)...
10.48TNVALID-ORDER-487 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.48\text{NVALID-ORDER-488} Z(s) = \left(\frac{L_1 s}{C_2 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.489NVALID-ORDER-489 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right)
10.49@NVALID-ORDER-490 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.49INVALID-ORDER-491 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.492NVALID-ORDER-492 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.49 INVALID-ORDER-493 Z(s) = \left(\frac{L_{1s}}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.494NVALID-ORDER-494 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right) . . .
10.49 INVALID-ORDER-495 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots
10.496NVALID-ORDER-496 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_1 R_1 s + 1}\right)
10.49 INVALID-ORDER-497 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.49\( \text{NVALID-ORDER-498} \) Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right)
10.499NVALID-ORDER-499 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
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$10.50 \text{ @NVALID-ORDER-500 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \ \dots \ $	95
10.50INVALID-ORDER-501 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	95
10.502NVALID-ORDER-502 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$	9
$10.50 \text{ INVALID-ORDER-} 503 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots $	90
$10.50 \text{INVALID-ORDER-} 504 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ R_L\right) \dots $	90
$10.50 \text{ 5NVALID-ORDER-505 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots \dots$	90
$10.50 \text{ (INVALID-ORDER-506 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots \dots$	96
$10.50 \text{ INVALID-ORDER-507 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) $	96
$10.50 \text{\&NVALID-ORDER-508} \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \ \dots $	90
$10.50 \text{ (DNVALID-ORDER-509 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) - \dots $	96
$10.51 \text{ @NVALID-ORDER-510 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) $	96
$10.51 \text{INVALID-ORDER-511} \ Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \ \frac{R_{2}\left(C_{2}L_{2}s^{2}+1\right)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1}, \ \infty, \ \infty, \ \infty, \ \frac{L_{L}R_{L}s}{C_{L}L_{L}R_{L}s^{2}+L_{L}s+R_{L}}\right) \dots $	90
$10.512 \text{NVALID-ORDER-} 512 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) \dots$	9'
$10.51 \text{BNVALID-ORDER-513} \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)'}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots $	9'
10.51 INVALID-ORDER-514 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$	9'
$10.51 \text{INVALID-ORDER-} 515 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \ \dots $	9'
10.516NVALID-ORDER-516 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$	9'
$10.51 \text{INVALID-ORDER-} 517 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \ \dots $	9'
10.51 NVALID-ORDER-518 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	9'
10.51 9 NVALID-ORDER-519 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	9'
10.520NVALID-ORDER-520 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	
$10.52 \text{INVALID-ORDER-521 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$	
10.522NVALID-ORDER-522 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	98
10.52 RNVALID-ORDER-523 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$	
10.52\PVALID-ORDER-524 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$	98
$10.525 \text{NVALID-ORDER-} 525 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots $	
$10.526 \text{NVALID-ORDER-} 526 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots$	
$10.52 \text{TNVALID-ORDER-} 527 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) $	
$10.52 \text{NVALID-ORDER-} 528 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots \dots$	
$10.52 \text{ (NVALID-ORDER-529 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_2 s}\right) \dots \dots$	98
$10.53 \text{@NVALID-ORDER-530 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots \dots$	
$10.53 \text{INVALID-ORDER-531 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L L_S^2 + 1} + R_L\right) \dots \dots$	
$10.532\text{NVALID-ORDER-}532 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right) $	
10.53 NVALID-ORDER-533 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, R_L\right) \dots \dots$	
10.53\PVALID-ORDER-534 $Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$	
$10.53 \text{INVALID-ORDER-} 535 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) $	Q(
$C_1s + C_1s + C_2s + C_2R_2s + 1, C_2R_2s + 1, C_3s + C_2R_2s + 1, C_4s + C_5s + C_5s$	υ.

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10.53 NVALID-ORDER-536 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) . . . .
 10.53TNVALID-ORDER-537 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.53\( \text{NVALID-ORDER-538} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right) \dots \dots
10.539NVALID-ORDER-539 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) . . .
10.540NVALID-ORDER-540 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.54INVALID-ORDER-541 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.542NVALID-ORDER-542 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \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)
10.54\(\text{BNVALID-ORDER-543}\) Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L\right)
 10.54 INVALID-ORDER-544 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_4 s}\right)
 10.545NVALID-ORDER-545 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
 10.546NVALID-ORDER-546 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1s}}, R_2 + \frac{1}{C_{2s}}, \infty, \infty, \infty, R_L + \frac{1}{C_{Ls}}\right)
 10.54 INVALID-ORDER-547 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
 10.54\( \text{NVALID-ORDER-548} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right) 
 10.54 NVALID-ORDER-549 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.55@NVALID-ORDER-550 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.55INVALID-ORDER-551 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.55 ENVALID-ORDER-552 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.55 INVALID-ORDER-553 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1.5}}, L_2 s + \frac{1}{C_{2.5}}, \infty, \infty, \infty, R_L\right).
 10.554NVALID-ORDER-554 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{18}}, L_2 s + \frac{1}{C_{28}}, \infty, \infty, \infty, \frac{1}{C_{L8}}\right)
10.55 INVALID-ORDER-555 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.55 INVALID-ORDER-556 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1.5}}, L_2 s + \frac{1}{C_{2.5}}, \infty, \infty, \infty, R_L + \frac{1}{C_{1.5}}\right)
 10.55TNVALID-ORDER-557 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.55\( \text{NVALID-ORDER-558} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1} \right) 
10.559NVALID-ORDER-559 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.56@NVALID-ORDER-560 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1.8}}, L_2 s + \frac{1}{C_{2.8}}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_{1.L_L} R_L s^2 + L_L s + R_L}\right)
10.56INVALID-ORDER-561 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.562NVALID-ORDER-562 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \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)
10.56 INVALID-ORDER-563 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L\right) \dots
 10.56\(\text{INVALID-ORDER-564}\) Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_4 s}\right).
 10.56 INVALID-ORDER-565 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)...
 10.56 NVALID-ORDER-566 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_2 s}\right)
 10.56 INVALID-ORDER-567 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
 10.56\( \) NVALID-ORDER-568 Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} \right) \dots
10.569NVALID-ORDER-569 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.57 INVALID-ORDER-570 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
10.57INVALID-ORDER-571 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.572 \text{NVALID-ORDER-572} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1} \right)
10.57\( \text{NVALID-ORDER-573} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \) \( \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \) \( \infty, \) \
10.574NVALID-ORDER-574 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_1 s}\right)
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$10.57 \text{ INVALID-ORDER-575 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \dots $	10
10.576NVALID-ORDER-576 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$	10
10.57INVALID-ORDER-577 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$	10
10.57 NVALID-ORDER-578 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$	10
10.57 NVALID-ORDER-579 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$	10
10.58 INVALID-ORDER-580 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$	10
10.58INVALID-ORDER-581 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$	10
10.582NVALID-ORDER-582 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$	10
10.58 INVALID-ORDER-583 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)$	104
10.584NVALID-ORDER-584 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$. 10
$10.58 \text{ INVALID-ORDER-585 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots $	10
10.58 6 NVALID-ORDER-586 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$	10
10.58 T NVALID-ORDER-587 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$	10
10.58 NVALID-ORDER-588 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$. 10
$10.58 \text{ (NVALID-ORDER-589 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots \dots$. 10
$10.59 \text{@NVALID-ORDER-590 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ \dots $	10
10.59INVALID-ORDER-591 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$	10
$10.59 \text{ 2NVALID-ORDER-592 } Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \right) \dots \dots$	10
	10
10.59\(\text{PNVALID-ORDER-592} \(Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \i	. 100
$10.59 \texttt{ENVALID-ORDER-}592 \ Z(s) = \left(\underbrace{L_1 s + R_1 + \frac{1}{C_1 s}}, \ \underbrace{\frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}}, \ \infty, \ \infty, \ \infty, \ \underbrace{\frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}} \right) \\ 10.59 \texttt{ENVALID-ORDER-}593 \ Z(s) = \left(\underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ \underbrace{\frac{1}{C_L s}} \right) \\ 10.59 \texttt{ENVALID-ORDER-}594 \ Z(s) = \left(\underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ \underbrace{\frac{R_L}{C_L R_L s + 1}} \right) \\ 10.59 \texttt{ENVALID-ORDER-}595 \ Z(s) = \left(\underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s} \right) \\ 10.59 \texttt{ENVALID-ORDER-}595 \ Z(s) = \left(\underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s} \right) \\ 10.59 \texttt{ENVALID-} + \underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L + \underbrace{\frac{1}{C_L s}} \right) \\ 10.59 \texttt{ENVALID-} + \underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \underbrace{\frac{1}{C_L s}} \right) \\ 10.59 \texttt{ENVALID-} + \underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L + \underbrace{\frac{1}{C_L s}} \right) \\ 10.59 \texttt{ENVALID-} + \underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \underbrace{\frac{1}{C_L s}} \right) \\ 10.59 \texttt{ENVALID-} + \underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \underbrace{\frac{1}{C_L s}} \right) \\ 10.59 \texttt{ENVALID-} + \underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \underbrace{\frac{1}{C_L s}} \right) \\ 10.59 \texttt{ENVALID-} + \underbrace{\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}}, \ R_2, \ \infty, \ $	100
$ 10.59 \texttt{Envalid-order-} 592 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) $ $ 10.59 \texttt{Envalid-order-} 593 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \frac{1}{C_L s} \right) . $ $ 10.59 \texttt{Envalid-order-} 594 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1} \right) . $ $ 10.59 \texttt{Envalid-order-} 595 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s} \right) . $ $ 10.59 \texttt{Envalid-order-} 596 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s} \right) . $	100
$ \begin{array}{l} 10.59 \text{Envalid-order-} 592 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ 10.59 \text{Envalid-order-} 593 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right) \\ 10.59 \text{Envalid-order-} 594 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right) \\ 10.59 \text{Envalid-order-} 595 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right) \\ 10.59 \text{Envalid-order-} 596 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right) \\ 10.59 \text{Envalid-order-} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \frac{L_L s}{C_L t} \right) \\ 10.59 \text{Envalid-order-} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \frac{L_L s}{C_L t} \right) \\ 10.59 \text{Envalid-order-} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \frac{L_L s}{C_L t} \right) \\ 10.59 \text{Envalid-order-} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \frac{L_L s}{C_L t} \right) \\ 10.59 \text{Envalid-order-} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \frac{L_L s}{C_L t} \right) \\ 10.59 \text{Envalid-order-} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \frac{L_L s}{C_L t} \right) \\ 10.59 \text{Envalid-order-} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L t} \right) \\ 10.59 \text{Envalid-order-} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \infty, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 t^2 + L_1 t + R_1} \right) $	100
$ \begin{aligned} &10.59 \texttt{Envalid-order-592} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ &10.59 \texttt{Envalid-order-593} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s} \right) \\ &10.59 \texttt{Envalid-order-594} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1} \right) \\ &10.59 \texttt{Envalid-order-595} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{L_L s} \right) \\ &10.59 \texttt{Envalid-order-596} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s} \right) \\ &10.59 \texttt{Envalid-order-597} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_L L_L s^2 + 1} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_L L_L s^2 L_L s} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_L s} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_L L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_L s} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L$	100
$ \begin{aligned} &10.59 \texttt{Envalid-order-592} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ &10.59 \texttt{Envalid-order-593} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s} \right) \\ &10.59 \texttt{Envalid-order-594} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1} \right) \\ &10.59 \texttt{Envalid-order-595} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{L_L s} \right) \\ &10.59 \texttt{Envalid-order-596} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s} \right) \\ &10.59 \texttt{Envalid-order-597} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_L L_L s^2 + 1} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_L L_L s^2 L_L s} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_L s} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_L L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_L s} \right) \\ &10.59 \texttt{Envalid-order-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_L s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L_L \frac{L_1 s}{C_1 L_1 R_1 s^2 L_1 s + R_1}, \ R_L s + L$	100
$ \begin{aligned} &10.59 \\ \text{Envalid-order-592} \ Z(s) = \left(L_{1}s + R_{1} + \frac{1}{c_{1}}, \ \frac{R_{2}(C_{2}L_{2}s^{2} + 1)}{C_{2}L_{2}s^{2} + C_{2}R_{2}s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_{L}(C_{L}L_{L}s^{2} + 1)}{C_{L}L_{L}s^{2} + C_{L}R_{L}s + 1} \right) \\ &10.59 \\ \text{Envalid-order-593} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{R}_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ \frac{1}{c_{L}s} \right) \\ &10.59 \\ \text{Envalid-order-594} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ \frac{R_{L}}{C_{L}R_{L}s + 1} \right) \\ &10.59 \\ \text{Envalid-order-595} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ L_{L}s + \frac{1}{c_{L}s} \right) \\ &10.59 \\ \text{Envalid-order-596} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ L_{L}s + \frac{1}{c_{L}s} \right) \\ &10.59 \\ \text{Envalid-order-597} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ \frac{L_{L}s + L_{L}s}{C_{L}L_{L}s^{2} + 1} \right) \\ &10.59 \\ \text{Envalid-order-598} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ L_{L}s + L_{L} + \frac{1}{c_{L}s} \right) \\ &10.59 \\ \text{Envalid-order-599} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ L_{L}s + R_{L} + \frac{1}{c_{L}s} \right) \\ &10.59 \\ \text{Envalid-order-599} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ L_{L}s + R_{L} + \frac{1}{c_{L}s} \right) \\ &10.59 \\ \text{Envalid-order-599} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ \frac{L_{L}R_{L}s}{C_{L}L_{L}R_{2}s^{2} + L_{L}s + R_{L}} \right) \\ &10.60 \\ \text{Envalid-order-590} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}L_{L}R_{1}s^{2} + L_{L}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ \frac{L_{L}R_{1}s}{C_{L}L_{L}R_{2}s^{2} + L_{L}s + R_{L}} \right) \\ &10.60 \\ \text{Envalid-order-590} \ Z(s) = \left(\frac{L_{L}R_{1}s}{C_{L}R_{1}s^{2} + L_{1}s + R_{1}}, \ R_{2}, \ \infty, \ \infty, \ \infty, \ \frac{L_{L}R_{1}s}{C_{L}L_{L}R_{2}s^{2} + L_{1}s + R_{L}} \right) \\ &10.60 \\ \text{Envalid-order-590} \ Z(s) $	100 100 100 100
$ \begin{array}{l} 10.59 \\ \text{ENVALID-ORDER-592} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s^2} \cdot \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \; \infty, \; \infty, \; \infty, \; \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ 10.59 \\ \text{ENVALID-ORDER-593} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{1}{C_L s} \right) \\ 10.59 \\ \text{ENVALID-ORDER-594} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{R_L}{C_L R_L s + 1} \right) \\ 10.59 \\ \text{ENVALID-ORDER-595} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; R_L + \frac{1}{C_L s} \right) \\ 10.59 \\ \text{ENVALID-ORDER-596} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; L_L s + \frac{1}{C_L s} \right) \\ 10.59 \\ \text{ENVALID-ORDER-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{L_L R_1 s}{C_L L_L s^2 + 1} \right) \\ 10.59 \\ \text{ENVALID-ORDER-599} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; L_L s + R_L + \frac{1}{C_L s} \right) \\ 10.59 \\ \text{ENVALID-ORDER-599} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; L_L s + R_L + \frac{1}{C_L s} \right) \\ 10.60 \\ \text{ENVALID-ORDER-600} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{R_L (R_L L_2 s + 1)}{C_L L_L R_1 s^2 + L_1 s + R_1}, \; R_L \right) \\ 10.60 \\ \text{ENVALID-ORDER-601} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L R_1 s^2 + L_1 s + R_1}, \; R_L \right) \\ \\ \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L R_1 s^2 + L_1 s + R_1}, \; R_L \right) \\ \\ \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{R_L (C_L L_L s^2 + 1)}{C_L R_1 s^2 + L_1 s + R_1}, \; R_L \right) \\ \\ \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{R_L (C_L L_L s^2 + 1)}{C_L R_1 s^2 + L_1 s + R_1}, \; R_L \right) \\ \\ \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \; R_2, \; \infty, \; \infty, \; \infty, \; \frac{R_L (C_L L_L s^2 + 1)}{C_L R_1 s^2 + L_1 s $	100 100 100 100
$ \begin{aligned} &10.59 \text{Envalid-order.} 592 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 (C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1} \right) \\ &10.59 \text{Envalid-order.} 593 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \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}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right) \\ &10.59 \text{Envalid-order.} 595 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, R_L + \frac{R_1}{C_L s} \right) \\ &10.59 \text{Envalid-order.} 595 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right) \\ &10.59 \text{Envalid-order.} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right) \\ &10.59 \text{Envalid-order.} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right) \\ &10.59 \text{Envalid-order.} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_1 R_1 s^2 + L_2 s + R_L} \right) \\ &10.69 \text{Envalid-order.} 597 \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \\ &10.69 \text{Envalid-order.} 2(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \\ &10.60 \text{Envalid-order.} 2(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_L}, R_2, \infty, \infty, \infty, \frac{R_L (C_L L_2 s^2 + 1)}{C_L L_2 s^2 + C_L R_L s^2 + L_L s + R_L} \right) \\ &10.60 \text{Envalid-order.} 2(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_L}, R_2, \infty, \infty, \infty, \frac{R_L (C_L L_2 s^2 + 1)}{C_L L_2 c^2 + C_L R_L s^2 + L_1 s + R_L} \right) \\ &10.60 \text{Envalid-order.} 2(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_L}, R_2, \infty, \infty, \infty, \infty, \frac{R_L (C_L L_2 s^2 + 1)}{C_L L_2 L_2 s^2 + C_L R_L s + L_1} \right) \\ &10.60 \text{Envalid-order.} 2(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_L}, R_2, \infty, \infty, \infty, \infty, \frac{R_L (C_L L_2 s^2 + 1)}{C_L L_2 c^2 + C_L s^2 + L_1 s + R_L} \right) \\ &10.60 \text{Envalid-order.} 2(s) = \left(\frac{L_1 R_1 s}{C_1 L_1$	100 100 100 100 100
$ \begin{array}{l} 10.59 \text{ENVALID-ORDER-} 592 \ Z(s) = \left(L_{1} s + R_{1} + \frac{1}{C_{1} s}, \frac{R_{2}(C_{2} L_{2} s^{2} + 1)}{C_{2} L_{2} s^{2} + C_{2} R_{2} s + 1}, \right. \\ 0.59 \text{ENVALID-ORDER-} 593 \ Z(s) = \left(\frac{L_{1} R_{3}}{C_{1} L_{1} R_{3} s^{2} + L_{1} s + R_{1}}, R_{2}, \infty, \infty, \infty, \frac{1}{C_{1} L_{3}} \right) \\ 10.59 \text{ENVALID-ORDER-} 594 \ Z(s) = \left(\frac{L_{1} R_{3}}{C_{1} L_{1} R_{3} s^{2} + L_{1} s + R_{1}}, R_{2}, \infty, \infty, \infty, \infty, \frac{R_{L}}{C_{1} R_{1} L_{3} s + L_{1}} \right) \\ 10.59 \text{ENVALID-ORDER-} 595 \ Z(s) = \left(\frac{L_{1} R_{3}}{C_{1} L_{1} R_{3} s^{2} + L_{1} s + R_{1}}, R_{2}, \infty, \infty, \infty, R_{L} + \frac{1}{C_{L} s} \right) \\ 10.59 \text{ENVALID-ORDER-} 596 \ Z(s) = \left(\frac{L_{1} R_{3}}{C_{1} L_{1} R_{3} s^{2} + L_{1} s + R_{1}}, R_{2}, \infty, \infty, \infty, L_{L} s + \frac{1}{C_{L} s} \right) \\ 10.59 \text{ENVALID-ORDER-} 597 \ Z(s) = \left(\frac{L_{1} R_{1} s^{2}}{C_{1} L_{1} R_{1} s^{2} + L_{1} s + R_{1}}, R_{2}, \infty, \infty, \infty, \frac{L_{L} s + L_{1} s + L$	100 100 100 100 100 100
$ \begin{aligned} &10.59 \& \text{NVALID-ORDER-592} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 (C_2 L_2 s^2 + 1)}{C_2 L_2 R_1 s^2 + (C_2 R_2 s^2 + 1)}, \infty, \infty, \infty, \frac{R_L (C_L L_z s^2 + 1)}{C_L L_L R_L s^2 + (C_L R_L s + 1)} \right) \\ &10.59 \& \text{NVALID-ORDER-594} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{R_L c}{C_L R_1 s^2 + L_2 s + R_1} \right) \\ &10.59 \& \text{NVALID-ORDER-595} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, R_L c_L s \right) \\ &10.59 \& \text{NVALID-ORDER-596} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s} \right) \\ &10.59 \& \text{NVALID-ORDER-596} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s^2} \right) \\ &10.59 \& \text{NVALID-ORDER-596} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s^2} \right) \\ &10.59 \& \text{NVALID-ORDER-596} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s^2} \right) \\ &10.59 \& \text{NVALID-ORDER-599} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s^2} \right) \\ &10.59 \& \text{NVALID-ORDER-699} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_L s + \frac{L_1 R_2 s}{C_L L_2 s^2 + L_2 s^2 + L_2 s} \right) \\ &10.60 \& \text{NVALID-ORDER-600} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{L_L R_1 s}{C_L L_2 s^2 + L_2 s + R_1} \right) \\ &10.60 \& \text{NVALID-ORDER-600} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2}, \infty, \infty, \infty, \frac{R_L c}{C_L L_2 R_2 s^2 + L_2 s + R_1}}{C_1 L_2 R_1 L_2 L_2 s + R_1}, \frac{1}{C_2}, \infty, \infty, \infty, \frac{R_L c}{C_L L_2 R_2 s + L_2 s + R_1}}{C_1 L_2 R_2 L_2 L_2 L_2 L_2 R_2 L_2 L_2 R_2 + L_2 R_2 R_2 + L_2 L_2 R_2 R_2 R_2 R_2 R_2 R_2 R_2 R_2 R_2 R$	100 100 100 100 100 100 100
$ \begin{aligned} &10.59 \text{EVVALID-ORDER-592} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{13}}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + (C_1 R_2 s^2 + 1)}, \infty, \infty, \infty, \frac{R_C(C_L L_C s^2 + 1)}{C_C L_L s^2 + (C_1 R_2 s^2 + 1)} \right) \\ &10.59 \text{EVVALID-ORDER-593} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s} \right) \\ &10.59 \text{EVVALID-ORDER-594} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_2 s} \right) \\ &10.59 \text{EVVALID-ORDER-595} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s} \right) \\ &10.59 \text{EVVALID-ORDER-597} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_1 s + \frac{1}{C_L s} \right) \\ &10.59 \text{EVVALID-ORDER-597} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_1 s + \frac{1}{C_L s} \right) \\ &10.59 \text{EVVALID-ORDER-598} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_1 s + \frac{1}{C_L s} \right) \\ &10.59 \text{EVVALID-ORDER-599} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, L_1 s + \frac{1}{C_L s} \right) \\ &10.59 \text{EVVALID-ORDER-599} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{L_1 R_2 s}{C_1 L_1 R_1 s^2 + L_1 s + R_0} \right) \\ &10.60 \text{EVVALID-ORDER-600} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{R_L (C_L L_2 s^2 + 1)}{C_L L_2 s^2 + C_L R_2 s + 1} \right) \\ &10.60 \text{EVVALID-ORDER-603} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, R_L + \frac{1}{C_2 s} \right) \\ &10.60 \text{EVVALID-ORDER-604} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (C_L L_2 s^2 + 1)}{C_L L_2 s^2 + C_L L_2 s + C_L s} \right) \\ &10.60 \text{EVVALID-ORDER-603} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (C_L L_2 s^2 + 1)}{C_L L_1 R_1 s^2 + L_1 s + C_L s} \right) \\ &10.60 \text{EVVALID-ORDER-605} \ Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, $	100 100 100 100 100 100 100 100 100 100
$\begin{aligned} &10.59\text{EVALID-ORDER-592} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{1}} \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_1 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L(C_1 L_L s^2 + 1)}{C_L L_2 s^2 + C_1 R_2 s + 1}\right) \\ &10.59\text{EVALID-ORDER-593} \ Z(s) = \left(\frac{L_1 R_1 R_2 R_2}{C_1 L_1 R_1 s^2 + L_1 + R_1}, R_2, \infty, \infty, \infty, \frac{1}{C_2 s}\right) \\ &10.59\text{EVALID-ORDER-594} \ Z(s) = \left(\frac{L_1 R_2 R_2}{C_1 L_1 R_2 s^2 + L_1 + R_1}, R_2, \infty, \infty, \infty, \frac{1}{C_2 R_2 s^2 + 1}\right) \\ &10.59\text{EVALID-ORDER-595} \ Z(s) = \left(\frac{L_1 R_2 R_2}{C_1 L_1 R_1 s^2 + L_1 + R_1}, R_2, \infty, \infty, \infty, L_1 s + \frac{1}{C_2 s}\right) \\ &10.59\text{EVALID-ORDER-597} \ Z(s) = \left(\frac{L_1 R_2 R_2}{C_1 L_1 R_2 s^2 + L_1 + R_1}, R_2, \infty, \infty, \infty, L_2 s + \frac{1}{C_1 s}\right) \\ &10.59\text{EVALID-ORDER-599} \ Z(s) = \left(\frac{L_1 R_2 R_2}{C_1 L_1 R_1 s^2 + L_1 + R_1}, R_2, \infty, \infty, \infty, L_2 s + R_1 s + \frac{1}{C_1 s}\right) \\ &10.59\text{EVALID-ORDER-599} \ Z(s) = \left(\frac{L_1 R_2 R_2}{C_1 L_1 R_1 s^2 + L_1 + R_1}, R_2, \infty, \infty, \infty, L_2 s + R_1 s + \frac{1}{C_1 s}\right) \\ &10.60\text{EVALID-ORDER-600} \ Z(s) = \left(\frac{R_1 R_2}{C_1 L_1 R_1 s^2 + L_1 + R_1}, R_2, \infty, \infty, \infty, \frac{L_2 R_2}{C_2 L_2 s^2 + L_2 R_2 s + 1}\right) \\ &10.60\text{EVALID-ORDER-601} \ Z(s) = \left(\frac{R_1 R_2}{C_1 L_1 R_2 s^2 + L_1 + R_1}, R_2, \infty, \infty, \infty, \frac{R_1 C_1 L_2 s^2 + L_2 s + R_2}{C_2 L_2 s^2 + C_2 R_2 s + 1}\right) \\ &10.60\text{EVALID-ORDER-602} \ Z(s) = \left(\frac{R_1 R_2}{C_1 L_1 R_2 s^2 + L_1 + R_1}, \frac{L_2 R_2}{C_2 s}, \infty, \infty, R_L\right) \\ &10.60\text{EVALID-ORDER-604} \ Z(s) = \left(\frac{R_1 R_2}{C_1 L_1 R_2 s^2 + L_1 + R_1}, \frac{L_2 R_2}{C_2 s}, \infty, \infty, R_L + \frac{L_1 R_2}{C_2 s}\right) \\ &10.60\text{EVALID-ORDER-606} \ Z(s) = \left(\frac{L_1 R_2 R_2}{C_1 L_1 R_2 s^2 + L_1 + R_1}, \frac{L_2 R_2}{C_2 s}, \infty, \infty, R_L + \frac{L_1 R_2}{C_2 s}\right) \\ &10.60\text{EVALID-ORDER-606} \ Z(s) = \left(\frac{L_1 R_2 R_2}{C_1 L_1 R_2 s^2 + L_1 + R_1}, \frac{L_1 R_2}{C_2 s}, \infty, \infty, \infty, R_L + \frac{L_1 R_2}{C_2 s}\right) \\ &10.60\text{EVALID-ORDER-606} \ Z(s) = \left(\frac{L_1 R_2 R_2}{C_1 L_1 R_2 s^2 + L_1 + R_1}, \frac{L_1 R_2}{C_2 s}, \infty, \infty, \infty, R_L + \frac{L_1 R_2}{C_2 s}\right) \\ &10.60\text{EVALID-ORDER-606} \ Z(s) = \left(L_1 R_2$	100 100 100 100 100 100 100 100 100 100 100 100
$ \begin{array}{c} 10.59 \text{EVALID-ORDER}. 592 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{c1}}, \frac{R_2(C_2L_2s^2) + 1}{C_2L_2s^2 + (C_2R_2s + 1)} \right) \\ 10.59 \text{EVALID-ORDER}. 592 \ Z(s) = \left(\frac{L_1R_1R_2}{C_1L_2R_1R_2s^2 + R_1}, R_2 \right) \\ C_{12} \left(\frac{R_1R_2}{L_1R_1R_2s^2 + R_1}, R_2 \right) \\ C_{12} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{12} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{12} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{13} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{14} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{15} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{15} \left(\frac{R_1R_2}{L_1R_2}, R_2 \right) \\ $	100 100 100 100 100 100 100 100 100 100 100 100 100
$ \begin{aligned} & 10.59 \text{EVALID-ORDER-392} \ Z(s) = \left(L_{18} + R_{1} + \frac{1}{C_{18}} \cdot \frac{R_{15}(c_{15}c_{18}^{2} + c_{18}c_{11})}{c_{15}c_{18}^{2} + c_{18}c_{18}c_{11}}, \infty, \infty, \infty, \frac{R_{15}(c_{15}c_{18}c_{18}c_{18}c_{18})}{c_{15}c_{18}^{2} + c_{15}c_{18}c_{18}c_{18}c_{18}c_{18}c_{18}} \right) \\ & 10.59 \text{EVALID-ORDER-393} \ Z(s) = \left(\frac{L_{15}R_{15}}{c_{11}R_{15}^{2} + c_{18}c_{18}c_{18}}, R_{2}, \infty, \infty, \infty, \infty, \frac{1}{c_{18}c_{18}} \right) \\ & 10.59 \text{EVALID-ORDER-395} \ Z(s) = \left(\frac{L_{15}R_{15}^{2} + c_{18}c_{18}c_{18}c_{18}}{c_{11}R_{15}^{2} + c_{18}c_{18}c_{18}}, R_{2}, \infty, \infty, \infty, R_{1} + \frac{1}{c_{18}}s \right) \\ & 10.59 \text{EVALID-ORDER-395} \ Z(s) = \left(\frac{L_{15}R_{15}^{2} + c_{18}c_{18$	100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
$ \begin{array}{c} 10.59 \text{EVALID-ORDER}. 592 \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_{c1}}, \frac{R_2(C_2L_2s^2) + 1}{C_2L_2s^2 + (C_2R_2s + 1)} \right) \\ 10.59 \text{EVALID-ORDER}. 592 \ Z(s) = \left(\frac{L_1R_1R_2}{C_1L_2R_1R_2s^2 + R_1}, R_2 \right) \\ C_{12} \left(\frac{R_1R_2}{L_1R_1R_2s^2 + R_1}, R_2 \right) \\ C_{12} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{12} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{12} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{13} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{14} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{15} \left(\frac{R_1R_2}{L_1R_2R_2s^2 + R_1}, R_2 \right) \\ C_{15} \left(\frac{R_1R_2}{L_1R_2}, R_2 \right) \\ $	100 100

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\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots \dots
                                           \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
10.61BNVALID-ORDER-613 Z(s) =
10.614NVALID-ORDER-614 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \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}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) \dots
                                           \left(rac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \, rac{R_2}{C_2R_2s+1}, \, \infty, \, \infty, \, \infty, \, rac{L_Ls}{C_LL_Ls^2+1}
ight) \, \ldots \, \ldots \, \ldots
                                           \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots \dots
10.61\( \text{NVALID-ORDER-618} \( Z(s) = \left( \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \quad \tag{2.5}
10.619NVALID-ORDER-619 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right) .....
                                            \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}
10.62 ONVALID-ORDER-620 Z(s) =
                                           10.62INVALID-ORDER-621 Z(s) = 1
                                           \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2+\frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_1s}\right) \ldots \ldots
                                           \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots
10.62BNVALID-ORDER-623 Z(s) =
10.624NVALID-ORDER-624 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots
10.625NVALID-ORDER-625 Z(s) = \left(\frac{L_1 R_1 s}{C_2 L_1 R_1 s^2 + L_2 s + R_3}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) ......
10.626NVALID-ORDER-626 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right) \dots
10.62TNVALID-ORDER-627 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.62\( \text{NVALID-ORDER-628} \( Z(s) = \left( \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L} \right) \]
10.629NVALID-ORDER-629 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1} + R_L\right) \dots
                                           \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L (C_L L_L s^2 + 1)'}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.63 ONVALID-ORDER-630 Z(s) = 
\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, L_2s+\frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls}\right) \ldots \ldots
10.632NVALID-ORDER-632 Z(s) = 1
                                                                                                                                    \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, L_2s+\frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_1R_1s+1}\right) \ldots
10.63BNVALID-ORDER-633 Z(s) =
10.634NVALID-ORDER-634 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \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}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) \ldots \ldots \ldots
10.635NVALID-ORDER-635 Z(s) =
                                           \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right) .....
10.63 6NVALID-ORDER-636 Z(s) =
10.63 INVALID-ORDER-637 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots \dots
                                           10.63NVALID-ORDER-638 Z(s) =
10.639NVALID-ORDER-639 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
                                            \frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L (C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}
10.64 ONVALID-ORDER-640 Z(s) =
10.64 \text{INVALID-ORDER-} 641 \ Z(s) = \left(\frac{L_1 R_1 s}{C_2 L_1 R_1 s^2 + L_2 s + R_3}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L\right) \quad \dots 
10.642NVALID-ORDER-642 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_2 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_1 s}\right) \dots \dots
                                           \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \ldots
10.64INVALID-ORDER-644 Z(s) =
10.64 INVALID-ORDER-645 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_2 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) \dots \dots \dots
                                          \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_1 L_1 s^2 + 1}\right) ......
10.64 GNVALID-ORDER-646 Z(s) =
                                          \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) . . . . . . .
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10.65 0 NVALID-ORDER-650 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) \dots \dots$	11
10.65 I NVALID-ORDER-651 $Z(s) =$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L\right)$	11:
10.65 2 NVALID-ORDER-652 $Z(s) =$	$\left(\frac{L_{1}R_{1}s}{C_{1}L_{1}R_{1}s^{2}+L_{1}s+R_{1}}, \frac{L_{2}s}{C_{2}L_{2}s^{2}+1} + R_{2}, \infty, \infty, \infty, \frac{1}{C_{L}s}\right) \dots \dots$	11:
$10.65 \& \text{NVALID-ORDER-} 653 \ Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) \dots \dots$	11:
10.654NVALID-ORDER-654 $Z(s) = \displaystyle$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right) \dots \dots$	11:
10.65 Б NVALID-ORDER-655 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right) \dots \dots$	11:
10.65 GNVALID-ORDER-656 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right) \dots \dots$	11:
10.65 T NVALID-ORDER-657 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right) \dots \dots$	11:
10.65&NVALID-ORDER-658 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots \dots$	11:
10.65 9 NVALID-ORDER-659 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right). \dots \dots$	11:
10.66 0 NVALID-ORDER-660 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) - \dots - $	11:
10.66INVALID-ORDER-661 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right) \dots \dots$	11:
10.662NVALID-ORDER-662 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $	11;
10.66 & NVALID-ORDER-663~Z(s) =	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right) - \dots - $	11;
10.66#NVALID-ORDER-664 $Z(s) =$	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	113
10.66 NVALID-ORDER-665 $Z(s) =$	$\left(e_{1}^{L_{1}} n_{1}^{\alpha} + L_{1}^{\alpha} + h_{1}^{\alpha} - e_{2}^{L_{2}} n_{1}^{\alpha} + e_{2}^{L_{2}} n_{1}^{\alpha} + e_{2}^{L_{2}} n_{1}^{\alpha} \right)$	11;
10.66 © NVALID-ORDER-666 $Z(s) =$	$\left(\begin{smallmatrix} C_1L_1\kappa_{13} & + L_{13} + \kappa_{1} \end{smallmatrix} \right) \left(\begin{smallmatrix} C_2L_2s & + C_2\kappa_{23} + 1 \end{smallmatrix} \right)$	11:
$10.66 {\hbox{\it T}} {\hbox{\it NVALID-ORDER-}} 667~Z(s) =$	$\left(\frac{L_1R_1s}{C_1L_1R_1s^2 + L_1s + R_1}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, \infty, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right) \dots \dots$	11:
10.66\&NVALID-ORDER-668 $Z(s) =$	$\left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots \dots$	113
10.66 9 NVALID-ORDER-669 $Z(s) =$	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	11:
10.67 0 NVALID-ORDER-670 $Z(s) =$	$ \left(\frac{L_{1}R_{1}s}{C_{1}L_{1}R_{1}s^{2}+L_{1}s+R_{1}}, \frac{R_{2}(C_{2}L_{2}s^{2}+1)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1}, \infty, \infty, \infty, \frac{R_{L}(C_{L}L_{L}s^{2}+1)'}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}\right) \dots 1 - \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1} + R_{1}, R_{2}, \infty, \infty, \infty, \frac{1}{C_{L}s}\right) \dots \dots$	11
10.67 INVALID-ORDER-671 $\boldsymbol{Z}(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, R_2, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$	114
10.672NVALID-ORDER- $672 Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1}+R_1,\ R_2,\ \infty,\ \infty,\ \infty,\ \frac{R_L}{C_1R_1s+1}\right)$	11
10.67\$NVALID-ORDER-673 $Z(s) =$	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1} + R_{1}, R_{2}, \infty, \infty, \infty, R_{L} + \frac{1}{C_{L}s}\right) \dots \dots$	114
	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$	
10.67 6 NVALID-ORDER-676 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$	114
10.67 INVALID-ORDER-677 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \ R_2, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \ \dots \ $	114
10.67&NVALID-ORDER-678 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$	114
	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1},\ R_{2},\ \infty,\ \infty,\ \frac{R_{L}\left(C_{L}L_{L}s^{2}+1\right)^{'}}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}\right)$	
	$\left(\frac{L_1s}{C_1L_1s^2+1}+R_1, \frac{1}{C_2s}, \infty, \infty, \infty, \infty, R_L\right) \qquad \qquad$	
10.68INVALID-ORDER-681 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1}+R_1, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls}\right) \dots \dots$	11
10.682NVALID-ORDER-682 $Z(s) =$	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1},\frac{1}{C_{2}s},\infty,\infty,\infty,\infty,\frac{R_{L}}{C_{L}R_{L}s+1}\right)$	11
10.68 & NVALID-ORDER-683 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$	11
10.684NVALID-ORDER-684 $Z(s) = \displaystyle$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$	11
10.68 NVALID-ORDER-685 $Z(s) =$	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1},\frac{1}{C_{2}s},\infty,\infty,\infty,\frac{L_{L}s}{C_{L}L_{L}s^{2}+1}\right) \qquad \qquad$	11

10.686NVALID-ORDER-686 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.68 \text{INVALID-ORDER-} 687 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $
10.68\(\text{ENVALID-ORDER-688} \(Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \inft
$10.68 \mathfrak{P} \text{NVALID-ORDER-} 689 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
10.69@NVALID-ORDER-690 $Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1} + R_{1}, \frac{R_{2}}{C_{2}R_{2}s+1}, \infty, \infty, \infty, \infty, R_{L}\right)$
10.69INVALID-ORDER-691 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$
$10.692\text{NVALID-ORDER-}692\ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1,\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \infty,\ \frac{R_L}{C_LR_Ls+1}\right) \qquad . \qquad $
10.69 INVALID-ORDER-693 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$
10.694NVALID-ORDER-694 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$
10.69 INVALID-ORDER-695 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$
$10.69 \text{ (INVALID-ORDER-696 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.69 \text{TNVALID-ORDER-} 697 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \ \dots $
10.69\(\text{NVALID-ORDER-698} \(Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \inf
$10.69 \text{ (NVALID-ORDER-699 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right) $
10.70@NVALID-ORDER-700 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$
10.70INVALID-ORDER-701 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$
$10.702 \text{NVALID-ORDER-} 702 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right) \ \dots $
10.70 INVALID-ORDER-703 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$
10.70 INVALID-ORDER-704 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$
$10.70 \text{INVALID-ORDER-705 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)$
10.706NVALID-ORDER-706 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$
$10.70 \text{INVALID-ORDER-} 707 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $
10.70\(\text{NVALID-ORDER-708} \(Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right) \qquad
$10.70 \mathfrak{D} \text{NVALID-ORDER-709} \ Z(s) = \left(\frac{L_{1s}}{C_{1}L_{1}s^{2}+1} + R_{1}, \ R_{2} + \frac{1}{C_{2}s}, \ \infty, \ \infty, \ \infty, \ \frac{R_{L}\left(C_{L}L_{L}s^{2}+1\right)}{C_{L}L_{L}s^{2}+C_{L}R_{L}s+1}\right) $ $10.71 \mathfrak{D} \text{NVALID-ORDER-710} \ Z(s) = \left(\frac{L_{1s}}{C_{1}L_{1}s^{2}+1} + R_{1}, \ L_{2}s + \frac{1}{C_{2}s}, \ \infty, \ \infty, \ \infty, \ R_{L}\right) $ $11.71 \mathfrak{D} \text{NVALID-ORDER-710} \ Z(s) = \left(\frac{L_{1s}}{C_{1}L_{1}s^{2}+1} + R_{1}, \ L_{2}s + \frac{1}{C_{2}s}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_{L}\right) $
10.71 0 NVALID-ORDER-710 $Z(s) = \left(\frac{L_{1s}}{C_1L_{1s}^2+1} + R_1, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$
10.71INVALID-ORDER-711 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)$
10.71\(\frac{1}{2}\)NVALID-ORDER-712\(Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right) \tag{1.}
10.71\(\mathbb{E}\)NVALID-ORDER-713\(Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \infty, \inft
10.71 INVALID-ORDER-714 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$
10.71 INVALID-ORDER-715 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)$
10.716NVALID-ORDER-716 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$
$10.71 \text{INVALID-ORDER-717 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right) \dots $
10.71\Leftilde{NVALID-ORDER-718} $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$
10.719NVALID-ORDER-719 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$
10.720NVALID-ORDER-720 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$
10.72INVALID-ORDER-721 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)$
10.722NVALID-ORDER-722 $Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1} + R_{1}, L_{2}s + R_{2} + \frac{1}{C_{2}s}, \infty, \infty, \infty, \infty, \frac{R_{L}}{C_{L}R_{L}s+1}\right)$
10.72\(\text{EnVALID-ORDER-723} \(Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1} + R_{1}, \ L_{2}s + R_{2} + \frac{1}{C_{2}s}, \ \infty, \i
10.72 INVALID-ORDER-724 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$

10.72 5 NVALID-ORDER-725 $Z(s) =$	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1},\ L_{2}s+R_{2}+\frac{1}{C_{2}s},\ \infty,\ \infty,\ \infty,\ \frac{L_{L}s}{C_{L}L_{L}s^{2}+1}\right)\ \dots$	119
10.726NVALID-ORDER-726 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right)$	119
10.72TNVALID-ORDER-727 $Z(s) = 10.72$ TNVALID-ORDER-727 $Z(s) = 10.72$ TNVALID-727	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1} + R_{1}, L_{2}s + R_{2} + \frac{1}{C_{2}s}, \infty, \infty, \infty, \infty, \frac{L_{L}R_{L}s}{C_{L}L_{L}R_{L}s^{2}+L_{L}s + R_{L}}\right) \dots \dots$	119
	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1},\ L_{2}s+R_{2}+\frac{1}{C_{2}s},\ \infty,\ \infty,\ \infty,\ \frac{L_{L}s}{C_{L}L_{L}s^{2}+1}+R_{L}\right)$	119
10.72 9 NVALID-ORDER-729 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$	120
10.73 0 NVALID-ORDER-730 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L\right)$	120
10.73 I NVALID-ORDER-731 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$	120
	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$	120
	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1},\ \frac{L_{2}s}{C_{2}L_{2}s^{2}+1}+R_{2},\ \infty,\ \infty,\ \infty,\ R_{L}+\frac{1}{C_{L}s}\right)$	120
	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$	120
	$\begin{pmatrix} C_1L_1s^2+1 & \cdots & C_2L_2s^2+1 & \cdots & \cdots & C_LL_Ls^2+1 \end{pmatrix}$	120
	$\left(\frac{L_1s}{C_1L_1s^2+1}+R_1, \frac{L_2s}{C_2L_2s^2+1}+R_2, \infty, \infty, \infty, L_Ls+R_L+\frac{1}{C_Ls}\right)$	120
	$\left(\frac{L_1s}{C_1L_1s^2+1}+R_1, \frac{L_2s}{C_2L_2s^2+1}+R_2, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \dots \dots$	120
	$\left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1},\ \frac{L_{2}s}{C_{2}L_{2}s^{2}+1}+R_{2},\ \infty,\ \infty,\ \infty,\ \frac{L_{L}s}{C_{L}L_{L}s^{2}+1}+R_{L}\right)$	120
10.739NVALID-ORDER-739 $Z(s) =$		121
10.74 0 NVALID-ORDER-740 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, R_L\right) \dots \dots$	121
10.74INVALID-ORDER-741 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{1}{C_Ls}\right) \dots \dots$	121
10.742NVALID-ORDER-742 $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right) \dots \dots$	121
10.74\bar{B}\text{NVALID-ORDER-743} $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right) \dots \dots$	121
10.74\(\text{INVALID-ORDER-744} \) $Z(s) =$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right) \dots \dots$	121
10.74 δ NVALID-ORDER-745 $Z(s)=$	$\left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right) \dots \dots$	121
10.746NVALID-ORDER-746 $Z(s) =$	$\begin{pmatrix} C_1 L_1 s + 1 & \cdots & C_2 L_2 s & + C_2 L_2 s + 1 & \cdots & \cdots & - & \cdots & - & \cdots \\ & & & & & & & & & & & & & & & & &$	121
10.74 INVALID-ORDER-747 $Z(s) =$	$\left(\begin{array}{cccccccccccccccccccccccccccccccccccc$	123
10.74\bar{8}\text{NVALID-ORDER-748} $Z(s) =$	$\left(\begin{smallmatrix}C_1L_1s&+1\end{smallmatrix}\right)$	
10.74 9 NVALID-ORDER-749 $Z(s) =$	$\begin{pmatrix} C_1 L_1 s + 1 \end{pmatrix} + C_2 L_2 s + C_2 L_2 s + 1 \end{pmatrix}$	122
10.75 0 NVALID-ORDER-750 $Z(s) =$	$\left(C_{1}D_{1}s+C_{1}R_{1}s+1\right)$	122
10.75INVALID-ORDER-751 $Z(s) =$	$\left(C_1L_1s+C_1L_1s+1\right)$	122
10.75 2 NVALID-ORDER-752 $Z(s) =$	$\left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ R_2,\ \infty,\ \infty,\ \infty,\ R_L+\frac{1}{C_Ls}\right)$	122
10.75 B NVALID-ORDER-753 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right) \dots $	122
10.754NVALID-ORDER-754 $Z(s) =$	$\left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ R_2,\ \infty,\ \infty,\ \infty,\ \frac{L_Ls}{C_LL_Ls^2+1}\right) \ \dots $	122
10.75 NVALID-ORDER-755 $Z(s) =$	$\left(C_{1}^{2}\right)^{3}$	122
10.75 NVALID-ORDER-756 $Z(s) =$	$\begin{pmatrix} C_1 B_1 s + C_1 R_1 s + 1 \end{pmatrix}$	122
10.75 INVALID-ORDER-757 $Z(s) =$		123
10.75 NVALID-ORDER-758 $Z(s) =$	$\left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},\ R_2,\ \infty,\ \infty,\ \infty,\ \frac{R_L(C_LL_Ls^2+1)'}{C_LL_Ls^2+C_LR_Ls+1}\right)\ \dots \dots$	123

10.75 9 NVALID-ORDER-759 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, R_L\right)$. 123
10.76 0 NVALID-ORDER-760 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$. 123
$10.76 \text{INVALID-ORDER-} 761 \ Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) \ \dots $. 123
$10.762\text{NVALID-ORDER-}762\ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \frac{1}{C_2s},\ \infty,\ \infty,\ \infty,\ R_L + \frac{1}{C_Ls}\right)$. 123
$10.76 \text{ENVALID-ORDER-} 763 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right) \ \dots $. 123
$10.76 \text{INVALID-ORDER-} 764 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \dots $. 123
$C_1L_1s^2+C_1L_1s+1$ C_2s^2	. 123
$10.76 \text{ INVALID-ORDER-766 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \dots $. 124
$10.76 \text{INVALID-ORDER-} 767 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$. 124
$10.76 \text{\&NVALID-ORDER-768 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}\right) \dots $. 124
$10.76 \mathfrak{P} \text{NVALID-ORDER-769} \ 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}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ R_L\right) \ \dots $. 124
$10.770 \text{NVALID-ORDER-} 770 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_Ls}\right) \dots $. 124
$10.77 \text{INVALID-ORDER-771 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) $. 124
$10.772\text{NVALID-ORDER-}772\ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \frac{R_2}{C_2R_2s+1},\ \infty,\ \infty,\ \infty,\ R_L + \frac{1}{C_Ls}\right)$. 124
$10.772\text{NVALID-ORDER-773} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right) \dots $. 124
$10.774\text{NVALID-ORDER-}774 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \dots $. 124
$10.775\text{NVALID-ORDER-}775 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right) $. 125
$\left(\begin{smallmatrix} C_1L_1s & +C_1R_1s+1 \end{smallmatrix}, \begin{smallmatrix} C_2R_2s+1 \end{smallmatrix}, \begin{smallmatrix} C_2R_2s+1 \end{smallmatrix}, \begin{smallmatrix} C_2L_2R_2s & +L_2s+R_2 \end{smallmatrix}\right)$. 125
$10.77\text{INVALID-ORDER-777} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{R_2}{C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right) \dots \dots$. 125
$10.77 \text{\&NVALID-ORDER-778 } 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}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right) \ \dots $	
10.779NVALID-ORDER-779 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$	
10.780NVALID-ORDER-780 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_Ls}\right)$	
10.78INVALID-ORDER-781 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right)$	
$10.782\text{NVALID-ORDER-}782\ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ R_2 + \frac{1}{C_2s},\ \infty,\ \infty,\ \infty,\ R_L + \frac{1}{C_Ls}\right) \qquad \dots$	
10.78\(\text{SNVALID-ORDER-783} \(Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \) \(R_2 + \frac{1}{C_2 s}, \infty, \infty	
10.78 INVALID-ORDER-784 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right)$	
10.78 INVALID-ORDER-785 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right)$	
$10.786 \text{NVALID-ORDER-} 786 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \qquad . $	
$10.78 \text{TNVALID-ORDER-} 787 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	
10.78\(\text{NVALID-ORDER-788} \(Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \) \(R_2 + \frac{1}{C_2 s}, \infty,	
10.789NVALID-ORDER-789 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$. 126

10.79 0 NVALID-ORDER-790 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_Ls}\right)$. 126
10.79INVALID-ORDER-791 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$. 126
10.792NVALID-ORDER-792 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$. 126
10.79\(\mathbb{E}\)NVALID-ORDER-793 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right)$. 127
$10.79 \text{INVALID-ORDER-794} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \ \dots $. 127
$10.79 \text{INVALID-ORDER-795} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ L_Ls+R_L+\frac{1}{C_Ls}\right) \ \dots $. 127
$10.79 \text{ (INVALID-ORDER-796 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $. 127
$10.79 \text{INVALID-ORDER-797} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}+R_L\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $. 127
$10.79 \&NVALID-ORDER-798 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}\right) \ \dots $. 127
10.799NVALID-ORDER-799 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+R_2+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$. 127
10.80 QNVALID-ORDER-800 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_Ls}\right)$. 127
$10.80 \text{INVALID-ORDER-801} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) $. 127
$10.802\text{NVALID-ORDER-802}\ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ L_2s+R_2+\frac{1}{C_2s},\ \infty,\ \infty,\ \infty,\ R_L+\frac{1}{C_Ls}\right) \ .$. 128
10.80 28NVALID-ORDER-803 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right)$. 128
$10.80 \text{4NVALID-ORDER-804} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+R_2+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \ \dots $. 128
10.80 INVALID-ORDER-805 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ L_Ls + R_L + \frac{1}{C_Ls}\right)$. 128
$10.80 \text{ INVALID-ORDER-806 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+R_2+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \ \dots $. 128
$10.80 \text{INVALID-ORDER-807} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+R_2+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}+R_L\right) $. 128
$10.80 \&NVALID-ORDER-808 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+R_2+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	
$10.80 \text{ @NVALID-ORDER-809 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ R_L\right) \ \dots $. 128
$10.81 \text{ @NVALID-ORDER-810 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_Ls}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $. 128
$10.81 \text{INVALID-ORDER-811 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_LR_Ls+1}\right) $	
$10.812\text{NVALID-ORDER-812}\ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1},\ \frac{L_2s}{C_2L_2s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ R_L + \frac{1}{C_Ls}\right)$. 129
$10.81 \text{ 2NVALID-ORDER-813 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right) \ \dots $	
$10.81 \text{ 1} \text{ INVALID-ORDER-814 } Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1}\right) \dots $	
10.815NVALID-ORDER-815 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$	
$10.816 \text{NVALID-ORDER-816} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right) \dots $	
$10.81 \text{INVALID-ORDER-817} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)\right) \left(\frac{L_2s}{C_LL_Ls^2+1} + R_L\right)$	
$10.81 \&NVALID-ORDER-818 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ \frac{R_L\left(C_LL_Ls^2+1\right)'}{C_LL_Ls^2+C_LR_Ls+1}\right) \ \dots $. 129
$10.81 \mathfrak{P} \text{NVALID-ORDER-819} \ 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}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ R_L \right) $	
$10.820 \text{NVALID-ORDER-820} \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_Ls}\right) \ \dots $. 130

INVALID-ORDER-821 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$
$2NVALID-ORDER-822 \ Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_Ls}\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
3 NVALID-ORDER-823 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$
$4\text{NVALID-ORDER-824} \ 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}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} \right)' \ \dots \ $
INVALID-ORDER-825 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$
6 NVALID-ORDER-826 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$
TNVALID-ORDER-827 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$
8NVALID-ORDER-828 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)'}{C_LL_Ls^2+C_LR_Ls+1}\right)$
130

1 Examined H(z) for TIA simple Z1 Z2 ZL: $\frac{Z_1Z_L(Z_2g_m+1)}{Z_1Z_2g_m+Z_1+Z_2+Z_L}$

$$H(z) = \frac{Z_1 Z_L (Z_2 g_m + 1)}{Z_1 Z_2 g_m + Z_1 + Z_2 + Z_L}$$

2 HP

3 BP

3.1 BP-1
$$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

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

Parameters:

Q:
$$C_L \sqrt{\frac{1}{C_L L_L}} (R_1 R_2 g_m + R_1 + R_2)$$

wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{1}{C_L (R_1 R_2 g_m + R_1 + R_2)}$
K-LP: 0
K-HP: 0
K-BP: $R_1 (R_2 g_m + 1)$
Qz: 0
Wz: None

3.2 BP-2 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

Parameters:

$$\begin{aligned} &\text{Q:} \ \frac{C_L R_L \sqrt{\frac{1}{C_L L_L}} (R_1 R_2 g_m + R_1 + R_2)}{R_1 R_2 g_m + R_1 + R_2 + R_L} \\ &\text{wo:} \ \sqrt{\frac{1}{C_L L_L}} \\ &\text{bandwidth:} \ \frac{R_1 R_2 g_m + R_1 + R_2 + R_L}{C_L R_L (R_1 R_2 g_m + R_1 + R_2)} \\ &\text{K-LP:} \ 0 \\ &\text{K-HP:} \ 0 \\ &\text{K-BP:} \ \frac{R_1 R_L (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_L} \\ &\text{Qz:} \ 0 \\ &\text{Wz:} \ \text{None} \end{aligned}$$

3.3 BP-3 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{s(L_1 R_2 g_m + L_1)}{C_L R_2 s + s^2 (C_L L_1 R_2 g_m + C_L L_1) + 1}$$

$$\begin{array}{c} \text{Q:} \ \frac{L_1\sqrt{\frac{1}{C_LL_1(R_2g_m+1)}}(R_2g_m+1)}{R_2}\\ \text{wo:} \ \sqrt{\frac{1}{C_LL_1(R_2g_m+1)}}\\ \text{bandwidth:} \ \frac{R_2}{L_1(R_2g_m+1)}\\ \text{K-LP:} \ 0\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{L_1(R_2g_m+1)}{C_LR_2}\\ \text{Qz:} \ 0 \end{array}$$

Wz: None

3.4 BP-4
$$Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_L L_1 R_L \sqrt{\frac{R_2 + R_L}{C_L L_1 R_L (R_2 g_m + 1)}} (R_2 g_m + 1)}{C_L R_2 R_L + L_1 R_2 g_m + L_1} \\ \text{wo:} \ \sqrt{\frac{R_2 + R_L}{C_L L_1 R_L (R_2 g_m + 1)}} \\ \text{bandwidth:} \ \frac{C_L R_2 R_L + L_1 R_2 g_m + L_1}{C_L L_1 R_L (R_2 g_m + 1)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{L_1 R_L (R_2 g_m + 1)}{C_L R_2 R_L + L_1 R_2 g_m + L_1} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.5 BP-5 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, R_L\right)$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1 \sqrt{\frac{1}{C_1 L_1}} (R_2 + R_L)}{R_2 g_m + 1} \\ \text{wo:} \ \sqrt{\frac{1}{C_1 L_1}} \\ \text{bandwidth:} \ \frac{R_2 g_m + 1}{C_1 (R_2 + R_L)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ R_L \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

3.6 BP-6
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, R_L\right)$$

Parameters:

Q:
$$\frac{C_1R_1\sqrt{\frac{1}{C_1L_1}}(R_2+R_L)}{R_1R_2g_m+R_1+R_2+R_L}$$

wo: $\sqrt{\frac{1}{C_1L_1}}$
bandwidth: $\frac{R_1R_2g_m+R_1+R_2+R_L}{C_1R_1(R_2+R_L)}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1R_L(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_L}$
Qz: 0
Wz: None

4 LP

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

$$H(s) = \frac{s \left(L_1 R_2 R_L g_m + L_1 R_L \right)}{R_2 + R_L + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_L \right) + s \left(L_1 R_2 g_m + L_1 \right)}$$

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

4.1 LP-1 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L}{C_1 C_L R_2 R_L s^2 + R_2 g_m + s \left(C_1 R_2 + C_1 R_L + C_L R_2 R_L g_m + C_L R_L\right) + 1}$

Parameters:

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

4.2 LP-2 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1}{C_1 C_L R_1 R_2 s^2 + s \left(C_1 R_1 + C_L R_1 R_2 g_m + C_L R_1 + C_L R_2\right) + 1}$

Parameters:

Q: $\frac{C_1C_LR_1R_2\sqrt{\frac{1}{C_1C_LR_1R_2}}}{C_1R_1+C_LR_1R_2g_m+C_LR_1+C_LR_2}$ wo: $\sqrt{\frac{1}{C_1C_LR_1R_2}}$ bandwidth: $\frac{C_1R_1+C_LR_1R_2g_m+C_LR_1+C_LR_2}{C_1C_LR_1R_2}$ K-LP: $R_1\left(R_2g_m+1\right)$ K-HP: 0 K-BP: 0 Qz: None Wz: None

4.3 LP-3 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

5 BS

5.1 BS-1
$$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

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

Parameters:

Q:
$$\frac{L_L \sqrt{\frac{1}{C_L L_L}}}{R_1 R_2 g_m + R_1 + R_2}$$
 wo: $\sqrt{\frac{1}{C_L L_L}}$ bandwidth: $\frac{R_1 R_2 g_m + R_1 + R_2}{L_L}$ K-LP: $R_1 \left(R_2 g_m + 1 \right)$ K-HP: $R_1 \left(R_2 g_m + 1 \right)$ K-BP: 0 Qz: None Wz: $\sqrt{\frac{1}{C_L L_L}}$

5.2 BS-2
$$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

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

Parameters:

$$Q \colon \frac{L_L \sqrt{\frac{1}{C_L L_L}} (R_1 R_2 g_m + R_1 + R_2 + R_L)}{R_L (R_1 R_2 g_m + R_1 + R_2)}$$
 wo: $\sqrt{\frac{1}{C_L L_L}}$ bandwidth: $\frac{R_L (R_1 R_2 g_m + R_1 + R_2)}{L_L (R_1 R_2 g_m + R_1 + R_2 + R_L)}$ K-LP: $\frac{R_1 R_L (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_L}$ K-HP: $\frac{R_1 R_L (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_L}$ K-BP: 0 Qz: None Wz: $\sqrt{\frac{1}{C_L L_L}}$

5.3 BS-3
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^2 \left(C_1 L_1 R_2 R_L g_m + C_1 L_1 R_L \right)}{R_2 g_m + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_1 R_2 + C_1 R_L \right) + 1}$$

Parameters:

Q:
$$\frac{L_1\sqrt{\frac{1}{C_1L_1}}(R_2g_m+1)}{R_2+R_L}$$

wo: $\sqrt{\frac{1}{C_1L_1}}$
bandwidth: $\frac{R_2+R_L}{L_1(R_2g_m+1)}$
K-LP: R_L
K-HP: R_L
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_1L_1}}$

5.4 BS-4
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \infty, R_L\right)$$

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

$$\begin{aligned} & \text{Q:} \ \frac{L_1\sqrt{\frac{1}{C_1L_1}}(R_1R_2g_m + R_1 + R_2 + R_L)}{R_1(R_2 + R_L)} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ & \text{bandwidth:} \ \frac{R_1(R_2 + R_L)}{L_1(R_1R_2g_m + R_1 + R_2 + R_L)} \\ & \text{K-LP:} \ \frac{R_1R_L(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_L} \\ & \text{K-HP:} \ \frac{R_1R_L(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_L} \\ & \text{K-BP:} \ 0 \\ & \text{Qz:} \ \text{None} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{aligned}$$

6 GE

6.1 GE-1
$$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

Parameters:

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

6.2 GE-2
$$Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

Parameters:

Q:
$$C_L \sqrt{\frac{1}{C_L L_L}} \left(R_1 R_2 g_m + R_1 + R_2 + R_L \right)$$

wo: $\sqrt{\frac{1}{C_L L_L}}$
bandwidth: $\frac{1}{C_L (R_1 R_2 g_m + R_1 + R_2 + R_L)}$
K-LP: $\frac{R_1 R_L (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_L}$
K-HP: $\frac{R_1 R_L (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_L}$
K-BP: $R_1 \left(R_2 g_m + 1 \right)$
Qz: $C_L R_L \sqrt{\frac{1}{C_L L_L}}$
Wz: $\sqrt{\frac{1}{C_L L_L}}$

6.3 GE-3
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$$

Q:
$$\frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_1g_m+1)}{R_1+R_L}$$

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

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

$$H(s) = \frac{C_2 L_2 R_1 R_L g_m s^2 + C_2 R_1 R_L s + R_1 R_L g_m}{R_1 g_m + s^2 \left(C_2 L_2 R_1 g_m + C_2 L_2 \right) + s \left(C_2 R_1 + C_2 R_L \right) + 1}$$

wo:
$$\sqrt{\frac{1}{C_2L_2}}$$
 bandwidth: $\frac{R_1+R_L}{L_2(R_1g_m+1)}$ K-LP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ K-HP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ K-BP: $\frac{R_1R_L}{R_1+R_L}$ Qz: $L_2g_m\sqrt{\frac{1}{C_2L_2}}$ Wz: $\sqrt{\frac{1}{C_2L_2}}$

6.4 GE-4
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_2 L_2 R_1 R_L g_m s^2 + R_1 R_L g_m + s \left(C_2 R_1 R_2 R_L g_m + C_2 R_1 R_L\right)}{R_1 g_m + s^2 \left(C_2 L_2 R_1 g_m + C_2 L_2\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_L\right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_1g_m+1)}{R_1R_2g_m+R_1+R_2+R_L} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2L_2}} \\ & \text{bandwidth:} \ \frac{R_1R_2g_m+R_1+R_2+R_L}{L_2(R_1g_m+1)} \\ & \text{K-LP:} \ \frac{R_1R_Lg_m}{R_1g_m+1} \\ & \text{K-HP:} \ \frac{R_1R_Lg_m}{R_1g_m+1} \\ & \text{K-BP:} \ \frac{R_1R_Lg_m}{R_1R_2g_m+R_1+R_2+R_L} \\ & \text{Qz:} \ \frac{L_2g_m\sqrt{\frac{1}{C_2L_2}}}{R_2g_m+1} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_2L_2}} \end{aligned}$$

6.5 GE-5
$$Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)$$

$$H(s) = \frac{L_2R_1R_Lg_ms + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_L\right) + s\left(L_2R_1g_m + L_2\right)}$$

Parameters:

$$Q: \frac{C_2\sqrt{\frac{1}{C_2L_2}}(R_1R_2g_m + R_1 + R_2 + R_L)}{R_1g_m + 1}$$
wo: $\sqrt{\frac{1}{C_2L_2}}$
bandwidth: $\frac{R_1g_m + 1}{C_2(R_1R_2g_m + R_1 + R_2 + R_L)}$
K-LP: $\frac{R_1R_L(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_L}$
K-HP: $\frac{R_1R_L(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_L}$
K-BP: $\frac{R_1R_Lg_m}{R_1g_m + 1}$
Qz: $\frac{C_2\sqrt{\frac{1}{C_2L_2}}(R_2g_m + 1)}{g_m}$
Wz: $\sqrt{\frac{1}{C_2L_2}}$

6.6 GE-6
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_L\right) + s\left(C_2R_1R_2 + C_2R_2R_L\right)}$$

Q:
$$\frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_1R_2g_m+R_1+R_2+R_L)}{R_2(R_1+R_L)}$$
 wo:
$$\sqrt{\frac{1}{C_2L_2}}$$
 bandwidth:
$$\frac{R_2(R_1+R_L)}{L_2(R_1R_2g_m+R_1+R_2+R_L)}$$

$$\begin{aligned} & \text{K-LP: } \frac{R_1 R_L (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_L} \\ & \text{K-HP: } \frac{R_1 R_L (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_L} \\ & \text{K-BP: } \frac{R_1 R_L}{R_1 + R_L} \\ & \text{Qz: } \frac{L_2 \sqrt{\frac{1}{C_2 L_2}} (R_2 g_m + 1)}{R_2} \\ & \text{Wz: } \sqrt{\frac{1}{C_2 L_2}} \end{aligned}$$

6.7 GE-7
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^2 \left(C_1 L_1 R_2 R_L g_m + C_1 L_1 R_L \right) + s \left(C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L \right)}{R_2 g_m + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_L \right) + 1}$$

Parameters:

$$\begin{aligned} &\text{Q: } \frac{L_1\sqrt{\frac{1}{C_1L_1}}(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_L} \\ &\text{wo: } \sqrt{\frac{1}{C_1L_1}} \\ &\text{bandwidth: } \frac{R_1R_2g_m+R_1+R_2+R_L}{L_1(R_2g_m+1)} \\ &\text{K-LP: } R_L \\ &\text{K-HP: } R_L \\ &\text{K-BP: } \frac{R_1R_L(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_L} \\ &\text{Qz: } \frac{L_1\sqrt{\frac{1}{C_1L_1}}}{R_1} \\ &\text{Wz: } \sqrt{\frac{1}{C_1L_1}} \end{aligned}$$

6.8 GE-8
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, R_L\right)$$

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

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1\sqrt{\frac{1}{C_1L_1}}(R_1R_2g_m + R_1 + R_2 + R_L)}{R_2g_m + 1} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ & \text{bandwidth:} \ \frac{R_2g_m + 1}{C_1(R_1R_2g_m + R_1 + R_2 + R_L)} \\ & \text{K-LP:} \ \frac{R_1R_L(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_L} \\ & \text{K-HP:} \ \frac{R_1R_L(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_L} \\ & \text{K-BP:} \ R_L \\ & \text{Qz:} \ C_1R_1\sqrt{\frac{1}{C_1L_1}} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{aligned}$$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2 R_1 R_L s + R_1 R_L g_m}{C_2 C_L R_1 R_L s^2 + R_1 g_m + s \left(C_2 R_1 + C_2 R_L + C_L R_1 R_L g_m + C_L R_L\right) + 1}$$

Q:
$$\frac{C_2C_LR_1R_L\sqrt{\frac{R_1g_m+1}{C_2C_LR_1R_L}}}{C_2R_1+C_2R_L+C_LR_1R_Lg_m+C_LR_L}$$

K-LP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ K-HP: 0

K-BP: $\frac{C_2R_1R_L}{C_2R_1+C_2R_L+C_LR_1R_Lg_m+C_LR_L}$

Qz: 0 Wz: None

8.2 INVALID-NUMER-2 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 R_1 R_2 s + R_1 R_2 g_m + R_1}{C_2 C_L R_1 R_2 s^2 + s \left(C_2 R_2 + C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 \right) + 1}$$

Parameters:

Q: $\frac{C_2C_LR_1R_2\sqrt{\frac{1}{C_2C_LR_1R_2}}}{C_2R_2+C_LR_1R_2g_m+C_LR_1+C_LR_2}$

wo: $\sqrt{\frac{1}{C_2C_LR_1R_2}}$ bandwidth: $\frac{C_2R_2+C_LR_1R_2g_m+C_LR_1+C_LR_2}{C_2C_LR_1R_2}$ K-LP: $R_1\left(R_2g_m+1\right)$

K-HP: 0

K-BP: $\frac{C_2R_1R_2}{C_2R_2+C_LR_1R_2g_m+C_LR_1+C_LR_2}$

Qz: 0 Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$

$$H(s) = \frac{C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L}{C_2C_LR_1R_2R_Ls^2 + R_1R_2g_m + R_1 + R_2 + R_L + s\left(C_2R_1R_2 + C_2R_2R_L + C_LR_1R_2R_Lg_m + C_LR_1R_L + C_LR_2R_L\right)}$$

Parameters:

 $\text{Q: } \frac{C_2C_LR_1R_2R_L\sqrt{\frac{R_1R_2g_m+R_1+R_2+R_L}{C_2C_LR_1R_2R_L}}}{C_2R_1R_2+C_2R_2R_L+C_LR_1R_2R_Lg_m+C_LR_1R_L+C_LR_2R_L}$ wo: $\sqrt{\frac{R_1R_2g_m + R_1 + R_2 + R_L}{C_2C_LR_1R_2R_L}}$ bandwidth: $\frac{C_2R_1R_2 + C_LR_1R_2R_L}{C_2C_LR_1R_2R_L}$ K-LP: $\frac{R_1R_L(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_L}$ K-HP: 0

Wz: None

K-BP: $\frac{C_2R_1R_2R_L}{C_2R_1R_2+C_2R_2R_L+C_LR_1R_2R_Lg_m+C_LR_1R_L+C_LR_2R_L}$ Qz: 0

8.4 INVALID-NUMER-4 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

 $\mathbf{Q} \colon \frac{C_2 C_L R_L \sqrt{\frac{R_1 g_m + 1}{C_2 C_L R_L (R_1 R_2 g_m + R_1 + R_2)}} (R_1 R_2 g_m + R_1 + R_2)}{C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_L + C_L R_1 R_L g_m + C_L R_L}$ $\begin{array}{l} \text{Wo: } C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_L \\ \text{Wo: } \sqrt{\frac{R_1g_m + 1}{C_2C_LR_L(R_1R_2g_m + R_1 + R_2)}} \\ \text{bandwidth: } \frac{C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_L + C_LR_1R_Lg_m + C_LR_L}{C_2C_LR_L(R_1R_2g_m + R_1 + R_2)} \end{array}$ K-LP: $\frac{R_1R_Lg_m}{R_1g_m+1}$ K-HP: 0

K-III : 0 K-BP: $\frac{C_2R_1R_L(R_2g_m+1)}{C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_L+C_LR_1R_Lg_m+C_LR_L}$

Qz: 0 Wz: None

8.5 INVALID-NUMER-5 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{s^2 \left(C_L L_1 R_2 R_L g_m + C_L L_1 R_L \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^2 \left(C_L L_1 R_2 g_m + C_L L_1 \right) + s \left(C_L R_2 + C_L R_L \right) + 1}$

Parameters:

$$\begin{array}{l} \mathbf{Q} \colon \frac{L_1 \sqrt{\frac{1}{C_L L_1(R_2 g_m + 1)}}(R_2 g_m + 1)}{R_2 + R_L} \\ \mathbf{wo} \colon \sqrt{\frac{1}{C_L L_1(R_2 g_m + 1)}} \\ \mathbf{bandwidth} \colon \frac{R_2 + R_L}{L_1(R_2 g_m + 1)} \\ \mathbf{K} \text{-LP: 0} \\ \mathbf{K} \text{-HP: } R_L \\ \mathbf{K} \text{-BP: } \frac{L_1(R_2 g_m + 1)}{C_L(R_2 + R_L)} \\ \mathbf{Qz: } C_L R_L \sqrt{\frac{1}{C_L L_1(R_2 g_m + 1)}} \\ \mathbf{Wz: None} \end{array}$$

8.6 INVALID-NUMER-6 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

 $H(s) = \frac{C_2 L_1 R_L s^2 + L_1 R_L g_m s}{C_2 L_1 s^2 + s \left(C_2 R_L + L_1 g_m \right) + 1}$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_2L_1\sqrt{\frac{1}{C_2L_1}}}{C_2R_L + L_1g_m} \\ \text{wo:} \ \sqrt{\frac{1}{C_2L_1}} \\ \text{bandwidth:} \ \frac{C_2R_L + L_1g_m}{C_2L_1} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ R_L \\ \text{K-BP:} \ \frac{L_1R_Lg_m}{C_2R_L + L_1g_m} \\ \text{Qz:} \ \frac{C_2\sqrt{\frac{1}{C_2L_1}}}{g_m} \\ \text{Wz:} \ \text{None} \end{array}$$

8.7 INVALID-NUMER-7 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_2 L_1 s + L_1 g_m}{C_2 C_L L_1 s^2 + C_2 + C_L L_1 g_m s + C_L}$

Parameters:

$$\begin{aligned} \text{Q:} & \frac{C_2\sqrt{\frac{C_2+C_L}{C_2C_LL_1}}}{g_m} \\ \text{wo:} & \sqrt{\frac{C_2+C_L}{C_2C_LL_1}} \\ \text{bandwidth:} & \frac{g_m}{C_2} \\ \text{K-LP:} & \frac{L_1g_m}{C_2+C_L} \\ \text{K-HP:} & 0 \\ \text{K-BP:} & \frac{C_2}{C_Lg_m} \\ \text{Qz:} & 0 \\ \end{aligned}$$

8.8 INVALID-NUMER-8 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)$

 $H(s) = \frac{C_2 L_1 R_2 R_L s^2 + s \left(L_1 R_2 R_L g_m + L_1 R_L\right)}{C_2 L_1 R_2 s^2 + R_2 + R_L + s \left(C_2 R_2 R_L + L_1 R_2 g_m + L_1\right)}$

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\begin{aligned} &\text{Q: } \frac{C_2L_1R_2\sqrt{\frac{R_2+R_L}{C_2L_1R_2}}}{C_2R_2R_L+L_1R_2g_m+L_1} \\ &\text{wo: } \sqrt{\frac{R_2+R_L}{C_2L_1R_2}} \\ &\text{bandwidth: } \frac{C_2R_2R_L+L_1R_2g_m+L_1}{C_2L_1R_2} \\ &\text{K-LP: 0} \\ &\text{K-HP: } R_L \\ &\text{K-BP: } \frac{L_1R_L(R_2g_m+1)}{C_2R_2R_L+L_1R_2g_m+L_1} \\ &\text{Qz: } \frac{C_2R_2\sqrt{\frac{R_2+R_L}{C_2L_1R_2}}}{R_2g_m+1} \\ &\text{Wz: None} \end{aligned}
```

8.9 INVALID-NUMER-9 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{L_1 R_L g_m s + s^2 \left(C_2 L_1 R_2 R_L g_m + C_2 L_1 R_L \right)}{s^2 \left(C_2 L_1 R_2 g_m + C_2 L_1 \right) + s \left(C_2 R_2 + C_2 R_L + L_1 g_m \right) + 1}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_2L_1\sqrt{\frac{1}{C_2L_1(R_2g_m+1)}}(R_2g_m+1)}{C_2R_2+C_2R_L+L_1g_m} \\ \text{wo:} \ \sqrt{\frac{1}{C_2L_1(R_2g_m+1)}} \\ \text{bandwidth:} \ \frac{C_2R_2+C_2R_L+L_1g_m}{C_2L_1(R_2g_m+1)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ R_L \\ \text{K-BP:} \ \frac{L_1R_Lg_m}{C_2R_2+C_2R_L+L_1g_m} \\ \text{Qz:} \ \frac{C_2\sqrt{\frac{1}{C_2L_1(R_2g_m+1)}}(R_2g_m+1)}}{g_m} \\ \text{Qz:} \ \frac{C_2\sqrt{\frac{1}{C_2L_1(R_2g_m+1)}}(R_2g_m+1)}}{g_m} \\ \text{Wz:} \ \text{None} \end{array}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{L_1 g_m + s \left(C_2 L_1 R_2 g_m + C_2 L_1 \right)}{C_2 + C_L + s^2 \left(C_2 C_L L_1 R_2 g_m + C_2 C_L L_1 \right) + s \left(C_2 C_L R_2 + C_L L_1 g_m \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_2L_1\sqrt{\frac{C_2+C_L}{C_2C_LL_1(R_2g_m+1)}}(R_2g_m+1)}{C_2R_2+L_1g_m}(R_2g_m+1)} \\ \text{wo:} \ \sqrt{\frac{C_2+C_L}{C_2C_LL_1(R_2g_m+1)}} \\ \text{bandwidth:} \ \frac{C_2R_2+L_1g_m}{C_2L_1(R_2g_m+1)} \\ \text{K-LP:} \ \frac{L_1g_m}{C_2+C_L} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2L_1(R_2g_m+1)}{C_L(C_2R_2+L_1g_m)} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.11 INVALID-NUMER-11 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 R_L s + R_L g_m}{C_1 C_2 R_L s^2 + g_m + s (C_1 + C_2)}$$

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

Qz: 0 Wz: None

8.12 INVALID-NUMER-12 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{R_L \sqrt{\frac{g_m}{R_L (C_1 C_2 + C_1 C_L + C_2 C_L)}} (C_1 C_2 + C_1 C_L + C_2 C_L)}{C_1 + C_2 + C_L R_L g_m} \\ \text{wo:} \ \sqrt{\frac{g_m}{R_L (C_1 C_2 + C_1 C_L + C_2 C_L)}} \\ \text{bandwidth:} \ \frac{C_1 + C_2 + C_L R_L g_m}{R_L (C_1 C_2 + C_1 C_L + C_2 C_L)} \\ \text{K-LP:} \ R_L \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2 R_L}{C_1 + C_2 + C_L R_L g_m} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.13 INVALID-NUMER-13 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 R_2 R_L s + R_2 R_L g_m + R_L}{C_1 C_2 R_2 R_L s^2 + R_2 g_m + s \left(C_1 R_2 + C_1 R_L + C_2 R_2\right) + 1}$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_2R_L\sqrt{\frac{R_2g_m+1}{C_1C_2R_2R_L}}}{C_1R_2+C_1R_L+C_2R_2} \\ \text{wo:} \ \sqrt{\frac{R_2g_m+1}{C_1C_2R_2R_L}} \\ \text{bandwidth:} \ \frac{C_1R_2+C_1R_L+C_2R_2}{C_1C_2R_2R_L} \\ \text{K-LP:} \ R_L \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_2R_L}{C_1R_2+C_1R_L+C_2R_2} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.14 INVALID-NUMER-14 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2 R_2 R_L s + R_2 R_L g_m + R_L}{R_2 g_m + s^2 \left(C_1 C_2 R_2 R_L + C_1 C_L R_2 R_L + C_2 C_L R_2 R_L\right) + s \left(C_1 R_2 + C_1 R_L + C_2 R_2 + C_L R_2 R_L g_m + C_L R_L\right) + 1}$$

$$\begin{array}{l} \text{Q:} \ \frac{R_2R_L\sqrt{\frac{R_2g_m+1}{R_2R_L(C_1C_2+C_1C_L+C_2C_L)}}}{C_1R_2+C_1C_L+C_2C_L)} (C_1C_2+C_1C_L+C_2C_L)} \\ \text{Wo:} \ \frac{R_2g_m+1}{R_2R_L(C_1C_2+C_1C_L+C_2C_L)} \\ \text{bandwidth:} \ \frac{R_2R_L(C_1C_2+C_1C_L+C_2C_L)}{R_2R_L(C_1C_2+C_1C_L+C_2C_L)} \\ \text{K-LP:} \ R_L \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_2R_L}{C_1R_2+C_1R_L+C_2R_2+C_LR_2R_Lg_m+C_LR_L} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.15 INVALID-NUMER-15 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{R_L g_m + s \left(C_2 R_2 R_L g_m + C_2 R_L \right)}{g_m + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_L \right) + s \left(C_1 + C_2 R_2 g_m + C_2 \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1 C_2 \sqrt{\frac{g_m}{C_1 C_2 (R_2 + R_L)}} (R_2 + R_L)}{C_1 + C_2 R_2 g_m + C_2} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_1 C_2 (R_2 + R_L)}} \\ & \text{bandwidth:} \ \frac{C_1 + C_2 R_2 g_m + C_2}{C_1 C_2 (R_2 + R_L)} \\ & \text{K-LP:} \ R_L \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ \frac{C_2 R_L (R_2 g_m + 1)}{C_1 + C_2 R_2 g_m + C_2} \\ & \text{Qz:} \ 0 \\ & \text{Wz:} \ \text{None} \end{aligned}$$

8.16 INVALID-NUMER-16 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_L \right)}{s^2 \left(C_1 C_L R_1 R_2 + C_1 C_L R_1 R_L \right) + s \left(C_1 R_1 + C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 + C_L R_L \right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1C_LR_1\sqrt{\frac{1}{C_1C_LR_1(R_2+R_L)}}(R_2+R_L)}{C_1R_1+C_LR_1R_2g_m+C_LR_1+C_LR_2+C_LR_L} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1C_LR_1(R_2+R_L)}} \\ & \text{bandwidth:} \ \frac{C_1R_1+C_LR_1R_2g_m+C_LR_1+C_LR_2+C_LR_L}{C_1C_LR_1(R_2+R_L)} \\ & \text{K-LP:} \ R_1\left(R_2g_m+1\right) \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ \frac{C_LR_1R_L(R_2g_m+1)}{C_1R_1+C_LR_1R_2g_m+C_LR_1+C_LR_2+C_LR_L} \\ & \text{Qz:} \ 0 \\ & \text{Wz:} \ \text{None} \end{aligned}$$

8.17 INVALID-NUMER-17 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 R_1 R_L s + R_1 R_L g_m}{C_1 C_2 R_1 R_L s^2 + R_1 g_m + s \left(C_1 R_1 + C_2 R_1 + C_2 R_L\right) + 1}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_1R_L\sqrt{\frac{R_1g_m+1}{C_1C_2R_1R_L}}}{C_1R_1+C_2R_1+C_2R_L} \\ \text{wo:} \ \sqrt{\frac{R_1g_m+1}{C_1C_2R_1R_L}} \\ \text{bandwidth:} \ \frac{C_1R_1+C_2R_1+C_2R_L}{C_1C_2R_1R_L} \\ \text{K-LP:} \ \frac{R_1R_Lg_m}{R_1g_m+1} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_L}{C_1R_1+C_2R_1+C_2R_L} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.18 INVALID-NUMER-18 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2 R_1 R_L s + R_1 R_L g_m}{R_1 g_m + s^2 \left(C_1 C_2 R_1 R_L + C_1 C_L R_1 R_L + C_2 C_L R_1 R_L \right) + s \left(C_1 R_1 + C_2 R_1 + C_2 R_L + C_L R_1 R_L g_m + C_L R_L \right) + 1}$$

$$\text{Q: } \frac{R_1R_L\sqrt{\frac{R_1g_m+1}{R_1R_L\left(C_1C_2+C_1C_L+C_2C_L\right)}}(C_1C_2+C_1C_L+C_2C_L)}{C_1R_1+C_2R_1+C_2R_L+C_LR_1R_Lg_m+C_LR_L}$$

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wo: \sqrt{\frac{R_1g_m+1}{R_1R_L(C_1C_2+C_1C_L+C_2C_L)}} bandwidth: \frac{C_1R_1+C_2R_1+C_2R_L+C_LR_1R_Lg_m+C_LR_L}{R_1R_L(C_1C_2+C_1C_L+C_2C_L)} K-LP: \frac{R_1R_Lg_m}{R_1g_m+1} K-HP: 0 K-BP: \frac{C_2R_1R_L}{C_1R_1+C_2R_1+C_2R_L+C_LR_1R_Lg_m+C_LR_L} Qz: 0 Wz: None
```

8.19 INVALID-NUMER-19 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)$

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

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_1R_2R_L\sqrt{\frac{R_1R_2g_m+R_1+R_2+R_L}{C_1C_2R_1R_2R_L}}}{C_1R_1R_2+C_1R_1R_L+C_2R_1R_2+C_2R_2R_L} \\ \text{wo:} \ \sqrt{\frac{R_1R_2g_m+R_1+R_2+R_L}{C_1C_2R_1R_2R_L}} \\ \text{bandwidth:} \ \frac{C_1R_1R_2+C_1R_1R_L+C_2R_1R_2+C_2R_2R_L}{C_1C_2R_1R_2R_L} \\ \text{K-LP:} \ \frac{R_1R_L(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_L} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_2R_L}{C_1R_1R_L+C_2R_1R_2+C_2R_2R_L} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.20 INVALID-NUMER-20 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2R_1R_2s + R_1R_2g_m + R_1}{s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2 + C_2C_LR_1R_2\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_2\right) + 1}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{R_1R_2\sqrt{\frac{1}{R_1R_2(C_1C_2+C_1C_L+C_2C_L)}}(C_1C_2+C_1C_L+C_2C_L)}{C_1R_1+C_2R_2+C_LR_1R_2g_m+C_LR_1+C_LR_2} \\ \text{wo:} \ \sqrt{\frac{1}{R_1R_2(C_1C_2+C_1C_L+C_2C_L)}} \\ \text{bandwidth:} \ \frac{C_1R_1+C_2R_2+C_LR_1R_2g_m+C_LR_1+C_LR_2}{R_1R_2(C_1C_2+C_1C_L+C_2C_L)} \\ \text{K-LP:} \ R_1\left(R_2g_m+1\right) \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_2}{C_1R_1+C_2R_2+C_LR_1R_2g_m+C_LR_1+C_LR_2} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.21 INVALID-NUMER-21 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L}{R_1R_2g_m + R_1 + R_2 + R_L + s^2\left(C_1C_2R_1R_2R_L + C_1C_LR_1R_2R_L + C_2C_LR_1R_2R_L\right) + s\left(C_1R_1R_2 + C_1R_1R_L + C_2R_1R_2 + C_2R_2R_L + C_LR_1R_2R_Lg_m + C_LR_1R_L + C_LR_1R_L\right)}$$

$$\begin{array}{c} R_1R_2R_L\sqrt{\frac{R_1R_2g_m+R_1+R_2+R_L}{R_1R_2R_L(C_1C_2+C_1C_L+C_2C_L)}}}(C_1C_2+C_1C_L+C_2C_L)\\ Q\colon \frac{1}{C_1R_1R_2+C_1R_1R_L+C_2R_1R_2+C_2R_2}R_L+C_LR_1R_2R_Lg_m+C_LR_1R_L+C_LR_2R_L}\\ \text{wo: } \sqrt{\frac{R_1R_2g_m+R_1+R_2+R_L}{R_1R_2R_L(C_1C_2+C_1C_L+C_2C_L)}}\\ \text{bandwidth: } \frac{C_1R_1R_2+C_1R_1R_L+C_2R_1R_2+C_2R_2R_L+C_LR_1R_2R_Lg_m+C_LR_1R_L+C_LR_2R_L}{R_1R_2R_L(C_1C_2+C_1C_L+C_2C_L)}\\ \text{K-LP: } \frac{R_1R_L(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_L}\\ \text{K-HP: } 0\\ \text{K-BP: } \frac{C_2R_1R_2R_L}{C_1R_2+C_1R_1R_L+C_2R_1R_2+C_2R_2R_L+C_LR_1R_2R_Lg_m+C_LR_1R_L+C_LR_2R_L}\\ \text{Qz: } 0\\ \text{Wz: None} \end{array}$$

8.22 INVALID-NUMER-22 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L\right)$

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

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_1\sqrt{\frac{R_1g_m+1}{C_1C_2R_1(R_2+R_L)}}(R_2+R_L)}{C_1R_1+C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_L} \\ \text{wo:} \ \sqrt{\frac{R_1g_m+1}{C_1C_2R_1(R_2+R_L)}} \\ \text{bandwidth:} \ \frac{C_1R_1+C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_L}{C_1C_2R_1(R_2+R_L)} \\ \text{K-LP:} \ \frac{R_1R_Lg_m}{R_1g_m+1} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_L(R_2g_m+1)}{C_1R_1+C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_L} \\ \text{Qz:} \ 0 \end{array}$

8.23 INVALID-NUMER-23 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

Parameters:

Wz: None

 $\begin{aligned} & \text{Q:} \ \frac{C_1C_LR_L\sqrt{\frac{R_2g_m+1}{C_1C_LR_L(R_1R_2g_m+R_1+R_2)}}}{R_1R_2g_m+C_1R_1+C_1R_2+C_1R_L+C_LR_2R_Lg_m+C_LR_L}} \\ & \text{wo:} \ \sqrt{\frac{R_2g_m+1}{C_1C_LR_L(R_1R_2g_m+R_1+R_2)}} \\ & \text{bandwidth:} \ \frac{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_L+C_LR_2R_Lg_m+C_LR_L}{C_1C_LR_L(R_1R_2g_m+R_1+R_2)} \\ & \text{K-LP:} \ R_L \\ & \text{K-HP:} \ 0 \\ & \text{K-BP:} \ \frac{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_L+C_LR_2R_Lg_m+C_LR_L}{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_L+C_LR_2R_Lg_m+C_LR_L} \\ & \text{Qz:} \ 0 \\ & \text{Wz:} \ \text{None} \end{aligned}$

8.24 INVALID-NUMER-24 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2 L_1 s + L_1 g_m}{C_2 + C_L L_1 g_m s + C_L + s^2 (C_1 C_2 L_1 + C_1 C_L L_1 + C_2 C_L L_1)}$$

Parameters:

$$Q \colon \frac{\sqrt{\frac{C_2 + C_L}{L_1(C_1C_2 + C_1C_L + C_2C_L)}}(C_1C_2 + C_1C_L + C_2C_L)}{C_Lg_m}}{Wo: \sqrt{\frac{C_2 + C_L}{L_1(C_1C_2 + C_1C_L + C_2C_L)}}}$$
 bandwidth:
$$\frac{C_Lg_m}{C_1C_2 + C_1C_L + C_2C_L}$$
 K-LP:
$$\frac{L_1g_m}{C_2 + C_L}$$
 K-HP:
$$0$$
 K-BP:
$$\frac{C_2}{C_Lg_m}$$
 Qz:
$$0$$
 Wz: None

8.25 INVALID-NUMER-25
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2L_1R_1s + L_1R_1g_m}{C_2R_1 + C_LR_1 + s^2\left(C_1C_2L_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1\right) + s\left(C_2L_1 + C_LL_1R_1g_m + C_LL_1\right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{R_1\sqrt{\frac{C_2+C_L}{L_1(C_1C_2+C_1C_L+C_2C_L)}}}{C_2+C_LR_1g_m}(C_1C_2+C_1C_L+C_2C_L)}\\ \text{Wo:} \ \frac{C_2+C_LR_1g_m+C_L}{L_1(C_1C_2+C_1C_L+C_2C_L)}\\ \text{bandwidth:} \ \frac{C_2+C_LR_1g_m+C_L}{R_1(C_1C_2+C_1C_L+C_2C_L)}\\ \text{K-LP:} \ \frac{L_1g_m}{C_2+C_L}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{C_2R_1}{C_2+C_LR_1g_m+C_L}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

9 INVALID-WZ

9.1 INVALID-WZ-1 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$

$$H(s) = \frac{C_2 C_L R_1 R_2 R_L s^2 + R_1 R_2 g_m + R_1 + s \left(C_2 R_1 R_2 + C_L R_1 R_2 R_L g_m + C_L R_1 R_L \right)}{s^2 \left(C_2 C_L R_1 R_2 + C_2 C_L R_2 R_L \right) + s \left(C_2 R_2 + C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 + C_L R_L \right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_2C_LR_2\sqrt{\frac{1}{C_2C_LR_2(R_1+R_L)}}(R_1+R_L)}{C_2R_2+C_LR_1R_2g_m+C_LR_1+C_LR_2+C_LR_L} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2C_LR_2(R_1+R_L)}} \\ & \text{bandwidth:} \ \frac{C_2R_2+C_LR_1R_2g_m+C_LR_1+C_LR_2+C_LR_L}{C_2C_LR_2(R_1+R_L)} \\ & \text{K-LP:} \ R_1\left(R_2g_m+1\right) \\ & \text{K-HP:} \ \frac{R_1R_L}{R_1+R_L} \\ & \text{K-BP:} \ \frac{R_1(C_2R_2+C_LR_2R_Lg_m+C_LR_L)}{C_2R_2+C_LR_1R_2g_m+C_LR_L+C_LR_2+C_LR_L} \\ & \text{Qz:} \ \frac{C_2C_LR_2R_L\sqrt{\frac{1}{C_2C_LR_2(R_1+R_L)}}}{C_2R_2+C_LR_2R_Lg_m+C_LR_L} \\ & \text{Wz:} \ \sqrt{\frac{R_2g_m+1}{C_2C_LR_2R_L}} \end{aligned}$$

9.2 INVALID-WZ-2 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L L_1 R_L s^2 + L_1 g_m + s \left(C_2 L_1 + C_L L_1 R_L g_m \right)}{C_2 C_L L_1 s^2 + C_2 + C_L + s \left(C_2 C_L R_L + C_L L_1 g_m \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_2 L_1 \sqrt{\frac{C_2 + C_L}{C_2 C_L L_1}}}{C_2 R_L + L_1 g_m} \\ & \text{wo:} \ \sqrt{\frac{C_2 + C_L}{C_2 C_L L_1}} \\ & \text{bandwidth:} \ \frac{C_2 R_L + L_1 g_m}{C_2 L_1} \\ & \text{K-LP:} \ \frac{L_1 g_m}{C_2 + C_L} \\ & \text{K-HP:} \ R_L \\ & \text{K-BP:} \ \frac{L_1 (C_2 + C_L R_L g_m)}{C_L (C_2 R_L + L_1 g_m)} \\ & \text{Qz:} \ \frac{C_2 C_L R_L \sqrt{\frac{C_2 + C_L}{C_2 C_L L_1}}}{C_2 + C_L R_L g_m} \\ & \text{Wz:} \ \sqrt{\frac{g_m}{C_2 C_L R_L}} \end{aligned}$$

9.3 INVALID-WZ-3 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{L_1 g_m + s^2 \left(C_2 C_L L_1 R_2 R_L g_m + C_2 C_L L_1 R_L \right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_L L_1 R_L g_m \right)}{C_2 + C_L + s^2 \left(C_2 C_L L_1 R_2 g_m + C_2 C_L L_1 \right) + s \left(C_2 C_L R_2 + C_2 C_L R_L + C_L L_1 g_m \right)}$$

Q:
$$\frac{C_2L_1\sqrt{\frac{C_2+C_L}{C_2C_LL_1(R_2g_m+1)}}(R_2g_m+1)}{C_2R_2+C_2R_L+L_1g_m}$$

$$\begin{aligned} &\text{wo: } \sqrt{\frac{C_2 + C_L}{C_2 C_L L_1 (R_2 g_m + 1)}} \\ &\text{bandwidth: } \frac{C_2 R_2 + C_2 R_L + L_1 g_m}{C_2 L_1 (R_2 g_m + 1)} \\ &\text{K-LP: } \frac{L_1 g_m}{C_2 + C_L} \\ &\text{K-HP: } R_L \\ &\text{K-BP: } \frac{L_1 (C_2 R_2 g_m + C_2 + C_L R_L g_m)}{C_L (C_2 R_2 + C_2 R_L + L_1 g_m)} \\ &\text{Qz: } \frac{C_2 C_L R_L \sqrt{\frac{C_2 + C_L}{C_2 C_L L_1 (R_2 g_m + 1)}} (R_2 g_m + 1)}{C_2 R_2 g_m + C_2 + C_L R_L g_m} \\ &\text{Wz: } \sqrt{\frac{g_m}{C_2 C_L R_L (R_2 g_m + 1)}} \end{aligned}$$

9.4 INVALID-WZ-4 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1 C_2 R_1 R_L s^2 + R_L g_m + s \left(C_1 R_1 R_L g_m + C_2 R_L \right)}{g_m + s^2 \left(C_1 C_2 R_1 + C_1 C_2 R_L \right) + s \left(C_1 R_1 g_m + C_1 + C_2 \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1 C_2 \sqrt{\frac{g_m}{C_1 C_2(R_1 + R_L)}}(R_1 + R_L)}{C_1 R_1 g_m + C_1 + C_2} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_1 C_2(R_1 + R_L)}} \\ & \text{bandwidth:} \ \frac{C_1 R_1 g_m + C_1 + C_2}{C_1 C_2(R_1 + R_L)} \\ & \text{K-LP:} \ R_L \\ & \text{K-HP:} \ \frac{R_1 R_L}{R_1 + R_L} \\ & \text{K-BP:} \ \frac{R_L (C_1 R_1 g_m + C_2)}{C_1 R_1 g_m + C_2} \\ & \text{Qz:} \ \frac{C_1 C_2 R_1 \sqrt{\frac{g_m}{C_1 C_2(R_1 + R_L)}}}{C_1 R_1 g_m + C_2} \\ & \text{Wz:} \ \sqrt{\frac{g_m}{C_1 C_2 R_1}} \end{aligned}$$

9.5 INVALID-WZ-5
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_1 C_2 R_1 R_2 R_L s^2 + R_2 R_L g_m + R_L + s \left(C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L + C_2 R_2 R_L \right)}{R_2 g_m + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_2 R_2 R_L \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_L + C_2 R_2 \right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1C_2R_2\sqrt{\frac{R_2g_m+1}{C_1C_2R_2(R_1+R_L)}}(R_1+R_L)}{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_L+C_2R_2} \\ & \text{wo:} \ \sqrt{\frac{R_2g_m+1}{C_1C_2R_2(R_1+R_L)}} \\ & \text{bandwidth:} \ \frac{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_L+C_2R_2}{C_1C_2R_2(R_1+R_L)} \\ & \text{K-LP:} \ R_L \\ & \text{K-HP:} \ \frac{R_1R_L}{R_1+R_L} \\ & \text{K-BP:} \ \frac{R_L(C_1R_1R_2g_m+C_1R_1+C_2R_2)}{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_L+C_2R_2} \\ & \text{Qz:} \ \frac{C_1C_2R_1R_2\sqrt{\frac{R_2g_m+1}{C_1C_2R_2(R_1+R_L)}}}{C_1R_1R_2g_m+C_1R_1+C_2R_2} \\ & \text{Wz:} \ \sqrt{\frac{R_2g_m+1}{C_1C_2R_1R_2}} \end{aligned}$$

9.6 INVALID-WZ-6 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$

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

$$Q: \frac{C_1C_2\sqrt{\frac{g_m}{C_1C_2(R_1R_2g_m+R_1+R_2+R_L)}}(R_1R_2g_m+R_1+R_2+R_L)}{C_1R_1g_m+C_1+C_2R_2g_m+C_2}$$
 wo:
$$\sqrt{\frac{g_m}{C_1C_2(R_1R_2g_m+R_1+R_2+R_L)}}$$
 bandwidth:
$$\frac{C_1R_1g_m+C_1+C_2R_2g_m+C_2}{C_1C_2(R_1R_2g_m+R_1+R_2+R_L)}$$
 K-LP: R_L

$$\text{Qz: } \frac{C_1 C_2 R_1 \sqrt{\frac{g_m}{C_1 C_2 \left(R_1 R_2 g_m + R_1 + R_2 + R_L\right)}} (R_2 g_m + 1)}{C_1 R_1 g_m + C_2 R_2 g_m + C_2}$$

Wz: $\sqrt{\frac{g_m}{C_1 C_2 R_1 (R_2 g_m + 1)}}$

10 INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (R_1, R_2, \infty, \infty, \infty, R_L)$

$$H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L}{R_1 R_2 g_m + R_1 + R_2 + R_L}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1}{s \left(C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 \right) + 1}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

10.4 INVALID-ORDER-4 $Z(s) = \left(R_1, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.5 INVALID-ORDER-5 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 R_1 R_L s + R_1 R_L g_m}{R_1 g_m + s \left(C_2 R_1 + C_2 R_L\right) + 1}$$

10.6 INVALID-ORDER-6 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 R_1 s + R_1 g_m}{C_2 C_L R_1 s^2 + s \left(C_2 + C_L R_1 g_m + C_L\right)}$$

10.7 INVALID-ORDER-7 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L R_1 R_L s^2 + R_1 g_m + s \left(C_2 R_1 + C_L R_1 R_L g_m \right)}{s^2 \left(C_2 C_L R_1 + C_2 C_L R_L \right) + s \left(C_2 + C_L R_1 g_m + C_L \right)}$$

10.8 INVALID-ORDER-8 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

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

10.9 INVALID-ORDER-9
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_2 L_L R_1 s^2 + L_L R_1 g_m s}{C_2 C_L L_L R_1 s^3 + C_2 R_1 s + R_1 g_m + s^2 \left(C_2 L_L + C_L L_L R_1 g_m + C_L L_L \right) + 1}$$

10.10 INVALID-ORDER-10
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.11 INVALID-ORDER-11
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_2L_LR_1R_Ls^2 + L_LR_1R_Lg_ms}{C_2C_LL_LR_1R_Ls^3 + R_1R_Lg_m + R_L + s^2\left(C_2L_LR_1 + C_2L_LR_L + C_LL_LR_1R_Lg_m + C_LL_LR_L\right) + s\left(C_2R_1R_L + L_LR_1g_m + L_L\right)}$$

10.12 INVALID-ORDER-12
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_LR_1R_Ls^3 + R_1R_Lg_m + s^2\left(C_2L_LR_1 + C_LL_LR_1R_Lg_m\right) + s\left(C_2R_1R_L + L_LR_1g_m\right)}{R_1g_m + s^3\left(C_2C_LL_LR_1 + C_2C_LL_LR_L\right) + s^2\left(C_2L_L + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_2R_1 + C_2R_L\right) + 1}$$

10.13 INVALID-ORDER-13
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1 \right)}{C_L L_L s^2 + C_L R_L s + 1} \right)$$

$$H(s) = \frac{C_2C_LL_LR_1R_Ls^3 + C_2R_1R_Ls + C_LL_LR_1R_Lg_ms^2 + R_1R_Lg_m}{R_1g_m + s^3\left(C_2C_LL_LR_1 + C_2C_LL_LR_L\right) + s^2\left(C_2C_LR_1R_L + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_2R_1 + C_2R_L + C_LR_1R_Lg_m + C_LR_L\right) + 1}$$

10.14 INVALID-ORDER-14 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 R_1 R_2 R_L s + R_1 R_2 R_L g_m + R_1 R_L}{R_1 R_2 g_m + R_1 + R_2 + R_L + s \left(C_2 R_1 R_2 + C_2 R_2 R_L\right)}$$

10.15 INVALID-ORDER-15 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_LR_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_LL_LR_1R_2g_m + C_LL_LR_1\right)}{C_2C_LL_LR_2s^3 + s^2\left(C_2C_LR_1R_2 + C_LL_L\right) + s\left(C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_2\right) + 1}$$

10.16 INVALID-ORDER-16 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.17 INVALID-ORDER-17 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_LR_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2C_LR_1R_2R_L + C_LL_LR_1R_2g_m + C_LL_LR_1\right) + s\left(C_2R_1R_2 + C_LR_1R_2R_Lg_m + C_LR_1R_L\right)}{C_2C_LL_LR_2s^3 + s^2\left(C_2C_LR_1R_2 + C_2C_LR_2R_L + C_LL_L\right) + s\left(C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_2 + C_LR_1\right) + 1}$$

10.18 INVALID-ORDER-18 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

10.19 INVALID-ORDER-19
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_LR_1R_2R_Ls^3 + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_2L_LR_1R_2 + C_LL_LR_1R_2R_Lg_m + C_LL_LR_1R_L\right) + s\left(C_2R_1R_2R_L + L_LR_1R_2g_m + L_LR_1\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_2C_LL_LR_1R_2 + C_2C_LL_LR_2R_L\right) + s^2\left(C_2L_LR_1R_2 + C_LL_LR_1R_2g_m + C_LL_LR_1 + C_LL_LR_2 + C_LL_LR_1\right) + s\left(C_2R_1R_2R_L + L_LR_1R_2g_m + L_LR_1\right)}$$

10.20 INVALID-ORDER-20
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2C_LL_LR_1R_2R_Ls^3 + C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_LL_LR_1R_2R_Lg_m + C_LL_LR_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_2C_LL_LR_1R_2 + C_2C_LL_LR_2R_L\right) + s^2\left(C_2C_LR_1R_2R_L + C_LL_LR_1R_2g_m + C_LL_LR_1 + C_LR_1R_2 + C_LR_1R_1R_2 + C_LR_1R_1R_2 + C_LR_1R_2 + C_LR_1R_2 + C_LR_1R_1R_2 + C_LR_1R_1R_1 + C_LR_1R_1R_1 +$$

10.21 INVALID-ORDER-21 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{R_1 R_L g_m + s \left(C_2 R_1 R_2 R_L g_m + C_2 R_1 R_L \right)}{R_1 g_m + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_L \right) + 1}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

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

10.23 INVALID-ORDER-23 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.24 INVALID-ORDER-24 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

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

10.25 INVALID-ORDER-25 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{L_L R_1 g_m s + s^2 \left(C_2 L_L R_1 R_2 g_m + C_2 L_L R_1\right)}{R_1 g_m + s^3 \left(C_2 C_L L_L R_1 R_2 g_m + C_2 C_L L_L R_1 + C_2 C_L L_L R_2\right) + s^2 \left(C_2 L_L + C_L L_L R_1 g_m + C_L L_L\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2\right) + 1}$$

10.26 INVALID-ORDER-26 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

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

10.27 INVALID-ORDER-27 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.28 INVALID-ORDER-28 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{R_1 R_L g_m + s^3 \left(C_2 C_L L_L R_1 R_2 R_L g_m + C_2 C_L L_L R_1 R_L\right) + s^2 \left(C_2 L_L R_1 R_2 g_m + C_2 L_L R_1 + C_L L_L R_1 R_L g_m\right) + s \left(C_2 R_1 R_2 R_L g_m + C_2 R_1 R_L + L_L R_1 g_m\right)}{R_1 g_m + s^3 \left(C_2 C_L L_L R_1 R_2 g_m + C_2 C_L L_L R_1 + C_2 C_L L_L R_L\right) + s^2 \left(C_2 L_L + C_L L_L R_1 g_m + C_L L_L\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_L\right) + 1}$$

10.29 INVALID-ORDER-29
$$Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

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

10.30 INVALID-ORDER-30 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 L_2 R_1 g_m s^2 + C_2 R_1 s + R_1 g_m}{C_2 C_L R_1 s^2 + s^3 \left(C_2 C_L L_2 R_1 g_m + C_2 C_L L_2 \right) + s \left(C_2 + C_L R_1 g_m + C_L \right)}$$

10.31 INVALID-ORDER-31 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2L_2R_1R_Lg_ms^2 + C_2R_1R_Ls + R_1R_Lg_m}{R_1g_m + s^3\left(C_2C_LL_2R_1R_Lg_m + C_2C_LL_2R_L\right) + s^2\left(C_2C_LR_1R_L + C_2L_2R_1g_m + C_2L_2\right) + s\left(C_2R_1 + C_2R_L + C_LR_1R_Lg_m + C_LR_L\right) + 1}$$

10.32 INVALID-ORDER-32 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L L_2 R_1 R_L g_m s^3 + R_1 g_m + s^2 \left(C_2 C_L R_1 R_L + C_2 L_2 R_1 g_m \right) + s \left(C_2 R_1 + C_L R_1 R_L g_m \right)}{s^3 \left(C_2 C_L L_2 R_1 g_m + C_2 C_L L_2 \right) + s^2 \left(C_2 C_L R_1 + C_2 C_L R_L \right) + s \left(C_2 + C_L R_1 g_m + C_L \right)}$$

10.33 INVALID-ORDER-33 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L L_2 L_L R_1 g_m s^4 + C_2 C_L L_L R_1 s^3 + C_2 R_1 s + R_1 g_m + s^2 \left(C_2 L_2 R_1 g_m + C_L L_L R_1 g_m \right)}{C_2 C_L R_1 s^2 + s^3 \left(C_2 C_L L_2 R_1 g_m + C_2 C_L L_2 + C_2 C_L L_L \right) + s \left(C_2 + C_L R_1 g_m + C_L \right)}$$

10.34 INVALID-ORDER-34 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_2L_2L_LR_1g_ms^3 + C_2L_LR_1s^2 + L_LR_1g_ms}{C_2C_LL_LR_1s^3 + C_2R_1s + R_1g_m + s^4\left(C_2C_LL_2L_LR_1g_m + C_2C_LL_2L_L\right) + s^2\left(C_2L_2R_1g_m + C_2L_2 + C_2L_L + C_LL_LR_1g_m + C_LL_L\right) + 1}$$

10.35 INVALID-ORDER-35 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_2L_LR_1g_ms^4 + R_1g_m + s^3\left(C_2C_LL_2R_1R_Lg_m + C_2C_LL_LR_1\right) + s^2\left(C_2C_LR_1R_L + C_2L_2R_1g_m + C_LL_LR_1g_m\right) + s\left(C_2R_1 + C_LR_1R_Lg_m\right)}{s^3\left(C_2C_LL_2R_1g_m + C_2C_LL_2 + C_2C_LL_L\right) + s^2\left(C_2C_LR_1 + C_2C_LR_L\right) + s\left(C_2 + C_LR_1g_m + C_L\right)}$$

10.36 INVALID-ORDER-36 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_2L_2L_LR_1R_Lg_ms^3 + C_2L_LR_1R_Lg_ms}{R_1R_Lg_m + R_L + s^4\left(C_2C_LL_2L_LR_1R_Lg_m + C_2C_LL_2L_LR_1\right) + s^3\left(C_2C_LL_LR_1R_L + C_2L_LR_1g_m + C_2L_2L_L\right) + s^2\left(C_2L_2R_1R_Lg_m + C_2L_2R_L + C_2L_LR_1 + C_2L_LR_1 + C_2L_LR_1\right) + s\left(C_2R_1R_L + L_LR_1g_m + L_LR_1g_m$$

10.37 INVALID-ORDER-37 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{C_2C_LL_2L_LR_1R_Lg_ms^4 + R_1R_Lg_m + s^3\left(C_2C_LL_LR_1R_L + C_2L_2L_LR_1g_m\right) + s^2\left(C_2L_2R_1R_Lg_m + C_2L_LR_1 + C_LL_LR_1R_Lg_m\right) + s\left(C_2R_1R_L + L_LR_1g_m\right)}{R_1g_m + s^4\left(C_2C_LL_2L_LR_1g_m + C_2C_LL_2L\right) + s^3\left(C_2C_LL_LR_1 + C_2C_LL_LR_1\right) + s^2\left(C_2L_2R_1g_m + C_2L_L + C_LL_RR_1g_m + C_LL\right) + s\left(C_2R_1R_L + L_LR_1g_m\right)}$$

10.38 INVALID-ORDER-38
$$Z(s) = \left(R_1, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L\left(C_LL_Ls^2 + 1\right)}{C_LL_Ls^2 + C_LR_Ls + 1}\right)$$

$$H(s) = \frac{C_2C_LL_2L_LR_1R_Lg_ms^4 + C_2C_LL_LR_1R_Ls^3 + C_2R_1R_Ls + R_1R_Lg_m + s^2\left(C_2L_2R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{R_1g_m + s^4\left(C_2C_LL_2L_LR_1g_m + C_2C_LL_2R_1R_Lg_m + C_2C_LL_LR_1 + C_2C_LL_LR_1\right) + s^2\left(C_2C_LR_1R_L + C_2L_2R_1g_m + C_2L_2 + C_LL_RR_1g_m + C_LL_L\right) + s\left(C_2R_1 + C_2R_L + C_LR_1R_Lg_m + C_LR_L\right) + 1}$$

10.39 INVALID-ORDER-39
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2L_2R_1g_ms^2 + R_1g_m + s\left(C_2R_1R_2g_m + C_2R_1\right)}{s^3\left(C_2C_LL_2R_1g_m + C_2C_LL_2\right) + s^2\left(C_2C_LR_1R_2g_m + C_2C_LR_1 + C_2C_LR_2\right) + s\left(C_2 + C_LR_1g_m + C_L\right)}$$

10.40 INVALID-ORDER-40
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2L_2R_1R_Lg_ms^2 + R_1R_Lg_m + s\left(C_2R_1R_2R_Lg_m + C_2R_1R_L\right)}{R_1g_m + s^3\left(C_2C_LL_2R_1R_Lg_m + C_2C_LL_2R_L\right) + s^2\left(C_2C_LR_1R_2R_Lg_m + C_2C_LR_1R_L + C_2C_LR_2R_L + C_2L_2R_1g_m + C_2L_2\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_L + C_LR_1R_Lg_m + C_LR_L\right) + 1}$$

10.41 INVALID-ORDER-41
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LL_2R_1R_Lg_ms^3 + R_1g_m + s^2\left(C_2C_LR_1R_2R_Lg_m + C_2C_LR_1R_L + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_LR_1R_Lg_m\right)}{s^3\left(C_2C_LL_2R_1g_m + C_2C_LL_2\right) + s^2\left(C_2C_LR_1R_2g_m + C_2C_LR_1 + C_2C_LR_2 + C_2C_LR_1\right) + s\left(C_2 + C_LR_1g_m + C_LR_1g_m\right)}$$

10.42 INVALID-ORDER-42
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LL_2L_LR_1g_ms^4 + R_1g_m + s^3\left(C_2C_LL_LR_1R_2g_m + C_2C_LL_LR_1\right) + s^2\left(C_2L_2R_1g_m + C_LL_LR_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1\right)}{s^3\left(C_2C_LL_2R_1g_m + C_2C_LL_2 + C_2C_LL_L\right) + s^2\left(C_2C_LR_1R_2g_m + C_2C_LR_1 + C_2C_LR_2\right) + s\left(C_2 + C_LR_1g_m + C_L\right)}$$

10.43 INVALID-ORDER-43
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_2L_2L_LR_1g_ms^3 + L_LR_1g_ms + s^2\left(C_2L_LR_1R_2g_m + C_2L_LR_1\right)}{R_1g_m + s^4\left(C_2C_LL_2L_LR_1g_m + C_2C_LL_L\right) + s^3\left(C_2C_LL_LR_1R_2g_m + C_2C_LL_LR_1 + C_2C_LL_LR_2\right) + s^2\left(C_2L_2R_1g_m + C_2L_L + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_2R_2\right) + 1}$$

10.44 INVALID-ORDER-44
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LL_2L_LR_1g_ms^4 + R_1g_m + s^3\left(C_2C_LL_2R_1R_Lg_m + C_2C_LL_LR_1R_2g_m + C_2C_LL_LR_1\right) + s^2\left(C_2C_LR_1R_2R_Lg_m + C_2C_LR_1R_L + C_2L_2R_1g_m + C_LL_LR_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_Lg_m + C_$$

10.45 INVALID-ORDER-45
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.46 INVALID-ORDER-46
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_2L_LR_1R_Lg_ms^4 + R_1R_Lg_m + s^3\left(C_2C_LL_LR_1R_2R_Lg_m + C_2C_LL_LR_1R_L + C_2L_2L_LR_1g_m\right) + s^2\left(C_2L_2R_1R_Lg_m + C_2L_LR_1R_2g_m + C_2L_LR_1 + C_LL_LR_1R_Lg_m\right) + s\left(C_2R_1R_2R_Lg_m + C_2R_1R_L + L_LR_1g_m\right) + s\left(C_2R_1R_2R_Lg_m + C_2L_LR_1R_2g_m + C_2L_L$$

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10.47 INVALID-ORDER-47 Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
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10.48 INVALID-ORDER-48 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$

 $H(s) = \frac{L_2 R_1 g_m s + R_1 R_2 g_m + R_1 + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 \right)}{s^3 \left(C_2 C_L L_2 R_1 R_2 g_m + C_2 C_L L_2 R_1 + C_2 C_L L_2 R_2 \right) + s^2 \left(C_2 L_2 + C_L L_2 R_1 g_m + C_L L_2 \right) + s \left(C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 \right) + 1}$

10.49 INVALID-ORDER-49 $Z(s) = \left(R_1, \frac{L_{2s}}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$

 $H(s) = \frac{L_2R_1R_Lg_ms + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_2C_LL_2R_1R_2R_Lg_m + C_2C_LL_2R_1R_L + C_2C_LL_2R_1R_L\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_1$

10.50 INVALID-ORDER-50 $Z(s) = \left(R_1, \frac{L_{2s}}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_L L_2 R_1 R_2 R_L g_m + C_2 C_L L_2 R_1 R_L\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_L L_2 R_1 R_L g_m\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_L + L_2 R_1 g_m\right)}{s^3 \left(C_2 C_L L_2 R_1 R_2 g_m + C_2 C_L L_2 R_1 + C_2 C_L L_2 R_2 + C_2 C_L L_2 R_L\right) + s^2 \left(C_2 L_2 + C_L L_2 R_1 g_m + C_L L_2\right) + s \left(C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 + C_L R_L\right) + 1}$

10.51 INVALID-ORDER-51 $Z(s) = \left(R_1, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_L L_2 L_L R_1 g_m s^3 + L_2 R_1 g_m s + R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 g_m + C_2 C_L L_2 L_L R_1\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_L L_L R_1 R_2 g_m + C_L L_L R_1\right)}{C_2 C_L L_2 L_L s^4 + s^3 \left(C_2 C_L L_2 R_1 R_2 g_m + C_2 C_L L_2 R_1 + C_2 C_L L_2 R_2\right) + s^2 \left(C_2 L_2 + C_L L_2 R_1 g_m + C_L L_2 + C_L L_L\right) + s \left(C_L R_1 R_2 g_m + C_L R_1 + C_L R_1 R_2 R_1 + C_L R_1 R_2 R_1 R_2 R_1 + C_L R_1 R_2 R_1 R_$

10.52 INVALID-ORDER-52 $Z(s) = \left(R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{L_2L_LR_1g_ms^2 + s^3\left(C_2L_2L_LR_1R_2g_m + C_2L_2L_LR_1\right) + s\left(L_LR_1R_2g_m + L_LR_1\right)}{R_1R_2g_m + R_1 + R_2 + s^4\left(C_2C_LL_2L_LR_1R_2g_m + C_2C_LL_2L_LR_1 + C_2C_LL_2L_LR_1g_m + C_LL_2L_L\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_LL_LR_1R_2g_m + C_LL_LR_1 + C_LL_LR_1\right) + s\left(L_LR_1R_2g_m + L_LR_1\right)}$

10.53 INVALID-ORDER-53 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 g_m + C_2 C_L L_2 L_L R_1\right) + s^3 \left(C_2 C_L L_2 R_1 R_2 R_L g_m + C_2 L_L R_1 R_2 g_m + C_L R_1 R_2 R_2 g_m + C_L R_1 R_2 R_2 g_m + C_L R_1 R_2 g_m +$

10.54 INVALID-ORDER-54 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$

 $T(s) = \frac{L_2L_LR_1R_Lg_ms^2 + s^3\left(C_2L_2L_LR_1R_2R_Lg_m + C_2L_2L_LR_1R_L\right) + s\left(L_LR_1R_2R_Lg_m + L_LR_1R_L\right)}{R_1R_2R_Lg_m + R_1R_L + R_2R_L + s^4\left(C_2C_LL_2L_LR_1R_2R_Lg_m + C_2L_2L_LR_1R_2g_m + C_2L_2L_LR_1 + C_2L_2L_2R_1 +$

10.55 INVALID-ORDER-55 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

 $H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_2 L_L L_R R_1 R_L \right) + s^3 \left(C_2 L_2 L_L R_1 R_2 g_m + C_2 L_L L_R R_1 R_L g_m + C_2 L_L L_R R_1 R_L g_m + C_2 L_2 R_1 R_L + C_L L_L R_1 R_2 R_L g_m + C_L L_L R_1 R_L + L_2 L_L R_1 g_m + L_L R_1 R_2 g_m + L_L R_1 R_2 g_m + L_L R_1 R_2 g_m + R_1 R_2 R_L g_m + R_1 R_2 R_L g_m + R_1 R_2 R_L g_m + C_2 L_L L_R R_1 R_2 g_m + C_2 L_L R_1 R_2 g_m + C_2$

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10.56 INVALID-ORDER-56 Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
H(s) = \frac{C_L L_2 L_L R_1 R_L g_m s^3 + L_2 R_1 R_L g_m s + R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_2 C_L L_2 L_L R_1 R_L \right) + s^2 \left(C_2 L_2 R_1 R_2 R_L g_m + C_2 L_2 R_1 R_L + C_L L_L R_1 R_2 R_L g_m + C_2 L_2 R_1 R_2 R_
10.57 INVALID-ORDER-57 Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                                   H(s) = \frac{C_2R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1\right)}{s^3\left(C_2C_LL_2R_1R_2g_m + C_2C_LL_2R_1 + C_2C_LL_2R_2\right) + s^2\left(C_2C_LR_1R_2 + C_2L_2\right) + s\left(C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_2\right) + 1}
10.58 INVALID-ORDER-58 Z(s) = \left(R_1, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                                               H(s) = \frac{C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_2C_LL_2R_1R_2R_Lg_m + C_2C_LL_2R_1R_L + C_2C_LL_2R_2R_L\right) + s^2\left(C_2C_LR_1R_2R_L + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_L\right) + s\left(C_2R_1R_2 + C_2L_2R_L + C_2R_2R_L + C_2R_2R_L + C_2R_2R_L + C_2R_2R_L\right) + s^2\left(C_2C_LR_1R_2R_L + C_2C_LR_1R_2R_L + C_2C_LR_1R_2R_1 + C_2C_LR_1R_2R_1 + C_2C_LR_1R_2R_1 + C_2C_LR_1R_1R_1 + C_2C_LR_1R_1R_1 + C_2C_LR_1R_1R_1
10.59 INVALID-ORDER-59 Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_L L_2 R_1 R_2 R_L g_m + C_2 C_L L_2 R_1 R_L\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1\right) + s \left(C_2 R_1 R_2 + C_L R_1 R_2 R_L g_m + C
10.60 INVALID-ORDER-60 Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                             H(s) = \frac{C_2C_LL_LR_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^4\left(C_2C_LL_2L_LR_1R_2g_m + C_2C_LL_2L_LR_1\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_LL_LR_1R_2g_m + C_LL_LR_1\right)}{C_2C_LL_2L_Ls^4 + s^3\left(C_2C_LL_2R_1R_2g_m + C_2C_LL_2R_1 + C_2C_LL_2R_2 + C_2C_LL_LR_2\right) + s^2\left(C_2C_LR_1R_2 + C_2L_2 + C_LL_L\right) + s\left(C_2R_2 + C_LR_1R_2g_m + C_LR_1R_2g_m + C_LR_1\right) + s^2\left(C_2C_LR_1R_2 + C_2C_LL_2R_1 + C_2C_LL_2R_1 + C_2C_LL_2R_1\right) + s^2\left(C_2C_LR_1R_2 + C_2C_LL_2R_1 + C_2C_LL_2R_1 + C_2C_LL_2R_1\right) + s^2\left(C_2C_LR_1R_2 + C_2C_LR_1\right) + s^2\left(C_2C_LR_1R_2 + C_2C_LR_1\right) + s^2\left(C_2C_LR_1R_2 + C_2C_LR_1\right) + s^2\left(C_2C_LR_1R_2 + C_2C_LR_1\right) + s^2\left(C_2C_LR_1R_1 + C_2C_LR_1
10.61 INVALID-ORDER-61 Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
                                                                    H(s) = \frac{C_2L_LR_1R_2s^2 + s^3\left(C_2L_2L_LR_1R_2g_m + C_2L_2L_LR_1\right) + s\left(L_LR_1R_2g_m + L_LR_1\right)}{R_1R_2g_m + R_1 + R_2 + s^4\left(C_2C_LL_2L_LR_1R_2g_m + C_2C_LL_2L_LR_1 + C_2C_LL_2L_LR_1\right) + s^3\left(C_2C_LL_LR_1R_2g_m + C_2L_2L_L\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_2L_LR_1R_2g_m + C_LL_LR_1R_2g_m + C_LL_LR_1\right) + s\left(C_2R_1R_2 + C_2L_2R_1 +
10.62 INVALID-ORDER-62 Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                             H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 g_m + C_2 C_L L_2 L_L R_1\right) + s^3 \left(C_2 C_L L_2 R_1 R_2 R_L g_m + C_2 C_L L_2 R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_L L_L R_1 R_2 g_m + C_L L_L R_1\right) + s \left(C_2 R_1 R_2 + C_L R_1 R_2 g_m + C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 L_2 R_1 R_2 g_m + C_L L_L R_1\right) + s \left(C_2 R_1 R_2 + C_L R_1 R_2 g_m + C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 C_L R_1 R_2\right) +
10.63 INVALID-ORDER-63 Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_2L_LR_1R_2R_Ls^2 + s^3\left(C_2L_2L_LR_1R_2R_Lg_m + C_2L_2L_LR_1R_L\right) + s\left(L_LR_1R_2R_Lg_m + L_LR_1R_L\right)
                                                  \frac{C_2L_LR_1R_2R_Ls^2 + s^3\left(C_2L_2L_LR_1R_2R_Lg_m + C_2L_2L_LR_1R_L\right) + s\left(L_LR_1R_2R_Lg_m + L_LR_1R_L\right)}{R_1R_2R_Lg_m + R_1R_L + R_2R_L + s^4\left(C_2C_LL_2L_LR_1R_2R_Lg_m + C_2L_2L_LR_1R_2R_L + c_2L_2L_LR_1R_2R_L + c_2L_2L_LR_1 + c_2L_2L_RR_1 + c
10.64 INVALID-ORDER-64 Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)
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 $s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_2 C_L L_2 L_L R_1 R_2 R_L + C_2 L_2 L_L R_1 R_2 g_m + C_2 L_2 L_L R_1 R_2 g_m + C_2 L_2 L_L R_1 R_2 g_m + C_2 L_2 L_L R_1 R_2 R_L + C_2 L_2 R_1 R_2 R_L$

10.65 INVALID-ORDER-65
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$$

 $H(s) = \frac{C_2C_LL_LR_1R_2R_Ls^3 + C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^4\left(C_2C_LL_2L_LR_1R_2R_Lg_m + C_2C_LL_2L_LR_1R_L\right) + s^2\left(C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L + C_LL_LR_1R_2R_Lg_m + C_2L_LR_1R_2R_Lg_m + C_2L_L$

10.66 INVALID-ORDER-66 $Z(s) = (L_1 s, R_2, \infty, \infty, \infty, R_L)$

$$H(s) = \frac{s (L_1 R_2 R_L g_m + L_1 R_L)}{R_2 + R_L + s (L_1 R_2 g_m + L_1)}$$

10.67 INVALID-ORDER-67 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{s^3 \left(C_L L_1 L_L R_2 g_m + C_L L_1 L_L \right) + s \left(L_1 R_2 g_m + L_1 \right)}{C_L R_2 s + s^2 \left(C_L L_1 R_2 g_m + C_L L_1 + C_L L_L \right) + 1}$$

10.68 INVALID-ORDER-68 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.69 INVALID-ORDER-69 $Z(s) = \left(L_1 s, \ R_2, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$

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

10.70 INVALID-ORDER-70 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.71 INVALID-ORDER-71 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

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

10.72 INVALID-ORDER-72 $Z(s) = \left(L_1 s, R_2, \infty, \infty, \infty, \frac{R_L\left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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

10.73 INVALID-ORDER-73 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2 L_1 R_L s^2 + L_1 R_L g_m s}{C_2 C_L L_1 R_L s^3 + s^2 \left(C_2 L_1 + C_L L_1 R_L g_m \right) + s \left(C_2 R_L + C_L R_L + L_1 g_m \right) + 1}$$

10.74 INVALID-ORDER-74
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2 C_L L_1 L_L s^3 + C_2 L_1 s + C_L L_1 L_L g_m s^2 + L_1 g_m}{C_2 + C_L L_1 g_m s + C_L + s^2 (C_2 C_L L_1 + C_2 C_L L_L)}$$

10.75 INVALID-ORDER-75
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_2 L_1 L_L s^3 + L_1 L_L g_m s^2}{C_2 C_L L_1 L_L s^4 + C_L L_1 L_L g_m s^3 + L_1 g_m s + s^2 (C_2 L_1 + C_2 L_L + C_L L_L) + 1}$$

10.76 INVALID-ORDER-76
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2 C_L L_1 L_L s^3 + L_1 g_m + s^2 \left(C_2 C_L L_1 R_L + C_L L_1 L_L g_m \right) + s \left(C_2 L_1 + C_L L_1 R_L g_m \right)}{C_2 + C_L + s^2 \left(C_2 C_L L_1 + C_2 C_L L_L \right) + s \left(C_2 C_L R_L + C_L L_1 g_m \right)}$$

10.77 INVALID-ORDER-77
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_2L_1L_LR_Ls^3 + L_1L_LR_Lg_ms^2}{C_2C_LL_1L_LR_Ls^4 + R_L + s^3\left(C_2L_1L_L + C_LL_1L_LR_Lg_m\right) + s^2\left(C_2L_1R_L + C_2L_LR_L + C_LL_LR_L + L_1L_Lg_m\right) + s\left(L_1R_Lg_m + L_L\right)}$$

10.78 INVALID-ORDER-78
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_1L_LR_Ls^4 + L_1R_Lg_ms + s^3\left(C_2L_1L_L + C_LL_1L_LR_Lg_m\right) + s^2\left(C_2L_1R_L + L_1L_Lg_m\right)}{C_2C_LL_1L_Ls^4 + s^3\left(C_2C_LL_LR_L + C_LL_1L_Lg_m\right) + s^2\left(C_2L_1 + C_2L_L + C_LL_L\right) + s\left(C_2R_L + L_1g_m\right) + 1}$$

10.79 INVALID-ORDER-79
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2C_LL_1L_LR_Ls^4 + C_2L_1R_Ls^2 + C_LL_1L_LR_Lg_ms^3 + L_1R_Lg_ms}{C_2C_LL_1L_Ls^4 + s^3\left(C_2C_LL_1R_L + C_2C_LL_LR_L + C_LL_1L_Lg_m\right) + s^2\left(C_2L_1 + C_LL_1R_Lg_m + C_LL_L\right) + s\left(C_2R_L + C_LR_L + L_1g_m\right) + 1}$$

10.80 INVALID-ORDER-80 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 L_1 R_2 s^2 + s \left(L_1 R_2 g_m + L_1 \right)}{C_2 C_L L_1 R_2 s^3 + s^2 \left(C_L L_1 R_2 g_m + C_L L_1 \right) + s \left(C_2 R_2 + C_L R_2 \right) + 1}$$

10.81 INVALID-ORDER-81 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2L_1R_2R_Ls^2 + s\left(L_1R_2R_Lg_m + L_1R_L\right)}{C_2C_LL_1R_2R_Ls^3 + R_2 + R_L + s^2\left(C_2L_1R_2 + C_LL_1R_2R_Lg_m + C_LL_1R_L\right) + s\left(C_2R_2R_L + C_LR_2R_L + L_1R_2g_m + L_1\right)}$$

10.82 INVALID-ORDER-82
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2 C_L L_1 R_2 R_L s^3 + s^2 \left(C_2 L_1 R_2 + C_L L_1 R_2 R_L g_m + C_L L_1 R_L \right) + s \left(L_1 R_2 g_m + L_1 \right)}{C_2 C_L L_1 R_2 s^3 + s^2 \left(C_2 C_L R_2 R_L + C_L L_1 R_2 g_m + C_L L_1 \right) + s \left(C_2 R_2 + C_L R_2 + C_L R_L \right) + 1}$$

10.83 INVALID-ORDER-83
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2 C_L L_1 L_L R_2 s^4 + C_2 L_1 R_2 s^2 + s^3 \left(C_L L_1 L_L R_2 g_m + C_L L_1 L_L \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^3 \left(C_2 C_L L_1 R_2 + C_2 C_L L_L R_2 \right) + s^2 \left(C_L L_1 R_2 g_m + C_L L_1 + C_L L_L \right) + s \left(C_2 R_2 + C_L R_2 \right) + 1}$$

10.84 INVALID-ORDER-84
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_2L_1L_LR_2s^3 + s^2\left(L_1L_LR_2g_m + L_1L_L\right)}{C_2C_LL_1L_LR_2s^4 + R_2 + s^3\left(C_LL_1L_LR_2g_m + C_LL_1L_L\right) + s^2\left(C_2L_1R_2 + C_2L_LR_2 + C_LL_LR_2\right) + s\left(L_1R_2g_m + L_1 + L_L\right)}$$

10.85 INVALID-ORDER-85
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LL_1L_LR_2s^4 + s^3\left(C_2C_LL_1R_2R_L + C_LL_1L_LR_2g_m + C_LL_1L_L\right) + s^2\left(C_2L_1R_2 + C_LL_1R_2R_Lg_m + C_LL_1R_L\right) + s\left(L_1R_2g_m + L_1\right)}{s^3\left(C_2C_LL_1R_2 + C_2C_LL_LR_2\right) + s^2\left(C_2C_LR_2R_L + C_LL_1R_2g_m + C_LL_1 + C_LL_L\right) + s\left(C_2R_2 + C_LR_2 + C_LR_L\right) + 1}$$

10.86 INVALID-ORDER-86
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_2L_1L_LR_2R_Ls^3 + s^2\left(L_1L_LR_2R_Lg_m + L_1L_LR_L\right)}{C_2C_LL_1L_LR_2R_Ls^4 + R_2R_L + s^3\left(C_2L_1L_LR_2 + C_LL_1L_LR_2R_Lg_m + C_LL_1L_LR_L\right) + s^2\left(C_2L_1R_2R_L + C_2L_LR_2R_L + C_LL_LR_2R_L + L_1L_LR_2g_m + L_1L_L\right) + s\left(L_1R_2R_Lg_m + L_1R_L + L_LR_2 + L_LR_L\right)}$$

10.87 INVALID-ORDER-87
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_1L_LR_2R_Ls^4 + s^3\left(C_2L_1L_LR_2 + C_LL_1L_LR_2R_Lg_m + C_LL_1L_LR_L\right) + s^2\left(C_2L_1R_2R_L + L_1L_LR_2g_m + L_1L_L\right) + s\left(L_1R_2R_Lg_m + L_1R_L\right)}{C_2C_LL_1L_LR_2s^4 + R_2 + R_L + s^3\left(C_2C_LL_LR_2R_L + C_LL_LL_LR_2g_m + C_LL_1L_L\right) + s^2\left(C_2L_1R_2 + C_LL_LR_2 + C_LL_LR_2 + C_LL_LR_L\right) + s\left(C_2R_2R_L + L_1R_2g_m + L_1L_L\right)}$$

10.88 INVALID-ORDER-88
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2C_LL_1L_LR_2R_Ls^4 + C_2L_1R_2R_Ls^2 + s^3\left(C_LL_1L_LR_2R_Lg_m + C_LL_1L_LR_L\right) + s\left(L_1R_2R_Lg_m + L_1R_L\right)}{C_2C_LL_1L_LR_2s^4 + R_2 + R_L + s^3\left(C_2C_LL_1R_2R_L + C_LL_LR_2g_m + C_LL_1L_L\right) + s^2\left(C_2L_1R_2 + C_LL_1R_2R_Lg_m + C_LL_1R_L\right) + s\left(C_2R_2R_L + C_LR_2R_L + C_LR_2R_L + L_1R_2g_m + L_1\right)}$$

10.89 INVALID-ORDER-89 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{L_1 R_L g_m s + s^2 \left(C_2 L_1 R_2 R_L g_m + C_2 L_1 R_L \right)}{s^3 \left(C_2 C_L L_1 R_2 R_L g_m + C_2 C_L L_1 R_L \right) + s^2 \left(C_2 C_L R_2 R_L + C_2 L_1 R_2 g_m + C_2 L_1 + C_L L_1 R_L g_m \right) + s \left(C_2 R_2 + C_2 R_L + C_L R_L + L_1 g_m \right) + 1}$$

10.90 INVALID-ORDER-90 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_L L_1 L_L g_m s^2 + L_1 g_m + s^3 \left(C_2 C_L L_1 L_L R_2 g_m + C_2 C_L L_1 L_L \right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 \right)}{C_2 + C_L + s^2 \left(C_2 C_L L_1 R_2 g_m + C_2 C_L L_1 + C_2 C_L L_L \right) + s \left(C_2 C_L R_2 + C_L L_1 g_m \right)}$$

10.91 INVALID-ORDER-91
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_1 L_L g_m s^2 + s^3 \left(C_2 L_1 L_L R_2 g_m + C_2 L_1 L_L \right)}{s^4 \left(C_2 C_L L_1 L_L R_2 g_m + C_2 C_L L_1 L_L \right) + s^3 \left(C_2 C_L L_L R_2 + C_L L_1 L_L g_m \right) + s^2 \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_2 L_L + C_L L_L \right) + s \left(C_2 R_2 + L_1 g_m \right) + 1}$$

10.92 INVALID-ORDER-92
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_L L_1 L_L R_2 g_m + C_2 C_L L_1 L_L \right) + s^2 \left(C_2 C_L L_1 R_2 R_L g_m + C_2 C_L L_1 R_L + C_L L_1 L_L g_m \right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_L L_1 R_L g_m \right)}{C_2 + C_L + s^2 \left(C_2 C_L L_1 R_2 g_m + C_2 C_L L_1 + C_2 C_L L_L \right) + s \left(C_2 C_L R_2 + C_2 C_L R_L + C_L L_1 g_m \right)}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.94 INVALID-ORDER-94 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{L_1 R_L g_m s + s^4 \left(C_2 C_L L_1 L_L R_2 R_L g_m + C_2 C_L L_1 L_L R_L\right) + s^3 \left(C_2 L_1 L_L R_2 g_m + C_2 L_1 L_L + C_L L_1 L_L R_L g_m\right) + s^2 \left(C_2 L_1 R_2 R_L g_m + C_2 L_1 R_L + L_1 L_L g_m\right)}{s^4 \left(C_2 C_L L_1 L_L R_2 g_m + C_2 C_L L_1 L_L\right) + s^3 \left(C_2 C_L L_L R_2 + C_2 C_L L_L R_L + C_L L_1 L_L g_m\right) + s^2 \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_L L_L\right) + s \left(C_2 R_2 + C_2 R_L + L_1 g_m\right) + 1}$$

10.95 INVALID-ORDER-95
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

10.96 INVALID-ORDER-96 $Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 L_1 L_2 R_L g_m s^3 + C_2 L_1 R_L s^2 + L_1 R_L g_m s}{C_2 L_1 L_2 g_m s^3 + s^2 (C_2 L_1 + C_2 L_2) + s (C_2 R_L + L_1 g_m) + 1}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 L_1 L_2 g_m s^2 + C_2 L_1 s + L_1 g_m}{C_2 C_L L_1 L_2 g_m s^3 + C_2 + C_L L_1 g_m s + C_L + s^2 (C_2 C_L L_1 + C_2 C_L L_2)}$$

10.98 INVALID-ORDER-98 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2L_1L_2R_Lg_ms^3 + C_2L_1R_Ls^2 + L_1R_Lg_ms}{C_2C_LL_1L_2R_Lg_ms^4 + s^3\left(C_2C_LL_1R_L + C_2C_LL_2R_L + C_2L_1L_2g_m\right) + s^2\left(C_2L_1 + C_2L_2 + C_LL_1R_Lg_m\right) + s\left(C_2R_L + C_LR_L + L_1g_m\right) + 1}$$

10.99 INVALID-ORDER-99 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L L_1 L_2 R_L g_m s^3 + L_1 g_m + s^2 \left(C_2 C_L L_1 R_L + C_2 L_1 L_2 g_m \right) + s \left(C_2 L_1 + C_L L_1 R_L g_m \right)}{C_2 C_L L_1 L_2 g_m s^3 + C_2 + C_L + s^2 \left(C_2 C_L L_1 + C_2 C_L L_2 \right) + s \left(C_2 C_L R_L + C_L L_1 g_m \right)}$$

10.100 INVALID-ORDER-100 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L L_1 L_2 L_L g_m s^4 + C_2 C_L L_1 L_L s^3 + C_2 L_1 s + L_1 g_m + s^2 \left(C_2 L_1 L_2 g_m + C_L L_1 L_L g_m \right)}{C_2 C_L L_1 L_2 g_m s^3 + C_2 + C_L L_1 g_m s + C_L + s^2 \left(C_2 C_L L_1 + C_2 C_L L_2 + C_2 C_L L_L \right)}$$

10.101 INVALID-ORDER-101
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_2L_1L_2L_Lg_ms^4 + C_2L_1L_Ls^3 + L_1L_Lg_ms^2}{C_2C_LL_1L_2L_Lg_ms^5 + L_1g_ms + s^4\left(C_2C_LL_1L_L + C_2C_LL_2L_L\right) + s^3\left(C_2L_1L_2g_m + C_LL_1L_Lg_m\right) + s^2\left(C_2L_1 + C_2L_2 + C_2L_L + C_LL_L\right) + 1}$$

10.102 INVALID-ORDER-102
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LL_1L_2L_Lg_ms^4 + L_1g_m + s^3\left(C_2C_LL_1L_2R_Lg_m + C_2C_LL_1L_L\right) + s^2\left(C_2C_LL_1R_L + C_2L_1L_2g_m + C_LL_1L_Lg_m\right) + s\left(C_2L_1 + C_LL_1R_Lg_m\right)}{C_2C_LL_1L_2g_ms^3 + C_2 + C_LL_1 + s^2\left(C_2C_LL_1 + C_2C_LL_2 + C_2C_LL_L\right) + s\left(C_2C_LR_L + C_LL_1g_m\right)}$$

10.103 INVALID-ORDER-103
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_2L_1L_2L_LR_Lg_ms^4 + C_2L_1L_LR_Ls^3 + L_1L_LR_Lg_ms^2}{C_2C_LL_1L_2L_LR_Lg_ms^5 + R_L + s^4\left(C_2C_LL_1L_LR_L + C_2L_LL_LR_L + C_2L_1L_LR_Lg_m\right) + s^3\left(C_2L_1L_2R_Lg_m + C_2L_1L_L + C_LL_LL_LR_Lg_m\right) + s^2\left(C_2L_1R_L + C_2L_2R_L + C_2L_LR_L + C_LL_LR_L + L_1L_Lg_m\right) + s\left(L_1R_Lg_m + L_L\right)}$$

10.104 INVALID-ORDER-104
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_1L_2L_LR_Lg_ms^5 + L_1R_Lg_ms + s^4\left(C_2C_LL_1L_LR_L + C_2L_1L_2L_Lg_m\right) + s^3\left(C_2L_1L_2R_Lg_m + C_2L_1L_L + C_LL_1L_LR_Lg_m\right) + s^2\left(C_2L_1R_L + L_1L_Lg_m\right)}{C_2C_LL_1L_2L_Lg_ms^5 + s^4\left(C_2C_LL_1L_L + C_2C_LL_2L_L\right) + s^3\left(C_2C_LL_LR_L + C_2L_1L_2g_m + C_LL_1L_Lg_m\right) + s^2\left(C_2L_1 + C_2L_2 + C_2L_L + C_LL_L\right) + s\left(C_2R_L + L_1g_m\right) + 1}$$

10.105 INVALID-ORDER-105
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2C_LL_1L_2L_LR_Lg_ms^5 + C_2C_LL_1L_LR_Ls^4 + C_2L_1R_Ls^2 + L_1R_Lg_ms + s^3\left(C_2L_1L_2R_Lg_m + C_LL_1L_LR_Lg_m\right)}{C_2C_LL_1L_2L_Lg_ms^5 + s^4\left(C_2C_LL_1L_2R_Lg_m + C_2C_LL_1L_L + C_2C_LL_2L_L\right) + s^3\left(C_2C_LL_1R_L + C_2C_LL_2R_L +$$

10.106 INVALID-ORDER-106
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$$

$$H(s) = \frac{C_2 L_1 L_2 R_L g_m s^3 + L_1 R_L g_m s + s^2 \left(C_2 L_1 R_2 R_L g_m + C_2 L_1 R_L \right)}{C_2 L_1 L_2 g_m s^3 + s^2 \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_2 L_2 \right) + s \left(C_2 R_2 + C_2 R_L + L_1 g_m \right) + 1}$$

10.107 INVALID-ORDER-107
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2L_1L_2g_ms^2 + L_1g_m + s\left(C_2L_1R_2g_m + C_2L_1\right)}{C_2C_LL_1L_2g_ms^3 + C_2 + C_L + s^2\left(C_2C_LL_1R_2g_m + C_2C_LL_1 + C_2C_LL_2\right) + s\left(C_2C_LR_2 + C_LL_1g_m\right)}$$

10.108 INVALID-ORDER-108
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2L_1L_2R_Lg_ms^3 + L_1R_Lg_ms + s^2\left(C_2L_1R_2R_Lg_m + C_2L_1R_L\right)}{C_2C_LL_1L_2R_Lg_ms^4 + s^3\left(C_2C_LL_1R_2R_Lg_m + C_2C_LL_1R_L + C_2C_LL_2R_L + C_2L_1L_2g_m\right) + s^2\left(C_2C_LR_2R_L + C_2L_1R_2g_m + C_2L_1 + C_2L_2 + C_LL_1R_Lg_m\right) + s\left(C_2R_2 + C_2R_L + C_LR_L + L_1g_m\right) + 1}$$

10.109 INVALID-ORDER-109
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LL_1L_2R_Lg_ms^3 + L_1g_m + s^2\left(C_2C_LL_1R_2R_Lg_m + C_2C_LL_1R_L + C_2L_1L_2g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 + C_LL_1R_Lg_m\right)}{C_2C_LL_1L_2g_ms^3 + C_2 + C_L + s^2\left(C_2C_LL_1R_2g_m + C_2C_LL_1 + C_2C_LL_2\right) + s\left(C_2C_LR_2 + C_2C_LR_L + C_LL_1g_m\right)}$$

10.110 INVALID-ORDER-110 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_2C_LL_1L_2L_Lg_ms^4 + L_1g_m + s^3\left(C_2C_LL_1L_LR_2g_m + C_2C_LL_1L_L\right) + s^2\left(C_2L_1L_2g_m + C_LL_1L_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1\right)}{C_2C_LL_1L_2g_ms^3 + C_2 + C_L + s^2\left(C_2C_LL_1R_2g_m + C_2C_LL_1 + C_2C_LL_2 + C_2C_LL_1\right) + s\left(C_2C_LR_2 + C_LL_1g_m\right)}$ **10.111** INVALID-ORDER-111 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_2L_1L_2L_Lg_ms^4 + L_1L_Lg_ms^2 + s^3\left(C_2L_1L_LR_2g_m + C_2L_1L_L\right)}{C_2C_LL_1L_2L_Lg_ms^5 + s^4\left(C_2C_LL_1L_LR_2g_m + C_2C_LL_1L_L + C_2C_LL_2L_L\right) + s^3\left(C_2C_LL_LR_2 + C_2L_1L_2g_m + C_LL_1L_Lg_m\right) + s^2\left(C_2L_1R_2g_m + C_2L_1 + C_2L_2 + C_2L_L + C_LL_L\right) + s\left(C_2R_2 + L_1g_m\right) + 1}$ **10.112** INVALID-ORDER-112 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_2C_LL_1L_2L_Lg_ms^4 + L_1g_m + s^3\left(C_2C_LL_1L_2R_Lg_m + C_2C_LL_1L_LR_2g_m + C_2C_LL_1L_L\right) + s^2\left(C_2C_LL_1R_2R_Lg_m + C_2C_LL_1R_L + C_2L_1L_2g_m + C_LL_1L_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1L_2R_Lg_m + C_2L_1L_2R_Lg_m + C_2L_1L_2R_Lg_m + C_2L_1L_2R_Lg_m + C_2L_1R_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1L_2R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1R_Lg_m\right) +$ **10.113** INVALID-ORDER-113 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_2L_1L_2L_LR_Lg_ms^4 + L_1L_LR_Lg_ms^2 + s^3\left(C_2L_1L_LR_2R_Lg_m + C_2L_1L_LR_L\right)}{C_2C_LL_1L_2L_LR_Lg_ms^5 + R_L + s^4\left(C_2C_LL_1L_LR_2R_Lg_m + C_2C_LL_1L_LR_L + C_2L_1L_LR_Lg_m\right) + s^3\left(C_2C_LL_LR_2R_L + C_2L_1L_LR_2R_Lg_m + C_2L_1L_LR_Lg_m\right) + s^3\left(C_2C_LL_LR_2R_L + C_2L_1L_LR_2R_Lg_m + C_2L_1L_LR_Lg_m\right) + s^3\left(C_2C_LL_LR_2R_Lg_m + C_2L_LR_Lg_m\right) + s^3\left(C_2C_LL_LR_2R_Lg_m + C_2L_LR_Lg_m\right) + s^3\left(C_2C_LL_LR_2R_Lg_m + C_2L_LR_Lg_m\right) + s^3\left(C_2C_LR_2R_Lg_m + C_2L_LR_Lg_m\right) + s^3\left(C_2C_LR_2R_Lg_m + C_2L_LR_Lg_m\right) + s^3\left$ **10.114** INVALID-ORDER-114 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ $H(s) = \frac{C_2C_LL_1L_2L_LR_Lg_ms^5 + L_1R_Lg_ms + s^4\left(C_2C_LL_1L_LR_2R_Lg_m + C_2C_LL_1L_LR_L + C_2L_1L_2L_g_m\right) + s^3\left(C_2L_1L_2R_Lg_m + C_2L_1L_LR_2g_m + C_2L_1L_L + C_LL_1L_LR_2g_m\right) + s^2\left(C_2L_1R_2R_Lg_m + C_2L_1L_LR_2g_m + C_2L_1L_LR_2g_m\right) + s^2\left(C_2L_1R_2R_Lg_m + C_2L_1L_LR_2g_m\right) + s^2\left(C_2L_1R_2g_m + C_2L_1L_LR_2g_m\right) + s^2\left(C_2L_1R_2g_m + C_2L_1L_LR_2g_m\right) + s^2\left(C_2L_1R_2g_m + C_2L_1L_LR_2g_m\right) + s^2\left(C_2L_1R_2g_m + C_2L_1R_2g_m\right) + s^2\left(C_2L_1R_2g_m\right) + s^2\left(C_2L_1R_2g_m\right) + s^2\left(C_2L_1R_2g_m\right) + s^2\left($ 10.115 INVALID-ORDER-115 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_2C_LL_1L_2L_Rg_ms^5 + L_1R_Lg_ms + s^4\left(C_2C_LL_1L_LR_2g_m + C_2C_LL_1L_LR_Lg_m + C_LL_1L_Rg_m + s^2\left(C_2L_1R_2R_Lg_m + C_2L_1R_Lg_m + C_2L_1R_$ **10.116** INVALID-ORDER-116 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)$ $H(s) = \frac{L_1 L_2 R_L g_m s^2 + s^3 \left(C_2 L_1 L_2 R_2 R_L g_m + C_2 L_1 L_2 R_L \right) + s \left(L_1 R_2 R_L g_m + L_1 R_L \right)}{R_2 + R_L + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 \right) + s^2 \left(C_2 L_2 R_2 + C_2 L_2 R_L + L_1 L_2 g_m \right) + s \left(L_1 R_2 g_m + L_1 + L_2 \right)}$ **10.117** INVALID-ORDER-117 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{L_{1}L_{2}g_{m}s^{2} + s^{3}\left(C_{2}L_{1}L_{2}R_{2}g_{m} + C_{2}L_{1}L_{2}\right) + s\left(L_{1}R_{2}g_{m} + L_{1}\right)}{C_{L}R_{2}s + s^{4}\left(C_{2}C_{L}L_{1}L_{2}R_{2}g_{m} + C_{2}C_{L}L_{1}L_{2}\right) + s^{3}\left(C_{2}C_{L}L_{2}R_{2} + C_{L}L_{1}L_{2}g_{m}\right) + s^{2}\left(C_{2}L_{2} + C_{L}L_{1}R_{2}g_{m} + C_{L}L_{1} + C_{L}L_{2}\right) + 1}$ **10.118** INVALID-ORDER-118 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{L_1 L_2 R_L g_m s^2 + s^3 \left(C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L \right) + s \left(L_1 R_2 R_L g_m + L_1 R_L\right)}{R_2 + R_L + s^4 \left(C_2 C_L L_1 L_2 R_L g_m + C_2 C_L L_1 L_2 R_L\right) + s^3 \left(C_2 C_L L_2 R_2 R_L + C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L g_m\right) + s^2 \left(C_2 L_2 R_2 + C_2 L_2 R_L + C_L L_1 R_2 R_L g_m + C_L L_1 R_L + C_L L_2 R_L + L_1 L_2 g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 g_m + L_1 + L_2 R_L g_m + C_L L_1 R_L + C_L L_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 L_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s \left(C_L R_2 R_L + L_1 R_2 R_L g_m\right) + s$

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10.119 INVALID-ORDER-119 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                               H(s) = \frac{s^4 \left(C_2 C_L L_1 L_2 R_2 R_L g_m + C_2 C_L L_1 L_2 R_L\right) + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_L L_1 L_2 R_L g_m\right) + s^2 \left(C_L L_1 R_2 R_L g_m + C_L L_1 R_L + L_1 L_2 g_m\right) + s \left(L_1 R_2 g_m + L_1\right)}{s^4 \left(C_2 C_L L_1 L_2 R_2 g_m + C_2 C_L L_1 L_2\right) + s^3 \left(C_2 C_L L_2 R_2 + C_2 C_L L_2 R_L + C_L L_1 L_2 g_m\right) + s^2 \left(C_2 L_2 + C_L L_1 R_2 g_m + C_L L_1 + C_L L_2\right) + s \left(C_L R_2 + C_L R_L\right) + 1}
10.120 INVALID-ORDER-120 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                  H(s) = \frac{C_L L_1 L_2 L_L g_m s^4 + L_1 L_2 g_m s^2 + s^5 \left(C_2 C_L L_1 L_2 L_L R_2 g_m + C_2 C_L L_1 L_2 L_L\right) + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_L L_1 L_2 R_2 g_m + C_L L_1 L_L\right) + s \left(L_1 R_2 g_m + L_1\right)}{C_L R_2 s + s^4 \left(C_2 C_L L_1 L_2 R_2 g_m + C_2 C_L L_1 L_2 + C_2 C_L L_1 L_2\right) + s^3 \left(C_2 C_L L_2 R_2 + C_L L_1 L_2 g_m\right) + s^2 \left(C_2 L_2 + C_L L_1 R_2 g_m + C_L L_1 + C_L L_2 + C_L L_1\right) + 1}
10.121 INVALID-ORDER-121 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                H(s) = \frac{L_{1}L_{2}L_{L}g_{m}s^{3} + s^{4}\left(C_{2}L_{1}L_{2}L_{L}R_{2}g_{m} + C_{2}L_{1}L_{2}L_{L}\right) + s^{2}\left(L_{1}L_{L}R_{2}g_{m} + L_{1}L_{L}\right)}{R_{2} + s^{5}\left(C_{2}C_{L}L_{1}L_{2}L_{L}\right) + s^{4}\left(C_{2}C_{L}L_{2}L_{L}R_{2} + C_{L}L_{1}L_{2}L_{L}g_{m}\right) + s^{3}\left(C_{2}L_{1}L_{2}R_{2}g_{m} + C_{2}L_{1}L_{2} + C_{L}L_{1}L_{L}R_{2}g_{m} + C_{L}L_{1}L_{L} + C_{L}L_{2}L_{L}\right) + s^{2}\left(C_{2}L_{2}R_{2} + C_{L}L_{1}L_{2}R_{2}g_{m} + C_{1}L_{1}L_{2}R_{2}g_{m} + C_{1}L_{1}L_{2}L_{L}\right) + s^{2}\left(C_{2}L_{2}R_{2} + C_{L}L_{1}L_{2}R_{2}g_{m} + C_{1}L_{1}L_{2}L_{L}\right) + s^{2}\left(C_{2}L_{2}R_{2} + C_{L}L_{1}L_{2}L_{L}\right) + s^{2}\left(C_{2}L_{2}L_{2}R_{2} + C_{L}L_{1}L_{2}L_{L}\right) + s^{2}\left(C_{2}L_{2}R_{2} + C_{L}L_{1}L_{2}L_{L}\right) + s^{2}\left(C_{2}L_{2}L_{2}L_{2}\right) + s^{2}\left(C_{2}L_{2}L_{2}L_{2}\right) + s^{2}\left(C_{2}L_{2}L_{2}L_{2}\right) + s^{2}\left(C_{2}L_{2}L_{2}L_{2}\right) + s^{2}\left(C_{2}L_{2}L_{2}L_{2}\right) + s^{2}\left(C_{2}L_{2}L_{
10.122 INVALID-ORDER-122 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                 H(s) = \frac{s^{5} \left(C_{2} C_{L} L_{1} L_{2} L_{L} R_{2} g_{m} + C_{2} C_{L} L_{1} L_{2} L_{L}\right) + s^{4} \left(C_{2} C_{L} L_{1} L_{2} R_{L} g_{m} + C_{2} C_{L} L_{1} L_{2} R_{L} g_{m} + C_{L} L_{1} L_{2} L_{L} g_{m}\right) + s^{3} \left(C_{2} L_{1} L_{2} R_{L} g_{m} + C_{L} L_{1} L_{2} R_{L} g_{m} + C_{L} L_{1} L_{2} R_{L} g_{m} + C_{L} L_{1} L_{L}\right) + s^{2} \left(C_{L} L_{1} R_{2} R_{L} g_{m} + C_{L} L_{1} L_{2} R_{L} g_{m} + C
10.123 INVALID-ORDER-123 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   L_{1}L_{2}L_{L}R_{L}g_{m}s^{3} + s^{4}\left(C_{2}L_{1}L_{2}L_{L}R_{2}R_{L}g_{m} + C_{2}L_{1}L_{2}L_{L}R_{L}\right) + s^{2}\left(L_{1}L_{L}R_{2}R_{L}g_{m} + L_{1}L_{L}R_{L}\right)
H(s) = \frac{L_1 L_2 L_L R_L g_m s^{-} + s^{-} (C_2 L_1 L_2 L_L R_2 R_L g_m + C_2 L_1 L_2 L_L R_1 L_1 + s^{-} (L_1 L_L R_2 R_L g_m + L_2 L_L R_2 R_L g_m + L
10.124 INVALID-ORDER-124 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.125 INVALID-ORDER-125 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_1 L_2 L_L R_L g_m s^2 + s^5 \left(C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_2 C_L L_1 L_2 L_L R_L\right) + s^3 \left(C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L + C_L L_1 L_L R_2 R_L g_m + C_L R_2
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$$\mathbf{10.126} \quad \mathbf{INVALID\text{-}ORDER\text{-}126} \ Z(s) = \left(L_1 s, \ \frac{R_2 \left(C_2 L_2 L_1 L_2 R_L g_m + C_2 C_L L_1 L_2 R_L g_m + C_2 C_L L_2 L_1 R_2 + C_2 C_L L_2 L_2 R_2 R_L + C_2 L_1 L_2 R_2 g_m + C_2 L_2$$

10.126 IN VALID-ORDER-126
$$Z(s) = \left(L_1 s, \frac{C_2 L_2 s^2 + C_2 R_2 s + 1}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L\right)$$

$$H(s) = \frac{C_2 L_1 R_2 R_L s^2 + s^3 \left(C_2 L_1 L_2 R_2 R_L g_m + C_2 L_1 L_2 R_L\right) + s \left(L_1 R_2 R_L g_m + L_1 R_L\right)}{R_2 + R_L + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2\right) + s^2 \left(C_2 L_1 R_2 + C_2 L_2 R_2 + C_2 L_2 R_L\right) + s \left(C_2 R_2 R_L + L_1 R_2 g_m + L_1\right)}$$

$$\begin{aligned} \textbf{10.127} \quad \textbf{INVALID-ORDER-127} \ Z(s) &= \left(L_1 s, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s} \right) \\ & H(s) &= \frac{C_2 L_1 R_2 s^2 + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^4 \left(C_2 C_L L_1 L_2 R_2 g_m + C_2 C_L L_1 L_2 \right) + s^3 \left(C_2 C_L L_1 R_2 + C_2 C_L L_2 R_2 \right) + s^2 \left(C_2 L_2 + C_L L_1 R_2 g_m + C_L L_1 \right) + s \left(C_2 R_2 + C_L R_2 \right) + 1} \end{aligned}$$

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10.128 INVALID-ORDER-128 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                 H(s) = \frac{C_2L_1R_2R_Ls^2 + s^3\left(C_2L_1L_2R_2R_Lg_m + C_2L_1L_2R_L\right) + s\left(L_1R_2R_Lg_m + L_1R_L\right)}{R_2 + R_L + s^4\left(C_2C_LL_1L_2R_2g_m + C_2C_LL_1L_2R_L\right) + s^3\left(C_2C_LL_1R_2R_L + C_2L_1L_2R_2g_m + C_2L_1L_2\right) + s^2\left(C_2L_1R_2 + C_2L_2R_2 + C_2L_2R_L + C_LL_1R_2R_Lg_m + C_LL_1R_L\right) + s\left(C_2R_2R_L + C_LR_2R_L + C_LR_
10.129 INVALID-ORDER-129 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                               H(s) = \frac{s^4 \left(C_2 C_L L_1 L_2 R_2 R_L g_m + C_2 C_L L_1 L_2 R_L\right) + s^3 \left(C_2 C_L L_1 R_2 R_L + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2\right) + s^2 \left(C_2 L_1 R_2 + C_L L_1 R_2 R_L g_m + C_L L_1 R_L\right) + s \left(L_1 R_2 g_m + L_1\right)}{s^4 \left(C_2 C_L L_1 L_2 R_2 g_m + C_2 C_L L_1 L_2\right) + s^3 \left(C_2 C_L L_1 R_2 + C_2 C_L L_2 R_2 + C_2 C_L L_2 R_L\right) + s^2 \left(C_2 C_L R_2 R_L + C_2 L_1 R_2 g_m + C_L L_1\right) + s \left(C_2 R_2 + C_L R_2 + C_L L_1 R_2 g_m + C_L L_1\right) + s \left(C_2 R_2 + C_L R_2 + C_L R_2\right) + s^2 \left(C_2 R_2 R_L + C_2 R_2 R_L + C_2 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_2 R_2 R_L + C_2 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_2 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_2 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_2 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_2 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_2 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_2 R_2 R_L\right) + s \left(C_
10.130 INVALID-ORDER-130 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                               H(s) = \frac{C_2C_LL_1L_LR_2s^4 + C_2L_1R_2s^2 + s^5\left(C_2C_LL_1L_2L_LR_2g_m + C_2C_LL_1L_2L_L\right) + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2 + C_LL_1L_LR_2g_m + C_LL_1L_L\right) + s\left(L_1R_2g_m + L_1\right)}{s^4\left(C_2C_LL_1L_2R_2g_m + C_2C_LL_1L_2 + C_2C_LL_2L_L\right) + s^3\left(C_2C_LL_1R_2 + C_2C_LL_2R_2 + C_2C_LL_2R_2\right) + s^2\left(C_2L_2 + C_LL_1R_2g_m + C_LL_1 + C_LL_1\right) + s\left(C_2R_2 + C_LR_2\right) + 1}
10.131 INVALID-ORDER-131 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                          H(s) = \frac{C_2L_1L_2R_2s^3 + s^4\left(C_2L_1L_2L_LR_2g_m + C_2L_1L_2L_L\right) + s^2\left(L_1L_LR_2g_m + L_1L_L\right)}{R_2 + s^5\left(C_2C_LL_1L_2L_LR_2g_m + C_2L_1L_2L_L\right) + s^4\left(C_2C_LL_1L_LR_2 + C_2L_LL_LR_2\right) + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_L + C_LL_1L_LR_2g_m + C_LL_1L_L\right) + s^2\left(C_2L_1R_2 + C_2L_2R_2 + C_2L_1R_2 + C_LL_1R_2\right) + s\left(L_1R_2g_m + L_1L_L\right)}
10.132 INVALID-ORDER-132 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                       H(s) = \frac{s^5 \left(C_2 C_L L_1 L_2 L_L R_2 g_m + C_2 C_L L_1 L_2 L_L\right) + s^4 \left(C_2 C_L L_1 L_2 R_2 g_m + C_2 C_L L_1 L_2 R_L + C_2 C_L L_1 L_2 R_2 g_m + C_2 L_1 R_2 R_2 g_m + C_2
10.133 INVALID-ORDER-133 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_2L_1L_LR_2R_Ls^3 + s^4\left(C_2L_1L_2L_LR_2R_Lg_m + C_2L_1L_2L_LR_L\right) + s^2\left(L_1L_LR_2R_Lg_m + L_1L_LR_L\right)}{R_2R_L + s^5\left(C_2C_LL_1L_2L_LR_2R_Lg_m + C_2L_1L_2L_LR_2R_L + C_2L_1L_2R_L + C_2L_2R_L + C_2L_2R_L + C_2L_2R_L + C_2L_2R_L 
10.134 INVALID-ORDER-134 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
H(s) = \frac{s^5 \left(C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_2 C_L L_1 L_2 L_L R_2 \right) + s^4 \left(C_2 C_L L_1 L_L R_2 R_L + C_2 L_1 L_2 L_L R_2 g_m + C_2 L_1 L_2 R_L + C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 L_2 R_2 g_m + C_2 L_1 R_2 R_2 g_m + C_2 L_1 L_2 R_2 g_m + C_2 L_1 R_2 R_2 
10.135 INVALID-ORDER-135 Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \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)
                                              \frac{C_{2}C_{L}L_{1}L_{2}R_{2}S^{4}+C_{2}L_{1}R_{2}R_{L}s^{2}+s^{5}\left(C_{2}C_{L}L_{1}L_{2}L_{L}R_{2}R_{L}g_{m}+C_{2}L_{1}L_{
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10.136 INVALID-ORDER-136 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{R_2 R_L g_m + R_L}{R_2 g_m + s (C_1 R_2 + C_1 R_L) + 1}$$

10.137 INVALID-ORDER-137
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + 1}{C_1 C_L R_2 s^2 + s \left(C_1 + C_L R_2 g_m + C_L\right)}$$

10.138 INVALID-ORDER-138
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s \left(C_L R_2 R_L g_m + C_L R_L \right) + 1}{s^2 \left(C_1 C_L R_2 + C_1 C_L R_L \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.139 INVALID-ORDER-139
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_L L_L R_2 g_m + C_L L_L \right) + 1}{C_1 C_L L_L s^3 + C_1 C_L R_2 s^2 + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.140 INVALID-ORDER-140
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

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

10.141 INVALID-ORDER-141
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_L L_L R_2 g_m + C_L L_L \right) + s \left(C_L R_2 R_L g_m + C_L R_L \right) + 1}{C_1 C_L L_L s^3 + s^2 \left(C_1 C_L R_2 + C_1 C_L R_L \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.142 INVALID-ORDER-142
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.143 INVALID-ORDER-143
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

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

10.144 INVALID-ORDER-144
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^2 \left(C_L L_L R_2 R_L g_m + C_L L_L R_L \right)}{R_2 g_m + s^3 \left(C_1 C_L L_L R_2 + C_1 C_L L_L R_L \right) + s^2 \left(C_1 C_L R_2 R_L + C_L L_L R_2 g_m + C_L L_L \right) + s \left(C_1 R_2 + C_1 R_L + C_L R_2 R_L g_m + C_L R_L \right) + 1}$$

10.145 INVALID-ORDER-145 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

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

10.146 INVALID-ORDER-146
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

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

10.147 INVALID-ORDER-147
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

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

10.148 INVALID-ORDER-148
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

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

10.149 INVALID-ORDER-149
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.150 INVALID-ORDER-150
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.151 INVALID-ORDER-151
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_LR_Ls^3 + R_Lg_m + s^2\left(C_2L_L + C_LL_LR_Lg_m\right) + s\left(C_2R_L + L_Lg_m\right)}{C_1C_2C_LL_LR_Ls^4 + g_m + s^3\left(C_1C_2L_L + C_1C_LL_L + C_2C_LL_L\right) + s^2\left(C_1C_2R_L + C_LL_Lg_m\right) + s\left(C_1 + C_2\right)}$$

10.152 INVALID-ORDER-152
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

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

10.153 INVALID-ORDER-153 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 R_2 s + R_2 g_m + 1}{s^2 \left(C_1 C_2 R_2 + C_1 C_L R_2 + C_2 C_L R_2 \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.154 INVALID-ORDER-154 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LR_2R_Ls^2 + R_2g_m + s\left(C_2R_2 + C_LR_2R_Lg_m + C_LR_L\right) + 1}{C_1C_2C_LR_2R_Ls^3 + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_1C_LR_L + C_2C_LR_2\right) + s\left(C_1 + C_LR_2g_m + C_L\right)}$$

10.155 INVALID-ORDER-155 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_LR_2s^3 + C_2R_2s + R_2g_m + s^2\left(C_LL_LR_2g_m + C_LL_L\right) + 1}{C_1C_2C_LL_LR_2s^4 + C_1C_LL_Ls^3 + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_2C_LR_2\right) + s\left(C_1 + C_LR_2g_m + C_L\right)}$$

10.156 INVALID-ORDER-156 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_2 L_L R_2 s^2 + s \left(L_L R_2 g_m + L_L\right)}{R_2 g_m + s^3 \left(C_1 C_2 L_L R_2 + C_1 C_L L_L R_2 + C_2 C_L L_L R_2\right) + s^2 \left(C_1 L_L + C_L L_L R_2 g_m + C_L L_L\right) + s \left(C_1 R_2 + C_2 R_2\right) + 1}$$

$$\begin{aligned} \textbf{10.157} \quad \textbf{INVALID-ORDER-157} \ \ Z(s) &= \left(\frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right) \\ & H(s) &= \frac{C_2 C_L L_L R_2 s^3 + R_2 g_m + s^2 \left(C_2 C_L R_2 R_L + C_L L_L R_2 g_m + C_L L_L\right) + s \left(C_2 R_2 + C_L R_2 R_L g_m + C_L R_L\right) + 1}{C_1 C_2 C_L L_L R_2 s^4 + s^3 \left(C_1 C_2 C_L R_2 R_L + C_1 C_L L_L\right) + s^2 \left(C_1 C_2 R_2 + C_1 C_L R_2 + C_1 C_L R_L\right) + s \left(C_1 R_2 + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 C_L R_L\right) + s \left(C_1 R_2 R_L + C_1 R_L\right) + s \left(C_1 R_2 R_L\right)$$

10.158 INVALID-ORDER-158
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.159 INVALID-ORDER-159
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_LR_2R_Ls^3 + R_2R_Lg_m + R_L + s^2\left(C_2L_LR_2 + C_LL_LR_2R_Lg_m + C_LL_LR_L\right) + s\left(C_2R_2R_L + L_LR_2g_m + L_L\right)}{C_1C_2C_LL_LR_2R_Ls^4 + R_2g_m + s^3\left(C_1C_2L_LR_2 + C_1C_LL_LR_2 + C_1C_LL_LR_2\right) + s^2\left(C_1C_2R_2R_L + C_1L_L + C_LL_LR_2g_m + C_LL_L\right) + s\left(C_1R_2 + C_1R_L + C_2R_2\right) + 1}$$

10.160 INVALID-ORDER-160
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2C_LL_R_2R_Ls^3 + C_2R_2R_Ls + R_2R_Lg_m + R_L + s^2\left(C_LL_LR_2R_Lg_m + C_LL_LR_L\right)}{C_1C_2C_LL_LR_2R_Ls^4 + R_2g_m + s^3\left(C_1C_LL_LR_2 + C_1C_LL_LR_L + C_2C_LL_LR_2\right) + s^2\left(C_1C_2R_2R_L + C_1C_LR_2R_L + C_2C_LR_2R_L + C_LL_LR_2g_m + C_LL_L\right) + s\left(C_1R_2 + C_1R_L + C_2R_2 + C_LR_2R_Lg_m + C_LR_L\right) + 1}$$

10.161 INVALID-ORDER-161 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

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

10.162 INVALID-ORDER-162 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

10.163 INVALID-ORDER-163 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.164 INVALID-ORDER-164 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

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

10.165 INVALID-ORDER-165 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.166 INVALID-ORDER-166 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

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

10.167 INVALID-ORDER-167
$$Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.168 INVALID-ORDER-168
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

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

10.169 INVALID-ORDER-169
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

10.170 INVALID-ORDER-170 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 L_2 R_L g_m s^2 + C_2 R_L s + R_L g_m}{C_1 C_2 L_2 s^3 + g_m + s^2 \left(C_1 C_2 R_L + C_2 L_2 g_m \right) + s \left(C_1 + C_2 \right)}$$

10.171 INVALID-ORDER-171 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 L_2 g_m s^2 + C_2 s + g_m}{C_1 C_2 C_L L_2 s^4 + C_2 C_L L_2 g_m s^3 + C_L g_m s + s^2 (C_1 C_2 + C_1 C_L + C_2 C_L)}$$

10.172 INVALID-ORDER-172 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2 L_2 R_L g_m s^2 + C_2 R_L s + R_L g_m}{C_1 C_2 C_L L_2 R_L s^4 + g_m + s^3 \left(C_1 C_2 L_2 + C_2 C_L L_2 R_L g_m \right) + s^2 \left(C_1 C_2 R_L + C_1 C_L R_L + C_2 C_L R_L + C_2 L_2 g_m \right) + s \left(C_1 + C_2 + C_L R_L g_m \right) + s \left(C_1 + C$$

10.173 INVALID-ORDER-173 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_2R_Lg_ms^3 + g_m + s^2\left(C_2C_LR_L + C_2L_2g_m\right) + s\left(C_2 + C_LR_Lg_m\right)}{C_1C_2C_LL_2s^4 + C_Lg_ms + s^3\left(C_1C_2C_LR_L + C_2C_LL_2g_m\right) + s^2\left(C_1C_2 + C_1C_L + C_2C_L\right)}$$

10.174 INVALID-ORDER-174 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L L_2 L_L g_m s^4 + C_2 C_L L_L s^3 + C_2 s + g_m + s^2 \left(C_2 L_2 g_m + C_L L_L g_m \right)}{C_2 C_L L_2 g_m s^3 + C_L g_m s + s^4 \left(C_1 C_2 C_L L_2 + C_1 C_2 C_L L_L \right) + s^2 \left(C_1 C_2 + C_1 C_L + C_2 C_L \right)}$$

10.175 INVALID-ORDER-175 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_2L_2L_Lg_ms^3 + C_2L_Ls^2 + L_Lg_ms}{C_1C_2C_LL_2L_Ls^5 + C_2C_LL_2L_Lg_ms^4 + g_m + s^3\left(C_1C_2L_2 + C_1C_2L_L + C_1C_LL_L + C_2C_LL_L\right) + s^2\left(C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1 + C_2\right)}$$

$$\textbf{10.176} \quad \textbf{INVALID-ORDER-176} \ Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2 C_L L_2 L_L g_m s^4 + g_m + s^3 \left(C_2 C_L L_2 R_L g_m + C_2 C_L L_L\right) + s^2 \left(C_2 C_L R_L + C_2 L_2 g_m + C_L L_L g_m\right) + s \left(C_2 + C_L R_L g_m\right) }{C_L g_m s + s^4 \left(C_1 C_2 C_L L_2 + C_1 C_2 C_L L_L\right) + s^3 \left(C_1 C_2 C_L L_2 G_m\right) + s^2 \left(C_1 C_2 + C_1 C_L + C_2 C_L\right) }$$

10.177 INVALID-ORDER-177 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.178 INVALID-ORDER-178 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{C_2C_LL_2L_LR_Lg_ms^4 + R_Lg_m + s^3\left(C_2C_LL_LR_L + C_2L_2L_Lg_m\right) + s^2\left(C_2L_2R_Lg_m + C_2L_L + C_LL_LR_Lg_m\right) + s\left(C_2R_L + L_Lg_m\right)}{C_1C_2C_LL_2L_Ls^5 + g_m + s^4\left(C_1C_2C_LL_LR_L + C_2C_LL_2L_Lg_m\right) + s^3\left(C_1C_2L_2 + C_1C_2L_L + C_1C_LL_L + C_2C_LL_L\right) + s^2\left(C_1C_2R_L + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1 + C_2C_LL_L\right) + s^2\left(C_1C_2R_L + C_2C_LL\right) + s^2\left(C_1C_2R_L + C_2C_LL\right)$$

10.179 INVALID-ORDER-179 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2C_LL_2L_LR_Lg_ms^4 + C_2C_LL_LR_Ls^3 + C_2R_Ls + R_Lg_m + s^2\left(C_2L_2R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_2C_LL_2L_Ls^5 + g_m + s^4\left(C_1C_2C_LL_2R_L + C_1C_2L_LR_L + C_2C_LL_2L_Lg_m\right) + s^3\left(C_1C_2L_2 + C_1C_LL_L + C_2C_LL_2R_Lg_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_2C_LR_L + C_2C_LR_L + C_2C_LR_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_2C_LR_L + C_2C_LR_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_2C_LR_L + C_2C_LR_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_2C_LR_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L\right) + s^2\left(C_1C_2R_L\right) + s^2\left(C_1C$$

10.180 INVALID-ORDER-180 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 L_2 R_L g_m s^2 + R_L g_m + s \left(C_2 R_2 R_L g_m + C_2 R_L \right)}{C_1 C_2 L_2 s^3 + g_m + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_L + C_2 L_2 g_m \right) + s \left(C_1 + C_2 R_2 g_m + C_2 \right)}$$

10.181 INVALID-ORDER-181 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 L_2 g_m s^2 + g_m + s \left(C_2 R_2 g_m + C_2\right)}{C_1 C_2 C_L L_2 s^4 + C_L g_m s + s^3 \left(C_1 C_2 C_L R_2 + C_2 C_L L_2 g_m\right) + s^2 \left(C_1 C_2 + C_1 C_L + C_2 C_L R_2 g_m + C_2 C_L\right)}$$

10.182 INVALID-ORDER-182 $Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2 L_2 R_L g_m s^2 + R_L g_m + s \left(C_2 R_2 R_L g_m + C_2 R_L\right)}{C_1 C_2 C_L L_2 R_L s^4 + g_m + s^3 \left(C_1 C_2 C_L R_2 R_L + C_1 C_2 L_2 + C_2 C_L L_2 R_L g_m\right) + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_L + C_1 C_L R_L + C_2 C_L R_2 R_L g_m + C_2 C_L R_L + C_2 C_L R_2 R_L g_m\right) + s \left(C_1 + C_2 R_2 g_m + C_2 + C_L R_L g_m\right)}$$

10.183 INVALID-ORDER-183 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_2R_Lg_ms^3 + g_m + s^2\left(C_2C_LR_2R_Lg_m + C_2C_LR_L + C_2L_2g_m\right) + s\left(C_2R_2g_m + C_2 + C_LR_Lg_m\right)}{C_1C_2C_LL_2s^4 + C_Lg_ms + s^3\left(C_1C_2C_LR_2 + C_1C_2C_LR_L + C_2C_LL_2g_m\right) + s^2\left(C_1C_2 + C_1C_L + C_2C_LR_2g_m + C_2C_L\right)}$$

10.184 INVALID-ORDER-184 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_2L_Lg_ms^4 + g_m + s^3\left(C_2C_LL_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_2R_2g_m + C_2\right)}{C_Lg_ms + s^4\left(C_1C_2C_LL_2 + C_1C_2C_LL_L\right) + s^3\left(C_1C_2C_LR_2 + C_2C_LL_2g_m\right) + s^2\left(C_1C_2 + C_1C_L + C_2C_LR_2g_m + C_2C_L\right)}$$

10.185 INVALID-ORDER-185 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_2L_2L_Lg_ms^3 + L_Lg_ms + s^2\left(C_2L_LR_2g_m + C_2L_L\right)}{C_1C_2C_LL_LL_s^5 + g_m + s^4\left(C_1C_2C_LL_LR_2 + C_2C_LL_Lg_m\right) + s^3\left(C_1C_2L_2 + C_1C_2L_L + C_1C_LL_L + C_2C_LL_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_2 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1 + C_2R_2g_m + C_2L_L\right)}$ **10.186** INVALID-ORDER-186 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_2C_LL_2L_Lg_ms^4 + g_m + s^3\left(C_2C_LL_2R_Lg_m + C_2C_LL_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_2C_LR_2R_Lg_m + C_2C_LR_L + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_2R_2g_m + C_2+C_LR_Lg_m\right) + s\left(C_2R_2g_$ 10.187 INVALID-ORDER-187 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_2 L_L R_L g_m s^3 + L_L R_L g_m s + s^2 \left(C_2 L_L R_2 R_L g_m + C_2 L_L R_L \right)}{C_1 C_2 C_L L_L L_L R_L s^5 + R_L g_m + s^4 \left(C_1 C_2 C_L L_L R_2 R_L + C_1 C_2 L_L R_L g_m \right) + s^3 \left(C_1 C_2 L_2 R_L + C_1 C_2 L_L R_2 + C_1 C_2 L_L R_L + C_2 C_L L_L R_$ 10.188 INVALID-ORDER-188 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ $H(s) = \frac{C_2C_LL_2L_LR_Lg_ms^4 + R_Lg_m + s^3\left(C_2C_LL_LR_2R_Lg_m + C_2C_LL_LR_L + C_2L_2L_Lg_m\right) + s^2\left(C_2L_2R_Lg_m + C_2L_LR_2g_m + C_2L_L + C_LL_LR_Lg_m\right) + s\left(C_2R_2R_Lg_m + C_2R_L + L_Lg_m\right)}{C_1C_2C_LL_LL_2S^5 + g_m + s^4\left(C_1C_2C_LL_LR_2 + C_1C_2L_LR_L + C_2C_LL_Lg_m\right) + s^3\left(C_1C_2L_2 + C_1C_2L_L + C_1C_LL_L + C_2C_LL_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_2 + C_1C_2R_L + C_2L_Lg_m\right) + s\left(C_1C_2R_L + C_2L_Lg_m\right) + s\left(C_1C_2R_L + C_2L_Lg_m\right) + s\left(C_1C_2R_L + C_2L_Lg_m\right) + s\left(C_1C_2R_L + C_2L_LR_2g_m + C_2L_L\right) + s^2\left(C_1C_2R_L + C_2L_LR_2g_m + C_2L_LR_2g_m\right) + s\left(C_1C_2R_L + C_2L_LR_2g_m\right) + s\left(C_1C_2R_LR_2g_m\right) + s\left(C_1C_2R_LR_2g_m\right) + s\left(C_1C_2R_2R_2g_m\right) + s\left(C_$ 10.189 INVALID-ORDER-189 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_2C_LL_2L_LR_2g_ms^4 + R_Lg_m + s^3\left(C_2C_LL_LR_2R_Lg_m + C_2C_LL_LR_L\right) + s^2\left(C_2L_2R_Lg_m + C_LL_LR_Lg_m\right) + s\left(C_2R_2R_Lg_m + C_2R_L\right)}{C_1C_2C_LL_2L_Ls^5 + g_m + s^4\left(C_1C_2C_LL_2R_L + C_1C_2C_LL_LR_2 + C_1C_2L_LR_L + C_2C_LL_LR_L + C_2C_LL_LR_2 + C_1C_LL_LR_2 + C_1C_LR_2 +$ **10.190** INVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)$ $H(s) = \frac{L_2 R_L g_m s + R_2 R_L g_m + R_L + s^2 \left(C_2 L_2 R_2 R_L g_m + C_2 L_2 R_L \right)}{R_2 g_m + s^3 \left(C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_L \right) + s^2 \left(C_1 L_2 + C_2 L_2 R_2 g_m + C_2 L_2 \right) + s \left(C_1 R_2 + C_1 R_L + L_2 g_m \right) + 1}$ 10.191 INVALID-ORDER-191 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$ $H(s) = \frac{L_2 g_m s + R_2 g_m + s^2 \left(C_2 L_2 R_2 g_m + C_2 L_2\right) + 1}{C_1 C_2 C_L L_2 R_2 s^4 + s^3 \left(C_1 C_2 L_2 + C_1 C_L L_2 + C_2 C_L L_2 R_2 g_m + C_2 C_L L_2\right) + s^2 \left(C_1 C_L R_2 + C_L L_2 g_m\right) + s \left(C_1 + C_L R_2 g_m + C_L\right)}$ 10.192 INVALID-ORDER-192 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{L_2 R_L g_m s + R_2 R_L g_m + R_L + s^2 \left(C_2 L_2 R_2 R_L g_m + C_2 L_2 R_L\right)}{C_1 C_2 C_L L_2 R_2 R_L s^4 + R_2 g_m + s^3 \left(C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_L + C_1 C_L L_2 R_L + C_2 C_L L_2 R_L g_m + C_2 C_L L_2 R_L\right) + s^2 \left(C_1 C_L R_2 R_L + C_1 L_2 + C_2 L_2 R_L g_m + C_2 L_2 R_L g_m$ **10.193** INVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_2 C_L L_2 R_L g_m + C_2 C_L L_2 R_L\right) + s^2 \left(C_2 L_2 R_2 g_m + C_2 L_2 + C_L L_2 R_L g_m\right) + s \left(C_L R_2 R_L g_m + C_L R_L + L_2 g_m\right) + 1}{s^4 \left(C_1 C_2 C_L L_2 R_2 + C_1 C_2 C_L L_2 R_L\right) + s^3 \left(C_1 C_2 L_2 + C_1 C_L L_2 R_L g_m + C_2 C_L L_2\right) + s^2 \left(C_1 C_L R_2 G_m + C_2 C_L L_2\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_L + C_L L_2 G_m\right) + s \left(C_1 C_L R_2 + C_1 C_L R_2 G_m + C_L R_L\right)}$$

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10.194 INVALID-ORDER-194 Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                   H(s) = \frac{C_L L_2 L_L g_m s^3 + L_2 g_m s + R_2 g_m + s^4 \left(C_2 C_L L_2 L_L R_2 g_m + C_2 C_L L_2 L_L\right) + s^2 \left(C_2 L_2 R_2 g_m + C_2 L_2 + C_L L_L R_2 g_m + C_L L_L\right) + 1}{C_1 C_2 C_L L_2 L_L s^5 + C_1 C_2 C_L L_2 R_2 s^4 + s^3 \left(C_1 C_2 L_2 + C_1 C_L L_2 + C_1 C_L L_2 + C_2 C_L L_2 R_2 g_m + C_2 C_L L_2\right) + s^2 \left(C_1 C_L R_2 + C_L L_2 g_m\right) + s \left(C_1 + C_L R_2 g_m + C_L L_2\right)}
10.195 INVALID-ORDER-195 Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                    H(s) = \frac{L_2 L_L g_m s^2 + s^3 \left( C_2 L_2 L_L R_2 g_m + C_2 L_2 L_L \right) + s \left( L_L R_2 g_m + L_L \right)}{C_1 C_2 C_L L_2 L_L R_2 s^5 + R_2 g_m + s^4 \left( C_1 C_2 L_2 L_L + C_1 C_L L_2 L_L R_2 g_m + C_2 C_L L_2 L_L \right) + s^3 \left( C_1 C_2 L_2 R_2 + C_1 C_L L_L R_2 + C_L L_2 L_L g_m \right) + s^2 \left( C_1 L_2 + C_1 L_L + C_2 L_2 R_2 g_m + C_2 L_2 + C_L L_L R_2 g_m + C_L L_L \right) + s \left( C_1 R_2 + L_2 R_2 g_m + C_2 L_2 L_L R_2 g_m + C_2
10.196 INVALID-ORDER-196 Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                             H(s) = \frac{R_2 g_m + s^4 \left(C_2 C_L L_2 L_L R_2 g_m + C_2 C_L L_2 L_L\right) + s^3 \left(C_2 C_L L_2 R_L g_m + C_2 C_L L_2 R_L + C_L L_2 L_L g_m\right) + s^2 \left(C_2 L_2 R_2 g_m + C_2 L_2 + C_L L_2 R_L g_m + C_L L_L R_2 g_m + C_L L_L\right) + s \left(C_L R_2 R_L g_m + C_L R_L + L_2 g_m\right) + 1}{C_1 C_2 C_L L_2 L_L s^5 + s^4 \left(C_1 C_2 C_L L_2 R_2 + C_1 C_2 C_L L_2 R_L\right) + s^3 \left(C_1 C_2 L_2 + C_1 C_L L_2 + C_1 C_L L_2 + C_1 C_L L_2 + C_2 C_L L_2\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_2 + C_1 C_L R_2 + C_1 C_L R_2\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_2 + C_1 C_L R_2\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_2\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_2\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_2\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_2\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_2\right) + s^2 \left(C_1 C_L R_2\right) + s^2 \left(C_
10.197 INVALID-ORDER-197 Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{L_2L_LR_Lg_ms^2 + s^3\left(C_2L_2L_LR_2R_Lg_m + C_2L_2L_LR_L\right) + s\left(L_LR_2R_Lg_m + L_LR_L\right)}{C_1C_2C_LL_2L_LR_2R_Lg_m + R_L + s^4\left(C_1C_2L_2L_LR_2 + C_1C_2L_2L_LR_L + C_2C_LL_2L_LR_L\right) + s^3\left(C_1C_2L_2R_LR_L + C_1L_LL_RR_L + C_1L_LR_LR_L + C_2C_LL_LR_L\right) + s^3\left(C_1C_2L_2R_LR_L + C_1L_LR_LR_L + C_1L_LR_LR_L + C_1L_LR_LR_L + C_1L_LR_LR_L\right) + s^3\left(C_1C_2L_2R_LR_L + C_1L_LR_LR_L + C_1L_LR_LR_L + C_1L_LR_LR_L + C_1L_LR_LR_L + C_1L_LR_LR_L + C_1L_LR_LR_L + C_1L_LR_L + 
10.198 INVALID-ORDER-198 Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
H(s) = \frac{R_2 R_L g_m + R_L + s^4 \left(C_2 C_L L_2 L_L R_2 g_m + C_2 C_L L_2 L_L R_2 g_m + C_2 L_2 R_L R_2 g_m + C_2 R_L R_2 g_m + C_2 R_L R_2 g_m + C_2 R_L R_2 R_L R_2 g_m + C_2 R_L R_2 R_L R
10.199 INVALID-ORDER-199 Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                         \frac{C_{L}L_{2}L_{L}R_{L}g_{m}s^{3}+L_{2}R_{L}g_{m}+R_{L}+s^{4}\left(C_{2}C_{L}L_{2}L_{L}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{2}L_{L}R_{L}\right)+s^{2}\left(C_{2}L_{2}R_{L}g_{m}+C_{2}L_{2}R_{L}+C_{L}L_{L}R_{2}R_{L}g_{m}+C_{2}L_{L}R_{L}R_{L}\right)+s^{2}\left(C_{2}L_{2}R_{L}R_{L}+C_{L}L_{L}R_{L}R_{L}+C_{L}L_{L}R_{L}R_{L}+C_{L}L_{L}R_{L}R_{L}+C_{L}L
10.200 INVALID-ORDER-200 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                                                  H(s) = \frac{C_2R_2R_Ls + R_2R_Lg_m + R_L + s^2\left(C_2L_2R_2R_Lg_m + C_2L_2R_L\right)}{R_2g_m + s^3\left(C_1C_2L_2R_2 + C_1C_2L_2R_L\right) + s^2\left(C_1C_2R_2R_L + C_2L_2R_2g_m + C_2L_2\right) + s\left(C_1R_2 + C_1R_L + C_2R_2\right) + 1}
10.201 INVALID-ORDER-201 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                 H(s) = \frac{C_2R_2s + R_2g_m + s^2\left(C_2L_2R_2g_m + C_2L_2\right) + 1}{C_1C_2C_LL_2R_2s^4 + s^3\left(C_1C_2L_2 + C_2C_LL_2R_2g_m + C_2C_LL_2\right) + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_2C_LR_2\right) + s\left(C_1 + C_LR_2g_m + C_L\right)}
10.202 INVALID-ORDER-202 Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
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 $H(s) = \frac{C_2R_2R_Ls + R_2R_Lg_m + R_L + s^2\left(C_2L_2R_2R_Lg_m + C_2L_2R_L\right)}{C_1C_2C_LL_2R_2R_Ls^4 + R_2g_m + s^3\left(C_1C_2L_2R_2 + C_1C_2L_2R_L + C_2C_LL_2R_L\right) + s^2\left(C_1C_2R_2R_L + C_1C_LR_2R_L + C_2C_LR_2R_L + C_2$

10.203 INVALID-ORDER-203
$$Z(s) = \left(\frac{1}{162}, \frac{h_1(C_1(L_2)^{2}+1)}{G_2L_2 + h_1(C_1(L_2)^{2} + h_2(L_2)} + g_1(L_2) +$$

10.210 INVALID-ORDER-210
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, R_L\right)$$

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

10.211 INVALID-ORDER-211
$$Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{R_1R_2g_m + R_1 + s^2\left(C_LL_LR_1R_2g_m + C_LL_LR_1\right)}{C_1C_LL_LR_1s^3 + s^2\left(C_1C_LR_1R_2 + C_LL_L\right) + s\left(C_1R_1 + C_LR_1R_2g_m + C_LR_1 + C_LR_2\right) + 1}$$

10.212 INVALID-ORDER-212
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

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

10.213 INVALID-ORDER-213
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_L L_L R_1 R_2 g_m + C_L L_L R_1 \right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_L \right)}{C_1 C_L L_L R_1 s^3 + s^2 \left(C_1 C_L R_1 R_2 + C_1 C_L R_1 R_L + C_L L_L \right) + s \left(C_1 R_1 + C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 + C_L R_L \right) + 1}$$

10.214 INVALID-ORDER-214
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.215 INVALID-ORDER-215
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

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

10.216 INVALID-ORDER-216
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

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

10.217 INVALID-ORDER-217 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

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

10.218 INVALID-ORDER-218 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LR_1R_Ls^2 + R_1g_m + s\left(C_2R_1 + C_LR_1R_Lg_m\right)}{C_1C_2C_LR_1R_Ls^3 + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1 + C_2C_LR_L\right) + s\left(C_2 + C_LR_1g_m + C_L\right)}$$

10.219 INVALID-ORDER-219 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L L_L R_1 s^3 + C_2 R_1 s + C_L L_L R_1 g_m s^2 + R_1 g_m}{C_1 C_2 C_L L_L R_1 s^4 + C_2 C_L L_L s^3 + s^2 \left(C_1 C_2 R_1 + C_1 C_L R_1 + C_2 C_L R_1 \right) + s \left(C_2 + C_L R_1 q_m + C_L \right)}$$

10.220 INVALID-ORDER-220 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_2 L_L R_1 s^2 + L_L R_1 g_m s}{R_1 g_m + s^3 \left(C_1 C_2 L_L R_1 + C_1 C_L L_L R_1 + C_2 C_L L_L R_1 \right) + s^2 \left(C_2 L_L + C_L L_L R_1 g_m + C_L L_L \right) + s \left(C_1 R_1 + C_2 R_1 \right) + 1}$$

10.221 INVALID-ORDER-221 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_LR_1s^3 + R_1g_m + s^2\left(C_2C_LR_1R_L + C_LL_LR_1g_m\right) + s\left(C_2R_1 + C_LR_1R_Lg_m\right)}{C_1C_2C_LL_LR_1s^4 + s^3\left(C_1C_2C_LR_1R_L + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1 + C_2C_LR_L\right) + s\left(C_2 + C_LR_1g_m + C_L\right)}$$

10.222 INVALID-ORDER-222
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.223 INVALID-ORDER-223
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_LR_1R_Ls^3 + R_1R_Lg_m + s^2\left(C_2L_LR_1 + C_LL_LR_1R_Lg_m\right) + s\left(C_2R_1R_L + L_LR_1g_m\right)}{C_1C_2C_LL_LR_1R_Ls^4 + R_1g_m + s^3\left(C_1C_2L_LR_1 + C_2L_LR_1 + C_2C_LL_LR_1\right) + s^2\left(C_1C_2R_1R_L + C_2L_LR_1g_m + C_LL_L\right) + s\left(C_1R_1 + C_2R_1 + C_2R_1\right) + 1}$$

10.224 INVALID-ORDER-224
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_2C_LL_LR_1R_Ls^3 + C_2R_1R_Ls + C_LL_LR_1R_Lg_ms^2 + R_1R_Lg_m}{C_1C_2C_LL_LR_1R_Ls^4 + R_1g_m + s^3\left(C_1C_LL_LR_1 + C_2C_LL_LR_1 + C_2C_LL_LR_L\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_L + C_2C_LR_1R_L + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_1R_1 + C_2R_1 + C_2R_1 + C_LR_1R_Lg_m + C_LR_L\right) + 1}$$

10.225 INVALID-ORDER-225
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LR_1R_2R_Ls^2 + R_1R_2g_m + R_1 + s\left(C_2R_1R_2 + C_LR_1R_2R_Lg_m + C_LR_1R_L\right)}{C_1C_2C_LR_1R_2R_Ls^3 + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_L + C_2C_LR_1R_2 + C_2C_LR_2R_L\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_2 + C_LR_L\right) + 1}$$

10.226 INVALID-ORDER-226
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LL_LR_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_LL_LR_1R_2g_m + C_LL_LR_1\right)}{C_1C_2C_LL_LR_1R_2s^4 + s^3\left(C_1C_LL_LR_1 + C_2C_LL_LR_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2 + C_2C_LR_1R_2 + C_LL_L\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_2\right) + 1}$$

10.227 INVALID-ORDER-227
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

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

10.228 INVALID-ORDER-228
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2C_LL_LR_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2C_LR_1R_2R_L + C_LL_LR_1R_2g_m + C_LL_LR_1\right) + s\left(C_2R_1R_2 + C_LR_1R_2R_Lg_m + C_LR_1R_2\right)}{C_1C_2C_LL_LR_1R_2s^4 + s^3\left(C_1C_2C_LR_1R_2R_L + C_1C_LL_LR_1 + C_2C_LR_1R_2 + C_1C_LR_1R_2 + C_2C_LR_1R_2 +$$

10.229 INVALID-ORDER-229
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_2L_LR_1R_2R_Ls^2 + s\left(L_LR_1R_2R_Lg_m + L_LR_1R_L\right)}{R_1R_2R_Lg_m + R_1R_L + R_2R_L + s^3\left(C_1C_2L_LR_1R_2R_L + C_2C_LL_LR_1R_2R_L\right) + s^2\left(C_1L_LR_1R_2 + C_2L_LR_1R_2 + C_2$$

10.230 INVALID-ORDER-230
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_2C_LL_RR_1R_2R_Ls^3 + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_2L_LR_1R_2 + C_LL_LR_1R_2R_Lg_m + C_LL_LR_1R_L\right) + s\left(C_2R_1R_2R_L + L_LR_1R_2g_m + L_LR_1\right)}{C_1C_2C_LL_RR_1R_2R_Ls^4 + R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_1C_2L_LR_1R_2 + C_1C_LL_RR_1R_2 + C_2C_LL_RR_2R_L\right) + s^2\left(C_1C_2R_1R_2R_L + C_1L_LR_1 + C_2L_LR_1R_2 + C_LL_RR_1 + C_LL_RR_1 + C_LL_RR_1 + C_LL_RR_1 + C_LR_1 + C_LL_RR_1 + C_LR_1 + C_$$

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10.231 INVALID-ORDER-231 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
\frac{C_2C_LL_R_1R_2R_Ls^3 + C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^2(C_LL_LR_1R_2R_Lg_m + C_LL_LR_1R_L)}{C_1C_2C_LL_LR_1R_2R_Ls^4 + R_1R_2g_m + R_1 + R_2 + R_L + s^3(C_1C_LL_LR_1R_2 + C_2C_LL_LR_1R_2 + C_2C_LL_LR_1R_2 + C_2C_LL_LR_2R_L) + s^2(C_1C_2R_1R_2R_L + C_1C_LR_1R_2R_L + C_2C_LR_1R_2R_L + C_2C_LR_1R_2R_L
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10.233 INVALID-ORDER-233
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

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

10.234 INVALID-ORDER-234
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

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

10.235 INVALID-ORDER-235
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

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

10.236 INVALID-ORDER-236
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{L_L R_1 g_m s + s^2 \left(C_2 L_L R_1 R_2 g_m + C_2 L_L R_1 \right)}{C_1 C_2 C_L L_L R_1 R_2 s^4 + R_1 g_m + s^3 \left(C_1 C_2 L_L R_1 + C_2 C_L L_L R_1 R_2 g_m + C_2 C_L L_L R_1 + C_2 C_L L_L R_2 \right) + s^2 \left(C_1 C_2 R_1 R_2 + C_2 L_L + C_L L_L R_1 g_m + C_L L_L \right) + s \left(C_1 R_1 + C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 \right) + 1}$$

10.237 INVALID-ORDER-237
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.238 INVALID-ORDER-238
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.239 INVALID-ORDER-239
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

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

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10.240 INVALID-ORDER-240 Z(s) = \begin{pmatrix} R_1 \\ C_1R_1s+1 \end{pmatrix}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_LR_1R_2s^2+C_LR_2s^2+C_LR_2s^2+R_1R_Lg_m+s^2(C_2C_LL_LR_1R_2g_Lg_m+C_2C_LL_LR_1R_2g_m+C_2R_1R_L)}{C_LL_LR_1R_2g_m+s^2+R_1R_Lg_m+s^2(C_2C_LL_LR_1R_2g_Lg_m+C_2C_LL_LR_1R_2g_m+C_2R_1R_L)} + s(C_2R_1R_2R_2g_m+C_2R_1R_L) + s(C_2R_1R_2R_2g_m+C_2R_1R_L) + s(C_2R_1R_2g_Lg_m+C_2R_1R_L) + s(C_2R_1R_2R_2g_m+C_2R_1R_2g_m+C_2R_1R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2R_2g_m+C_2R_2g_m+C_2R_2g_
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$$\begin{aligned} \textbf{10.244} \quad \textbf{INVALID-ORDER-244} \ \ Z(s) &= \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right) \\ & H(s) &= \frac{C_2 C_L L_2 R_1 R_L g_m s^3 + R_1 g_m + s^2 \left(C_2 C_L R_1 R_L + C_2 L_2 R_1 g_m\right) + s \left(C_2 R_1 + C_L R_1 R_L g_m\right)}{C_1 C_2 C_L L_2 R_1 s^4 + s^3 \left(C_1 C_2 C_L R_1 R_L + C_2 C_L L_2 R_1 g_m + C_2 C_L L_2\right) + s^2 \left(C_1 C_2 R_1 + C_1 C_L R_1 + C_2 C_L R_1\right) + s \left(C_2 + C_L R_1 g_m + C_L\right)} \end{aligned}$$

$$\textbf{10.245} \quad \textbf{INVALID-ORDER-245} \ \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ L_2s + \frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right)$$

$$H(s) = \frac{C_2C_LL_2L_LR_1g_ms^4 + C_2C_LL_LR_1s^3 + C_2R_1s + R_1g_m + s^2\left(C_2L_2R_1g_m + C_LL_LR_1g_m\right)}{s^4\left(C_1C_2C_LL_2R_1 + C_1C_2C_LL_LR_1\right) + s^3\left(C_2C_LL_2R_1g_m + C_2C_LL_2 + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1\right) + s\left(C_2 + C_LR_1g_m + C_L\right)}$$

10.248 INVALID-ORDER-248
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_2L_2L_RR_1R_Lg_ms^3 + C_2L_LR_1R_Ls^2 + L_LR_1R_Lg_ms}{C_1C_2C_LL_2L_LR_1R_Ls^5 + R_1R_Lg_m + R_L + s^4\left(C_1C_2L_2L_LR_1R_Lg_m + C_2C_LL_2L_LR_1R_L + C_1C_2L_LR_1R_L + C_1C_LL_RR_1R_L + C_2C_LL_RR_1R_L + C_2C_LL_RR_$$

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H(s) = \frac{C_2C_LL_2L_LR_1R_Lg_ms^4 + C_2C_LL_LR_1R_Ls^3 + C_2R_1R_Ls + R_1R_Lg_m + s^2\left(C_2L_2R_1R_Lg_m + C_LL_LR_1R_Lg_m\right)}{C_1C_2C_LL_2L_LR_1s^5 + R_1g_m + s^4\left(C_1C_2C_LL_2R_1R_L + C_1C_LL_2R_1R_L + C_2C_LL_2R_1R_L + C_2C_LL
10.251 INVALID-ORDER-251 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                                                    H(s) = \frac{C_2L_2R_1R_Lg_ms^2 + R_1R_Lg_m + s\left(C_2R_1R_2R_Lg_m + C_2R_1R_L\right)}{C_1C_2L_2R_1s^3 + R_1g_m + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L + C_2L_2R_1g_m + C_2L_2\right) + s\left(C_1R_1 + C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_L\right) + 1}
10.252 INVALID-ORDER-252 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                   H(s) = \frac{C_2L_2R_1g_ms^2 + R_1g_m + s\left(C_2R_1R_2g_m + C_2R_1\right)}{C_1C_2C_LL_2R_1s^4 + s^3\left(C_1C_2C_LR_1R_2 + C_2C_LL_2R_1g_m + C_2C_LL_2\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1R_2g_m + C_2C_LR_1 + C_2C_LR_1\right) + s\left(C_2 + C_LR_1g_m + C_LR_1\right)}
10.253 INVALID-ORDER-253 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_2L_2R_1R_Lg_ms^2 + R_1R_Lg_m + s\left(C_2R_1R_2R_Lg_m + C_2R_1R_L\right)}{C_1C_2C_LL_2R_1R_Ls^4 + R_1g_m + s^3\left(C_1C_2C_LR_1R_2R_L + C_1C_2L_2R_1 + C_2C_LL_2R_1R_Lg_m + C_2C_LL_2R_1R_L + C_1C_LR_1R_L + C_2C_LR_1R_L + C_2C_LR_1R
10.254 INVALID-ORDER-254 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                              H(s) = \frac{C_2C_LL_2R_1R_Lg_ms^3 + R_1g_m + s^2\left(C_2C_LR_1R_2R_Lg_m + C_2C_LR_1R_L + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_LR_1R_Lg_m\right)}{C_1C_2C_LL_2R_1s^4 + s^3\left(C_1C_2C_LR_1R_2 + C_1C_2C_LR_1R_L + C_2C_LL_2R_1g_m + C_2C_LL_2\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1R_2g_m + C_2C_LR_1 + C_2C_LR_
10.255 INVALID-ORDER-255 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                         H(s) = \frac{C_2C_LL_2L_LR_1g_ms^4 + R_1g_m + s^3\left(C_2C_LL_LR_1R_2g_m + C_2C_LL_LR_1\right) + s^2\left(C_2L_2R_1g_m + C_LL_LR_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1\right)}{s^4\left(C_1C_2C_LL_2R_1 + C_1C_2C_LL_RR_1\right) + s^3\left(C_1C_2C_LR_1R_2 + C_2C_LL_RR_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1R_2g_m + C_2C_LR_1\right) + s\left(C_2R_1R_2g_m + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1 + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1\right) + s^2\left(C_1C_2R_1\right) + s^2\left(C_1C_2R_
10.256 INVALID-ORDER-256 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_2L_2L_R_1g_ms^3 + L_LR_1g_ms + s^2\left(C_2L_LR_1R_2g_m + C_2L_LR_1\right)}{C_1C_2C_LL_2L_R_1s^5 + R_1g_m + s^4\left(C_1C_2C_LL_LR_1R_2 + C_2C_LL_LR_1g_m + C_2C_LL_LR_1 + C_1C_LL_RR_1 + C_2C_LL_LR_1 + 
10.257 INVALID-ORDER-257 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                    H(s) = \frac{C_2C_LL_2L_LR_1g_ms^4 + R_1g_m + s^3\left(C_2C_LL_2R_1R_Lg_m + C_2C_LL_LR_1R_2g_m + C_2C_LL_LR_1\right) + s^2\left(C_2C_LR_1R_2R_Lg_m + C_2C_LR_1R_L + C_2L_2R_1g_m + C_LL_LR_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_2g_m + C_2R_1R_Lg_m + C_2R_1R_Lg_m\right)}{s^4\left(C_1C_2C_LL_2R_1 + C_1C_2C_LL_RR_1\right) + s^3\left(C_1C_2C_LR_1R_L + C_2C_LL_RR_1\right) + s^3\left(C_1C_2C_LR_1R_2 + C_2C_LR_1R_2 + C_2C_LL_RR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1R_2g_m + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_2R_1R_2 + C_1C_2R_1R_2\right) + s^2\left(C_1C_2R_1 + C_1C_2R_1 + C_1C_2R_1R_2\right) + s^2\left(C_1C_2R_1 + C_1C_2R_1R_2\right) + s^2\left(C_1C_2R_1R_2\right) + s^2\left(C_1C_2R_1 + C_1C_2R_1R_2\right) + s^2\left(C_1C_2R_1R_2\right) + s^2\left(C_1
10.258 INVALID-ORDER-258 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_2L_2L_LR_1R_Lg_ms^3 + L_LR_1R_Lg_ms + s^2(C_2L_LR_1)
H(s) = \frac{C_2 L_2 L_1 R_1 R_2 s^5 + R_1 R_L g_m + R_L + s^4 \left(C_1 C_2 C_L L_L R_1 R_2 R_L + C_1 C_2 L_L R_1 R_L g_m + C_2 C_L L_L R_1 R_2 R_L + C_1 C_2 L_L R_1 R_2 R_L + C_1 C_2 L_L R_1 R_L + C_2 C_L L_L R_1 R_L + C_2 C
10.259 INVALID-ORDER-259 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
                                              \frac{C_{2}C_{L}L_{2}L_{R}R_{L}g_{m}+s^{3}\left(C_{2}C_{L}L_{L}R_{1}R_{2}g_{m}+C_{2}C_{L}L_{L}R_{1}g_{m}\right)+s^{2}\left(C_{2}L_{2}R_{1}R_{L}g_{m}+C_{2}L_{L}R_{1}R_{2}g_{m}+C_{2}L_{L}R_{1}R_{L}g_{m}+s^{2}\left(C_{2}L_{2}R_{1}R_{L}g_{m}+C_{2}L_{L}R_{1}R_{L}g_{m}+C_{2}L_{L}R_{1}R_{L}g_{m}\right)+s^{2}\left(C_{2}L_{2}R_{1}R_{L}g_{m}+C_{2}L_{L}R_{1}R_{L}g_{m}+C_{2}L_{L}R_{1}R_{L}g_{m}+C_{2}L_{L}R_{1}R_{L}g_{m}+s^{2}\left(C_{2}L_{L}R_{1}R_{L}g_{m}+C_{2}L_{L}R_{1}R_
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10.250 INVALID-ORDER-250 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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10.260 INVALID-ORDER-260 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{C_2C_LL_2L_LR_1R_Lg_ms^4 + R_1R_Lg_m + s^3\left(C_2C_LL_LR_1R_2R_Lg_m + C_2C_LL_LR_1R_L\right) + s^2\left(C_2C_LL_2R_1R_Lg_m + s^4\left(C_1C_2C_LL_2R_1R_L + C_1C_2C_LL_LR_1R_L + C_2C_LL_LR_1R_L\right) + s^2\left(C_2C_LL_2R_1R_2R_L + C_1C_2L_LR_1R_L + C_2C_LL_LR_1R_L + C_2C_LL_LR_1R_L\right) + s^2\left(C_2C_LL_2R_1R_2R_L + C_1C_2L_LR_1R_L + C_2C_LL_LR_1R_L + C_2C_LL_LR_1R_L\right) + s^2\left(C_2C_LL_2R_1R_LR_1 + C_2C_LL_2R_1R_L + C_2C_LL_
10.261 INVALID-ORDER-261 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                 H(s) = \frac{L_2 R_1 R_L g_m s + R_1 R_2 R_L g_m + R_1 R_L + s^2 \left(C_2 L_2 R_1 R_2 R_L g_m + C_2 L_2 R_1 R_L\right)}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^3 \left(C_1 C_2 L_2 R_1 R_2 + C_1 C_2 L_2 R_1 R_L\right) + s^2 \left(C_1 L_2 R_1 + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_2 L_2 R_2 + C_2 L_2 R_L\right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_L + L_2 R_1 g_m + L_2\right)}
10.262 INVALID-ORDER-262 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                       H(s) = \frac{L_2 R_1 g_m s + R_1 R_2 g_m + R_1 + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1\right)}{C_1 C_2 C_L L_2 R_1 R_2 s^4 + s^3 \left(C_1 C_2 L_2 R_1 + C_1 C_L L_2 R_1 + C_2 C_L L_2 
10.263 INVALID-ORDER-263 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    L_2R_1R_Lg_ms + R_1R_2R_Lg_m + R_1R_L + s^2(C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L)
H(s) = \frac{L_2 R_1 R_L g_m s + R_1 R_2 R_L g_m + R_1 R_L + s^2 \left(C_2 L_2 R_1 R_2 R_L g_m + C_2 L_2 R_1 R_L\right)}{C_1 C_2 C_L L_2 R_1 R_2 R_L s^4 + R_1 R_2 g_m + R_1 + R_2 + R_L + s^3 \left(C_1 C_2 L_2 R_1 R_L + C_1 C_L L_2 R_1 R_L + C_2 C_L L_2 R_1 
10.264 INVALID-ORDER-264 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_L L_2 R_1 R_2 g_m + C_2 C_L L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_L g_m \right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_L + L_2 R_1 g_m \right)}{s^4 \left(C_1 C_2 C_L L_2 R_1 R_2 + C_1 C_L L_2 R_1 + C_2 C_L L_2 R_1 \right) + s^2 \left(C_1 C_L R_1 R_2 + C_1 C_L R_1 R_L + C_2 L_2 R_1 R_L + C_2 C_L L_2 R_1 \right) + s^2 \left(C_1 C_L R_1 R_2 + C_1 C_L R_1 R_L + C_2 C_L L_2 R_1 R_L \right) + s^2 \left(C_1 C_L R_1 R_2 + C_1 C_L R_1 R_L + C_2 C_L L_2 R_1 R_L \right) + s^2 \left(C_1 C_L R_1 R_2 + C_1 C_L R_1 R_L + C_2 C_L L_2 R_1 R_L \right) + s^2 \left(C_1 C_L R_1 R_2 + C_1 C_L R_1 R_L + C_2 C_L R_1 R_L \right) + s^2 \left(C_1 C_L R_1 R_2 + C_1 C_L R_1 R_2 + C_1 C_L R_1 R_L + C_2 C_L R_1 R_L \right) + s^2 \left(C_1 C_L R_1 R_1 R_1 + C_1 C_L R_1 R_1 + C_1 C_L R_1 R_1 R_L + C_2 C_L R_1 R_L + C_2
10.265 INVALID-ORDER-265 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_2 L_L R_1 g_m s^3 + L_2 R_1 g_m s + R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 g_m + C_2 C_L L_2 L_L R_1\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_L L_L R_1 R_2 g_m + C_L L_L R_1\right)}{C_1 C_2 C_L L_2 L_L R_1 s^5 + s^4 \left(C_1 C_2 L_L R_1 R_2 + C_2 C_L L_2 R_1 + C_1 C_L L_2 R_1 + C_1 C_L L_2 R_1 + C_1 C_L L_2 R_1 + C_2 C_L L_2 R_1 R_2 g_m + C_2 C_L L_2 R_1\right) + s^2 \left(C_1 C_L R_1 R_2 + C_2 L_2 R_1 R_2 R_1 R_2 R_1 + C_2 L_2 R_1 R_2 R_1 + C_2 L_2 R_1 R_2 R_1 + C_2 L_2 R_
10.266 INVALID-ORDER-266 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
10.267 INVALID-ORDER-267 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                     R_{1}R_{2}g_{m} + R_{1} + s^{4}\left(C_{2}C_{L}L_{2}L_{L}R_{1}R_{2}g_{m} + C_{2}C_{L}L_{2}L_{L}R_{1}\right) + s^{3}\left(C_{2}C_{L}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{L}L_{R}R_{1}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1} + C_{L}L_{R}R_{2}g_{m} + C_{L}L_{L}R_{1}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1} + C_{L}L_{R}R_{2}g_{m} + C_{L}L_{R}R_{1}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1} + C_{L}L_{R}R_{1}g_{m} + C_{L}L_{R}R_{1}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1} + C_{L}L_{R}R_{1}g_{m} + C_{L}L_{R}R_{1}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1}R_{2}g_{m} + C_{L}L_{R}R_{1}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1}R_{2}g_{m} + C_{L}L_{R}R_{1}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1}R_{2}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1}R_{2}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2}L_{2}R_{1}R_{2}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{1}R_{2}g_{m} + C_{2
10.268 INVALID-ORDER-268 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{L_2L_LR_1R_2R_Ls^5 + R_1R_2R_Lg_m + R_1R_L + R_2R_L + s^4\left(C_1C_2L_2L_LR_1R_2 + C_1C_2L_2L_LR_1R_L + C_2C_LL_2L_LR_1R_L + C_2C_LL_2L_RR_1R_L + C_2C_LL_2L_2R_1R_1R_L + C_2C_LL_2R_1R_1R_L + C_2C_LL_2R_1R_1R_1 + C_2C_LL_2R_1R_1R_1R_1 + C_2C_LL_2R_1R_1R_1 + C_2C_LL_2R_1R_1R_1 + C_2C_LL_2R_1R_1R_1 + C_2C_LL_2R_1R_1R_
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 $\frac{1}{R_{1}R_{2}g_{m}+R_{1}+R_{2}+R_{L}+s^{5}\left(C_{1}C_{2}C_{L}L_{2}L_{L}R_{1}R_{2}+C_{1}C_{L}L_$

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

10.269 INVALID-ORDER-269 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

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10.270 INVALID-ORDER-270 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{\frac{C_L L_2 L_L I \epsilon_1 I \epsilon_L g_m s}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 + C_1 C_2 L_L L_L R_1 R_2 R_L + C_1 C_L L_2 L_L R_1 + C_2 C_L L_2 
10.271 INVALID-ORDER-271 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty\right)
                                                                                                                                                                           H(s) = \frac{C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_L\right) + s^2\left(C_1C_2R_1R_2R_L + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_L\right) + s\left(C_1R_1R_2 + C_1R_1R_L + C_2R_1R_2 + C_2R_2R_L\right)}
10.272 INVALID-ORDER-272 Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                             H(s) = \frac{C_2R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1\right)}{C_1C_2C_LL_2R_1R_2s^4 + s^3\left(C_1C_2L_2R_1 + C_2C_LL_2R_1R_2g_m + C_2C_LL_2R_1 + C_2C_LL_2R_1
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10.273 INVALID-ORDER-273 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

10.274 INVALID-ORDER-274 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_L L_2 R_1 R_2 R_L g_m + C_2 C_L L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_2 g$

10.275 INVALID-ORDER-275 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_2C_LL_RR_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^4\left(C_2C_LL_2L_LR_1R_2g_m + C_2L_LR_1\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_LR_1R_2g_m + C_LL_LR_1\right)}{C_1C_2C_LL_2L_LR_1s^5 + s^4\left(C_1C_2C_LL_2R_1R_2 + C_1C_LL_RR_1R_2 + C_2C_LL_RR_1R_2 + C_2C_LR_1R_2 + C_2$

10.276 INVALID-ORDER-276 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_2L_LR_1R_2s^2 + s^3\left(C_2L_2L_LR_1R_2g_m + C_2L_2L_LR_1\right) + s\left(L_LR_1R_2g_m + L_LR_1\right)}{C_1C_2C_LL_2L_LR_1R_2s^5 + R_1R_2g_m + R_1 + R_2 + s^4\left(C_1C_2L_2L_LR_1 + C_2C_LL_2L_LR_1 + C_2C_LL_2L_LR_2\right) + s^3\left(C_1C_2L_2R_1R_2 + C_1C_2L_LR_1R_2 + C_2C_LL_LR_1R_2 + C_2C_LL_LR_$

10.277 INVALID-ORDER-277 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 g_m + C_2 C_L L_2 L_L R_1\right) + s^3 \left(C_2 C_L L_2 R_1 R_2 R_L + C_2 C_L L_L R_1 R_2\right) + s^2 \left(C_2 C_L R_1 R_2 R_L + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_2 R_L + C_2 C_L L_2 R_1$

10.278 INVALID-ORDER-278 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $C_2L_LR_1R_2R_Ls^2 + s^3(C_2L_2L_LR_1)$

 $H(s) = \frac{\sum_{L} \sum_{L} \sum$

10.279 INVALID-ORDER-279 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_2 C_L L_2 L_L R_1 R_2 R_L + C_2 L_2 L_L R_1 R_2 g_m + C_2 L_2 L_L$

10.280 INVALID-ORDER-280 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $I(s) = \frac{C_2C_LL_LR_1R_2R_Ls^2 + C_2R_1R_2R_Ls + R_1R_2R_L}{R_1R_2g_m + R_1 + R_2 + R_L + s^5\left(C_1C_2C_LL_2L_LR_1R_2 + C_1C_2C_LL_2L_RR_1R_2R_L + C_1C_2C_LL_2L_RR_1R_2R_L + C_2C_LL_2L_RR_1R_2g_m + C_2C_LL_2L_RR_1 + C_2C_LL_2L_2R_1 + C_2C_LL_2L_$

10.281 INVALID-ORDER-281 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{R_2 R_L g_m + R_L + s \left(C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L \right)}{R_2 g_m + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_L \right) + 1}$$

10.282 INVALID-ORDER-282 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_2 g_m + s \left(C_1 R_1 R_2 g_m + C_1 R_1 \right) + 1}{s^2 \left(C_1 C_L R_1 R_2 g_m + C_1 C_L R_1 + C_1 C_L R_2 \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.283 INVALID-ORDER-283 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_1 C_L R_1 R_2 R_L g_m + C_1 C_L R_1 R_L \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_L R_2 R_L g_m + C_L R_L \right) + 1}{s^2 \left(C_1 C_L R_1 R_2 g_m + C_1 C_L R_1 + C_1 C_L R_2 + C_1 C_L R_L \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.284 INVALID-ORDER-284 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_1 \right) + s^2 \left(C_L L_L R_2 g_m + C_L L_L \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 \right) + 1}{C_1 C_L L_L s^3 + s^2 \left(C_1 C_L R_1 R_2 g_m + C_1 C_L R_1 + C_1 C_L R_2 \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.285 INVALID-ORDER-285 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{s^2 \left(C_1 L_L R_1 R_2 g_m + C_1 L_L R_1 \right) + s \left(L_L R_2 g_m + L_L \right)}{R_2 g_m + s^3 \left(C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_1 + C_1 C_L L_L R_2 \right) + s^2 \left(C_1 L_L + C_L L_L R_2 g_m + C_L L_L \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 \right) + 1}$$

10.286 INVALID-ORDER-286 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_1\right) + s^2 \left(C_1 C_L R_1 R_2 R_L g_m + C_1 C_L R_1 R_L + C_L L_L R_2 g_m + C_L L_L\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_L R_2 R_L g_m + C_L R_L\right) + 1}{C_1 C_L L_L s^3 + s^2 \left(C_1 C_L R_1 R_2 g_m + C_1 C_L R_1 + C_1 C_L R_2 + C_1 C_L R_L\right) + s \left(C_1 + C_L R_2 g_m + C_L\right)}$$

10.287 INVALID-ORDER-287 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.288 INVALID-ORDER-288
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^3 \left(C_1 C_L L_L R_1 R_2 R_L g_m + C_1 C_L L_L R_1 R_L \right) + s^2 \left(C_1 L_L R_1 R_2 g_m + C_1 L_L R_1 + C_L L_L R_2 R_L g_m + C_L L_L R_L \right) + s \left(C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L + L_L R_2 g_m + L_L \right)}{R_2 g_m + s^3 \left(C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_1 + C_1 C_L L_L R_2 + C_1 C_L L_L R_L \right) + s^2 \left(C_1 L_L + C_L L_L R_2 g_m + C_L L_L \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_L \right) + 1}$$

10.289 INVALID-ORDER-289
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

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

10.290 INVALID-ORDER-290
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

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

10.291 INVALID-ORDER-291
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_2R_1R_Ls^2 + R_Lg_m + s\left(C_1R_1R_Lg_m + C_2R_L\right)}{C_1C_2C_LR_1R_Ls^3 + g_m + s^2\left(C_1C_2R_1 + C_1C_2R_L + C_1C_LR_1R_Lg_m + C_1C_LR_L + C_2C_LR_L\right) + s\left(C_1R_1g_m + C_1 + C_2 + C_LR_Lg_m\right)}$$

10.292 INVALID-ORDER-292
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

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

10.293 INVALID-ORDER-293
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_2C_LL_LR_1s^4 + g_m + s^3\left(C_1C_LL_LR_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2\right)}{C_1C_2C_LL_Ls^4 + C_1C_2C_LR_1s^3 + C_Lg_ms + s^2\left(C_1C_2 + C_1C_LR_1g_m + C_1C_L + C_2C_L\right)}$$

10.294 INVALID-ORDER-294
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1C_2L_LR_1s^3 + L_Lg_ms + s^2\left(C_1L_LR_1g_m + C_2L_L\right)}{C_1C_2C_LL_LR_1s^4 + g_m + s^3\left(C_1C_2L_L + C_1C_LL_LR_1g_m + C_1C_LL_L + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_1 + C_2C_LL_L\right)}$$

10.295 INVALID-ORDER-295
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.296 INVALID-ORDER-296
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_1C_2L_LR_1R_Ls^3 + L_LR_Lg_ms + s^2\left(C_1L_LR_1R_Lg_m + C_2L_LR_L\right)}{C_1C_2C_LL_LR_1R_Ls^4 + R_Lg_m + s^3\left(C_1C_2L_LR_1 + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_L\right) + s^2\left(C_1C_2R_1R_L + C_1L_LR_1g_m + C_1L_L + C_2L_LR_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_1R_L + C_2R_L + L_Lg_m\right)}$$

10.297 INVALID-ORDER-297 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ $H(s) = \frac{C_{1}C_{2}C_{L}L_{L}R_{1}R_{L}s^{4} + R_{L}g_{m} + s^{3}\left(C_{1}C_{2}L_{L}R_{1} + C_{1}C_{L}L_{L}R_{1}R_{L}g_{m} + C_{2}C_{L}L_{L}R_{L}\right) + s^{2}\left(C_{1}C_{2}R_{1}R_{L} + C_{1}L_{L}R_{1}g_{m} + C_{2}L_{L} + C_{L}L_{L}R_{L}g_{m}\right) + s\left(C_{1}R_{1}R_{L}g_{m} + C_{2}R_{L} + L_{L}g_{m}\right)}{g_{m} + s^{4}\left(C_{1}C_{2}C_{L}L_{L}R_{1} + C_{1}C_{2}C_{L}L_{L}R_{L}\right) + s^{3}\left(C_{1}C_{2}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{L}\right) + s^{2}\left(C_{1}C_{2}R_{1} + C_{1}C_{2}R_{L} + C_{L}L_{L}g_{m}\right) + s\left(C_{1}R_{1}R_{L}g_{m} + C_{2}R_{L} + L_{L}g_{m}\right)}{s^{2}C_{1}C_{2}C_{L}L_{L}R_{1} + C_{1}C_{2}C_{L}L_{L}R_{1}\right) + s^{2}\left(C_{1}C_{2}R_{1}R_{L} + C_{1}C_{L}L_{R}R_{L}g_{m}\right) + s\left(C_{1}R_{1}R_{L}g_{m} + C_{2}R_{L} + L_{L}g_{m}\right)}{s^{2}C_{1}C_{2}C_{L}L_{L}R_{1} + C_{1}C_{2}C_{L}L_{L}R_{1}\right) + s^{2}\left(C_{1}C_{2}R_{1} + C_{1}C_{L}R_{L}R_{L}g_{m}\right) + s\left(C_{1}R_{1}R_{L}g_{m} + C_{2}R_{L} + L_{L}g_{m}\right)}{s^{2}C_{1}C_{2}C_{L}L_{L}R_{1} + C_{1}C_{L}L_{L}R_{1}g_{m} + C_{1}C_{L}L_{L}R_{1}g_{m}\right) + s\left(C_{1}R_{1}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{1}g_{m}\right) + s\left(C_{1}R_{1}R_{L}g_{m} + C_{1}C_{L}L_{L}R_{1}g_{m}\right)$ 10.298 INVALID-ORDER-298 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_1C_2C_LL_LR_1R_Ls^4 + R_Lg_m + s^3\left(C_1C_LL_LR_1R_Lg_m + C_2C_LL_LR_L\right) + s^2\left(C_1C_2R_1R_L + C_LL_LR_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_L\right)}{g_m + s^4\left(C_1C_2C_LL_LR_1 + C_1C_2L_LR_L\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_LL_LR_1g_m + C_1C_LL_L\right) + s^2\left(C_1C_2R_1 + C_1C_2R_1 + C_1C_LR_1R_Lg_m + C_1C_LR_L\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_L\right)}{g_m + s^4\left(C_1C_2C_LL_LR_1 + C_1C_2C_LL_R\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_L\right)}$ **10.299** INVALID-ORDER-299 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_{I.s}}\right)$ $H(s) = \frac{C_1C_2R_1R_2s^2 + R_2g_m + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}{C_1C_2C_LR_1R_2s^3 + s^2\left(C_1C_2R_2 + C_1C_LR_1R_2g_m + C_1C_LR_1 + C_1C_LR_2 + C_2C_LR_2\right) + s\left(C_1 + C_LR_2g_m + C_L\right)}$ 10.300 INVALID-ORDER-300 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1C_2R_1R_2R_Ls^2 + R_2R_Lg_m + R_L + s\left(C_1R_1R_2R_Lg_m + C_1R_1R_L + C_2R_2R_L\right)}{C_1C_2C_LR_1R_2R_Ls^3 + R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_L + C_1C_LR_1R_2R_Lg_m + C_1C_LR_1R_L + C_2C_LR_2R_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_1R_1 + C_2R_2 + C_LR_2R_Lg_m + C_LR_L\right) + 1}$ 10.301 INVALID-ORDER-301 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2C_LR_1R_2R_Ls^3 + R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2R_Lg_m + C_1C_LR_1R_L + C_2C_LR_2R_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_LR_2R_Lg_m + C_LR_L\right) + 1}{s^3\left(C_1C_2C_LR_1R_2 + C_1C_2C_LR_2R_L\right) + s^2\left(C_1C_2R_2 + C_1C_LR_1R_2g_m + C_1C_LR_1 + C_1C_LR_2 + C_1C_LR_1 + C_2C_LR_2\right) + s\left(C_1C_2R_2R_L\right) + s\left(C_1C_2R_2R_L\right$ 10.302 INVALID-ORDER-302 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2C_LL_LR_1R_2s^4 + R_2g_m + s^3\left(C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_1 + C_2C_LL_LR_2\right) + s^2\left(C_1C_2R_1R_2 + C_LL_LR_2g_m + C_LL_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}{C_1C_2C_LL_LR_2s^4 + s^3\left(C_1C_2C_LR_1R_2 + C_1C_LL_L\right) + s^2\left(C_1C_2R_2 + C_1C_LR_1R_2g_m + C_1C_LR_1 + C_2C_LR_2\right) + s\left(C_1C_2R_1R_2 + C_1C_LR_1R_2g_m + C_1C_LR_1\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}$ 10.303 INVALID-ORDER-303 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_1C_2L_LR_1R_2s^3 + s^2\left(C_1L_LR_1R_2g_m + C_1L_LR_1 + C_2L_LR_2\right) + s\left(L_LR_2g_m + L_L\right)}{C_1C_2C_LL_LR_1R_2s^4 + R_2g_m + s^3\left(C_1C_2L_LR_2 + C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_1 + C_2C_LL_LR_2\right) + s^2\left(C_1C_2R_1R_2 + C_1L_LR_2g_m + C_LL_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_2R_2\right) + 1}$ **10.304** INVALID-ORDER-304 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2C_LL_LR_1R_2s^4 + R_2g_m + s^3\left(C_1C_2C_LR_1R_2R_L + C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_1 + C_2C_LL_LR_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2R_Lg_m + C_1C_LR_1R_L + C_2C_LR_2R_L + C_LL_LR_2g_m + C_LL_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_LR_2R_Lg_m + C_LR_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2R_L + C_LR_2R_Lg_m + C_LR_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2R_L + C_LR_2R_Lg_m + C_LR_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2R_L + C_LR_2R_Lg_m + C_LR_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2R_L + C_LR_2R_Lg_m + C_LR_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2R_L + C_LR_2R_Lg_m + C_LR_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2R_L + C_LR_2R_Lg_m + C_LR_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2R_L + C_1R_2R_Lg_m + C_1R_L\right) + s\left(C_1R_1R_2g_m + C_1R_1R_2R_L + C_1R_2R_Lg_m + C_1R_L\right) + s\left(C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_L\right) + s\left(C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_L\right) + s\left(C_1R_1R_2g_m + C_1R_1R_2g_m + C_1R_1R_$ 10.305 INVALID-ORDER-305 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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10.306 INVALID-ORDER-306 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
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10.307 INVALID-ORDER-307
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{C_1C_2C_LL_LR_1R_2R_Ls^4 + R_2R_Lg_m + C_1C_LL_LR_1R_2 + C_2C_LL_LR_2R_L) + s^2\left(C_1C_2R_1R_2R_L + C_LL_LR_2R_Lg_m + C_LL_LR_L\right) + s\left(C_1R_1R_2R_Lg_m + C_1R_1R_2R_Lg_m + C_1R_1R_2R_$

10.308 INVALID-ORDER-308
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

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

10.309 INVALID-ORDER-309
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

10.310 INVALID-ORDER-310
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

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

10.311 INVALID-ORDER-311
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$$

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

10.312 INVALID-ORDER-312
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

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

10.313 INVALID-ORDER-313
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.314 INVALID-ORDER-314
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

10.315 INVALID-ORDER-315 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{R_L g_m + s^4 \left(C_1 C_2 C_L L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_L \right) + s^3 \left(C_1 C_2 L_L R_1 R_2 g_m + C_1 C_2 L_L R_1 R_L g_m + C_2 C_L L_L R_1 R_L g_m + C_2 C_L L_L R_2 R_L g_m + C_1 C_2 R_1 R_L + C_1 L_L R_1 g_m + C_2 L_L R_2 g_m + C_2 L_L R_$

10.316 INVALID-ORDER-316 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{R_L g_m + s^4 \left(C_1 C_2 C_L L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_L g_m + C_2 C_L L_L R_2 R_L g_m + C_2 C_L L_L R_2 R_L g_m + C_1 C_2 R_1 R_2 R_L g_m + C_1 C_2 R_1 R_L + C_L L_L R_L g_m \right) + s \left(C_1 C_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_2 g_m + C_1 C_2 C_L R_1 R_2 R_L g_m + C_1 C_$

10.317 INVALID-ORDER-317 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1 C_2 L_2 R_1 R_L g_m s^3 + R_L g_m + s^2 \left(C_1 C_2 R_1 R_L + C_2 L_2 R_L g_m \right) + s \left(C_1 R_1 R_L g_m + C_2 R_L \right)}{g_m + s^3 \left(C_1 C_2 L_2 R_1 g_m + C_1 C_2 L_2 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_2 R_L + C_2 L_2 g_m \right) + s \left(C_1 R_1 g_m + C_1 + C_2 R_L \right)}$$

10.318 INVALID-ORDER-318 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_2L_2R_1g_ms^3 + g_m + s^2\left(C_1C_2R_1 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2\right)}{C_Lg_ms + s^4\left(C_1C_2C_LL_2R_1g_m + C_1C_2C_LL_2\right) + s^3\left(C_1C_2C_LR_1 + C_2C_LL_2g_m\right) + s^2\left(C_1C_2 + C_1C_LR_1g_m + C_1C_L + C_2C_L\right)}$$

10.319 INVALID-ORDER-319 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

10.320 INVALID-ORDER-320 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

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

10.321 INVALID-ORDER-321 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_2C_LL_2L_LR_1g_ms^5 + g_m + s^4\left(C_1C_2C_LL_LR_1 + C_2C_LL_2L_g_m\right) + s^3\left(C_1C_2L_2R_1g_m + C_1C_LL_LR_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_2C_LL\right) + s^2\left(C_1C_2R$$

10.322 INVALID-ORDER-322 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_1C_2L_LR_1g_ms^4 + L_Lg_ms + s^3\left(C_1C_2L_LR_1 + C_2L_2L_g_m\right) + s^2\left(C_1L_LR_1g_m + C_2L_L\right)}{g_m + s^5\left(C_1C_2L_LL_2L_Lg_m + C_1C_2L_LL_LR_1g_m + C_1C_2L_LL_LR_1g_m + C_1C_2L_L + C_1C_LL_LR_1g_m + C_1C_LR_1g_m + C$$

10.323 INVALID-ORDER-323 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_2C_LL_2L_LR_1g_ms^5 + g_m + s^4\left(C_1C_2C_LL_2R_1R_Lg_m + C_1C_2L_LL_Rg_m + C_1C_LL_LR_1g_m + C_1C_LL_LR_1g_m + C_2C_LL_LR_1g_m + C_2C_LL_1g_m + C_$$

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10.324 INVALID-ORDER-324 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_2L_2L_LR_1R_Lg_ms^4 + L_LR_Lg_ms + s^3\left(C_1C_2L_LR_1R_L + C_2L_2L_LR_Lg_m\right) + s^2\left(C_1L_LR_1R_Lg_m + C_2L_LR_L\right)
                                       \frac{C_{1}C_{2}L_{2}L_{L}R_{1}R_{L}g_{m}s^{2}+L_{L}R_{L}g_{m}s+s^{2}\left(C_{1}C_{2}L_{L}R_{1}R_{L}+C_{2}L_{2}L_{L}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{L}R_{1}R_{L}g_{m}+C_{2}L_{L}R_{L}\right)}{R_{L}g_{m}+s^{5}\left(C_{1}C_{2}L_{L}L_{L}R_{1}R_{L}g_{m}+C_{1}C_{2}L_{L}R_{L}R_{L}+C_{1}C_{2}L_{L}R_{L}R_{L}+C_{1}C_{2}L_{L}R_{L}R_{L}+C_{1}C_{2}L_{L}R_
10.325 INVALID-ORDER-325 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
H(s) = \frac{C_1C_2C_LL_2L_LR_1R_Lg_ms^5 + R_Lg_m + s^4\left(C_1C_2C_LL_LR_1R_L + C_1C_2L_LR_1g_m + C_2C_LL_LR_1g_m + C_2C_LL_LR_1g_m + C_1C_2L_LR_1g_m + C_1C_2L_LR_1g_m + C_1C_2L_LR_1 + C_1C_LL_RR_1g_m + C_2C_LL_LR_1 + C_1C_LL_RR_1g_m + C_2C_LL_RR_1g_m + C_1C_2L_LR_1g_m + C_1C_2L_LR_1g_
10.326 INVALID-ORDER-326 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_1C_2C_LL_2L_LR_1R_Lg_ms^5 + R_Lg_m + s^4\left(C_1C_2C_LL_LR_1R_L + C_2C_LL_LR_1g_m\right) + s^3\left(C_1C_2L_2R_1R_Lg_m + C_1C_LL_RR_1R_Lg_m + C_2C_LL_LR_L\right) + s^2\left(C_1C_2R_1R_L + C_2L_2R_Lg_m + C_LL_RR_Lg_m\right) + s^3\left(C_1C_2L_2R_1R_Lg_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2L_LR_1R_Lg_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LL_RR_1R_Lg_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LL_RR_1R_Lg_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LL_RR_1R_Lg_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LL_RR_1R_Lg_m + C_1C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LL_RR_1g_m + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_2C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_2C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_2C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_2C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_LL_RR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_LR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_LR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_1 + C_1C_LR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_1 + C_1C_LR_1g_m\right) + s^3\left(C_1C_2C_LR_1R_1 + C_1C_LR_1g_m\right) + s^3\left
10.327 INVALID-ORDER-327 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                 H(s) = \frac{C_1C_2L_2R_1R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_2R_1R_2R_Lg_m + C_1C_2R_1R_L + C_2L_2R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_2R_Lg_m + C_2R_L\right)}{g_m + s^3\left(C_1C_2L_2R_1g_m + C_1C_2L_2\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_L + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_1 + C_2R_2g_m + C_2R_L\right)}
10.328 INVALID-ORDER-328 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                               H(s) = \frac{C_1C_2L_2R_1g_ms^3 + g_m + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2\right)}{C_Lg_ms + s^4\left(C_1C_2C_LL_2R_1g_m + C_1C_2C_LL_2\right) + s^3\left(C_1C_2C_LR_1R_2g_m + C_1C_2C_LR_1 + C_1C_2C_LR_2 + C_2C_LL_2g_m\right) + s^2\left(C_1C_2 + C_1C_LR_1g_m + C_1C_L + C_2C_LR_2g_m + C_2C_L\right)}
10.329 INVALID-ORDER-329 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_2L_2R_1R_Lg_ms^3 + R_Lg_m + s^2\left(C_1C_2R_1R_2R_Lg_m + C_1C_2R_1R_L + C_2L_2R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_2R_Lg_m + C_2R_L\right)}{g_m + s^4\left(C_1C_2C_LL_2R_1R_Lg_m + C_1C_2L_2R_1g_m + C_1C_2L_2R_Lg_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_1 + C_1C_
10.330 INVALID-ORDER-330 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                 H(s) = \frac{C_1C_2C_LL_2R_1R_Lg_ms^4 + g_m + s^3\left(C_1C_2C_LR_1R_2R_Lg_m + C_1C_2L_R_1g_m + C_2C_LL_2R_Lg_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_1C_LR_1R_Lg_m + C_2C_LR_2R_Lg_m + C_2C_LR_2R_
10.331 INVALID-ORDER-331 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                       H(s) = \frac{C_1C_2C_LL_2L_LR_1g_ms^5 + g_m + s^4\left(C_1C_2C_LL_LR_1R_2g_m + C_1C_2C_LL_LR_1 + C_2C_LL_Lg_m\right) + s^3\left(C_1C_2L_2R_1g_m + C_1C_LL_Rg_m + C_2C_LL_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_2L_2g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_1C_2R_1g_m + C_1C_2R_1g
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 $H(s) = \frac{C_1C_2L_LR_1g_ms^4 + L_Lg_ms + s^3\left(C_1C_2L_LR_1R_2g_m + C_1C_2L_LR_1 + C_2L_LLg_m\right) + s^2\left(C_1L_LR_1g_m + C_2L_LR_2g_m + C_2L_L\right)}{g_m + s^5\left(C_1C_2C_LL_LR_1g_m + C_1C_2L_LR_1g_m +$

10.332 INVALID-ORDER-332 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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10.333 INVALID-ORDER-333 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
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 $H(s) = \frac{C_1C_2C_LL_2L_1R_1g_ms^5 + g_m + s^4\left(C_1C_2C_LL_2R_1R_Lg_m + C_1C_2C_LL_LR_1g_m + C_1C_2L_LR_1g_m + C_1C_2L_LR_1g_m + C_1C_LL_Rg_m + C_1C_LL_Rg_$

10.334 INVALID-ORDER-334 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.335 INVALID-ORDER-335 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{C_1C_2C_LL_2L_LR_1R_Lg_ms^5 + R_Lg_m + s^4\left(C_1C_2C_LL_LR_1R_2R_Lg_m + C_1C_2L_LR_1R_L + C_1C_2L_LR_1g_m + C_1C_2L_LR_1R_2g_m + C_1C_2L_LR_1R_2g_$

10.336 INVALID-ORDER-336 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{C_1C_2C_LL_2L_LR_1R_Lg_ms^5 + R_Lg_m + s^4\left(C_1C_2C_LL_LR_1R_2R_Lg_m + C_1C_2C_LL_LR_1R_L + C_2C_LL_2L_LR_Lg_m\right) + s^3\left(C_1C_2L_2R_1R_Lg_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m\right) + s^3\left(C_1C_2L_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m\right) + s^3\left(C_1C_2L_LR_1R_Lg_m + C_1C_2L_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m\right) + s^3\left(C_1C_2L_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m + C_1C_LL_LR_1R_Lg_m\right) + s^3\left(C_1C_2L_LR_1R_Lg_m + C_1C_LL_LR_$

10.337 INVALID-ORDER-337 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_2 R_1 R_L\right) + s^2 \left(C_1 L_2 R_1 R_L g_m + C_2 L_2 R_L g_m + C_2 L_2 R_L\right) + s \left(C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L + L_2 R_L g_m\right)}{R_2 g_m + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 + C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_L\right) + s^2 \left(C_1 L_2 R_1 g_m + C_1 L_2 + C_2 L_2 R_2 g_m + C_2 L_2\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_L + L_2 g_m\right) + 1}$

10.338 INVALID-ORDER-338 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

10.339 INVALID-ORDER-339 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_2 R_1 R_L g_m + C_2 L_2 R_L g_m + C_2 L_2 R_L g_m + C_2 L_2 R_L g_m + C_1 R_L$

10.340 INVALID-ORDER-340 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_2 C_L L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_2 R_1 R_L\right) + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 R_L g_m + C_2 C_L L_2 R_L g_m + C_2 C_L L_2 R_L g_m + C_2 C_L L_2 R_L g_m + C_1 C_L R_1 R_L + C_1 L_2 R_1 g_m + C_2 L_2 R_2 g_m + C_2 L_2 R_L g_m + C_1 C_L R_1 R_L g_m + C_2 C_L L_2 R_L g_m + C_1 C_L R_1 R_L g_m + C$

10.341 INVALID-ORDER-341 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_2 L_L R_1 \right) + s^4 \left(C_1 C_L L_2 L_L R_1 g_m + C_2 C_L L_2 L_L R_2 g_m + C_2 C_L L_2 L_L \right) + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_1 + C_L L_L L_L R_1 g_m + C_2 L_L R_2 g_m$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 L_L L_R L_1 \right) + s^4 \left(C_1 C_2 C_L L_2 R_1 R_2 R_2 m + C_1 C_L L_2 R_1 R_2 g_m + C_1 C_L L_2 L_L R_1 g_m + C_1 C_L L_2 R_1 R_2 g_m$

10.344 INVALID-ORDER-344 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $H(s) = \frac{s^4 \left(C_1 C_2 L_2 L_L R_1 R_2 G_m + C_1 C_2 L_L L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_L + C_1 C_2 L_L L_L R_1 R_2 G_m + C_1 C_2 L_L R_1 R_2 G_m + C_1 C_$

10.345 INVALID-ORDER-345 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_L \right) + s^4 \left(C_1 C_2 L_L L_L R_1 R_2 g_m + C_1 C_2 L_L L_R R_1 R_L g_m + C_2 C_L L_L L_R R_2 R_L g_m + C_2 C_L L_L L_R R_2 R_L g_m + C_1 C_2 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L R_1$

10.346 INVALID-ORDER-346 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_2 L_L R_1 R_L \right) + s^4 \left(C_1 C_L L_2 L_L R_1 R_L g_m + C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L R_1 R_2 R_L g_m + C_$

10.347 INVALID-ORDER-347 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_2 R_1 R_L\right) + s^2 \left(C_1 C_2 R_1 R_2 R_L + C_2 L_2 R_2 R_L g_m + C_2 L_2 R_L\right) + s \left(C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L + C_2 R_2 R_L\right)}{R_2 g_m + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 + C_1 C_2 L_2 R_L\right) + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_2 R_2 R_L + C_2 L_2 R_2 g_m + C_2 L_2\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_1 R_1 R_2 R_L + C_2 R_2 R_L + C_2 R_2 R_L\right) + s \left(C_1 R_1 R_2 R_L$

10.348 INVALID-ORDER-348 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

10.349 INVALID-ORDER-349 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_2 R_1 R_L\right) + s^2 \left(C_1 C_2 R_1 R_2 R_L + C_2 L_2 R_2 R_L g_m + C_2 L_2 R_L\right) + s \left(C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L + C_1 R_2 R_L g_m + C_1 R_2 R_L g$

10.350 INVALID-ORDER-350 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_2 C_L L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_2 R_1 R_L\right) + s^3 \left(C_1 C_2 C_L R_1 R_2 R_L + C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_2 R_2 g_m + C_2 C_L L_2 R_2 g_m + C_2$

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10.351 INVALID-ORDER-351 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
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 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_2 L_L R_1\right) + s^4 \left(C_1 C_2 C_L L_L R_1 R_2 + C_2 C_L L_2 L_L R_2 g_m + C_2 C_L L_2 L_L\right) + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_1\right) + s^2 \left(C_1 C_2 R_1 R_2 + C_2 L_2 R_2 g_m + C_2 L_2 + C_L L_L R_2 g_m + C_1 C_L L_L R_1\right) + s^2 \left(C_1 C_2 R_1 R_2 + C_2 L_2 R_2 g_m + C_2 L_2 R_2 g$

10.352 INVALID-ORDER-352
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

 $H(s) = \frac{s^4 \left(C_1 C_2 L_L R_1 R_2 g_m + C_1 C_2 L_L R_1 R_2 + C_2 L_L L_R g_m + C_2 L_2 L_L \right) + s^2 \left(C_1 L_L R_1 R_2 g_m + C_1 L_L R_1 + C_2 L_L R_2 \right) + s \left(L_1 R_1 R_2 g_m + C_1 L_L R_1 R_$

10.353 INVALID-ORDER-353
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_2 L_L R_1\right) + s^4 \left(C_1 C_2 C_L L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 R_1 R_2 + C_2 C_L L_2 L_L R_2 g_m + C_2 C_L L_2 L_L R_2 g_m + C_1 C_2 L_2 R_1 R_2 g_m$

10.354 INVALID-ORDER-354
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

 $I(s) = \frac{s^4 \left(C_1 C_2 L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L + C_1 C_2 L_$

10.355 INVALID-ORDER-355
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_L R_1 R_2 R_L + C_1 C_2 L_L L_R R_1 R_2 g_m + C_1 C_2 L_L L_R R_1 R_2 g_m + C_1 C_2 L_L L_R R_1 R_2 g_m + C_1 C_2 L_L R_1 R_2 R_L + C$

10.356 INVALID-ORDER-356
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 C_L L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2$

10.357 INVALID-ORDER-357
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^2 (C_1 L_1 R_2 g_m + C_1 L_1) + 1}{C_1 C_L R_2 s^2 + s^3 (C_1 C_L L_1 R_2 g_m + C_1 C_L L_1) + s (C_1 + C_L R_2 g_m + C_L)}$$

10.358 INVALID-ORDER-358
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^2 \left(C_1 L_1 R_2 R_L g_m + C_1 L_1 R_L \right)}{R_2 g_m + s^3 \left(C_1 C_L L_1 R_2 R_L g_m + C_1 C_L L_1 R_L \right) + s^2 \left(C_1 C_L R_2 R_L + C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_1 R_2 + C_1 R_L + C_L R_2 R_L g_m + C_L R_L \right) + 1}$$

10.359 INVALID-ORDER-359
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_L L_1 R_2 R_L g_m + C_1 C_L L_1 R_L \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_L R_2 R_L g_m + C_L R_L \right) + 1}{s^3 \left(C_1 C_L L_1 R_2 g_m + C_1 C_L L_1 \right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_L \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.360 INVALID-ORDER-360
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_L L_1 L_L R_2 g_m + C_1 C_L L_1 L_L \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_L L_L R_2 g_m + C_L L_L \right) + 1}{C_1 C_L R_2 s^2 + s^3 \left(C_1 C_L L_1 R_2 g_m + C_1 C_L L_1 + C_1 C_L L_L \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.361 INVALID-ORDER-361
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_L R_2 g_m + C_1 L_1 L_L \right) + s \left(L_L R_2 g_m + L_L \right)}{C_1 C_L L_L R_2 s^3 + C_1 R_2 s + R_2 g_m + s^4 \left(C_1 C_L L_1 L_L R_2 g_m + C_1 C_L L_1 L_L \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_1 L_L + C_L L_L R_2 g_m + C_L L_L \right) + 1}$$

10.362 INVALID-ORDER-362
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_L L_1 L_L R_2 g_m + C_1 C_L L_1 L_L\right) + s^3 \left(C_1 C_L L_1 R_2 R_L g_m + C_1 C_L L_1 R_L\right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_L L_L R_2 g_m + C_L L_L\right) + s \left(C_L R_2 R_L g_m + C_L R_L\right) + 1}{s^3 \left(C_1 C_L L_1 R_2 g_m + C_1 C_L L_1 + C_1 C_L L_L\right) + s^2 \left(C_1 C_L R_2 + C_1 C_L R_L\right) + s \left(C_1 + C_L R_2 g_m + C_L L_L\right) + s \left(C_1 R_2 R_L g_m + C_L R_L\right) + 1}$$

10.363 INVALID-ORDER-363
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_L R_2 R_L g_m + C_1 L_1 L_L R_L \right) + s \left(L_L R_2 R_L g_m + L_L R_L \right)}{R_2 R_L g_m + R_L + s^4 \left(C_1 C_L L_1 L_L R_2 R_L g_m + C_1 C_L L_L L_L R_2 R_L + C_1 L_L L_L R_2 R_L g_m + C_1 L_1 L_L \right) + s^2 \left(C_1 L_1 R_2 R_L g_m + C_1 L_1 R_L + C_1 L_L R_2 + C_1 L_L R_2 R_L g_m + C_L L_L R_L \right) + s \left(C_1 R_2 R_L + L_L R_2 g_m + L_L \right)}$$

10.364 INVALID-ORDER-364
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^4 \left(C_1 C_L L_1 L_L R_2 R_L g_m + C_1 C_L L_1 L_L R_L \right) + s^3 \left(C_1 L_1 L_L R_2 g_m + C_1 L_1 L_L \right) + s^2 \left(C_1 L_1 R_2 R_L g_m + C_1 L_1 R_L + C_L L_L R_2 R_L g_m + C_L L_L R_L \right) + s \left(L_L R_2 g_m + L_L \right) + s \left(L_L R_2 g_m + C_1 L_1 L_L R_2 g_m + C_1 L_1 L_L R_2 g_m + C_1 L_1 R_2 g_m + C_1 R_2 g_m +$$

10.365 INVALID-ORDER-365
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

10.366 INVALID-ORDER-366 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1 C_2 L_1 R_L s^3 + C_1 L_1 R_L g_m s^2 + C_2 R_L s + R_L g_m}{C_1 C_2 L_1 s^3 + g_m + s^2 (C_1 C_2 R_1 + C_1 L_1 g_m) + s (C_1 + C_2)}$$

10.367 INVALID-ORDER-367 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1 C_2 L_1 s^3 + C_1 L_1 g_m s^2 + C_2 s + g_m}{C_1 C_2 C_L L_1 s^4 + C_1 C_L L_1 g_m s^3 + C_L g_m s + s^2 (C_1 C_2 + C_1 C_L + C_2 C_L)}$$

10.368 INVALID-ORDER-368
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_2L_1R_Ls^3 + C_1L_1R_Lg_ms^2 + C_2R_Ls + R_Lg_m}{C_1C_2C_LL_1R_Ls^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_1L_1g_m + C_2C_LR_L\right) + s\left(C_1 + C_2 + C_LR_Lg_m\right)}$$

10.369 INVALID-ORDER-369
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1 C_2 C_L L_1 R_L s^4 + g_m + s^3 \left(C_1 C_2 L_1 + C_1 C_L L_1 R_L g_m \right) + s^2 \left(C_1 L_1 g_m + C_2 C_L R_L \right) + s \left(C_2 + C_L R_L g_m \right)}{C_1 C_2 C_L L_1 s^4 + C_L g_m s + s^3 \left(C_1 C_2 C_L R_L + C_1 C_L L_1 g_m \right) + s^2 \left(C_1 C_2 + C_1 C_L + C_2 C_L \right)}$$

10.370 INVALID-ORDER-370
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1 C_2 C_L L_1 L_L s^5 + C_1 C_L L_1 L_L g_m s^4 + C_2 s + g_m + s^3 \left(C_1 C_2 L_1 + C_2 C_L L_L \right) + s^2 \left(C_1 L_1 g_m + C_L L_L g_m \right)}{C_1 C_L L_1 g_m s^3 + C_L g_m s + s^4 \left(C_1 C_2 C_L L_1 + C_1 C_2 C_L L_L \right) + s^2 \left(C_1 C_2 + C_1 C_L + C_2 C_L \right)}$$

10.371 INVALID-ORDER-371
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1C_2L_1L_Ls^4 + C_1L_1L_Lg_ms^3 + C_2L_Ls^2 + L_Lg_ms}{C_1C_2C_LL_1L_Ls^5 + C_1C_LL_1L_Lg_ms^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_2L_L + C_1C_LL_L + C_2C_LL_L\right) + s^2\left(C_1L_1g_m + C_LL_Lg_m\right) + s\left(C_1 + C_2\right)}$$

10.372 INVALID-ORDER-372
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

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

10.373 INVALID-ORDER-373
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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

10.374 INVALID-ORDER-374
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_LR_Ls^5 + R_Lg_m + s^4\left(C_1C_2L_1L_L + C_1C_LL_1L_LR_Lg_m\right) + s^3\left(C_1C_2L_1R_L + C_1L_1L_Lg_m + C_2C_LL_LR_L\right) + s^2\left(C_1L_1R_Lg_m + C_2L_L + C_LL_LR_Lg_m\right) + s\left(C_2R_L + L_Lg_m\right)}{C_1C_2C_LL_1L_Ls^5 + g_m + s^4\left(C_1C_2C_LL_LR_L + C_1C_LL_LL_g_m\right) + s^3\left(C_1C_2L_1 + C_1C_LL_L + C_1C_LL_L + C_2C_LL_L\right) + s^2\left(C_1C_2R_L + C_1L_LR_g_m + C_2L_L + C_1L_LR_g_m\right) + s\left(C_1C_2R_L + C_1L_LR_g_m\right) + s\left(C_1C_2R_L + C_1C_LR_g_m\right) + s\left(C_1C_2R_L + C_1C_2R_g_m\right) + s\left(C_1C_2R_g_m\right) + s\left(C_1C_2R_g_m\right) + s\left(C_1C_2R_g_m\right) + s\left(C_1C_2R_g_m\right) + s\left(C_1C_2R_g_m\right) + s\left(C_1C_2R_g_m$$

10.375 INVALID-ORDER-375
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_LR_Ls^5 + C_1C_LL_1L_LR_Lg_ms^4 + C_2R_Ls + R_Lg_m + s^3\left(C_1C_2L_1R_L + C_2C_LL_LR_L\right) + s^2\left(C_1L_1R_Lg_m + C_LL_LR_Lg_m\right)}{C_1C_2C_LL_1L_Ls^5 + g_m + s^4\left(C_1C_2C_LL_1R_L + C_1C_LL_1L_Lg_m\right) + s^3\left(C_1C_2L_1 + C_1C_LL_1R_Lg_m + C_1C_LL_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_1L_LR_Lg_m\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_1C_LR_Lg_m\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_2C_LL_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_2C_LR_L + C_2C_LR_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_2C_LR_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_2C_LR_L\right) + s^2\left(C_1C_2R_L + C_1C_LR_L\right) + s^2\left(C_1C_2R_L\right) + s^2$$

10.376 INVALID-ORDER-376 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1C_2L_1R_2R_Ls^3 + C_2R_2R_Ls + R_2R_Lg_m + R_L + s^2\left(C_1L_1R_2R_Lg_m + C_1L_1R_L\right)}{C_1C_2L_1R_2s^3 + R_2g_m + s^2\left(C_1C_2R_2R_L + C_1L_1R_2g_m + C_1L_1\right) + s\left(C_1R_2 + C_1R_L + C_2R_2\right) + 1}$$

10.377 INVALID-ORDER-377
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_2L_1R_2s^3 + C_2R_2s + R_2g_m + s^2\left(C_1L_1R_2g_m + C_1L_1\right) + 1}{C_1C_2C_LL_1R_2s^4 + s^3\left(C_1C_LL_1R_2g_m + C_1C_LL_1\right) + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_2C_LR_2\right) + s\left(C_1 + C_LR_2g_m + C_L\right)}$$

10.378 INVALID-ORDER-378 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1C_2L_1R_2R_Ls^3 + C_2R_2R_Ls + R_2R_Lg_m + R_L + s^2\left(C_1L_1R_2R_Lg_m + C_1L_1R_L\right)}{C_1C_2C_LL_1R_2R_Ls^4 + R_2g_m + s^3\left(C_1C_2L_1R_2 + C_1C_LL_1R_2R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_2R_L + C_1C_LR_2R_L + C_1L_1R_2g_m + C_1L_1 + C_2C_LR_2R_L\right) + s\left(C_1R_2 + C_1R_L + C_2R_2 + C_LR_2R_Lg_m + C_LR_L\right) + 1}$ **10.379** INVALID-ORDER-379 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2C_LL_1R_2R_Ls^4 + R_2g_m + s^3\left(C_1C_2L_1R_2 + C_1C_LL_1R_2R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2C_LR_2R_L\right) + s\left(C_2R_2 + C_LR_2R_Lg_m + C_LR_L\right) + 1}{C_1C_2C_LL_1R_2s^4 + s^3\left(C_1C_2C_LR_2R_L + C_1C_LL_1R_2g_m + C_1C_LL_1\right) + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_1C_LR_2\right) + s\left(C_1C_2R_2 + C_1C_2R_2\right) + s\left(C_1C_2R_2 + C_1C_2R_2\right)$ 10.380 INVALID-ORDER-380 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2C_LL_1L_LR_2s^5 + C_2R_2s + R_2g_m + s^4\left(C_1C_LL_1L_LR_2g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_2L_1R_2 + C_2C_LL_LR_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_LL_LR_2g_m + C_LL_L\right) + 1}{s^4\left(C_1C_2C_LL_1R_2 + C_1C_2C_LL_1R_2\right) + s^3\left(C_1C_LL_1R_2g_m + C_1C_LL_1\right) + s^2\left(C_1C_2R_2 + C_1C_LR_2\right) + s\left(C_1C_2R_2 + C_2C_LR_2\right) + s\left(C_1C_2R_2 + C_2C_2R_2\right) + s\left(C_1C_2R_2 + C_2C_2R_2\right) + s\left(C_1C_2R_2 + C_2C_2R_2\right) + s\left(C_1C_2R_2 + C_2C_2R_2\right) + s\left($ **10.381** INVALID-ORDER-381 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_1C_2L_1L_LR_2s^4 + C_2L_LR_2s^2 + s^3\left(C_1L_1L_LR_2g_m + C_1L_1L_L\right) + s\left(L_LR_2g_m + L_L\right)}{C_1C_2C_LL_1L_LR_2s^5 + R_2g_m + s^4\left(C_1C_LL_1L_LR_2g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_2L_1R_2 + C_1C_LL_LR_2 + C_1C_LL_LR_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_1L_L + C_LL_Rg_m + C_LL_L\right) + s\left(C_1R_2 + C_2R_2\right) + 1}$ **10.382** INVALID-ORDER-382 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2C_LL_1L_LR_2s^5 + R_2g_m + s^4\left(C_1C_2C_LL_1R_2R_L + C_1C_LL_1L_LR_2g_m + C_1C_LL_1R_2 + C_1C_LL_1R_2R_Lg_m + C_1C_LL_1R_2 + C_1C_LL_1 + C_1C_LL_$ 10.383 INVALID-ORDER-383 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_1C_2L_1L_LR_2R_Ls^4 + C_2L_LR_2R_Ls^2 + s^3\left(C_1L_1L_LR_2R_Lg_m + C_1L_1L_LR_L\right) + s\left(L_LR_2R_Lg_m + L_LR_L\right)}{C_1C_2C_LL_1L_LR_2R_Ls^5 + R_2R_Lg_m + R_L + s^4\left(C_1C_2L_1L_LR_2 + C_1C_LL_1L_LR_2\right) + s^3\left(C_1C_2L_1R_2R_L + C_1C_LL_LR_2R_L + C_1C_LL_LR_$ **10.384** INVALID-ORDER-384 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ $H(s) = \frac{C_1C_2C_LL_1L_LR_2R_Ls^5 + R_2R_Lg_m + R_L + s^4\left(C_1C_2L_1L_LR_2 + C_1C_LL_1L_LR_2R_Lg_m + C_1L_1L_LR_2g_m + C_1L_1L_LR_2g_m + C_1L_1L_LR_2g_m + C_1L_1L_LR_2g_m + C_1L_1L_LR_2g_m + C_1L_1L_LR_2g_m + C_1L_1R_2R_Lg_m + C_1R_2R_Lg_m + C_1R_$ 10.385 INVALID-ORDER-385 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_1C_2C_LL_1L_LR_2R_Ls^5 + C_2R_2R_Ls + R_2R_Lg_m + R_L + s^4\left(C_1C_LL_1L_LR_2R_Lg_m + C_1C_LL_1L_LR_2\right) + s^3\left(C_1C_2L_1R_2R_L + C_2C_LL_R2R_L\right) + s^2\left(C_1L_1R_2R_Lg_m + C_1L_1R_L + C_LL_LR_2R_Lg_m + C_1L_LR_2R_Lg_m + C_1L_LR_2R_Lg_m$

$$H(s) = \frac{C_1 L_1 R_L g_m s^2 + R_L g_m + s^3 \left(C_1 C_2 L_1 R_2 R_L g_m + C_1 C_2 L_1 R_L \right) + s \left(C_2 R_2 R_L g_m + C_2 R_L \right)}{g_m + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 \right) + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_L + C_1 L_1 g_m \right) + s \left(C_1 + C_2 R_2 g_m + C_2 \right)}$$

10.386 INVALID-ORDER-386 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

10.387 INVALID-ORDER-387
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1 L_1 g_m s^2 + g_m + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 \right) + s \left(C_2 R_2 g_m + C_2 \right)}{C_L g_m s + s^4 \left(C_1 C_2 C_L L_1 R_2 g_m + C_1 C_2 C_L L_1 \right) + s^3 \left(C_1 C_2 C_L R_2 + C_1 C_L L_1 g_m \right) + s^2 \left(C_1 C_2 + C_1 C_L + C_2 C_L R_2 g_m + C_2 C_L \right)}$$

10.388 INVALID-ORDER-388
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$$

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

10.389 INVALID-ORDER-389
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_L L_1 R_2 R_L g_m + C_1 C_2 C_L L_1 R_L \right) + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 + C_1 C_L L_1 R_L g_m \right) + s^2 \left(C_1 L_1 g_m + C_2 C_L R_2 R_L g_m + C_2 C_L R_L \right) + s \left(C_2 R_2 g_m + C_2 + C_L R_L g_m \right)}{C_L g_m s + s^4 \left(C_1 C_2 C_L L_1 R_2 g_m + C_1 C_2 C_L L_1 \right) + s^3 \left(C_1 C_2 C_L R_2 + C_1 C_2 C_L R_2 + C_1 C_L L_1 g_m \right) + s^2 \left(C_1 C_2 + C_1 C_L + C_2 C_L R_2 g_m + C_2 C_L R_2 \right)}$$

10.390 INVALID-ORDER-390
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_LL_1L_Lg_ms^4 + g_m + s^5\left(C_1C_2C_LL_1L_LR_2g_m + C_1C_2C_LL_1L_L\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_2C_LL_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_1L_1g_m + C_LL_Lg_m\right) + s\left(C_2R_2g_m + C_2C_LL_1R_2g_m + C_2C_LR_2g_m + C_2C$$

10.391 INVALID-ORDER-391
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1L_1L_2g_ms^3 + L_Lg_ms + s^4\left(C_1C_2L_1L_LR_2g_m + C_1C_2L_1L_L\right) + s^2\left(C_2L_LR_2g_m + C_2L_L\right)}{g_m + s^5\left(C_1C_2C_LL_1L_LR_2g_m + C_1C_2L_LL_L\right) + s^4\left(C_1C_2C_LL_LR_2 + C_1C_LL_LR_2g_m + C_1C_2L_L + C_1C_LL_L + C_2C_LL_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_2 + C_1L_1g_m + C_LL_Lg_m\right) + s\left(C_1C_2R_2g_m + C_1C_2L_LR_2g_m + C_1C_2L_L + C_1C_LL_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_2 + C_1L_1g_m + C_2L_Lg_m\right) + s\left(C_1C_2R_2 + C_1L_1g_m + C_2L_Lg_m\right) + s\left(C_1C_2R_2 + C_1C_2R_2 + C_1L_1g_m\right) + s\left(C_1C_2R_2 + C_1C_2R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_2\right) + s^2\left(C_1$$

10.392 INVALID-ORDER-392
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_2 g_m + C_1 C_2 C_L L_1 L_L \right) + s^4 \left(C_1 C_2 C_L L_1 R_2 R_L g_m + C_1 C_2 L_L L_1 L_2 g_m \right) + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 + C_1 C_L L_1 R_2 g_m + C_2 C_L L_L \right) + s^2 \left(C_1 L_1 g_m + C_2 C_L R_2 R_L g_m \right) + s \left(C_2 R_2 g_m + C_2 C_L R_2 R_L g_m \right) + s \left(C_1 R_2 R_L g_m + C_2 C_L R_2$$

10.393 INVALID-ORDER-393
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

10.394 INVALID-ORDER-394
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{R_L g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_2 R_L g_m + C_1 C_2 C_L L_1 L_L R_2 \right) + s^4 \left(C_1 C_2 L_1 L_L R_2 g_m + C_1 C_2 L_L R_2 R_L g_m + C_1 C_2 L_L R_2 R_L g_m + C_2 C_L R_2 R_L g_m + C_2$$

10.395 INVALID-ORDER-395
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_LL_1L_LR_2g_ms^4 + R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_2R_Lg_m + C_1C_2L_LR_2R_Lg_m + C_1C_2L_LR_2R_Lg_m + C_2C_LL_LR_2\right) + s^2\left(C_1L_1R_Lg_m + C_LL_Lg_m + C_Lg_m + C_Lg$$

10.396 INVALID-ORDER-396 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$ $H(s) = \frac{C_1C_2L_1L_2R_Lg_ms^4 + C_1C_2L_1R_Ls^3 + C_2R_Ls + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_2L_2R_Lg_m\right)}{C_1C_2L_1L_2g_ms^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_2L_2\right) + s^2\left(C_1C_2R_L + C_1L_1g_m + C_2L_2g_m\right) + s\left(C_1 + C_2\right)}$ 10.397 INVALID-ORDER-397 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2L_1L_2g_ms^4 + C_1C_2L_1s^3 + C_2s + g_m + s^2\left(C_1L_1g_m + C_2L_2g_m\right)}{C_1C_2C_LL_1L_2q_ms^5 + C_Lq_ms + s^4\left(C_1C_2C_LL_1 + C_1C_2C_LL_2\right) + s^3\left(C_1C_LL_1g_m + C_2C_LL_2g_m\right) + s^2\left(C_1C_2 + C_1C_L + C_2C_L\right)}$ 10.398 INVALID-ORDER-398 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_1C_2L_1L_2R_Lg_ms^4 + C_1C_2L_1R_Ls^3 + C_2R_Ls + R_Lg_m + s^2\left(C_1L_1R_Lg_m + C_2L_2R_Lg_m\right)}{C_1C_2C_LL_1L_2R_Lg_ms^5 + g_m + s^4\left(C_1C_2C_LL_1R_L + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2L_1 + C_1C_2L_2 + C_1C_LL_1R_Lg_m + C_2C_LL_2R_Lg_m\right) + s^2\left(C_1C_2R_L + C_1C_LR_L + C_1L_1g_m + C_2C_LR_L + C_1C_LR_L + C_1L_1g_m + C_2C_LR_L + C_1C_LR_L + C_$ **10.399** INVALID-ORDER-399 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_{1}C_{2}C_{L}L_{1}L_{2}R_{L}g_{m}s^{5} + g_{m} + s^{4}\left(C_{1}C_{2}C_{L}L_{1}R_{L} + C_{1}C_{2}L_{1}L_{2}g_{m}\right) + s^{3}\left(C_{1}C_{2}L_{1} + C_{1}C_{L}L_{1}R_{L}g_{m} + C_{2}C_{L}L_{2}R_{L}g_{m}\right) + s^{2}\left(C_{1}L_{1}g_{m} + C_{2}C_{L}R_{L} + C_{2}L_{2}g_{m}\right) + s\left(C_{2} + C_{L}R_{L}g_{m}\right) + s\left(C_{$ **10.400** INVALID-ORDER-400 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms^6 + C_1C_2C_LL_1L_Ls^5 + C_2s + g_m + s^4\left(C_1C_2L_1L_2g_m + C_1C_LL_1L_Lg_m + C_2C_LL_2L_Lg_m\right) + s^3\left(C_1C_2L_1 + C_2C_LL_L\right) + s^2\left(C_1L_1g_m + C_2L_2g_m + C_LL_Lg_m\right)}{C_1C_2C_LL_1L_2g_ms^5 + C_Lg_ms + s^4\left(C_1C_2L_L + C_1C_2C_LL_1 + C_1C_2C_LL_1\right) + s^3\left(C_1C_LL_1g_m + C_2C_LL_2\right) + s^2\left(C_1C_2L_1 + C_2C_LL_1\right) + s^2\left(C_1C_2L_1 + C_2C_LL_1\right)}$ 10.401 INVALID-ORDER-401 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_T L_T s^2 + 1}\right)$ $H(s) = \frac{C_1C_2L_1L_2L_Lg_ms^5 + C_1C_2L_1L_Ls^4 + C_2L_Ls^2 + L_Lg_ms + s^3\left(C_1L_1L_Lg_m + C_2L_LLg_m\right)}{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2C_LL_1L_L + C_1C_2L_LL_L\right) + s^4\left(C_1C_2L_1L_2g_m + C_1C_LL_LL_g_m\right) + s^3\left(C_1C_2L_1 + C_1C_2L_L + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + C_2L_2g_m\right) + s^3\left(C_1C_2L_1L_L + C_1C_LL_L + C_2C_LL_L\right) + s^2\left(C_1L_1g_m + C_2L_2g_m\right) + s^3\left(C_1C_2L_1L_L + C_1C_2L_L + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + C_2L_2g_m\right) + s^3\left(C_1C_2L_1L_L + C_1C_2L_L + C_1C_LL_L\right) + s^2\left(C_1L_1g_m + C_2L_2g_m\right) + s^3\left(C_1C_2L_1L_L + C_1C_2L_L\right) + s^3\left(C_1C_2L_1L_L\right) + s^3\left(C_1C$ **10.402** INVALID-ORDER-402 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2C_LL_1L_2R_Lg_m + C_1C_2C_LL_1L_L\right) + s^4\left(C_1C_2C_LL_1R_L + C_1C_2L_1L_2g_m + C_1C_LL_1L_Lg_m + C_2C_LL_2L_g_m\right) + s^3\left(C_1C_2L_1 + C_1C_LL_1R_Lg_m + C_2C_LL_2R_Lg_m + C_2C_LL_L\right) + s^2\left(C_1L_1g_m + C_2C_LL_1\right) + s^2\left(C_1L_1g_m + C_2C_LL_1L_2g_m + C_2C_LL_2R_Lg_m\right) + s^2\left(C_1C_2C_LL_1 + C_1C_LL_1R_Lg_m + C_2C_LL_1R_Lg_m\right) + s^2\left(C_1C_2C_LL_1 + C_1C_LL_1R_Lg_m + C_2C_LL_1R_Lg_m\right) + s^2\left(C_1C_2C_LL_1 + C_1C_LL_1R_Lg_m + C_2C_LL_1R_Lg_m\right) + s^2\left(C_1C_2C_LL_1 + C_1C_LL_1R_Lg_m\right) + s^2\left$ 10.403 INVALID-ORDER-403 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_1C_2L_1L_2L_LR_Lg_ms^5 + C_1C_2L_1L_LR_Ls^4 + C_2L_LR_Ls^2 + L_LR_Lg_ms + s^3\left(C_1L_1L_LR_Lg_m + C_2L_2L_LR_Lg_m\right)}{C_1C_2C_LL_1L_2L_LR_Lg_ms^6 + R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_L + C_1C_2L_LL_LR_Lg_m\right) + s^4\left(C_1C_2L_1L_2R_Lg_m + C_1C_2L_1L_LR_Lg_m + C_2C_LL_2L_LR_Lg_m\right) + s^4\left(C_1C_2L_1L_2R_Lg_m + C_1C_2L_1L_LR_Lg_m + C_2C_LL_2L_RL_Lg_m\right) + s^4\left(C_1C_2L_1L_2R_Lg_m + C_1C_2L_1L_LR_Lg_m + C_2C_LL_2L_RR_Lg_m\right) + s^4\left(C_1C_2L_1L_2R_Lg_m + C_1C_2L_1L_RR_Lg_m + C_2C_LL_2L_RR_Lg_m\right) + s^4\left(C_1C_2L_1L_2R_Lg_m + C_1C_2L_1L_RR_Lg_m + C_2C_LL_2L_RR_Lg_m\right) + s^4\left(C_1C_2L_1L_2R_Lg_m + C_1C_2L_1L_RR_Lg_m + C_2C_LL_2R_Lg_m\right) + s^4\left(C_1C_2L_1L_2R_Lg_m + C_1C_2L_1L_RR_Lg_m + C_2C_LL_2R_Lg_m\right) + s^4\left(C_1C_2L_1R_Lg_m + C_1C_2L_1R_Lg_m + C_2C_LL_2R_Lg_m\right) + s^4\left(C_1C_2L_1R_Lg_m + C_1C_2L_1R_Lg_m\right) + s^4\left(C_1C_2L_1R_Lg_m + C_1C_2L_$ 10.404 INVALID-ORDER-404 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{C_1C_2C_LL_1L_2L_LR_Lg_ms^6 + C_1C_2C_LL_1L_LR_Ls^5 + C_2R_Ls + R_Lg_m + s^4\left(C_1C_2L_1L_2R_Lg_m + C_1C_LL_1L_LR_Lg_m + C_2C_LL_2L_LR_Lg_m\right) + s^3\left(C_1C_2L_1R_L + C_2C_LL_LR_L\right) + s^2\left(C_1L_1R_L + C_2C_LL_2R_L + C_1C_2C_LL_2R_L + C_1C_$

 $H(s) = \frac{C_1C_2C_LL_1L_2L_LR_Lg_ms^6 + R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_L + C_1C_2L_1L_2L_Lg_m\right) + s^4\left(C_1C_2L_1L_LR_Lg_m + C_1C_LL_LL_LR_Lg_m + C_2C_LL_LR_Lg_m\right) + s^3\left(C_1C_2L_1R_L + C_1L_1L_Lg_m + C_2C_LL_LR_L + C_2L_LL_Rg_m\right) + s^2\left(C_1L_1R_Lg_m + C_2L_LR_Lg_m\right) + s^2\left(C_1R_Lg_m + C_2L_Lg_m\right) + s^2\left(C_1R_Lg_m + C_2R_Lg_m\right) + s^2\left(C_1R_Lg_m + C_2R_Lg_m\right) + s^2\left(C_1R_Lg_m + C_2R_$

10.405 INVALID-ORDER-405 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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10.406 INVALID-ORDER-406 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L\right)
                                                                                                                                                                                                     H(s) = \frac{C_1C_2L_1L_2R_Lg_ms^4 + R_Lg_m + s^3\left(C_1C_2L_1R_2R_Lg_m + C_1C_2L_1R_L\right) + s^2\left(C_1L_1R_Lg_m + C_2L_2R_Lg_m\right) + s\left(C_2R_2R_Lg_m + C_2R_L\right)}{C_1C_2L_1L_2g_ms^4 + g_m + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_2L_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_L + C_1L_1g_m + C_2L_2g_m\right) + s\left(C_1 + C_2R_2g_m + C_2\right)}
10.407 INVALID-ORDER-407 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_L s}\right)
                                                                                                                                            H(s) = \frac{C_1C_2L_1L_2g_ms^4 + g_m + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1\right) + s^2\left(C_1L_1g_m + C_2L_2g_m\right) + s\left(C_2R_2g_m + C_2\right)}{C_1C_2C_LL_1L_2g_ms^5 + C_Lg_ms + s^4\left(C_1C_2C_LL_1R_2g_m + C_1C_2C_LL_1 + C_1C_2C_LL_2\right) + s^3\left(C_1C_2C_LR_2 + C_1C_LL_1g_m + C_2C_LL_2g_m\right) + s^2\left(C_1C_2 + C_1C_L + C_2C_LR_2g_m + C_2C_L\right)}
10.408 INVALID-ORDER-408 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)
10.409 INVALID-ORDER-409 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)
                 H(s) = \frac{C_1C_2C_LL_1L_2R_Lg_ms^5 + g_m + s^4\left(C_1C_2C_LL_1R_2R_Lg_m + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_LL_1R_Lg_m + C_2C_LL_2R_Lg_m\right) + s^2\left(C_1L_1g_m + C_2C_LR_2R_Lg_m + C_2C_LR_2R_Lg_m + C_2C_LR_L + C_2L_2g_m\right) + s\left(C_2R_2g_m + C_2C_LR_Lg_m\right) + s\left(C_2R_2
10.410 INVALID-ORDER-410 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)
           H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2C_LL_1L_LR_2g_m + C_1C_2C_LL_1L_L\right) + s^4\left(C_1C_2L_1L_2g_m + C_1C_LL_1L_Lg_m + C_2C_LL_2L_g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_LR_2g_m + C_2C_LL_L\right) + s^2\left(C_1L_1g_m + C_2L_2g_m + C_LL_2g_m\right) + s\left(C_2R_2g_m + C_2C_LL_1R_2g_m + C_2C_LL_1R_2g_m + C_2C_LL_1R_2g_m + C_2C_LL_1R_2g_m\right) + s^2\left(C_1C_2L_1L_2g_ms^5 + C_Lg_ms^5 + 
10.411 INVALID-ORDER-411 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)
                            10.412 INVALID-ORDER-412 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2C_LL_1L_2R_Lg_m + C_1C_2C_LL_1L_LR_2g_m + C_1C_2C_LL_1L_L\right) + s^4\left(C_1C_2C_LL_1R_2R_Lg_m + C_1C_2L_1L_Lg_m + C_1C_LL_1L_Lg_m + C_2C_LL_2L_Lg_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_LL_1R_Lg_m + C_2C_LL_2R_Lg_m + C_1C_2L_1R_Lg_m + C_2C_LL_2R_Lg_m + C_2C_LL_2
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10.413 INVALID-ORDER-413 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $C_1C_2L_1L_2L_LR_Lg_ms^5 + L_LR_Lg_ms + s^4(C_1C_2L_1L_LR_2R_Lg_m)$ $H(s) = \frac{C_1C_2C_LL_1L_2L_LR_2g_m - C_1C_2L_1L_2L_2g_m - C_1C_2L_1L_2R_2g_m - C_1C_2L_2R_2g_m - C_1C_2L_2R_2g_m - C_1C_2L_2R_2g_m - C_1C_2L_2R_2g_m - C_1C_2L_2R_2g_m - C_1C_2L_2R_2g_m - C_1C_2R_2g_m - C_1C_2R_2g$

10.414 INVALID-ORDER-414 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{C_1C_2C_LL_1L_2L_LR_Lg_ms^6 + R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_2g_m + C_1C_2L_1L_LR_Lg_m + S^4\left(C_1C_2L_1L_LR_2g_m + C_1C_2L_1L_LR_2g_m + C_1C_2L_1L_LR_Lg_m + S^4\left(C_1C_2L_1L_LR_2g_m + C_1C_2L_1L_LR_2g_m + C_1C_2L_LL_RL_g_m \right) + s^3\left(C_1C_2L_1R_2R_Lg_m + C_1C_2L_1R_LR_Lg_m + C_1C_2L_1L_LR_Lg_m + C_1C_2L_1L_Lg_m + C_1C_2L_1L_Lg_m + C_1C_2L_1L_Lg_m + C_1C_2$

10.415 INVALID-ORDER-415 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{L}g_{m}s^{6} + R_{L}g_{m} + s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{L}R_{2}R_{L}g_{m} + C_{1}C_{2}C_{L}L_{1}L_{L}R_{L}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{2}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{L}g_{m} + C_{2}C_{L}L_{2}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{2}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{L}g_{m} + C_{2}C_{L}L_{2}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{2}R_{L}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{1}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{1}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{1}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{1}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{1}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{L}R_{L}g_{m}\right) + s^{4}\left(C_{1}C_{2}L_{1}L_{L}R_{L}g_{m}\right)$ $H(s) = \frac{1}{C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}g_{m}s^{6} + g_{m} + s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{2}R_{L}g_{m} + C_{1}C_{2}C_{L}L_{1}L_{L} + C_{1}C_{2}C_{L}L_{1}L_{L} + C_{1}C_{2}C_{L}L_{1}R_{L} + C_{1$

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10.416 INVALID-ORDER-416 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                 H(s) = \frac{C_1L_1L_2R_Lg_ms^3 + L_2R_Lg_ms + R_2R_Lg_m + R_L + s^4\left(C_1C_2L_1L_2R_2R_Lg_m + C_1C_2L_1L_2R_L\right) + s^2\left(C_1L_1R_2R_Lg_m + C_1L_1R_L + C_2L_2R_2R_Lg_m + C_2L_2R_L\right)}{R_2g_m + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2\right) + s^3\left(C_1C_2L_2R_2 + C_1C_2L_2R_L + C_1L_1L_2g_m\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_1L_2 + C_2L_2R_2g_m + C_2L_2\right) + s\left(C_1R_2 + C_1R_L + L_2g_m\right) + 1}
10.417 INVALID-ORDER-417 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                   H(s) = \frac{C_1L_1L_2g_ms^3 + L_2g_ms + R_2g_m + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2L_2R_2g_m + C_2L_2\right) + 1}{s^5\left(C_1C_2C_LL_1L_2R_2g_m + C_1C_2L_1L_2\right) + s^4\left(C_1C_2C_LL_1L_2R_2g_m + S^4\left(C_1C_2L_1L_2R_2g_m + C_1C_LL_1R_2g_m + C_1C_LL_1 + C_1C_LL_2 + C_2C_LL_2R_2g_m + C_2C_LL_2\right) + s^2\left(C_1C_LR_2 + C_LL_2g_m\right) + s\left(C_1C_LR_2g_m + C_1C_LL_1R_2g_m + C_1C_LL_1 + C_1C_LL_2 + C_2C_LL_2R_2g_m + C_2C_LL_2\right) + s^2\left(C_1C_LR_2 + C_1C_LR_2g_m + C_1C_LL_1R_2g_m + C_1C_LL_1 + C_1C_LL_2 + C_2C_LL_2\right) + s^2\left(C_1C_LR_2 + C_1C_LL_1R_2g_m + C_1C_LL_1 + C_1C_LL_2 + C_2C_LL_2\right) + s^2\left(C_1C_LR_2 + C_1C_LR_2 + C_1C_LR_2\right) + s^2\left(C_1C_LR_2 + C_1C_LR_2\right) + s^2\left(C_1C_LR_2\right) +
10.418 INVALID-ORDER-418 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                          \frac{C_{1}L_{1}L_{2}R_{L}g_{m}s^{3}+L_{2}R_{L}g_{m}s+R_{2}R_{L}g_{m}+R_{L}+s^{4}\left(C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}L_{1}R_{L}+C_{2}L_{2}R_{L}g_{m}+C_{1}L_{1}R_{L}+C_{2}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{L}g_{m}+
10.419 INVALID-ORDER-419 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
10.420 INVALID-ORDER-420 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_LL_1L_2L_Lg_ms^5 + L_2g_ms + R_2g_m + s^6\left(C_1C_2C_LL_1L_2L_Lg_m + C_1C_2L_LL_2L_L\right) + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2 + C_1C_LL_1L_LR_2g_m + C_1C_LL_1L_L + C_2C_LL_2L_LR_2g_m + C_2C_LL_2L_L\right) + s^3\left(C_1L_1L_2g_m + C_LL_2L_Lg_m\right) + s^2\left(C_1L_1R_2g_m + C_1L_1L_2R_2g_m + C_1C_LL_1L_2R_2g_m + C_1C_LL_1L_2R_2g_m + C_1C_LL_1L_2R_2g_m + C_1C_LL_1L_2R_2g_m + C_1C_LL_1R_2g_m + C_1C_LL_1R_2g
10.421 INVALID-ORDER-421 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C_{1}L_{1}L_{2}L_{L}g_{m}s^{4} + L_{2}L_{L}g_{m}s^{2} + s^{5}\left(C_{1}C_{2}L_{1}L_{2}L_{L}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}L_{L}\right) + s^{3}\left(C_{1}L_{1}L_{L}R_{2}g_{m} + C_{1}L_{1}L_{L} + C_{2}L_{2}L_{L}R_{2}g_{m} + C_{2}L_{2}L_{L}\right) + s^{3}\left(C_{1}L_{1}L_{L}R_{2}g_{m} + C_{1}L_{1}L_{L}\right) + s^{3}\left(C_{1}L_{1}L_{1}L_{L}R_{2}g_{m} + C_{1}L_{1}L_{L}\right) + s^{3}\left(C_{1}L_{1}L_{1}L_{L}R_{2}g_{m} + C_{1}L_{1}L_{L}\right) + s^{3}\left(C_{1}L_{1}L_{1}L_{L}R_{2}g_{m} + C
                                            \frac{C_1L_1L_2L_Lg_ms^4 + L_2L_Lg_ms^4 + C_1C_2L_1L_2L_LR_2g_m + C_1C_2L_1L_2L_L) + s^5\left(C_1L_1L_LR_2g_m + C_1L_1L_L + C_2L_2L_LR_2g_m + C_1L_2L_L\right) + s^6\left(C_1C_2L_LL_2L_LR_2g_m + C_1C_2L_LL_LR_2g_m + C_1C_2L_LR_2g_m + C
10.422 INVALID-ORDER-422 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
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 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_L g_m + C_1 C_L L_1 L_2 R_L g_$

10.423 INVALID-ORDER-423 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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

10.424 INVALID-ORDER-424 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

10.425 INVALID-ORDER-425 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $\frac{R_{2}g_{m}+s^{6}\left(C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{2}g_{m}+C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}\right)+s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{2}R_{L}g_{m}+C_{1}C_{2}C_{L}L_{1}L_{2}R_{L}g_{m}$

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 \textbf{10.426} \quad \textbf{INVALID-ORDER-426} \ \ Z(s) = \left( L_1 s + \frac{1}{C_1 s}, \ \frac{R_2 \left( C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L \right) \\  H(s) = \frac{C_1 C_2 L_1 R_2 R_L s^3 + C_2 R_2 R_L s + R_2 R_L g_m + R_L + s^4 \left( C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 R_L \right) + s^2 \left( C_1 L_1 R_2 R_L g_m + C_1 L_1 R_L + C_2 L_2 R_2 R_L g_m + C_2 L_2 R_L \right) }{R_2 g_m + s^4 \left( C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 \right) + s^3 \left( C_1 C_2 L_1 R_2 + C_1 C_2 L_2 R_L \right) + s^2 \left( C_1 C_2 R_2 R_L + C_1 L_1 R_2 g_m + C_1 L_1 + C_2 L_2 R_2 g_m + C_2 L_2 \right) + s \left( C_1 R_2 + C_1 R_L + C_2 R_2 \right) + 1 }
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10.427 INVALID-ORDER-427
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_1C_2L_1R_2s^3 + C_2R_2s + R_2g_m + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2L_2R_2g_m + C_2L_2\right) + 1}{s^5\left(C_1C_2C_LL_1L_2R_2g_m + C_1C_2C_LL_1R_2 + c_1C_2C_LL_2R_2\right) + s^4\left(C_1C_2C_LL_1R_2 + C_1C_2C_LL_1R_2g_m + C_1C_LL_1R_2g_m + C_1C_LL_1 + C_2C_LL_2R_2g_m + C_2C_LL_2\right) + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_1C_LR_2 + C_1C_LR_2 + C_1C_LR_2 + C_1C_LR_2\right) + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_1C_LR_2 + C_1C_LR_2\right) + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_1C_LR_2\right) + s^2\left(C_1C_2R_2 + C_1C_LR_2 + C_1C_LR_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_2 +$

10.428 INVALID-ORDER-428
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

 $H(s) = \frac{C_1C_2L_1R_2R_Ls^3 + C_2R_2R_Ls + R_2R_Lg_m + R_L + s^4\left(C_1C_2L_1L_2R_2R_Lg_m + C_1C_2L_1L_2R_L\right) + s^2\left(C_1L_1R_2R_Lg_m + C_1L_1R_L + C_2L_2R_2R_Lg_m + C_1C_2L_1R_2R_Lg_m + C_1C_2L_1R_2$

10.429 INVALID-ORDER-429
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_L L_1 L_2 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_L\right) + s^4 \left(C_1 C_2 C_L L_1 R_2 R_L + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2\right) + s^3 \left(C_1 C_2 L_1 R_2 + C_1 C_L L_1 R_2 R_L g_m + C_1 C_L L_1 R_2 R_L g_m + C_1 C_L L_2 R_2 R_L g_m + C_2 C_L L_2 R_L\right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_2 C_L R_2 R_L + C_2 C_L L_2 R_2 g_m + C_2 C_L L_2 R_L\right) + s^2 \left(C_1 C_2 C_L L_1 L_2 R_2 g_m + C_1 C_L L_1 R_2 g_m + C_1 C_L L_1 R_2 g_m + C_2 C_L L_2 R_2 R_L + C_1 C_L L_1 R_2 g_m + C_2 C_L L_2 R_2 R_L + C_2 C_L L_2 R_L + C_2 C_L L_2 R_2 R_L + C_2 C_L L_2 R_2 R_L + C_2 C_L L_2 R_L + C_2 C_L L_2$

10.430 INVALID-ORDER-430
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{C_1C_2C_LL_1L_LR_2s^5 + C_2R_2s + R_2g_m + s^6\left(C_1C_2C_LL_1L_2L_Rg_m + C_1C_2L_1L_2L_L\right) + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2 + C_1C_LL_1L_LR_2g_m + C_1C_LL_1L_L + C_2C_LL_2L_LR_2g_m + C_2C_LL_2L_L\right) + s^3\left(C_1C_2L_1R_2 + C_2C_LL_1R_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1L_2R_2g_m + C_1C_LL_1L_L + C_2C_LL_2L_LR_2g_m + C_2C_LL_2L_L\right) + s^2\left(C_1L_1R_2g_m + C_1L_1L_2R_2g_m + C_1C_LL_1L_2R_2g_m + C_1C_LL_1R_2g_m + C_1$

10.431 INVALID-ORDER-431
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

 $H(s) = \frac{C_1C_2L_1L_2R_2s^4 + C_2L_LR_2s^2 + s^5\left(C_1C_2L_1L_2L_LR_2g_m + C_1C_2L_1L_2L_L\right) + s^3\left(C_1L_1L_LR_2g_m + C_1L_1L_L + C_2L_2L_LR_2g_m + C_2L_2L_L\right) + s\left(C_1C_2L_1L_2L_LR_2g_m + C_1C_2L_1L_2L_LR_2g_m + C_1C_2L_1L_2L_L\right) + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2L_L\right) + s^4\left(C_1C_2L_1L_2L_LR_2g_m + C_1C_2L_1L_2L_L\right) + s^4\left(C_1C_2L_1L_2L_2R_2g_m + C_1C_2L_1L_2L_L\right) + s^4\left(C_1C_2L_1L_2L_2R_2g_m + C_1C_2L_2L_L\right) + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_2L_L\right) + s^4\left(C_1C_2L_2L_2R_2g_m + C_1C_2L_2L_L\right) + s^4\left(C$

10.432 INVALID-ORDER-432
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L\right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_L + C_1 C_2 C_L L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_L L_1 L_L R_2 g_m + C_1 C_L L_1 L_L R_2 g_m + C_1 C_L L_2 L_L R_2 g_m + C_1 C_2 C_L L_2 R_2 R_L + C_1 C_2 C_L L_2 R_L +$

10.433 INVALID-ORDER-433
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

 $H(s) = \frac{C_1 C_2 L_1 L_2 R_2 R_L s^4 + C_2 L_L R_2}{R_2 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 L_L L_L R_2 R_L + C_1 C_2 L_L R_2$

10.434 INVALID-ORDER-434
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 L_L L_L L_L R_2 R_L + C_1 C_2 L_1 L_2 R_L R_2 R_L + C_1 C_2 L_1 L_2 R_L R_2 R_L R_2 R_L + C_1 C_2 L_1 L_2 R$

10.435 INVALID-ORDER-435
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{C_1C_2C_LL_1L_LR_2R_Ls^5 + C_2R_2R_Ls + R_2R_Lg_m + R_L + s^6\left(C_1C_2C_LL_1L_2L_LR_2R_Lg_m + C_1C_2C_LL_1L_2L_LR_L\right) + s^6\left(C_1C_2C_LL_1L_2L_LR_2R_Lg_m + C_1C_2C_LL_1L_2R_L\right) + s^6\left(C_1C_2C_LL_1L_2L_LR_2R_L + C_1C_2C_LL_1L_2R_L\right) + s^6\left(C_1C_2C_LL_1L_2R_L + C_1C_2C_LL_1L_2R_L\right) + s^6\left(C_1C_2C_LL_1L_2R_L\right) +$

10.436 INVALID-ORDER-436 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{s \left(L_1 R_2 g_m + L_1 \right)}{C_1 C_L L_1 R_2 s^3 + C_L R_2 s + s^2 \left(C_1 L_1 + C_L L_1 R_2 g_m + C_L L_1 \right) + 1}$$

10.437 INVALID-ORDER-437 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

10.438 INVALID-ORDER-438 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{s^2 \left(C_L L_1 R_2 R_L g_m + C_L L_1 R_L \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^3 \left(C_1 C_L L_1 R_2 + C_1 C_L L_1 R_L \right) + s^2 \left(C_1 L_1 + C_L L_1 R_2 g_m + C_L L_1 \right) + s \left(C_L R_2 + C_L R_L \right) + 1}$$

10.439 INVALID-ORDER-439 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{s^3 \left(C_L L_1 L_L R_2 g_m + C_L L_1 L_L \right) + s \left(L_1 R_2 g_m + L_1 \right)}{C_1 C_L L_1 L_L s^4 + C_1 C_L L_1 R_2 s^3 + C_L R_2 s + s^2 \left(C_1 L_1 + C_L L_1 R_2 g_m + C_L L_1 + C_L L_1 \right) + 1}$$

10.440 INVALID-ORDER-440 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{s^2 \left(L_1 L_L R_2 g_m + L_1 L_L \right)}{C_1 C_L L_1 L_L R_2 s^4 + R_2 + s^3 \left(C_1 L_1 L_L + C_L L_1 L_L R_2 g_m + C_L L_1 L_L \right) + s^2 \left(C_1 L_1 R_2 + C_L L_L R_2 \right) + s \left(L_1 R_2 g_m + L_1 + L_L \right)}$$

10.441 INVALID-ORDER-441 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{s^3 \left(C_L L_1 L_L R_2 g_m + C_L L_1 L_L \right) + s^2 \left(C_L L_1 R_2 R_L g_m + C_L L_1 R_L \right) + s \left(L_1 R_2 g_m + L_1 \right)}{C_1 C_L L_1 L_L s^4 + s^3 \left(C_1 C_L L_1 R_2 + C_1 C_L L_1 R_L \right) + s^2 \left(C_1 L_1 + C_L L_1 R_2 g_m + C_L L_1 + C_L L_L \right) + s \left(C_L R_2 + C_L R_L \right) + 1}$$

10.442 INVALID-ORDER-442 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{s^2 \left(L_1 L_L R_2 R_L g_m + L_1 L_L R_L \right)}{C_1 C_L L_1 L_L R_2 R_L s^4 + R_2 R_L + s^3 \left(C_1 L_1 L_L R_2 + C_1 L_1 L_L R_2 R_L g_m + C_L L_1 L_L R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_L L_L R_2 R_L + L_1 L_L R_2 g_m + L_1 L_L \right) + s \left(L_1 R_2 R_L g_m + L_1 R_L + L_L R_2 + L_L R_L \right)}$$

10.443 INVALID-ORDER-443 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{s^3 \left(C_L L_1 L_L R_2 R_L g_m + C_L L_1 L_L R_L \right) + s^2 \left(L_1 L_L R_2 g_m + L_1 L_L \right) + s \left(L_1 R_2 R_L g_m + L_1 R_L \right)}{R_2 + R_L + s^4 \left(C_1 C_L L_1 L_L R_2 + C_1 C_L L_1 L_L R_L \right) + s^3 \left(C_1 L_1 L_L R_2 g_m + C_L L_1 L_L \right) + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_L + C_L L_L R_2 + C_1 L_1 R_L \right) + s \left(L_1 R_2 g_m + L_1 + L_L \right)}$$

10.445 INVALID-ORDER-445 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_2 L_1 R_L s^2 + L_1 R_L g_m s}{C_1 C_2 L_1 R_L s^3 + s^2 \left(C_1 L_1 + C_2 L_1 \right) + s \left(C_2 R_L + L_1 g_m \right) + 1}$$

10.446 INVALID-ORDER-446 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{C_2 L_1 R_L s^2 + L_1 R_L g_m s}{s^3 \left(C_1 C_2 L_1 R_L + C_1 C_L L_1 R_L + C_2 C_L L_1 R_L \right) + s^2 \left(C_1 L_1 + C_2 L_1 + C_L L_1 R_L g_m \right) + s \left(C_2 R_L + C_L R_L + L_1 g_m \right) + 1}$$

10.447 INVALID-ORDER-447 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_1R_Ls^2 + L_1g_m + s\left(C_2L_1 + C_LL_1R_Lg_m\right)}{C_1C_2C_LL_1R_Ls^3 + C_2 + C_L + s^2\left(C_1C_2L_1 + C_1C_LL_1 + C_2C_LL_1\right) + s\left(C_2C_LR_L + C_LL_1g_m\right)}$$

10.448 INVALID-ORDER-448 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2 C_L L_1 L_L s^3 + C_2 L_1 s + C_L L_1 L_L g_m s^2 + L_1 g_m}{C_1 C_2 C_L L_1 L_L s^4 + C_2 + C_L L_1 g_m s + C_L + s^2 (C_1 C_2 L_1 + C_1 C_L L_1 + C_2 C_L L_1 + C_2 C_L L_1)}$$

10.449 INVALID-ORDER-449 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

$$H(s) = \frac{C_2 L_1 L_L s^3 + L_1 L_L g_m s^2}{C_L L_1 L_L q_m s^3 + L_1 q_m s + s^4 \left(C_1 C_2 L_1 L_L + C_1 C_L L_1 L_L + C_2 C_L L_1 L_L\right) + s^2 \left(C_1 L_1 + C_2 L_1 + C_2 L_L + C_L L_L\right) + 1}$$

10.450 INVALID-ORDER-450 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_2C_LL_1L_Ls^3 + L_1g_m + s^2\left(C_2C_LL_1R_L + C_LL_1L_Lg_m\right) + s\left(C_2L_1 + C_LL_1R_Lg_m\right)}{C_1C_2C_LL_1L_Ls^4 + C_1C_2C_LL_1R_Ls^3 + C_2 + C_L + s^2\left(C_1C_2L_1 + C_1C_LL_1 + C_2C_LL_1 + C_2C_LL_1\right) + s\left(C_2C_LR_L + C_LL_1g_m\right)}$$

10.451 INVALID-ORDER-451 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

$$H(s) = \frac{C_2L_1L_LR_Ls^3 + L_1L_LR_Lg_ms^2}{R_L + s^4\left(C_1C_2L_1L_LR_L + C_1C_LL_1L_LR_L + s^3\left(C_1L_1L_L + C_2L_1L_LR_Lg_m\right) + s^2\left(C_1L_1R_L + C_2L_1R_L + C_2$$

10.452 INVALID-ORDER-452 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

$$H(s) = \frac{C_2C_LL_1L_LR_Ls^4 + L_1R_Lg_ms + s^3\left(C_2L_1L_L + C_LL_1L_LR_Lg_m\right) + s^2\left(C_2L_1R_L + L_1L_Lg_m\right)}{C_1C_2C_LL_1L_LR_Ls^5 + s^4\left(C_1C_2L_1L_L + C_1C_LL_1L_L + C_2C_LL_1L_L\right) + s^3\left(C_1C_2L_1R_L + C_2C_LL_1R_L + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1 + C_2L_1 + C$$

10.455 INVALID-ORDER.453
$$Z(s) = \left(\frac{I_{12} - I_{12}^{2} - I_{12}^{2$$

 $H(s) = \frac{C_2L_1L_LR_2R_Ls^3 + s^2\left(L_1L_LR_2R_Lg_m + L_1L_LR_L\right)}{R_2R_L + s^4\left(C_1C_2L_1L_LR_2R_L + C_1C_LL_1L_LR_2R_L + C_2C_LL_1L_LR_2 + C_1L_1L_LR_2 + C_1L_1L_LR_2 + C_LL_1L_LR_2 + C_LL_1L_1L_1R_2 + C_LL_1L_1L_1R_2 + C_LL_1L_1L_1R_2 + C_LL_1L_1L_1R_2 + C_LL_1L_1L_1R_2 +$

 $H(s) = \frac{C_2C_LL_1L_LR_2R_Ls^4 + s^3\left(C_2L_1L_LR_2 + C_LL_1L_LR_2R_Lg_m + C_LL_1L_LR_2\right) + s^2\left(C_2L_1R_2R_L + L_1L_LR_2g_m + L_1L_L\right) + s\left(L_1R_2R_Lg_m + L_1R_L\right) + s\left(L_1R_2R_Lg_m + L_1R$

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H(s) = \frac{C_2C_LL_1L_LR_2R_Ls^4 + C_2L_1R_2R_Ls^2 + s^3\left(C_LL_1L_LR_2R_Lg_m + C_LL_1L_LR_L\right) + s\left(L_1R_2R_Lg_m + L_1R_L\right)}{C_1C_2C_LL_1L_LR_2R_Ls^5 + R_2 + R_L + s^4\left(C_1C_LL_1L_LR_2 + C_1C_LL_1L_R\right) + s^3\left(C_1C_2L_1R_2R_L + C_2C_LL_1R_2R_L + C_
10.464 INVALID-ORDER-464 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                                     H(s) = \frac{L_1 R_L g_m s + s^2 \left( C_2 L_1 R_2 R_L g_m + C_2 L_1 R_L \right)}{s^3 \left( C_1 C_2 L_1 R_2 + C_1 C_2 L_1 R_L \right) + s^2 \left( C_1 L_1 + C_2 L_1 R_2 q_m + C_2 L_1 \right) + s \left( C_2 R_2 + C_2 R_L + L_1 q_m \right) + 1}
10.465 INVALID-ORDER-465 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                     H(s) = \frac{L_{1}g_{m} + s\left(C_{2}L_{1}R_{2}g_{m} + C_{2}L_{1}\right)}{C_{1}C_{2}C_{L}L_{1}R_{2}s^{3} + C_{2} + C_{L} + s^{2}\left(C_{1}C_{2}L_{1} + C_{1}C_{L}L_{1} + C_{2}C_{L}L_{1}R_{2}g_{m} + C_{2}C_{L}L_{1}\right) + s\left(C_{2}C_{L}R_{2} + C_{L}L_{1}g_{m}\right)}
10.466 INVALID-ORDER-466 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                10.467 INVALID-ORDER-467 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                          H(s) = \frac{L_{1}g_{m} + s^{2}\left(C_{2}C_{L}L_{1}R_{2}R_{L}g_{m} + C_{2}C_{L}L_{1}R_{L}\right) + s\left(C_{2}L_{1}R_{2}g_{m} + C_{2}L_{1} + C_{L}L_{1}R_{L}g_{m}\right)}{C_{2} + C_{L} + s^{3}\left(C_{1}C_{2}L_{L}L_{1}R_{2} + C_{1}C_{2}L_{L}L_{1}R_{L}\right) + s^{2}\left(C_{1}C_{2}L_{1} + C_{1}C_{L}L_{1} + C_{2}C_{L}L_{1}R_{2}g_{m} + C_{2}C_{L}L_{1}\right) + s\left(C_{2}C_{L}R_{2} + C_{2}C_{L}R_{L} + C_{L}L_{1}g_{m}\right)}
10.468 INVALID-ORDER-468 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                           H(s) = \frac{C_L L_1 L_L g_m s^2 + L_1 g_m + s^3 \left(C_2 C_L L_1 L_L R_2 g_m + C_2 C_L L_1 L_L\right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1\right)}{C_1 C_2 C_L L_1 L_L s^4 + C_1 C_2 C_L L_1 R_2 s^3 + C_2 + C_L + s^2 \left(C_1 C_2 L_1 + C_1 C_L L_1 + C_2 C_L L_1 R_2 g_m + C_2 C_L L_1 + C_2 C_L L_1\right) + s \left(C_2 C_L R_2 + C_L L_1 g_m\right)}
10.469 INVALID-ORDER-469 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                            10.470 INVALID-ORDER-470 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                                                                H(s) = \frac{L_{1}g_{m} + s^{3}\left(C_{2}C_{L}L_{1}L_{L}R_{2}g_{m} + C_{2}C_{L}L_{1}L_{L}\right) + s^{2}\left(C_{2}C_{L}L_{1}R_{2}R_{L}g_{m} + C_{2}C_{L}L_{1}R_{L} + C_{L}L_{1}L_{L}g_{m}\right) + s\left(C_{2}L_{1}R_{2}g_{m} + C_{2}L_{1} + C_{L}L_{1}R_{L}g_{m}\right)}{C_{1}C_{2}C_{L}L_{1}L_{L}s^{4} + C_{2} + C_{L} + s^{3}\left(C_{1}C_{2}L_{L}L_{1}R_{2} + C_{1}C_{2}L_{L}L_{1} + C_{1}C_{L}L_{1} + C_{2}C_{L}L_{1}R_{2}g_{m} + C_{2}C_{L}L_{1} + C_{2}C_{L}L_{1}\right) + s\left(C_{2}C_{L}R_{2} + C_{2}C_{L}R_{L} + C_{L}L_{1}g_{m}\right)}
10.471 INVALID-ORDER-471 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{L_1 L_L R_L g_m s^2 + s^3 \left( C_2 L_1 L_L R_2 R_L g_m + C_2 L_1 L_L R_L \right)}{C_1 C_2 C_L L_1 L_L R_2 R_L s^5 + R_L + s^4 \left( C_1 C_2 L_1 L_L R_2 + C_1 C_2 L_1 L_L R_L + C_2 C_L L_1 L_L R_L + C_2 C_L L_1 L_L R_L \right) + s^3 \left( C_1 C_2 L_1 R_2 R_L + C_1 L_1 L_L R_2 R_L g_m + C_2 L_1 L_L R_2 R_L + C_1 L_1 L_L R_2 R_L g_m + C_2 L_1 R
10.472 INVALID-ORDER-472 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
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10.463 INVALID-ORDER-463 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

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

$$\begin{aligned} \textbf{10.477} \quad \textbf{INVALID-ORDER-477} \ \ Z(s) &= \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \ L_{2}s+\frac{1}{C_{2}s}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_{L}+\frac{1}{C_{L}s}\right) \\ & H(s) &= \frac{C_{2}C_{L}L_{1}L_{2}R_{L}g_{m}s^{3}+L_{1}g_{m}+s^{2}\left(C_{2}C_{L}L_{1}R_{L}+C_{2}L_{1}L_{2}g_{m}\right)+s\left(C_{2}L_{1}+C_{L}L_{1}R_{L}g_{m}\right)}{C_{1}C_{2}C_{L}L_{1}L_{2}s^{4}+C_{2}+C_{L}+s^{3}\left(C_{1}C_{2}C_{L}L_{1}R_{L}+C_{2}C_{L}L_{1}L_{2}g_{m}\right)+s^{2}\left(C_{1}C_{2}L_{1}+C_{1}C_{L}L_{1}+C_{2}$$

$$\begin{aligned} \textbf{10.478} \quad \textbf{INVALID-ORDER-478} \ \ Z(s) &= \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right) \\ & H(s) &= \frac{C_2 C_L L_1 L_2 L_L g_m s^4 + C_2 C_L L_1 L_L s^3 + C_2 L_1 s + L_1 g_m + s^2 \left(C_2 L_1 L_2 g_m + C_L L_1 L_L g_m\right)}{C_2 C_L L_1 L_2 g_m s^3 + C_2 + C_L L_1 g_m s + C_L + s^4 \left(C_1 C_2 C_L L_1 L_2 + C_1 C_2 C_L L_1 L_L\right) + s^2 \left(C_1 C_2 L_1 + C_1 C_L L_1 + C_2 C_L L_1 + C_2 C_L L_1 + C_2 C_L L_1\right)} \end{aligned}$$

$$\textbf{10.480} \quad \textbf{INVALID-ORDER-480} \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_2 C_L L_1 L_2 L_L g_m s^4 + L_1 g_m + s^3 \left(C_2 C_L L_1 L_2 R_L g_m + C_2 C_L L_1 L_L\right) + s^2 \left(C_2 C_L L_1 R_L + C_2 L_1 L_2 g_m + C_L L_1 L_2 g_m\right) + s \left(C_2 L_1 + C_L L_1 R_L g_m\right) }{C_2 + C_L + s^4 \left(C_1 C_2 C_L L_1 L_2 + C_1 C_2 C_L L_1 L_L\right) + s^3 \left(C_1 C_2 C_L L_1 R_L + C_2 C_L L_1 L_2 g_m\right) + s^2 \left(C_1 C_2 L_1 + C_1 C_L L_1 + C_2 C_L$$

10.481 INVALID-ORDER-481
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_2L_1L_2L_LR_Lg_ms^4 + C_2L_1L_LR_Ls^3 + L_1L_LR_Lg_ms^2}{C_1C_2C_LL_1L_2L_LR_Ls^6 + R_L + s^5\left(C_1C_2L_1L_2L_L + C_2C_LL_1L_2R_L + C_1C_2L_1L_LR_L + C_1C_LL_1L_LR_L + C_2C_LL_1L_LR_L + C_2C_LL_1L_1L_1R_L + C_2C_LL_1L_1R_L + C_2C_LL_1R_L + C_2C_L$$

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10.483 INVALID-ORDER-483 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_2C_LL_1L_2L_LR_Lg_ms^5 + C_2C_LL_1L_LR_Ls^4 + C_2L_1R_Ls^2 + L_1R_Lg_ms + s^3\left(C_2L_1L_2R_Lg_m + C_LL_1L_LR_Lg_m\right)}{C_1C_2C_LL_1L_2L_Ls^6 + s^5\left(C_1C_2C_LL_1L_2R_L + C_1C_LL_1L_LR_L + C_2C_LL_1L_LR_L + C_2C_LL_1L_L + C_2C_LL_1L_LR_L + C_2C_LL_1L_1L_LR_L + C_2C_LL_1L_1L_LR_L + C_2C_LL_1L_1L_1R_L + C_2C_LL_1L_1R_L + C_2C_LL_1R_L + C_2C_LL_1R
10.484 INVALID-ORDER-484 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                           H(s) = \frac{C_2L_1L_2R_Lg_ms^3 + L_1R_Lg_ms + s^2\left(C_2L_1R_2R_Lg_m + C_2L_1R_L\right)}{C_1C_2L_1L_2s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_2L_1R_L + C_2L_1L_2q_m\right) + s^2\left(C_1L_1 + C_2L_1R_2q_m + C_2L_1 + C_2L_2\right) + s\left(C_2R_2 + C_2R_L + L_1q_m\right) + 1}
10.485 INVALID-ORDER-485 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                         H(s) = \frac{C_2L_1L_2g_ms^2 + L_1g_m + s\left(C_2L_1R_2g_m + C_2L_1\right)}{C_1C_2C_LL_1L_2s^4 + C_2 + C_L + s^3\left(C_1C_2C_LL_1R_2 + C_2C_LL_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_LL_1 + C_2C_LL_1R_2g_m + C_2C_LL_1 + C_2C_LL_2\right) + s\left(C_2C_LR_2 + C_LL_1g_m\right)}
10.486 INVALID-ORDER-486 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_2L_1L_2R_Lg_ms^3 + L_1R_Lg_ms + s^2\left(C_2L_1R_2R_Lg_m + C_2L_1R_L\right)}{C_1C_2C_LL_1L_2R_Ls^5 + s^4\left(C_1C_2C_LL_1R_2R_L + C_1C_2L_1L_2 + C_2C_LL_1R_2 + C_1C_2L_1R_2 + C_1C_2L_1R_L + C_2C_LL_1R_L + C_2C_LL_1R
10.487 INVALID-ORDER-487 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                            H(s) = \frac{C_2C_LL_1L_2R_Lg_ms^3 + L_1g_m + s^2\left(C_2C_LL_1R_2R_Lg_m + C_2C_LL_1R_L + C_2L_1L_2g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 + C_LL_1R_Lg_m\right)}{C_1C_2C_LL_1L_2s^4 + C_2 + C_L + s^3\left(C_1C_2L_1R_2 + C_1C_2C_LL_1R_L + C_2C_LL_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_2C_LL_1R_2g_m + C_2C_LL_1 + C_2C_LL_1\right) + s\left(C_2C_LR_2 + C_2C_LR_L + C_LL_1g_m\right)}
10.488 INVALID-ORDER-488 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                        H(s) = \frac{C_2C_LL_1L_2L_Lg_ms^4 + L_1g_m + s^3\left(C_2C_LL_1L_LR_2g_m + C_2C_LL_1L_L\right) + s^2\left(C_2L_1L_2g_m + C_LL_1L_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1\right)}{C_2 + C_L + s^4\left(C_1C_2C_LL_1L_2 + C_1C_2C_LL_1L_L\right) + s^3\left(C_1C_2C_LL_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_LL_1 + C_2C_LL_1R_2g_m + C_2C_LL_1\right) + s\left(C_2C_LR_2 + C_LL_1g_m\right)}
10.489 INVALID-ORDER-489 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_2L_1L_2L_Lg_ms^4 + L_1L_Lg_ms^2 + s^3\left(C_2L_1L_LR_2g_m + C_2L_1L_L\right)}{C_1C_2C_LL_1L_2L_Ls^6 + s^5\left(C_1C_2C_LL_1L_LR_2 + C_2C_LL_1L_LR_2 + C_2C_LL_1L_L + C_1C_LL_1L_L + C_2C_LL_1L_L + C_2C_LL_1L_1L_1 + C_2C_LL_1L_1 + C_2C_LL_1 +
10.490 INVALID-ORDER-490 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
                                                                            H(s) = \frac{C_2C_LL_1L_2L_Lg_ms^4 + L_1g_m + s^3\left(C_2C_LL_1L_2R_Lg_m + C_2C_LL_1L_LR_2g_m + C_2C_LL_1L_L\right) + s^2\left(C_2C_LL_1R_2R_Lg_m + C_2C_LL_1R_L + C_2L_1L_2g_m + C_LL_1L_Lg_m\right) + s\left(C_2L_1R_2g_m + C_2L_1L_2g_m + C_2L_1L_2g_m + C_2L_1L_2g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1R_2g_m + C_2L_1L_2g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1R_2g_m + C_2L_1R_2g_m\right) + s\left(C_2L_1R
10.491 INVALID-ORDER-491 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
H(s) = \frac{C_2L_1L_2L_LR_Lg_ms + L_1L_LR_Lg_ms + L_1L_Lg_ms + L_1L_
10.492 INVALID-ORDER-492 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
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 $\frac{C_2C_LL_1L_2L_Rg_ms^5 + L_1R_Lg_ms + s^4\left(C_2C_LL_1L_LR_2R_Lg_m + C_2C_LL_1L_LR_2 + C_2L_1L_LR_2g_m + C_2L_1L_2g_m + C_2L_1L_2g_m + C_2L_1L_2g_m + C_2L_1L_2g_m + C_2L_1L_2g_m + C_2L_2g_m +$

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10.493 INVALID-ORDER-493 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_2C_LL_1L_2L_LR_Lg_ms^5 + L_1R_Lg_ms + s^4(C_2C_LL_1L_LR_2R_Lg_m + C_2C_LL_1L_LR_L) + s^3(C_2C_LL_1L_2R_Lg_ms^5 + L_1R_Lg_ms^5 + L_1R_Lg_ms^5)
H(s) = \frac{C_2C_LL_1L_2L_LR_2g_ms^5 + L_1R_Lg_ms + s^4\left(C_2C_LL_1L_LR_2R_Lg_m + C_2C_LL_1L_LR_L\right) + s^3\left(C_2C_LL_1L_2L_LS^6 + s^5\left(C_1C_2C_LL_1L_2R_L + C_1C_2L_1L_LR_2 + C_1C_2L_1L_LR_L\right) + s^3\left(C_1C_2C_LL_1L_2R_LS^6 + s^5\left(C_1C_2C_LL_1L_2R_L + C_1C_2L_1L_LR_L + C_2C_LL_1L_LR_L\right) + s^3\left(C_1C_2L_1L_LR_L + C_2C_LL_1L_LR_L + C_2C_LL_1L_LR_L\right) + s^3\left(C_1C_2C_LL_1L_2R_L + C_1C_2L_1L_LR_L + C_2C_LL_1L_LR_L + C_2C_LL_1L_1L_1 + C_2C_LL_1L_1L_1 + C_2C_LL_1L_1L_1 + C_2C_LL_1L_1L_1 + C_2C_LL_1L_1L_1 + C_2C_LL_1L_1L_1 + C_
10.494 INVALID-ORDER-494 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                     H(s) = \frac{L_1 L_2 R_L g_m s^2 + s^3 \left(C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L\right) + s \left(L_1 R_2 R_L g_m + L_1 R_L\right)}{R_2 + R_L + s^4 \left(C_1 C_2 L_1 L_2 R_2 + C_1 C_2 L_1 L_2 R_L\right) + s^3 \left(C_1 L_1 L_2 + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2\right) + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_L + C_2 L_2 R_2 + C_2 L_2 R_L + L_1 L_2 g_m\right) + s \left(L_1 R_2 g_m + L_1 + L_2\right)}
10.495 INVALID-ORDER-495 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                       H(s) = \frac{L_1 L_2 g_m s^2 + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2\right) + s \left(L_1 R_2 g_m + L_1\right)}{C_1 C_2 C_L L_1 L_2 R_2 s^5 + C_L R_2 s + s^4 \left(C_1 C_2 L_1 L_2 + C_1 C_L L_1 L_2 + C_2 C_L L_1 L_2\right) + s^3 \left(C_1 C_L L_1 R_2 + C_2 C_L L_2 R_2 + C_L L_1 L_2 g_m\right) + s^2 \left(C_1 L_1 + C_2 L_2 + C_L L_1 R_2 g_m + C_L L_1 + C_L L_2\right) + 1}
10.496 INVALID-ORDER-496 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    L_1L_2R_Lg_ms^2 + s^3(C_2L_1L_2R_2R_Lg_m + C_2L_1L_2R_L) + s(L_1R_2R_Lg_m + L_1R_L)
H(s) = \frac{L_1 L_2 R_L g_m s^2 + s^3 \left(C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L \right) + s \left(L_1 R_2 R_L g_m + L_1 R_L\right)}{C_1 C_2 C_L L_1 L_2 R_L s^5 + R_2 + R_L + s^4 \left(C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_2 C_L L_1 L_2 R_L \right) + s^3 \left(C_1 C_L L_1 R_2 R_L + C_1 L_1 L_2 R_2 R_L + C_2 L_1 L_2 R_2 R_L + C_2 L_1 L_2 R_2 R_L + C_2 L_1 L_2 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 L_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L + C_1 L_1 R_2 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L
10.497 INVALID-ORDER-497 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{s^4 \left( C_2 C_L L_1 L_2 R_2 R_L g_m + C_2 C_L L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L g_m + C_L L_1 L_2 R_L g_m + C_L L_1 R_L + L_1 L_2 g_m \right) \\ + s^2 \left( C_1 L_2 R_2 R_L g_m + C_L L_1 R_L + L_1 L_2 g_m + S_2 \left( C_1 L_1 R_2 R_L g_m + C_L L_1 R_L + L_1 L_2 g_m \right) \\ + s^2 \left( C_1 L_2 R_2 R_L + C_1 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 R_L + C_2 C_L L_2 R_L + C_2 C_L L_2
10.498 INVALID-ORDER-498 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.499 INVALID-ORDER-499 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_1 L_L s^2 + 1}\right)
H(s) = \frac{L_1 L_2 L_L g_m s^3 + s^4 \left(C_2 L_1 L_2 L_L R_2 g_m + C_2 L_1 L_2 L_L\right) + s^2 \left(L_1 L_L R_2 g_m + L_1 L_L\right)}{C_1 C_2 C_L L_1 L_2 L_L R_2 s^6 + R_2 + s^5 \left(C_1 C_2 L_1 L_2 L_L + C_1 C_L L_1 L_2 L_L R_2 g_m + C_2 C_L L_1 L_2 L_L\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 + C_1 C_L L_1 L_2 L_L R_2 + C_1 L_1 L_2 L_L R_2\right) + s^3 \left(C_1 L_1 L_2 L_L + C_1 L_1 L_2 L_L R_2 g_m + C_2 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 C_2 L_1 L_2 L_L R_2 R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 L_1 L_2 L_L R_2 R_2 R_2 + C_1 L_1 L_2 L_L R_2\right) + s^4 \left(C_1 L_1 L_2 L_L R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 L_L R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 L_L R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 L_2 R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 L_2 R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 L_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 L_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 L_1 L_2 R_2 R_2 R_2 R_2\right) + s^4 \left(C_1 
10.500 INVALID-ORDER-500 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                                 s^{5} \left(C_{2} C_{L} L_{1} L_{2} L_{L} R_{2} g_{m}+C_{2} C_{L} L_{1} L_{2} L_{L}\right)+s^{4} \left(C_{2} C_{L} L_{1} L_{2} R_{L} g_{m}+C_{2} C_{L} L_{1} L_{2} R_{L} g_{m}+C_{2} L_{1} L_{2} R_{L} g_{m}+C_{2} L_{1} L_{2} R_{L} g_{m}+C_{L} L_{1} L_{2} R_{L
10.501 INVALID-ORDER-501 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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 $H(s) = \frac{s^5 \left(C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_2 C_L L_1 L_2 L_L R_2 g_m + C_2 L_1 L_2 L_L R_2 g_m + C_2 L_1 L_2 L_L R_L g_m \right) + s^3 \left(C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 L_L R_2 g_m + C_2 L_2 L_2 L_2 L_L R_2 g_m + C_2 L_2 L_2 L_2 R_2 g_m + C_2 L_2 L_2 R_2 g_m + C_2$

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10.503 INVALID-ORDER-503 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{C_L L_1 L_2 L_L R_L g_m s}{R_2 + R_L + s^6 \left( C_1 C_2 C_L L_1 L_2 L_L R_2 + C_1 C_2 L_L L_L L_L R_L \right) + s^5 \left( C_1 C_2 C_L L_1 L_2 L_L R_2 R_L + C_1 C_L L_1 L_2 L_L R_2 g_m + C_2 C_L L_1 L_2 L_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 L_L R_2 + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L + C_1 C_L L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L \right) + s^4 \left( C_1 C_2 L_1 L_2 R_L \right) + s^4 \left( C_1 C_2
10.504 INVALID-ORDER-504 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 (C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                           H(s) = \frac{C_2L_1R_2R_Ls^2 + s^3\left(C_2L_1L_2R_2R_Lg_m + C_2L_1L_2R_L\right) + s\left(L_1R_2R_Lg_m + L_1R_L\right)}{R_2 + R_L + s^4\left(C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_L\right) + s^3\left(C_1C_2L_1R_2R_L + C_2L_1L_2R_2g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_2 + C_1L_1R_L + C_2L_1R_2 + C_2L_2R_L\right) + s\left(C_2R_2R_L + L_1R_2g_m + L_1\right)}
10.505 INVALID-ORDER-505 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                             H(s) = \frac{C_2L_1R_2s^2 + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_LL_1L_2R_2s^5 + s^4\left(C_1C_2L_1L_2 + C_2C_LL_1L_2R_2g_m + C_2C_LL_1R_2 + C_1C_LL_1R_2 + C_2C_LL_1R_2 + C_2C_L
10.506 INVALID-ORDER-506 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                           \frac{C_{2}L_{1}R_{2}R_{L}s^{2}+s^{3}\left(C_{2}L_{1}L_{2}R_{2}R_{L}g_{m}+C_{2}L_{1}L_{2}R_{L}\right)+s\left(L_{1}R_{2}R_{L}g_{m}+L_{1}R_{L}\right)}{C_{1}C_{2}C_{L}L_{1}L_{2}R_{2}+C_{1}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1}L_{2}R_{L}+C_{2}C_{L}L_{1
10.507 INVALID-ORDER-507 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{s^4 \left( C_2 C_L L_1 L_2 R_2 R_L g_m + C_2 C_L L_1 L_2 R_L \right) + s^3 \left( C_2 C_L L_1 R_2 R_L + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 \right) + s^2 \left( C_2 L_1 R_2 + C_L L_1 R_2 R_L g_m + C_L L_1 R_L \right) + s \left( L_1 R_2 g_m + L_1 \right)}{s^5 \left( C_1 C_2 C_L L_1 L_2 R_2 + C_1 C_2 L_1 L_2 R_2 + C_1 C_L L_1 R_2 + C_1 C_L L_1 R_2 + C_1 C_L L_1 R_2 + C_2 C_L L_2 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_2 + C_1 C_L L_1 R_2 + C_1 C_L L_1 R_2 + C_1 C_L L_1 R_2 + C_2 C_L L_2 R_2 + C_2 C_L L_2 R_2 \right) + s^2 \left( C_1 L_1 + C_2 C_L L_1 R_2 R_L + C_1 C_L L
10.508 INVALID-ORDER-508 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_2C_LL_1L_2R_2s^4 + C_2L_1R_2s^2 + s^5\left(C_2C_LL_1L_2L_LR_2g_m + C_2C_LL_1L_2\right) + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2 + C_LL_1L_LR_2g_m + C_LL_1L_L\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_LL_1L_2L_2s^6 + s^5\left(C_1C_2L_1L_2R_2 + C_1C_LL_1L_2R_2\right) + s^4\left(C_1C_2L_1L_2 + C_2C_LL_1L_2 + C_2C_LL_1L_2 + C_2C_LL_1L_2 + C_2C_LL_1R_2 + C_2C_LL
10.509 INVALID-ORDER-509 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_2L_1L_2R_2s^3 + s^4\left(C_2L_1L_2L_LR_2g_m + C_2L_1L_2L_L\right) + s^2\left(L_1L_LR_2g_m + L_1L_L\right)}{C_1C_2C_LL_1L_2L_LR_2s^6 + R_2 + s^5\left(C_1C_2L_1L_2L_L + C_2C_LL_1L_2L_L\right) + s^4\left(C_1C_2L_1L_2R_2 + C_1C_2L_1L_LR_2 + C_2C_LL_1L_LR_2 + C_2C_LL_1L_LR_2\right) + s^3\left(C_1L_1L_LR_2 + C_2C_LL_1L_LR_2 + C_2C_LL_1L_LR_2\right) + s^3\left(C_1L_1L_LR_2 + C_2C_LL_1L_2L_L + C_2C_LL_1L_LR_2\right) + s^3\left(C_1L_1L_LR_2 + C_2C_LL_1L_2L_L + C_2C_LL_1L_2L_L\right) + s^3\left(C_1L_1L_LR_2 + C_2C_LL_1L_2L_L\right) + s^3\left(C_1L_1L_2L_L\right) +
10.510 INVALID-ORDER-510 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
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 $H(s) = \frac{C_2 L_1 L_2 R_2 R_L s^6 + s^4 \left(C_2 L_1 L_2 L_L R_2 R_L s^6 + R_2 R_L + s^5 \left(C_1 C_2 L_1 L_2 L_L R_2 + C_1 C_2 L_1 L_2 L_L R_2 R_L + C_2 C_L L_1 L_2 L_L R_2 R_L + C_1 C_2 L_1 L_2 L_L R_2 R_L + C_1 C_2 L_1 L_2 L_L R_2 R_L + C_2 C_L L_1$

10.511 INVALID-ORDER-511 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

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10.512 INVALID-ORDER-512 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
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 $H(s) = \frac{s^5 \left(C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_2 C_L L_1 L_2 L_L R_2 \right) + s^4 \left(C_2 C_L L_1 L_L R_2 R_L + C_2 L_1 L_2 L_L R_2 g_m + C_2 L_1 L_2 L_L \right) + s^3 \left(C_2 L_1 L_2 R_2 R_L R_2 R$

10.513 INVALID-ORDER-513
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

 $H(s) = \frac{C_2C_LL_1L_LR_2R_Ls^4 + C_2L_1R_2R_Ls^2 + s^5\left(C_2C_LL_1L_2L_R_2 + C_1C_2L_1L_2L_R_2 + c_1C_2L_1L_2R_2 + c_1C_2L_$

10.514 INVALID-ORDER-514
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 \right) + 1}{s^3 \left(C_1 C_L L_1 R_2 g_m + C_1 C_L L_1 \right) + s^2 \left(C_1 C_L R_1 R_2 g_m + C_1 C_L R_1 + C_1 C_L R_2 \right) + s \left(C_1 + C_L R_2 g_m + C_L \right)}$$

10.515 INVALID-ORDER-515
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^2 \left(C_1 L_1 R_2 R_L g_m + C_1 L_1 R_L \right) + s \left(C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L \right)}{R_2 g_m + s^3 \left(C_1 C_L L_1 R_2 R_L g_m + C_1 C_L L_1 R_L \right) + s^2 \left(C_1 C_L R_1 R_2 R_L g_m + C_1 C_L R_1 R_L + C_1 C_L R_2 R_L + C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_L + C_1 R_2 R_L g_m + C_1 R_L \right) + 1}$$

10.516 INVALID-ORDER-516
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_L L_1 R_2 R_L g_m + C_1 C_L L_1 R_L\right) + s^2 \left(C_1 C_L R_1 R_2 R_L g_m + C_1 C_L R_1 R_L + C_1 L_1 R_2 g_m + C_1 L_1\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_L R_2 R_L g_m + C_L R_L\right) + 1}{s^3 \left(C_1 C_L L_1 R_2 g_m + C_1 C_L L_1\right) + s^2 \left(C_1 C_L R_1 R_2 g_m + C_1 C_L R_1 + C_1 C_L R_2 + C_1 C_L R_L\right) + s \left(C_1 + C_L R_2 g_m + C_L R_L\right) + s \left(C_1 + C_L R_$$

10.517 INVALID-ORDER-517
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_L L_1 L_L R_2 g_m + C_1 C_L L_1 L_L\right) + s^3 \left(C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_1\right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_L L_L R_2 g_m + C_L L_L\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1\right) + 1}{s^3 \left(C_1 C_L L_1 R_2 g_m + C_1 C_L L_1 + C_1 C_L L_L\right) + s^2 \left(C_1 C_L R_1 R_2 g_m + C_1 C_L R_1 + C_1 C_L R_2\right) + s \left(C_1 + C_L R_2 g_m + C_L\right)}$$

10.518 INVALID-ORDER-518
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_2 g_m + C_1 L_1 L_L \right) + s^2 \left(C_1 L_L R_1 R_2 g_m + C_1 L_L R_1 \right) + s \left(L_L R_2 g_m + L_L \right)}{R_2 g_m + s^4 \left(C_1 C_L L_1 L_L R_2 g_m + C_1 C_L L_1 L_L \right) + s^3 \left(C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_2 \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_1 L_L R_2 g_m + C_1 L_L \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 \right) + 1}$$

10.519 INVALID-ORDER-519
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_L L_1 L_L R_2 g_m + C_1 C_L L_1 L_L\right) + s^3 \left(C_1 C_L L_1 R_2 R_L g_m + C_1 C_L L_L R_1 R_2 g_m + C_1 C_L L_L R_1\right) + s^2 \left(C_1 C_L R_1 R_2 R_L g_m + C_1 C_L R_1 R_L + C_1 L_1 R_2 g_m + C_1 L_L\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_L\right) + s \left(C_1 R_1 R_2 g_m + C_1 L_L\right) + s \left(C_1 R_1 R$$

10.520 INVALID-ORDER-520
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_L R_2 R_L g_m + C_1 L_L L_R L_2 \right) + s^2 \left(C_1 L_L R_1 R_2 R_L g_m + C_1 L_L R_1 R_L \right) + s \left(L_L R_2 R_L g_m + L_L R_L \right)}{R_2 R_L g_m + R_L + s^4 \left(C_1 C_L L_L L_L R_2 R_L g_m + C_1 C_L L_L R_1 R_2 R_L g_m + C_1 L_L L_L R_2 R_L g_m + C_1 L_L L_L R_2 R_L g_m + C_1 L_L L_L R_2 R_L g_m + C_1 L_L R_1 R_2$$

10.521 INVALID-ORDER-521 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^4 \left(C_1 C_L L_1 L_L R_2 R_L g_m + C_1 C_L L_L R_1 R_2 R_L g_m + C_1 L_L R_1 R_2 G_m +$

10.522 INVALID-ORDER-522 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^4 \left(C_1 C_L L_1 L_L R_2 R_L g_m + C_1 C_L L_L R_1 R_2 R_L g_m + C_1 C_L L_L R_1 R_L \right) + s^3 \left(C_1 C_L L_L R_1 R_2 R_L g_m + C_1 L_L R_1 R_L \right) + s^2 \left(C_1 L_1 R_2 R_L g_m + C_1 L_L R_2 R_L g_m + C_1 L_L R_2 R_L g_m + C_1 R_1 R_L \right) + s^2 \left(C_1 R_1 R_2 R_L g_m + C_1 L_L R_2 R_L g_m + C_1 L_L$

10.523 INVALID-ORDER-523 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

$$H(s) = \frac{C_1 C_2 L_1 R_L s^3 + R_L g_m + s^2 \left(C_1 C_2 R_1 R_L + C_1 L_1 R_L g_m \right) + s \left(C_1 R_1 R_L g_m + C_2 R_L \right)}{C_1 C_2 L_1 s^3 + g_m + s^2 \left(C_1 C_2 R_1 + C_1 C_2 R_L + C_1 L_1 g_m \right) + s \left(C_1 R_1 g_m + C_1 + C_2 \right)}$$

10.524 INVALID-ORDER-524 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_2L_1s^3 + g_m + s^2\left(C_1C_2R_1 + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_2\right)}{C_1C_2C_LL_1s^4 + C_Lg_ms + s^3\left(C_1C_2C_LR_1 + C_1C_LL_1g_m\right) + s^2\left(C_1C_2 + C_1C_LR_1g_m + C_1C_L + C_2C_L\right)}$$

10.525 INVALID-ORDER-525 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

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

10.526 INVALID-ORDER-526 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_2C_LL_1R_Ls^4 + g_m + s^3\left(C_1C_2C_LR_1R_L + C_1C_2L_1 + C_1C_LL_1R_Lg_m\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1R_Lg_m + C_1L_1g_m + C_2C_LR_L\right) + s\left(C_1R_1g_m + C_2 + C_LR_Lg_m\right)}{C_1C_2C_LL_1s^4 + C_Lg_ms + s^3\left(C_1C_2C_LR_1 + C_1C_LL_1g_m\right) + s^2\left(C_1C_2 + C_1C_LR_1g_m + C_1C_LR_1g_m + C_1C_LR_1g_m + C_1C_LR_1g_m\right)}$$

10.527 INVALID-ORDER-527 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_2C_LL_1L_Ls^5 + g_m + s^4\left(C_1C_2C_LL_LR_1 + C_1C_LL_1L_g_m\right) + s^3\left(C_1C_2L_1 + C_1C_LL_LR_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_1L_1g_m + C_LL_Lg_m\right) + s\left(C_1R_1g_m + C_2L_Lg_m\right) + s\left(C_1R_1g_m + C_2L_Lg_m\right) + s\left(C_1C_2R_1 + C_1C_LR_1g_m\right) + s\left(C_1C_2R_1 + C_1C_LR_1g_m\right) + s\left(C_1R_1g_m + C_2R_1g_m\right) + s\left(C_1R_1g_m + C_1R_1g_m\right) + s\left(C_1R_1g_m + C_2R_1g_m\right) + s\left(C_1R_1g_m + C_2R_1g_m\right) + s\left(C_1R_1g_m + C_1R_1g_m\right) + s\left(C_1R_1g_m$$

10.528 INVALID-ORDER-528 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

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

10.529 INVALID-ORDER-529 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

$$H(s) = \frac{C_1C_2C_LL_1L_Ls^5 + g_m + s^4\left(C_1C_2C_LL_1R_L + C_1C_2C_LL_1R_1 + C_1C_LL_1L_2g_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_LL_1R_1g_m + C_1C_LL_1R_1g_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1R_Lg_m + C_1L_1g_m + C_2C_LR_L + C_LL_2g_m\right) + s\left(C_1R_1g_m + C_2C_LR_1 + C_1C_LR_1g_m + C_2C_LR_1 + C$$

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10.530 INVALID-ORDER-530 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{C_1C_2L_1L_LR_Ls^4 + L_LR_Lg_ms + s^3\left(C_1C_2L_LR_1R_L + C_1L_1L_LR_Lg_m\right) + s^2\left(C_1L_LR_1R_Lg_m + C_2L_LR_L\right)}{C_1C_2C_LL_1L_LR_Ls^5 + R_Lg_m + s^4\left(C_1C_2C_LL_LR_1R_L + C_1C_LL_LR_Lg_m\right) + s^3\left(C_1C_2L_1R_L + C_1C_LL_LR_LR_Lg_m + C_1C_LL_LR_LR_Lg_m + C_1C_LL_LR_L + C_1C_LL_LR_LR_Lg_m + C_1C_LL_LR_L + C_1C_
10.531 INVALID-ORDER-531 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
H(s) = \frac{C_1C_2C_LL_1L_LR_2s^5 + R_Lg_m + s^4\left(C_1C_2C_LL_LR_1R_L + C_1C_LL_LR_1g_m\right) + s^3\left(C_1C_2L_1R_L + C_1C_LL_LR_1R_Lg_m + C_1L_LL_Rg_m\right) + s^3\left(C_1C_2L_1R_L + C_1C_LL_LR_1R_Lg_m + C_1L_LL_Rg_m + C_1L_LL_Rg_m + C_1L_LR_1g_m + C_1L_LR_1g_m
10.532 INVALID-ORDER-532 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \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)
H(s) = \frac{C_1C_2C_LL_1L_LR_2s^5 + R_Lg_m + s^4\left(C_1C_2C_LL_LR_1R_L + C_1C_LL_LR_1g_m\right) + s^3\left(C_1C_2L_1R_L + C_1C_LL_LR_1R_Lg_m + C_2C_LL_LR_L\right) + s^2\left(C_1C_2R_1R_L + C_1L_LR_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_L\right)}{C_1C_2C_LL_1L_Ls^5 + g_m + s^4\left(C_1C_2C_LL_1R_L + C_1C_2L_LR_1 + C_1C_LL_1R_Lg_m\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_LL_1R_Lg_m + C_2C_LL_LR_1\right) + s^2\left(C_1C_2R_1R_L + C_1L_1R_Lg_m + C_2L_LR_1g_m\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_Lg_m + C_2C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_Lg_m + C_2C_LR_1R_L\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg_m\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_Lg_m\right) + s^2
10.533 INVALID-ORDER-533 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                 H(s) = \frac{C_1C_2L_1R_2R_Ls^3 + R_2R_Lg_m + R_L + s^2\left(C_1C_2R_1R_2R_L + C_1L_1R_2R_Lg_m + C_1L_1R_L\right) + s\left(C_1R_1R_2R_Lg_m + C_1R_1R_L + C_2R_2R_L\right)}{C_1C_2L_1R_2s^3 + R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_L + C_1L_1R_2g_m + C_1L_1\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_1R_L + C_2R_2\right) + 1}
10.534 INVALID-ORDER-534 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                          H(s) = \frac{C_1C_2L_1R_2s^3 + R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}{C_1C_2C_LL_1R_2s^4 + s^3\left(C_1C_2C_LR_1R_2 + C_1C_LL_1R_2g_m + C_1C_LL_1\right) + s^2\left(C_1C_2R_2 + C_1C_LR_1R_2g_m + C_1C_LR_1 + C_2C_LR_2\right) + s\left(C_1 + C_LR_2g_m + C_L\right)}
10.535 INVALID-ORDER-535 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_1C_2L_1R_2R_Ls^3 + R_2R_Lg_m + R_L + s^2\left(C_1C_2R_1R_2R_L + C_1L_1R_2R_Lg_m + C_1L_1R_L\right) + s\left(C_1R_1R_2R_Lg_m + C_1R_1R_L + C_2R_2R_L\right)}{C_1C_2C_LL_1R_2R_Ls^4 + R_2g_m + s^3\left(C_1C_2L_1R_2R_L + C_1C_LL_1R_2R_Lg_m + C_1C_LL_1R_2\right) + s\left(C_1C_2R_1R_2 + C_1C_LR_1R_2R_Lg_m + C_1C_LR_1R_2R_Lg_m + C_1L_1R_2g_m + C_1L_1R_2g_m + C_1L_1R_2g_m + C_1R_1R_2R_Lg_m + C_1R
10.536 INVALID-ORDER-536 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
 H(s) = \frac{C_1C_2C_LL_1R_2R_Ls^4 + R_2g_m + s^3\left(C_1C_2C_LR_1R_2R_L + C_1C_LL_1R_2R_Lg_m + C_1C_LL_1R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2R_Lg_m + C_1L_1 + C_2C_LR_2R_L\right) + s\left(C_1R_1R_2g_m + C_1L_1 + C_2C_LR_2R_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_1R_2R_Lg_m + C_1L_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2R_Lg_m + C_1C_LR_1R_2g_m + C_1C_LR_1R_2g_
10.537 INVALID-ORDER-537 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_2C_LL_1L_LR_2s^5 + R_2g_m + s^4\left(C_1C_2C_LL_LR_1R_2 + C_1C_LL_1L_LR_2g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_2L_1R_2 + C_1C_LL_LR_1R_2g_m + C_1C_LL_LR_1 + C_2C_LL_LR_2\right) + s^2\left(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_LL_LR_2g_m + C_LL_L\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2g_m + C_1L_1 + C_2R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_2L_1R_2g_m + C_1L_1\right) + s^2\left(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_2L_1R_2g_m + C_1L_1R_2g_m +
10.538 INVALID-ORDER-538 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
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 $H(s) = \frac{C_1C_2L_1L_LR_2s^4 + s^3\left(C_1C_2L_LR_1R_2 + C_1L_1L_LR_2g_m + C_1L_1L_L\right) + s^2\left(C_1L_LR_1R_2g_m + C_1L_LR_1 + C_2L_LR_2\right) + s\left(L_LR_2g_m + L_L\right)}{C_1C_2C_LL_1L_LR_2s^5 + R_2g_m + s^4\left(C_1C_2C_LL_LR_1R_2 + C_1C_LL_LR_1R_2 + C_1C_LL_LR_1 + C_1C_LL_LR_$

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10.539 INVALID-ORDER-539 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
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 $H(s) = \frac{C_1C_2C_LL_1L_LR_2s^5 + R_2g_m + s^4\left(C_1C_2C_LL_1R_2R_L + C_1C_LL_LR_1R_2 + C_1C_LL_1L_LR_2g_m + C_1C_LL_1R_2 + C_$

10.540 INVALID-ORDER-540 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

10.541 INVALID-ORDER-541 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

10.542 INVALID-ORDER-542 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

10.543 INVALID-ORDER-543 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L\right)$

 $H(s) = \frac{R_L g_m + s^3 \left(C_1 C_2 L_1 R_2 R_L g_m + C_1 C_2 L_1 R_L\right) + s^2 \left(C_1 C_2 R_1 R_2 R_L g_m + C_1 C_2 R_1 R_L + C_1 L_1 R_L g_m\right) + s \left(C_1 R_1 R_L g_m + C_2 R_2 R_L g_m + C_2 R_L\right)}{g_m + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 C_2 R_2 + C_1 C_2 R_L + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m + C_1 + C_2 R_2 g_m + C_2 R_L\right)}$

10.544 INVALID-ORDER-544 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

 $H(s) = \frac{g_m + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m + C_2 R_2 g_m + C_2\right)}{C_L g_m s + s^4 \left(C_1 C_2 C_L L_1 R_2 g_m + C_1 C_2 C_L L_1\right) + s^3 \left(C_1 C_2 C_L R_1 R_2 g_m + C_1 C_2 C_L R_1 + C_1 C_2 C_L R_2 + C_1 C_L L_1 g_m\right) + s^2 \left(C_1 C_2 + C_1 C_L R_1 g_m + C_1 C_L + C_2 C_L R_2 g_m + C_2 C_L\right)}$

10.545 INVALID-ORDER-545 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

 $H(s) = \frac{R_L g_m + s^3 \left(C_1 C_2 L_1 R_2 R_L g_m + C_1 C_2 L_1 R_L \right) + s^2 \left(C_1 C_2 R_1 R_2 R_L g_m + C_1 C_2 R_1 R_L + C_1 L_1 R_L g_m \right) + s \left(C_1 R_1 R_L g_m + C_2 R_2 R_L g_m + C_2 R_2 R_L g_m + C_2 R_L R_L \right)}{g_m + s^4 \left(C_1 C_2 C_L L_1 R_2 R_L g_m + C_1 C_2 R_1 R$

10.546 INVALID-ORDER-546 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_L L_1 R_2 R_L g_m + C_1 C_2 C_L L_1 R_L \right) + s^3 \left(C_1 C_2 C_L R_1 R_2 R_L g_m + C_1 C_2 L_1 R_2 g_m + C_1 C_2 R_1 R_2$

10.547 INVALID-ORDER-547 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$

 $H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_2 g_m + C_1 C_2 C_L L_1 L_L\right) + s^4 \left(C_1 C_2 C_L L_L R_1 R_2 g_m + C_1 C_2 C_L L_L R_1 + C_1 C_L L_L L_2 g_m\right) + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_L R_1 g_m + C_2 C_L L_L\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 L_2 g_m\right) + s \left(C_1 R_1 g_m + C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 C_2 L_L R_2 g_m + C_1 C_2 L_L R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 R_2 g_m\right) + s \left(C_1 R_2 g_m + C_1 R_2$

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 \begin{aligned} & \textbf{10.548} \quad \textbf{INVALID-ORDER-548} \ Z(s) = \left( L_{1}s + R_{1} + \frac{1}{C_{1}s}, \ R_{2} + \frac{1}{C_{2}s}, \ \infty, \ \infty, \ \infty, \ \frac{L_{L}s^{2}}{C_{L}L_{L}s^{2}+1} \right) \\ & H(s) = \frac{L_{L}g_{ms} + s^{4} \left( C_{1}C_{2}C_{L}L_{L}L_{L}R_{2}g_{m} + C_{1}C_{2}L_{L}L_{L} + s^{4} \left( C_{1}C_{2}C_{L}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{L}L_{L} \right) + s^{4} \left( C_{1}C_{2}C_{L}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{L}R_{2} + C_{1}C_{2}L_{L}R_{2}g_{m} + C_{1}C_{2}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{L}R_{2}g_{m} + C_{1}C_{2}L_{L}R_
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$$H(s) = \frac{R_L g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_2 R_L g_m + C_1 C_2 L_L L_R L_R L_2 R_L g_m + C_1 C_2 L_L L_R L_R L_2 R_L g_m + C_1 C_2 L_L L_R L_R L_2 R_L g_m + C_1 C_2 L_L L_R L_R L_2 R_L L_2 R_L$$

10.552 INVALID-ORDER-552
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$R_L g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_2 + C_1 C_2 C_L L_L R_1 R_2 R_L g_m + C_1 C_2 C_L R_1 R_2 R_L g_m + C_$$

$$\textbf{10.553} \quad \textbf{INVALID-ORDER-553} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L \right)$$

$$H(s) = \frac{C_1 C_2 L_1 L_2 R_L g_m s^4 + R_L g_m + s^3 \left(C_1 C_2 L_1 R_L + C_1 C_2 L_2 R_1 R_L g_m \right) + s^2 \left(C_1 C_2 R_1 R_L + C_1 L_1 R_L g_m + C_2 L_2 R_L g_m \right) + s \left(C_1 R_1 R_L g_m + C_2 R_L \right) }{C_1 C_2 L_1 L_2 g_m s^4 + g_m + s^3 \left(C_1 C_2 L_1 + C_1 C_2 L_2 R_1 g_m + C_1 C_2 L_2 \right) + s^2 \left(C_1 C_2 R_1 + C_1 L_2 g_m + C_2 L_2 g_m \right) + s \left(C_1 R_1 g_m + C_1 + C_2 \right) }$$

10.555 INVALID-ORDER-555
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_2L_1L_2R_Lg_ms^4 + R_Lg_m + s^3\left(C_1C_2L_1R_L + C_1C_2L_2R_1R_Lg_m\right) + s^2\left(C_1C_2R_1R_L + C_1L_1R_Lg_m + C_2L_2R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_2R_Lg_m\right) + s\left(C_1R_1R_Lg_m + C_1R_Lg_m\right) + s\left($$

10.556 INVALID-ORDER-556
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_2R_Lg_ms^5 + g_m + s^4\left(C_1C_2C_LL_1R_L + C_1C_2C_LL_2R_1R_Lg_m + C_1C_LL_2R_1g_m + C_1C_LL_1R_Lg_m + C_1C_LL_2R_1g_m + C_1C_LL_2R_Lg_m + s^2\left(C_1C_2R_1 + C_1C_LR_1R_Lg_m + C_1L_1g_m + C_2C_LR_L + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_1C_LR_1R_Lg_m + C_1C_LR_1R_Lg$$

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10.557 INVALID-ORDER-557 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2C_LL_1L_L + C_1C_2C_LL_2L_Rg_m\right) + s^4\left(C_1C_2C_LL_LR_1 + C_1C_2L_LLg_m + C_1C_LL_Lg_m + C_2C_LL_2L_g_m\right) + s^3\left(C_1C_2L_1 + C_1C_2L_2R_1g_m + C_1C_LL_Rg_m + C_2C_LL_L\right) + s^2\left(C_1C_2R_1 + C_1L_1g_m + C_2L_Lg_m\right) + s\left(C_1C_2C_LL_1 + C_1C_2C_LL_1 + C_1C_2C_LL_1\right) + s^2\left(C_1C_2R_1 + C_1L_1g_m + C_2C_LL_1\right) + s^2\left(C_1C_2R_1 + C_1L_1g_m + C_2L_1g_m\right) + s\left(C_1C_2C_LL_1 + C_1C_2C_LL_1 + C_1C_2C_LL_1\right) + s^2\left(C_1C_2R_1 + C_1C_2C_L
10.558 INVALID-ORDER-558 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_2L_1L_2L_Lg_ms^5 + L_Lg_ms + s^4\left(C_1C_2L_1L_L + C_1C_2L_2L_LR_1g_m\right) + s^3\left(C_1C_2L_LR_1 + C_1L_1L_Lg_m + C_2L_2L_Lg_m\right) + s^2\left(C_1L_LR_1g_m + C_2L_L\right)}{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2L_LL_LR_1g_m + C_1C_2L_LL_R_1g_m + C_1C_2L_LL_R_1g_m + C_1C_LL_LL_R_1g_m + C_1C_LL_R_1g_m 
10.559 INVALID-ORDER-559 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2C_LL_1L_2R_Lg_m + C_1C_2C_LL_1L_L + C_1C_2C_LL_1R_L + C_1C_2C_LR_1R_L + C_1C_2C_LL_1R_L + C_1C_2C_LR_1R_L + C_1C_2C_LR_1R_L + C_1C_2C_LR_1R_L + C_1C_2C_LR_1R_L + C_1C_2C_LR_1R_L + C_1C_2C_LR_
10.560 INVALID-ORDER-560 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_1C_2L_1L_2L_LR_Lg_ms^5 + L_LR_Lg_ms + s^4(C_1C_2L_1L_LR_L + C_1C_2L_2L_LR_L)
H(s) = \frac{C_1C_2L_1L_2L_LR_{L}g_ms^6 + R_{L}g_m + s^5\left(C_1C_2L_LL_LR_{L} + C_1C_2L_LL_LR_{L} + C_1C_2L_LR_{L} + C_1C_2L_LR_
10.561 INVALID-ORDER-561 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
H(s) = \frac{C_1C_2C_LL_1L_2L_LR_2g_ms^6 + R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_L + C_1C_2L_LL_RR_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_1R_1g_m + C_1C_
10.562 INVALID-ORDER-562 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
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$$H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1g_ms^6 + R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_1 + C_1C_2C_LL_2L_LR_1R_Lg_m\right) + s^4\left(C_1C_2C_LL_1R_1R_L + C_1C_2L_1L_2R_Lg_m + C_1C_LL_1L_LR_Lg_m + C_2C_LL_2L_2R_1R_Lg_m\right) + s^4\left(C_1C_2C_LL_1R_1R_L + C_1C_2C_LL_2R_1R_Lg_m + C_1C_LL_1R_LR_Lg_m\right) + s^4\left(C_1C_2C_LL_1R_1R_L + C_1C_2C_LL_2R_1R_Lg_m + C_1C_LL_1R_Lg_m + C_1C_LL_2R_Lg_m + C_1C_LL_2R_Lg_m\right) + s^4\left(C_1C_2C_LL_1R_1R_Lg_m + S_1C_2C_LL_2R_1R_Lg_m + C_1C_2C_LL_2R_1R_Lg_m + C_1C_2C$$

10.565 INVALID-ORDER-565
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L}{C_L R_L s + 1}\right)$$

$$C_1 C_2 L_1 L_2 R_L g_m s^4 + R_L g_m + s^3 \left(C_1 C_2 L_1 R_2 R_L g_m + C_1 C_2 L_1 R_L + C_1 C_2 L_2 R_1 R_L g_m\right) + s^2 \left(C_1 C_2 R_1 R_2 R_L g_m + C_1 C_2 R_1 R_L + C_1 C_2 R_1 R_L g_m\right)$$

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10.566 INVALID-ORDER-566 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s}\right)
```

 $H(s) = \frac{C_1C_2C_LL_1L_2R_Lg_ms^5 + g_m + s^4\left(C_1C_2C_LL_1R_2R_Lg_m + C_1C_2L_LR_1R_Lg_m + C_1C_2L_1R_2g_m + C_1C_2L_$

10.567 INVALID-ORDER-567 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2C_LL_1L_LR_2g_m + C_1C_2L_LL_R_1g_m\right) + s^4\left(C_1C_2C_LL_LR_1g_m + C_1C_2L_LL_R_1g_m + C_1C_LL_LL_R_1g_m + C_1C_LL_LL_R_1g_m + C_1C_LL_LL_R_1g_m + C_1C_LL_LL_R_1g_m + C_1C_LL_LR_1g_m + C_1C_LL_1R_1g_m + C_1C_LL$

10.568 INVALID-ORDER-568 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1}\right)$

 $H(s) = \frac{C_1C_2L_1L_2L_2g_ms^5 + L_Lg_ms + s^4\left(C_1C_2L_1L_LR_2g_m + C_1C_2L_LL_R_1g_m\right) + s^3\left(C_1C_2L_LR_1R_2g_m + C_1C_2L_LR_1\right)}{C_1C_2C_LL_1L_2L_2g_ms^6 + g_m + s^5\left(C_1C_2L_LL_LR_2g_m + C_1C_2L_LL_R_1g_m + C_1C_2L_LL_R\right) + s^4\left(C_1C_2C_LL_LR_1R_2g_m + C_1C_2L_LL_R\right) + s^4\left(C_1C_2C_LL_LR_1R_2g_m + C_1C_2L_LL_R\right) + s^4\left(C_1C_2L_LR_1R_2g_m + C_1C_2L_LR_1R_2g_m + C_1C_2L_LR_1R_2g_$

10.569 INVALID-ORDER-569 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ L_L s + R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms^6 + g_m + s^5\left(C_1C_2C_LL_1L_2R_Lg_m + C_1C_2C_LL_1L_LR_2g_m + C_1C_2C_LL_1R_Lg_m + C_1C_2C_LL_1R_Lg_m + C_1C_2C_LL_1R_Lg_m + C_1C_2C_LL_1R_Lg_m + C_1C_2C_LL_1R_Lg_m + C_1C_2C_LL_1R_1R_2g_m + C_1C_2C_LL_1R_2g_m + C_1C_2C_$

10.570 INVALID-ORDER-570 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $H(s) = \frac{1}{C_1 C_2 C_L L_1 L_2 L_L R_L g_m s^6 + R_L g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_2 R_L g_m + C_1 C_2 C_L L_2 L_L R_1 R_L g_m + C_1 C_2 C_L L_2 L_L R_1 R_L g_m + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_L + C_1 C_2 C_L L_L R_1 R_L g_m + C_1 C_2 C_L R_1 R_L g_m +$

10.571 INVALID-ORDER-571 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

10.572 INVALID-ORDER-572 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{L}g_{m}s^{6} + R_{L}g_{m} + s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{L}R_{2}R_{L}g_{m} + C_{1}C_{2}C_{L}L_{1}L_{L}R_{L} + C_{1}C_{2}C_{L}L_{2}L_{L}R_{1}R_{L}g_{m}\right) + s^{4}C_{1}C_{2}C_{L}L_{1}L_{L}R_{L} + C_{1}C_{2}C_{L}L_{2}L_{L}R_{1}R_{L}g_{m} + s^{4}C_{1}C_{2}C_{L}L_{1}L_{L}R_{L} + C_{1}C_{2}C_{L}L_{2}L_{L}R_{1}R_{L}g_{m}\right) + s^{4}C_{1}C_{2}C_{L}L_{1}L_{L}R_{L} + C_{1}C_{2}C_{L}L_{2}L_{L}R_{1}R_{L}g_{m} + s^{4}C_{1}C_{2}C_{L}L_{1}L_{L}R_{L} + C_{1}C_{2}C_{L}L_{2}L_{L}R_{1}R_{L}g_{m} + s^{4}C_{1}C_{2}C_{L}L_{1}L_{L}R_{L} + C_{1}C_{2}C_{L}L_{2}L_{L}R_{1}R_{L}g_{m} + s^{4}C_{1}C_{2}C_{L}L_{1}L_{L}R_{L} + C_{1}C_{2}C_{L}L_{1}L_{L}R_{L} + C_{1}C_{2}C_{L}L_{1}L_{L}R_{1}R_{L} + C_{1}C_{2}C_{L}L_{1}L_{L}R_{1}R_{L} + C_{1}C_{2}C_{L}L_{1}L_{1}R_{1}R_{L} + C_{1}C_{2$

10.573 INVALID-ORDER-573 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)$

10.574 INVALID-ORDER-574 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2\right) + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 L_2 L_2 R_1 + C_1 L_1 L_2 g_m\right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_1 L_2 R_1 g_m + C_2 L_2 R_2 g_m + C_2 L_2\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + L_2 g_m\right) + 1}{s^5 \left(C_1 C_2 C_L L_1 L_2 R_2 g_m + C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 + C_1 C_2 L_2 R_2 + C_1 C_L L_1 L_2 g_m\right) + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_L L_1 R_2 g_m + C_1 C_L L_2 R_1 g_m + C_1 C_L L_2 R_2 g_m + C_2 C_L L_2\right) + s^2 \left(C_1 C_L R_1 R_2 g_m + C_1 C_L L_1 R_$

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10.575 INVALID-ORDER-575 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
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 $\frac{R_2R_Lg_m + R_L + s^2 \left(C_1C_2L_1L_2R_2R_Lg_m + C_1C_2L_1L_2R_L\right) + s^3 \left(C_1C_2L_2R_1R_2R_Lg_m + C_1C_2L_2R_2R_Lg_m + C_1C_2L_2R_2$

10.576 INVALID-ORDER-576 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_1 s}\right)$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_L L_1 L_2 R_2 g_m + C_1 C_2 L_L L_1 L_2 R_L g_m + C_1 C_2 L_L L_2 R_L g_m + C_1 C_2 L_L R_1 R_L g_m + C_1 C_2 L$

10.577 INVALID-ORDER-577 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 g_m + C_1 C_2 L_L L_L R_2 g_m + C_1 C_2 L_L$

10.578 INVALID-ORDER-578 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

10.579 INVALID-ORDER-579 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L\right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_L + C_1 C_2 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_2 L_L R_1 + C_1 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_2 R_1 R_2 R_L g_m + C_1$ $s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{2}R_{2}g_{m}+C_{1}C_{2}C_{L}L_{1}L_{2}+C_{1}C_{2}C_{L}L_{2}L_{L}\right)+s^{4}\left(C_{1}C_{2}C_{L}$

10.580 INVALID-ORDER-580 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $H(s) = \frac{1}{R_2 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_2 R_L + C_1 C_2 L_L L_L R_2 R_L + C_1 C_2 L_L L_L L_L R_2 R_L + C_1 C_2 L_L L_L L_L R_2 R_L + C_1 C_2 L_L L_L R_2 R_L + C_1 C_2 L_L L_L L_L R_2 R_L + C_1 C_2 L_L R_2 R_L + C$

10.581 INVALID-ORDER-581 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{R_2 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 g_m + C_1 C_2 L_L R_1 R_2 g_m + C_1 C_2$

10.582 INVALID-ORDER-582 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $R_{2}R_{L}g_{m} + R_{L} + s^{6} \left(C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{2}R_{L}g_{m} + C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{L} \right) + s^{5} \left(C_{1}C_{2}C$

10.583 INVALID-ORDER-583 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)$

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

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 10.584 \quad \text{INVALID-ORDER-584} \ Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2L_2 s^2 + 1)}{C_2C_2L_2R_2 s^2 + (C_2R_2 s^2 + 1)}, \, \infty, \, \infty, \, \infty, \, \frac{1}{C_1 s} \right) 
 10.584 \quad \text{INVALID-ORDER-584} \ Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2L_2 s^2 + 1)}{C_2C_2L_2R_2 s^2 + (C_2R_2 t^2 + C_1C_2L_2R_1 R_2 g_m + C_1C_2L_2R_1) + s^2(C_1C_2R_1 R_2 + C_1L_2R_2 g_m + C_1L_1 + C_2L_2R_2 g_m + C_2L_2) + s(C_1R_1R_2 g_m + C_1R_1 + C_2R_2) + 1} 
 10.585 \quad \text{INVALID-ORDER-585} \ Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2L_2 s^2 + 1)}{C_2L_2s^2 + (C_2R_2 t^2 + C_2R_2 t^2
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$$\textbf{10.588} \quad \textbf{INVALID-ORDER-588} \ Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \infty, \ \infty, \ \infty, \ \frac{L_L s}{C_L L_L s^2 + 1} \right) \\ H(s) = \frac{s^5 \left(C_1 C_2 L_1 L_2 L_L R_2 g_m + C_1 C_2 L_1 L_2 L_L \right) + s^4 \left(C_1 C_2 L_1 L_L R_2 + C_1 C_2 L_2 L_L R_1 R_2 g_m + C_1 C_2 L_2 L_L R_1 R_$$

10.589 INVALID-ORDER-589
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_L + C_1 C_2 C_L L_1 L_2 R_L + C_1 C_2 C_L L_1 L_2 R_L + C_1 C_2 C_L L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_2$$

10.590 INVALID-ORDER-590
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{1}{R_2 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_2 R_L + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 C_L L_2 L_L R_2 R_L + C$$

10.591 INVALID-ORDER-591
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 R_L + C_1 C_2 C_L L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_2 R_L + C_1 C_2 L_L R_2 R_L + C_1$$

10.592 INVALID-ORDER-592
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L(C_L L_L s^2 + 1)}{C_L L_L s^2 + C_L R_L s + 1}\right)$$

$$H(s) = \frac{R_2 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_L R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 L_L R_2 R_L R_2$$

10.594 INVALID-ORDER-395
$$Z(s) = \begin{pmatrix} c_{11}$$

 $H(s) = \frac{s \left(L_1 R_1 R_2 g_m + L_1 R_1 \right)}{C_1 C_L L_1 R_1 R_2 s^3 + R_1 + s^2 \left(C_1 L_1 R_1 + C_L L_1 R_1 R_2 g_m + C_L L_1 R_1 + C_L L_1 R_2 \right) + s \left(C_L R_1 R_2 + L_1 \right)}$

10.593 INVALID-ORDER-593 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

10.603 INVALID-ORDER-603 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$ $H(s) = \frac{C_2L_1R_1R_Ls^2 + L_1R_1R_Lg_ms}{R_1 + s^3\left(C_1C_2L_1R_1R_L + C_1C_LL_1R_1R_L + C_2C_LL_1R_1R_L\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_1R_1 + C_2L_1R_1R_Lg_m + C_LL_1R_1\right) + s\left(C_2R_1R_L + C_LR_1R_L + L_1R_1g_m + L_1\right)}$ **10.604** INVALID-ORDER-604 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_2C_LL_1R_1R_Ls^2 + L_1R_1g_m + s\left(C_2L_1R_1 + C_LL_1R_1R_Lg_m\right)}{C_1C_2C_LL_1R_1R_1s^3 + C_2R_1 + C_LR_1 + s^2\left(C_1C_2L_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_L\right) + s\left(C_2C_LR_1R_L + C_2L_1 + C_LL_1R_1g_m + C_LL_1\right)}$ **10.605** INVALID-ORDER-605 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_2C_LL_1L_LR_1s^3 + C_2L_1R_1s + C_LL_1L_LR_1g_ms^2 + L_1R_1g_m}{C_1C_2C_LL_1L_LR_1s^4 + C_2C_LL_1L_Ls^3 + C_2R_1 + C_LR_1 + s^2\left(C_1C_2L_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_LR_1\right) + s\left(C_2L_1 + C_LL_1R_1g_m + C_LL_1\right)}$ **10.606** INVALID-ORDER-606 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$ $H(s) = \frac{C_2L_1L_LR_1s^3 + L_1L_LR_1g_ms^2}{R_1 + s^4\left(C_1C_2L_1L_LR_1 + C_1C_LL_1L_LR_1 + C_2C_LL_1L_LR_1\right) + s^3\left(C_2L_1L_L + C_LL_1L_LR_1g_m + C_LL_1L_L\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_LR_1 + C_LL_LR_1\right) + s\left(L_1R_1g_m + L_1\right)}{R_1 + s^4\left(C_1C_2L_1L_LR_1 + C_1C_LL_1L_LR_1\right) + s^3\left(C_2L_1L_LR_1 + C_LL_1L_LR_1g_m + C_LL_1L_L\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_LR_1\right) + s\left(L_1R_1g_m + L_1\right)}$ 10.607 INVALID-ORDER-607 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$ $H(s) = \frac{C_2C_LL_1L_LR_1s^3 + L_1R_1g_m + s^2\left(C_2C_LL_1R_1R_L + C_LL_1L_LR_1g_m\right) + s\left(C_2L_1R_1 + C_LL_1R_1R_Lg_m\right)}{C_1C_2C_LL_1L_LR_1s^4 + C_2R_1 + C_LR_1 + s^3\left(C_1C_2C_LL_1R_1R_L + C_2C_LL_1L_L\right) + s^2\left(C_1C_2L_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_L + C_2L_1R_1R_1 + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_L + C_2C_LL_1R_1 + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_L + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_L + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_L + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_L + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_1 + C_2C_LR_1R_1 + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_1 + C_2C_LR_1R_1\right) + s\left(C_2C_LR_1R_1 + C_2C_LR_1R_1\right) + s\left(C_2C_LR_1R_1 + C_2C_LR_1R_1\right)$ **10.608** INVALID-ORDER-608 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$ $H(s) = \frac{C_2 L_1 L_L R_1 R_L s^3 + L_1 L_L R_1 R_L g_m s^2}{R_1 R_L + s^4 \left(C_1 C_2 L_1 L_L R_1 R_L + C_2 L_L L_L R_1 R$ 10.609 INVALID-ORDER-609 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$ $H(s) = \frac{C_2C_LL_1L_LR_1R_Ls^4 + L_1R_1R_Lg_ms + s^3\left(C_2L_1L_LR_1 + C_LL_1L_LR_1R_Lg_m\right) + s^2\left(C_2L_1R_1R_L + L_1L_LR_1g_m\right)}{C_1C_2C_LL_1L_LR_1R_Ls^5 + R_1 + s^4\left(C_1C_2L_1L_LR_1 + C_2C_LL_1L_LR_1 + C_2C_LL_1L_LR_1 + C_2C_LL_1L_LR_1 + C_2C_LL_1L_LR_1R_L + C_2C_LL_1L_LR_1R_L + C_2C_LL_1L_LR_1R_L + C_2C_LL_1L_LR_1R_L + C_2C_LL_1L_LR_1 + C_2C_LL_1L_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1$ 10.610 INVALID-ORDER-610 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$ $H(s) = \frac{C_2C_LL_1L_LR_1R_Ls^4 + C_2L_1R_1R_Ls^2 + C_LL_1L_LR_1R_Lg_ms^3 + L_1R_1R_Lg_ms}{C_1C_2C_LL_1L_LR_1R_Ls^5 + R_1 + s^4\left(C_1C_LL_1L_LR_1 + C_2C_LL_1L_LR_1 + C_2C_LL_1R_1R_L + C_2C_LL_$ 10.611 INVALID-ORDER-611 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)$

 $H(s) = \frac{C_2L_1R_1R_2R_Ls^2 + s\left(L_1R_1R_2R_Lg_m + L_1R_1R_L\right)}{C_1C_2L_1R_1R_2R_Ls^3 + R_1R_2 + R_1R_L + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_L + C_2L_1R_1R_2 + C_2L_1R_2R_L\right) + s\left(C_2R_1R_2R_L + L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_L\right)}$

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10.613 INVALID-ORDER-613 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_2L_1R_1R_2R_Ls^2 + s\left(L_1R_1R_2R_Lg_m + L_1R_1R_L\right)}{R_1R_2 + R_1R_L + s^3\left(C_1C_2L_1R_1R_2R_L + C_1C_LL_1R_1R_2R_L + C_2C_LL_1R_1R_2R_L\right) + s^2\left(C_1L_1R_1R_2 + C_2L_1R_1R_2 + C_2L_1R_1R_2
10.614 INVALID-ORDER-614 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_2C_LL_1R_1R_2R_Ls^3 + s^2\left(C_2L_1R_1R_2 + C_LL_1R_1R_2R_Lg_m + C_LL_1R_1R_2\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_LL_1R_1R_2R_Ls^4 + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_LL_1R_1R_2 + C_2C_LL_1R_1R_2 + C_2C_LL_1R_1R_1 + C_2C_LL_1R_1R_2 + C_2C_LL_1R_1R_2 + C_2C_LL_1R_1R_2 + C_2C_LL_1R_1R_2 + C_2C_LL_1R_1R_2
10.615 INVALID-ORDER-615 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_2C_LL_1L_LR_1R_2s^4 + C_2L_1R_1R_2s^2 + s^3\left(C_LL_1L_LR_1R_2g_m + C_LL_1L_LR_1\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_LL_1L_LR_1R_2s^5 + R_1 + s^4\left(C_1C_LL_1L_LR_1 + C_2C_LL_1L_LR_2\right) + s^3\left(C_1C_2L_1R_1R_2 + C_2C_LL_1R_1R_2 + C_2C_
10.616 INVALID-ORDER-616 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_2L_1L_LR_1R_2s^3 + s^2\left(L_1L_LR_1R_2g_m + L_1L_LR_1\right)}{R_1R_2 + s^4\left(C_1C_2L_1L_LR_1R_2 + C_1C_LL_1L_LR_1R_2 + C_2C_LL_1L_LR_1R_2\right) + s^3\left(C_1L_1L_LR_1 + C_2L_1L_LR_1 + C_LL_1L_LR_1 + C_LL_1L_LR_1\right) + s^2\left(C_1L_1R_1R_2 + C_2L_1R_1R_2 + C_2L_1R_1R_2
10.617 INVALID-ORDER-617 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_2C_LL_1L_LR_1R_2s^4 + s^3\left(C_2C_LL_1R_1R_2R_L + C_LL_1L_LR_1R_2g_m + C_LL_1L_LR_1\right) + s^2\left(C_2L_1R_1R_2 + C_LL_1R_1R_2R_L + C_LL_1R_1R_2\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_LL_1L_LR_1R_2s^5 + R_1 + s^4\left(C_1C_2C_LL_1R_1R_2R_L + C_1C_LL_1L_LR_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_LL_1R_1R_2 + C_2C_LL_1R_1R_2 + C_2C_LL_1R_1R
10.618 INVALID-ORDER-618 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C_2L_1L_LR_1R_2R_Ls^3 + s^2(L_1L_LR_1R_2R_Lg_m + L_1L_LR_1R_L)
                                   10.619 INVALID-ORDER-619 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.620 INVALID-ORDER-620 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_2C_LL_1L_LR_1R_2R_Ls^4 + C_2L_1R_1R_2R_Ls^2 + s^3(C_LL_1L_LR_1R_2R_Lg_m + C_LL_1L_1R_1R_2R_Lg_m + C_LL_1L_1R_1R_2R_Lg_m + C_LL_1R_1R_2R_Lg_m + C_LR_1R_1R_2R_Lg_m + C_LR_1R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2
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 $H(s) = \frac{C_2L_1R_1R_2s^2 + s\left(L_1R_1R_2g_m + L_1R_1\right)}{R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_LL_1R_1R_2 + C_2C_LL_1R_1R_2\right) + s^2\left(C_1L_1R_1 + C_2L_1R_2 + C_LL_1R_1R_2g_m + C_LL_1R_1 + C_LL_1R_2\right) + s\left(C_2R_1R_2 + C_LR_1R_2 + L_1R_1R_2\right) + s\left(C_2R_1R_2 + C_LR_1R_2 + C_LR_1R_2\right) + s\left(C_2R_1R_2 + C_LR_1R_2 + C_LR_1R_2\right) + s\left(C_2R_1R_2 + C_LR_1R_2 + C_LR_1R_2\right) + s\left(C_2R_1R_2 + C_LR_1R_2\right) + s\left($

10.612 INVALID-ORDER-612 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

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H(s) = \frac{L_1 R_1 g_m + s \left( C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_1 \right)}{C_1 C_2 C_L L_1 R_1 R_2 s^3 + C_2 R_1 + C_L R_1 + s^2 \left( C_1 C_2 L_1 R_1 + C_1 C_L L_1 R_1 + C_2 C_L L_1 R_1 R_2 g_m + C_2 C_L L_1 R_1 + C_2 C_L L_1 R_2 \right) + s \left( C_2 C_L R_1 R_2 + C_2 L_1 + C_L L_1 R_1 g_m + C_L L_1 \right)}
10.623 INVALID-ORDER-623 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{L_1 R_1 R_2 g_m s + s^2 \left( C_2 L_1 R_1 R_2 R_L g_m + C_2 L_1 R_1 R_L \right)}{C_1 C_2 C_L L_1 R_1 R_2 R_L s^4 + R_1 + s^3 \left( C_1 C_2 L_1 R_1 R_2 + C_1 C_2 L_1 R_1 R_L + C_2 C_L L_1 R_1 R_L + C_2 C_L L_1 R_1 R_L + C_2 C_L L_1 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_2 R_L g_m + C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_2 g_m + C
10.624 INVALID-ORDER-624 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                        H(s) = \frac{L_{1}R_{1}g_{m} + s^{2}\left(C_{2}C_{L}L_{1}R_{1}R_{2}g_{m} + C_{2}C_{L}L_{1}R_{1}R_{2}g_{m} + C_{2}L_{1}R_{1} + C_{L}L_{1}R_{1}R_{L}g_{m}\right)}{C_{2}R_{1} + C_{L}R_{1} + s^{3}\left(C_{1}C_{2}L_{L}R_{1}R_{2} + C_{1}C_{2}L_{L}R_{1}R_{L}\right) + s^{2}\left(C_{1}C_{2}L_{1}R_{1} + C_{1}C_{L}L_{1}R_{1} + C_{2}C_{L}L_{1}R_{1} + C_{2}
10.625 INVALID-ORDER-625 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_T s}\right)
                                                     10.626 INVALID-ORDER-626 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
10.627 INVALID-ORDER-627 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.628 INVALID-ORDER-628 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    L_1L_LR_1R_Lg_ms^2 + s^3(C_2L_1L_LR_1R_2R_Lg_m)
H(s) = \frac{\frac{L_1 L_L I_1 I_L L_2 m_3}{C_1 C_2 C_L L_1 L_L R_1 R_2 R_L s^5 + R_1 R_L + s^4 \left(C_1 C_2 L_1 L_L R_1 R_2 + C_1 C_2 L_1 L_L R_1 R_L + C_2 C_L L_1 L_L R_1 R_2 + C_2 C_L L_1 L_L R_1 R_2 R_L + C_2 C_L L_1 R_1 R_2 R_
10.629 INVALID-ORDER-629 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
10.630 INVALID-ORDER-630 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \frac{c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L2}c_{L1}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_{L2}c_
                                                                                                                                                                                                                                                                                                                                                                                                       109
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 $H(s) = \frac{L_1 R_1 R_L g_m s + s^2 \left(C_2 L_1 R_1 R_2 R_L g_m + C_2 L_1 R_1 R_L \right)}{R_1 + s^3 \left(C_1 C_2 L_1 R_1 R_2 + C_1 C_2 L_1 R_1 R_L \right) + s^2 \left(C_1 L_1 R_1 + C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_1 + C_2 L_1 R_2 + C_2 L_1 R_L \right) + s \left(C_2 R_1 R_2 + C_2 R_1 R_L + L_1 R_1 g_m + L_1 \right)}$

10.621 INVALID-ORDER-621 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

10.622 INVALID-ORDER-622 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

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H(s) = \frac{C_2L_1L_2R_1R_Lg_ms^3 + C_2L_1R_1R_Ls^2 + L_1R_1R_Lg_ms}{C_1C_2L_1L_2R_1s^4 + R_1 + s^3\left(C_1C_2L_1R_1R_L + C_2L_1L_2R_1g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_1R_L + C_2L_2R_1\right) + s\left(C_2R_1R_L + L_1R_1g_m + L_1\right)}{c_1C_2L_1L_2R_1s^4 + R_1 + s^3\left(C_1C_2L_1R_1R_L + C_2L_1L_2R_1g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L
10.632 INVALID-ORDER-632 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                          H(s) = \frac{C_2L_1L_2R_1g_ms^2 + C_2L_1R_1s + L_1R_1g_m}{C_1C_2C_LL_1L_2R_1s^4 + C_2R_1 + C_LR_1 + s^3\left(C_2C_LL_1L_2R_1g_m + C_2C_LL_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_2R_1\right) + s\left(C_2L_1 + C_LL_1R_1g_m + C_LL_1\right)}
10.633 INVALID-ORDER-633 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
H(s) = \frac{C_2L_1L_2R_1R_Lg_ms^3 + C_2L_1R_1R_Ls^2 + L_1R_1R_Lg_ms}{C_1C_2C_LL_1L_2R_1R_Ls^5 + R_1 + s^4\left(C_1C_2L_1L_2R_1 + C_2C_LL_1L_2R_1R_Lg_m + C_2C_LL_1L_2R_1\right) + s^3\left(C_1C_2L_1R_1R_L + C_1C_LL_1R_1R_L + C_2C_LL_1R_1R_L + C
10.634 INVALID-ORDER-634 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                 H(s) = \frac{C_2C_LL_1L_2R_1R_Lg_ms^3 + L_1R_1g_m + s^2\left(C_2C_LL_1R_1R_L + C_2L_1L_2R_1g_m\right) + s\left(C_2L_1R_1 + C_LL_1R_1R_Lg_m\right)}{C_1C_2C_LL_1L_2R_1s^4 + C_2R_1 + C_LR_1 + s^3\left(C_1C_2L_LR_1R_L + C_2C_LL_1L_2R_1g_m + C_2C_LL_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_
10.635 INVALID-ORDER-635 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_r s}\right)
                                                                                                           H(s) = \frac{C_2C_LL_1L_2L_LR_1g_ms^4 + C_2C_LL_1L_LR_1s^3 + C_2L_1R_1s + L_1R_1g_m + s^2\left(C_2L_1L_2R_1g_m + C_LL_1L_LR_1g_m\right)}{C_2R_1 + C_LR_1 + s^4\left(C_1C_2C_LL_1L_2R_1 + C_1C_2C_LL_1L_2R_1\right) + s^3\left(C_2C_LL_1L_2R_1g_m + C_2C_LL_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1\right) + s^2\left(C_1C_2L_1R_1 + C_2C_LL_1R_1\right
10.636 INVALID-ORDER-636 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C_2L_1L_2L_LR_1g_ms^4 + C_2L_1L_LR_1s^3 + L_1L_LR_1g_ms^2
H(s) = \frac{C_2L_1L_2L_LR_1g_ms^4 + C_2L_1L_LR_1s^3 + L_1L_LR_1g_ms^2}{C_1C_2C_LL_1L_2L_LR_1s^6 + R_1 + s^5\left(C_2C_LL_1L_2L_LR_1g_m + C_2C_LL_1L_2R_1 + C_1C_LL_1L_RR_1 + C_2C_LL_1L_LR_1 + C_2C_LL_2L_RR_1\right) + s^3\left(C_2L_1L_2R_1g_m + C_2L_1L_LR_1g_m + C_2L_1L_LR_1 + C_2L_1L_RR_1 + C_2C_LL_1L_RR_1\right) + s^3\left(C_2L_1L_2R_1g_m + C_2L_1L_LR_1g_m + C_2L_1L_LR_1\right) + s^2\left(C_1L_1R_1 + C_2L_1L_1R_1 + C_2C_LL_1L_2R_1\right) + s^3\left(C_2L_1L_2R_1g_m + C_2L_1L_2R_1g_m + C_2L_1L_2R_1\right) + s^3\left(C_2L_1L_2R_1g_m + C_2L_1L_2R_1g_m + C_2L_1L_2R_1g_m\right) + s^3\left(C_2L_1L_2R_1g_m + C_2L_1L_2R_1g_
10.637 INVALID-ORDER-637 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_2C_LL_1L_2L_LR_1g_ms^4 + L_1R_1g_m + s^3\left(C_2C_LL_1L_2R_1R_Lg_m + C_2C_LL_1L_LR_1\right) + s^2\left(C_2C_LL_1R_1R_L + C_2L_1L_2R_1g_m + C_LL_1L_LR_1g_m\right) + s\left(C_2L_1R_1 + C_LL_1R_1R_Lg_m\right) + s\left(C_2L_1R_1 + C_LL_1R_1R_Lg_m\right)}{C_2R_1 + C_LR_1 + s^4\left(C_1C_2C_LL_1L_2R_1 + C_2C_LL_1L_2R_1\right) + s^3\left(C_1C_2L_1L_2R_1g_m + C_2C_LL_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_L + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1\right) + s\left(C_2C_LR_1R_1 + C_2C_LR_1R_1\right) + s\left(
10.638 INVALID-ORDER-638 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_2 L_1 L_2 L_L R_1 R_L g_m s^4 + C_2 L_1 L_L R_1 R_L s
H(s) = \frac{ \frac{ \left( \sum_{L} 
10.639 INVALID-ORDER-639 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
H(s) = \frac{C_2C_LL_1L_2L_LR_1R_Lg_ms^5 + L_1R_1R_Lg_ms + s^4\left(C_2C_LL_1L_LR_1R_L + C_2L_1L_2L_Rg_m\right) + s^3\left(C_2L_1L_2R_1R_Lg_m + C_2L_1L_LR_1 + C_LL_1L_Rg_m\right) + s^4\left(C_2C_LL_1L_LR_1s^6 + R_1 + s^5\left(C_1C_2C_LL_1L_LR_1s^6 + R_1 + s^5\left(C_1C_2L_LL_LR_1s^6 + 
10.640 INVALID-ORDER-640 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C_2C_LL_1L_2L_LR_1R_Lg_ms^5 + C_2C_LL_1L_LR_1R_Ls^4 + C_2L_1R_1R_Lg_ms^5
H(s) = \frac{1}{C_1 C_2 C_L L_1 L_2 L_L R_1 s^6 + R_1 + s^5 \left( C_1 C_2 C_L L_1 L_2 R_1 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_L + C
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10.631 INVALID-ORDER-631 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

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10.642 INVALID-ORDER-642 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_1 s}\right)
                                           H(s) = \frac{C_2L_1L_2R_1g_ms^2 + L_1R_1g_m + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1\right)}{C_1C_2C_LL_1L_2R_1s^4 + C_2R_1 + C_LR_1 + s^3\left(C_1C_2C_LL_1R_1R_2 + C_2C_LL_1L_2R_1g_m + C_2C_LL_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1 + C_2C
10.643 INVALID-ORDER-643 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_2L_1L_2R_1R_Lg_ms^3 + L_1R_1R_Lg_ms + s^2(C_2L_1R_1R_2R_Lg_m + C_2L_1R_1R_L)
H(s) = \frac{C_2L_1L_2R_1R_Lg_ms^5 + L_1R_1R_Lg_ms + s^2 (C_2L_1R_1R_2R_Lg_m + C_2L_1R_1R_L)}{C_1C_2C_LL_1L_2R_1R_Ls^5 + R_1 + s^4 (C_1C_2C_LL_1R_1R_2R_L + C_1C_LL_1L_2R_1 + C_2C_LL_1R_1R_L + C_1C_LL_1R_1R_L + C_2C_LL_1R_1R_L + C_
10.644 INVALID-ORDER-644 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_2C_LL_1L_2R_1R_Lg_ms^3 + L_1R_1g_m + s^2\left(C_2C_LL_1R_1R_2R_Lg_m + C_2C_LL_1R_1R_L + C_2L_1L_2R_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1 + C_LL_1R_1R_Lg_m\right)}{C_1C_2C_LL_1L_2R_1s^4 + C_2R_1 + C_LR_1s^4 + C_2R_1 + C_LR_1s^4 + C_2R_1 + C_LR_1s^4 + C_2R_1s^4 + C_
10.645 INVALID-ORDER-645 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_2C_LL_1L_2L_Rq_ms^4 + L_1R_1g_m + s^3\left(C_2C_LL_1L_LR_1g_m + C_2C_LL_1L_LR_1\right) + s^2\left(C_2L_1L_2R_1g_m + C_LL_1L_LR_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1\right)}{C_2R_1 + C_LR_1 + s^4\left(C_1C_2C_LL_1L_2R_1 + C_1C_2L_1L_1R_1\right) + s^3\left(C_1C_2L_1L_1R_1R_2 + C_2C_LL_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1
10.646 INVALID-ORDER-646 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C_2L_1L_2L_LR_1g_ms^4 + L_1L_LR_1g_ms^2 + s^3\left(C_2L_1L_LR_1R_2g_m + C_2L_1L_LR_1\right)
H(s) = \frac{\sum_{L} \sum_{L} \sum
10.647 INVALID-ORDER-647 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
10.648 INVALID-ORDER-648 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_1 C_2 C_L L_1 L_2 L_L R_1 R_L s^6 + R_1 R_L + s^5 \left( C_1 C_2 C_L L_1 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 + C_2 C_L L_1 L_2 L_L R_1 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_L + C_1 C_2 L_1 L_L R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1
10.649 INVALID-ORDER-649 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{L}g_{m}s^{5} + L_{1}R_{1}R_{L}g_{m}s + s^{4}\left(C_{2}C_{L}L_{1}L_{L}R_{1}R_{2}R_{L}g_{m} + C_{2}C_{L}L_{1}L_{L}R_{1}R_{L} + C_{2}L_{1}L_{2}L_{L}R_{1}g_{m}\right)
H(s) = \frac{C_2C_LL_1L_2L_LR_1R_Lg_ms^3 + L_1R_1R_Lg_ms^3 + L_1R_1R_Lg_ms + s^4\left(C_2C_LL_1L_LR_1R_2R_Lg_m + C_2C_LL_1L_LR_1R_L + C_2L_1L_LR_1g_m\right)}{C_1C_2C_LL_1L_2L_LR_1s^6 + R_1 + s^5\left(C_1C_2C_LL_1L_LR_1R_2 + C_1C_2C_LL_1L_LR_1g_m + C_2C_LL_1L_LR_1 + C_2C_LL_1L_1L_1 + C_2C_LL_1L_1 
10.650 INVALID-ORDER-650 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{1}{C_1 C_2 C_L L_1 L_2 L_L R_1 s^6 + R_1 + s^5 \left( C_1 C_2 C_L L_1 L_2 R_1 R_L + C_1 C_2 C_L L_1 L_L R_1 R_2 + C_1 C_2 L_1 L_2 L_L R_1 g_m + C_2 C_L L_1 L_2 L_L R_1 g_m + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 R_1 R_2 R_L + C_1 C_2 L_2 R_1 R_2 R_L + C_1 C
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 $H(s) = \frac{C_2L_1L_2R_1R_Lg_ms^3 + L_1R_1R_Lg_ms + s^2\left(C_2L_1R_1R_2R_Lg_m + C_2L_1R_1R_L\right)}{C_1C_2L_1L_2R_1s^4 + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_L + C_2L_1L_2R_1g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1R_2g_m + C_2L_1R_1 + C_2L_1$

10.641 INVALID-ORDER-641 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)$

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10.652 INVALID-ORDER-652 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_1 s}\right)
                                         \frac{L_{1}L_{2}R_{1}g_{m}s^{2}+s^{3}\left(C_{2}L_{1}L_{2}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{2}R_{1}\right)+s\left(L_{1}R_{1}R_{2}g_{m}+L_{1}R_{1}\right)}{C_{1}C_{2}C_{L}L_{1}L_{2}R_{1}+C_{1}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1}L_{2}R_{1}+C_{2}C_{L}L_{1
10.653 INVALID-ORDER-653 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    H(s) = \frac{L_1 L_2 R_1 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 L_2 R_1 R_2 R_L g_m s + s^* (C_2 L_1 
10.654 INVALID-ORDER-654 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                         \frac{s^4 \left(C_2 C_L L_1 L_2 R_1 R_2 g_m + C_2 C_L L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 R_L g_m + s^2 \left(C_L L_1 R_1 R_2 R_L g_m + C_L L_1 R_1 R_L + L_1 L_2 R_1 g_m + C_L L_1 R_1 R_L + L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_2 C_L L_1 L_2 R_1 R_2 + 
10.655 INVALID-ORDER-655 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_L L_1 L_2 L_L R_1 g_m s^2 + s^5 \left(C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_2 C_L L_1 L_2 L_L R_1\right) + s^3 \left(C_2 L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 + C_L L_1 L_L R_1 R_2 g_m + C_L L_1 L_L R_1
10.656 INVALID-ORDER-656 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L_1L_2L_LR_1g_ms^3 + s^4\left(C_2L_1L_2L_LR_1R_2g_m^2\right)
                                         \frac{-1.22LLR_{1}g_{m}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{-1}c_{
10.657 INVALID-ORDER-657 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)
10.658 INVALID-ORDER-658 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}s^{6} + R_{1}R_{2}R_{L} + s^{5}\left(C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{L}R_{1}R_{L} + C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{L} + C_{2}C_{L}L_{1}L_{L}R_{1}R_{L} + C_{2}C_{L}L_{1}L_{L}R_{1}R_
10.659 INVALID-ORDER-659 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   s^{5} \left(C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}L_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}R_{1}R_{2}R_{L}g_{m}+C_{2}C_{L}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2}R_{1}R_{2
H(s) = \frac{s + (c_1 c_2 c_L L_1 L_2 L_L R_1 R_2 + c_1 c_2 c_L L_1 L_2 L_L R_1 R_2 + c_2 c_L L_1
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10.651 INVALID-ORDER-651 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)$

10.660 INVALID-ORDER-660 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $\overline{R_{1}R_{2} + R_{1}R_{L} + s^{6}\left(C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2} + C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{L}\right) + s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{2}R_{1}R_{2}R_{L} + C_{1}C_{L}L_{1}L_{2}L_{L}R_{1} + C_{2}C_{L}L_{1}L_{2}L_{L}R_{1} + C_{2}C_{L}L_{1}L_{2}L_{$

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10.661 INVALID-ORDER-661 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 (C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)
H(s) = \frac{C_2L_1R_1R_2R_Ls^2 + s^3\left(C_2L_1L_2R_1R_2R_Lg_m + C_2L_1L_2R_1R_L\right) + s\left(L_1R_1R_2R_Lg_m + L_1R_1R_L\right)}{R_1R_2 + R_1R_L + s^4\left(C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_2 + C_2L_1L_2R_1 + C_2L_1L_2R_1 + C_2L_1L_2R_1 + C_2L_1L_2R_1 + C_2L_1L_2R_1 + C_2L_1R_1R_2 + C_2L_1
10.662 INVALID-ORDER-662 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
H(s) = \frac{C_2L_1R_1R_2s^2 + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_LL_1L_2R_1R_2s^5 + R_1 + s^4\left(C_1C_2L_1L_2R_1 + C_2C_LL_1L_2R_1 + C_2C_LL_1L_2R_1 + C_2C_LL_1R_1R_2 + 
10.663 INVALID-ORDER-663 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_2L_1R_1R_2R_Ls^2 + s^3(C_2L_1L_2R_1R_2R_Lg_m + C_2L_1L_2R_1R_2R_Lg_m)
H(s) = \frac{C_2L_1R_1R_2R_Ls^2 + s^3\left(C_2L_1L_2R_1R_2R_Ls^2 + s^3\left(C_2L_1L_2R_1R_2R_Lg_m + C_2L_1L_2R_1R_2R_Lg_m + C_2L_1L_2R_1R_2R_L + s^3\left(C_1C_2L_1R_1R_2R_L + C_2C_LL_1R_1R_2R_L + C_2C_LL_1R_1R_2R
10.664 INVALID-ORDER-664 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{s^4 \left( C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_2 C_L L_1 L_2 R_1 R_L \right) + s^3 \left( C_2 C_L L_1 R_1 R_2 R_L + C_2 L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 \right) + s^2 \left( C_2 L_1 R_1 R_2 R_L + C_2 L_1 L_2 R_1 R_2 R_L \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 R_L + C_1 C_2 L_1 L_2 R_1 R_2 R_L + C_1 C_2 L_1 L_2 R_1 R_2 R_L \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 R_L + C_1 C_2 L_1 L_2 R_1 R_2 R_L \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 R_2 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 \right) + s^3 \left( C_1 C_2 L_1 L_2 R_1 R_2 + C_1 C_2 L_1 L_2 R_1 
10.665 INVALID-ORDER-665 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
H(s) = \frac{C_2C_LL_1L_2R_1R_2s^4 + C_2L_1R_1R_2s^2 + s^5\left(C_2C_LL_1L_2L_LR_1R_2g_m + C_2C_LL_1L_2L_LR_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 + C_2C_LL_1L_2R_1\right) + s^4\left(C_1C_2L_1L_2R_1 + C_2C_LL_1L_2R_1 + 
10.666 INVALID-ORDER-666 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_2L_1L_LR_1R_2s^3 + s^4\left(C_2L_1L_2L_LR_1R_2g_m + C_2L_1L_2L_RR_1R_2g_m + C_2L_1L_2L_2R_1R_2g_m + C_2L_1L_2L_2R_1R_2g_m + C_2L_2L_2R_1R_2g_m + C_2L_2L_2R_1R_2g_m + C_2L_2L_2R_1R_2g_m + C_
10.667 INVALID-ORDER-667 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{s^5 \left(C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_2 C_L L_1 L_2 L_L R_1\right) + s^4 \left(C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_2 C_L L_1 L_2 R_1 R_L + C_2 C_L L_1 L_2 R_1 R_2 R_L R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1
10.668 INVALID-ORDER-668 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
H(s) = \frac{1}{C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L s^6 + R_1 R_2 R_L + s^5 \left( C_1 C_2 L_1 L_2 L_L R_1 R_2 + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 R_1 R_2 R_L + C_2 C_L L_2 R_1 R_2 R_L + C_2 C_L L_2 R_1 R_2 R_L + C_2
10.669 INVALID-ORDER-669 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
H(s) = \frac{1}{R_1R_2 + R_1R_L + s^6 \left( C_1C_2C_LL_1L_2L_LR_1R_2 + C_1C_2C_LL_1L_2L_RR_1R_L \right) + s^5 \left( C_1C_2C_LL_1L_2L_RR_1R_2 + C_1C_2L_1L_2L_RR_1 + C_2C_LL_1L_2L_RR_1 + C_2C_LL_1L_2L_1R_1 + C_2C_
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10.670 INVALID-ORDER-670 Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
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 $H(s) = \frac{1}{R_1 R_2 + R_1 R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_2 C_L L_1 L_2 R_1 R_2 R_L + C_2 C_L$

10.671 INVALID-ORDER-671
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^3 \left(C_1 C_L L_1 R_1 R_2 g_m + C_1 C_L L_1 R_1 + C_1 C_L L_1 R_2 \right) + s^2 \left(C_1 L_1 + C_L L_1 R_2 g_m + C_L L_1 \right) + s \left(C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 \right) + 1}$$

10.672 INVALID-ORDER-672
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^2 \left(C_1 L_1 R_1 R_2 R_L g_m + C_1 L_1 R_1 R_L \right) + s \left(L_1 R_2 R_L g_m + L_1 R_L \right)}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^3 \left(C_1 C_L L_1 R_1 R_2 R_L g_m + C_1 C_L L_1 R_1 R_L \right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_1 L_1 R_2 + C_1 L_1 R_1 + C_1 L_1 R_2 + C_1 L_1 R_2 R_L g_m + C_L L_1 R_L \right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_L + C_L R_2 R_L g_m + C_L R_1 R_L \right)}$$

10.673 INVALID-ORDER-673
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

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

10.674 INVALID-ORDER-674
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_L L_1 L_L R_1 R_2 g_m + C_1 C_L L_1 L_L R_1\right) + s^3 \left(C_L L_1 L_L R_2 g_m + C_L L_1 L_L\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_L L_L R_1 R_2 g_m + C_L L_L R_1\right) + s \left(L_1 R_2 g_m + L_1\right)}{C_1 C_L L_1 L_L s^4 + s^3 \left(C_1 C_L L_1 R_1 R_2 g_m + C_1 C_L L_1 R_2\right) + s^2 \left(C_1 L_1 + C_L L_1 R_2 g_m + C_L L_1 + C_L L_1\right) + s \left(C_L R_1 R_2 g_m + C_L L_1 R_2\right) + 1}$$

10.675 INVALID-ORDER-675
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_1 R_2 g_m + C_1 L_1 L_1 R_1 \right) + s^2 \left(L_1 L_L R_2 g_m + L_1 L_L \right) + s \left(L_L R_1 R_2 g_m + L_L R_1 \right)}{R_1 R_2 g_m + R_1 + R_2 + s^4 \left(C_1 C_L L_1 L_L R_1 R_2 g_m + C_1 L_1 L_L R_2 \right) + s^3 \left(C_1 L_1 L_L R_2 g_m + C_L L_1 L_L \right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_1 L_1 R_2 g_m + C_1 L_1 R_1 R_2 g_m + C_1 L$$

10.676 INVALID-ORDER-676
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_L L_1 L_L R_1 R_2 g_m + C_1 C_L L_1 L_L R_1 \right) + s^3 \left(C_1 C_L L_1 R_1 R_2 R_L g_m + C_1 L_L L_L R_2 g_m + C_L L_1 L_L \right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_L L_1 R_1 + C_L L_1 R_2 R_L g_m + C_L L_1 R_1 R_2 g_m + C_L L_1 R_1$$

10.677 INVALID-ORDER-677
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_L R_1 R_2 R_L g_m + C_1 L_1 L_L R_1 R_L \right) + s^2 \left(L_1 L_L R_2 R_L g_m + L_1 L_L R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1 R_L \right) + s \left(L_L R_1 R_2 R_L g_m + L_L R_1$$

10.678 INVALID-ORDER-678
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_1 C_L L_1 L_L R_1 R_2 R_L g_m + C_1 C_L L_L L_R R_1 R_L\right) + s^3 \left(C_1 L_1 L_L R_1 R_2 g_m + C_1 L_L L_R R_2 R_L g_m + C_L L_L L_R R_2 R_L g_m + C_L L_L R_1 R_2 R_L g_m + C_L L_L R$$

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10.679 INVALID-ORDER-679 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left( C_1 C_L L_1 L_L R_1 R_2 R_L g_m + C_1 C_L L_1 L_L R_1 R_2 \right) + s^3 \left( C_L L_1 L_L R_2 R_L g_m + C_1 L_1 L_L R_1 \right) + s^3 \left( C_1 L_1 L_L R_2 R_L g_m + C_1 L_1 L_L R_1 \right) + s^3 \left( C_1 L_1 L_L R_1 R_2 R_L g_m + C_1 L_1 L_L R_1 \right) + s^3 \left( C_1 L_1 L_L R_1 R_2 R_L g_m + C_1 L_1 R_1 R_2 R_L g_m + C_1 L_
10.680 INVALID-ORDER-680 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                                                                                                                                                                                               H(s) = \frac{C_1C_2L_1R_1R_Ls^3 + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_2L_1R_L\right) + s\left(C_2R_1R_L + L_1R_Lg_m\right)}{R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_2L_1R_L\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_1\right) + s\left(C_2R_1 + C_2R_L + L_1g_m\right) + 1}
10.681 INVALID-ORDER-681 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                                                                                                                                                                                                                                                H(s) = \frac{C_1C_2L_1R_1s^3 + R_1g_m + s^2\left(C_1L_1R_1g_m + C_2L_1\right) + s\left(C_2R_1 + L_1g_m\right)}{C_1C_2C_LL_1R_1s^4 + s^3\left(C_1C_2L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + C_2C_LL_1\right) + s^2\left(C_2C_LR_1 + C_LL_1g_m\right) + s\left(C_2 + C_LR_1g_m + C_L\right)}
10.682 INVALID-ORDER-682 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                                                           H(s) = \frac{C_1C_2L_1R_1R_Ls^3 + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_2L_1R_L\right) + s\left(C_2R_1R_L + L_1R_Lg_m\right)}{C_1C_2C_LL_1R_1R_Ls^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_LL_1R_L + C_1C_LL_1R_L + C_2C_LL_1R_L\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2C_LR_1R_L + C_2L_1 + C_LL_1R_Lg_m\right) + s\left(C_2R_1 + C_2R_1 + 
10.683 INVALID-ORDER-683 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
                                                                                                                                                                                                           H(s) = \frac{C_{1}C_{2}C_{L}L_{1}R_{1}R_{L}s^{4} + R_{1}g_{m} + s^{3}\left(C_{1}C_{2}L_{1}R_{1} + C_{1}C_{L}L_{1}R_{1}R_{L}g_{m} + C_{2}C_{L}L_{1}R_{L}\right) + s^{2}\left(C_{1}L_{1}R_{1}g_{m} + C_{2}C_{L}R_{1}R_{L} + C_{2}L_{1} + C_{L}L_{1}R_{L}g_{m}\right) + s\left(C_{2}R_{1} + C_{L}R_{1}R_{L}g_{m} + L_{1}g_{m}\right)}{s^{4}\left(C_{1}C_{2}C_{L}L_{1}R_{1} + C_{1}C_{2}C_{L}L_{1}R_{L}\right) + s^{3}\left(C_{1}C_{2}L_{1} + C_{1}C_{L}L_{1}R_{1}g_{m} + C_{1}C_{L}L_{1} + C_{2}C_{L}L_{1}\right) + s^{2}\left(C_{2}C_{L}R_{1} + C_{2}C_{L}R_{1} + C_{2}C_{L}R_{1} + C_{2}C_{L}R_{1}\right) + s\left(C_{2}R_{1} + C_{2}C_{L}R_{1} + C_{2}C_{L}R_{1}\right) + s^{2}\left(C_{1}C_{2}C_{L}L_{1}R_{1} + C_{2}C_{L}R_{1} + C_{2}C_{L}R_{1}\right) + s^{2}\left(C_{1}C_{2}C_{L}L_{1}R_{1} + C_{2}C_{L}R_{1} + C_{2}C_{L}R_{1}\right) + s^{2}\left(C_{1}C_{2}C_{L}L_{1}R_{1} + C_{2}C_{L}R_{1}\right) + s^{2}\left(C_{1}C_{1}R_{1} + C_{2}C_{1}R_{1}\right) + s^{2}\left(C_{1}C_{1}R_{1} + C_{2}C_{1}R_{1}\right) + s^{2}\left(C_{1}C_{1}R_{1} + C_{2}C_{1}R_{1}\right) + s^{2}\left(C_{
10.684 INVALID-ORDER-684 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
                                                                                                                                                                                                   H(s) = \frac{C_1C_2C_LL_1L_LR_1s^5 + R_1g_m + s^4\left(C_1C_LL_1L_LR_1g_m + C_2C_LL_1L_L\right) + s^3\left(C_1C_2L_1R_1 + C_2C_LL_LR_1 + C_LL_1L_g_m\right) + s^2\left(C_1L_1R_1g_m + C_2L_1 + C_LL_LR_1g_m\right) + s\left(C_2R_1 + L_1g_m\right)}{C_1C_2C_LL_1L_Ls^5 + C_1C_2C_LL_1R_1s^4 + s^3\left(C_1C_2L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + C_2C_LL_1 + C_2C_LL_1\right) + s^2\left(C_2C_LR_1 + C_LL_1g_m\right) + s\left(C_2R_1 + L_1g_m\right)} + s\left(C_2R_1 + C_2R_1g_m + C_2R_1\right)
10.685 INVALID-ORDER-685 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
                                                    H(s) = \frac{C_1C_2L_1L_LR_1s^4 + L_LR_1g_ms + s^3\left(C_1L_1L_LR_1g_m + C_2L_1L_L\right) + s^2\left(C_2L_LR_1 + L_1L_Lg_m\right)}{C_1C_2C_LL_1L_LR_1s^5 + R_1g_m + s^4\left(C_1C_2L_1L_L + C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_2L_1R_1 + C_2C_LL_1R_1 + C_LL_1L_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_1 
10.686 INVALID-ORDER-686 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_2C_LL_1L_LR_1s^5 + R_1g_m + s^4\left(C_1C_2C_LL_1R_1R_L + C_1C_LL_1L_Rg_m + C_2C_LL_1R_1 + C_1C_LL_1R_1g_m + C_2C_LL_1R_1 + C_1C_LL_1R_1g_m + C_2C_LL_1R_1 + C_1C_LL_1R_1g_m + C_2C_LL_1R_1 + C_2C_LL_1 +
10.687 INVALID-ORDER-687 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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10.688 INVALID-ORDER-688 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

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10.689 INVALID-ORDER-689 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
10.690 INVALID-ORDER-690 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L\right)
                                                                                                                                            H(s) = \frac{C_1C_2L_1R_1R_2R_Ls^3 + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_1L_1R_1R_2R_Lg_m + C_1L_1R_1R_L + C_2L_1R_2R_L\right) + s\left(C_2R_1R_2R_L + L_1R_2R_Lg_m + L_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_2R_L\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_L + C_2L_1R_2\right) + s\left(C_2R_1R_2 + L_1R_2R_L + L_1R_2g_m + L_1R_2\right)}
10.691 INVALID-ORDER-691 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)
                                                                                                  H(s) = \frac{C_1C_2L_1R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_1R_2\right) + s\left(C_2R_1R_2 + L_1R_2g_m + L_1\right)}{C_1C_2C_LL_1R_1R_2s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_LL_1R_1R_2g_m + C_1C_LL_1R_1 + C_2C_LL_1R_2\right) + s^2\left(C_1L_1 + C_2C_LR_1R_2 + C_LL_1R_2g_m + C_LL_1\right) + s\left(C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_2\right) + 1}
10.692 INVALID-ORDER-692 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)
                           \frac{C_{1}C_{2}L_{1}R_{1}R_{2}R_{L}s^{3}+R_{1}R_{2}R_{L}g_{m}+R_{1}R_{L}+s^{2}\left(C_{1}L_{1}R_{1}R_{2}R_{L}g_{m}+C_{1}L_{1}R_{1}R_{L}+C_{2}L_{1}R_{2}R_{L}\right)+s\left(C_{2}R_{1}R_{2}R_{L}+L_{1}R_{2}R_{L}g_{m}+L_{1}R_{L}\right)}{C_{1}C_{2}C_{L}L_{1}R_{1}R_{2}R_{L}s^{4}+R_{1}R_{2}g_{m}+R_{1}+R_{2}+R_{L}+s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{2}R_{L}\right)+s^{2}\left(C_{1}L_{1}R_{1}R_{2}g_{m}+C_{1}L_{1}R_{1}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{2}R_{L}+C_{1}L_{1}R_{1}R_{L}+C_{1}L_{1}R_{1}R_{L}+C_{1}L_{1}R_{1}R_{L}+C_{1}L_{1}R_{1}R_{L}+C_{1}L_{1}R_{1}R_{L}+C_{1}L_{1}
10.693 INVALID-ORDER-693 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_1C_2C_LL_1R_1R_2R_Ls^4 + R_1R_2g_m + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_LL_1R_1R_2R_Lg_m + C_1C_LL_1R_1R_2 + C_2C_LL_1R_2R_L\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2C_LR_1R_2R_L + C_2L_1R_2 + C_LL_1R_2R_Lg_m + C_LL_1R_L\right) + s\left(C_2R_1R_2 + C_LR_1R_2R_L + C_2L_1R_2R_L + C_2L_1R_
10.694 INVALID-ORDER-694 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)
10.695 INVALID-ORDER-695 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)
H(s) = \frac{C_1C_2L_1L_LR_1R_2s^4 + s^3\left(C_1L_1L_LR_1R_2g_m + C_1L_1L_LR_1 + C_2L_1L_LR_2\right) + s^2\left(C_2L_LR_1R_2 + L_1L_LR_2g_m + L_1L_L\right) + s\left(L_LR_1R_2g_m + L_LR_1\right)}{C_1C_2C_LL_1L_LR_1R_2s^5 + R_1R_2g_m + R_1 + R_2 + s^4\left(C_1C_2L_1L_LR_2 + C_1C_LL_1L_LR_1R_2g_m + C_1L_1L_LR_2\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1L_1L_LR_2 + C_2C_LL_1L_LR_2\right) + s^2\left(C_2L_LR_1R_2 + L_1L_LR_2g_m + L_1L_L\right) + s^2\left(C_1L_1R_1R_2g_m + L_1L_L\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1L_RR_2g_m + C_1L_1L_RR_2\right) + s^2\left(C_2L_1R_1R_2 + C_1L_1L_RR_2g_m + L_1L_L\right) + s^2\left(C_2L_1R_1R_2 + C_1L_1L_RR_2g_m + C_1L_1R_2g_m + C_
10.696 INVALID-ORDER-696 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)
H(s) = \frac{C_{1}C_{2}C_{L}L_{1}L_{L}R_{1}R_{2}s^{5} + R_{1}R_{2}g_{m} + R_{1} + s^{4}\left(C_{1}C_{2}C_{L}L_{1}R_{1}R_{2}g_{m} + C_{1}C_{L}L_{1}L_{L}R_{1} + C_{2}C_{L}L_{1}L_{L}R_{2}\right) + s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2} + C_{1}C_{L}L_{1}R_{1}R_{2} + C_{2}C_{L}L_{1}R_{1}R_{2} + C_{1}C_{L}L_{1}R_{1}R_{2} + C_{1}C_{
10.697 INVALID-ORDER-697 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2}{C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)
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10.698 INVALID-ORDER-698 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

 $H(s) = \frac{1}{C_1C_2C_LL_1L_LR_1R_2R_Ls^5 + R_1R_2R_Lg_m + R_1R_L + R_2R_L + s^4\left(C_1C_2L_1L_LR_1R_2 + C_1C_LL_1L_LR_1R_2 + C_1C_LL_1L_LR_1R_1 + C_1C_LL_1L_LR_1R_1 + C_1C_LL_1L_LR_1R_1R_1 + C_1C_LL_1L_LR_1R_1R_1 + C_1C_LL_1L_LR_1R_1R_1 + C_1C_LL_1L_1R_1R_1R_1 + C_1C_LL_1L_1R_1R_1 + C_1C_LL_1R_1R_1 + C_1C_LL_1L_1R_1R_1 + C_1C_LL_1R_1R_1 + C_1C_$

 $C_1C_2L_1L_LR_1R_2R_Ls^4 + s^3(C_1L_1L_LR_1R_2R_Lg_m)$

 $H(s) = \frac{C_1C_2C_LL_1L_LR_1R_2R_Ls^5 + R_1R_2R_Lg_m + R_1R_L + s^4\left(C_1C_2L_1L_LR_1R_2 + C_1C_LL_1L_LR_1R_2R_Lg_m + C_1C_LL_1L_LR_1R_2R_L + C_2C_LL_1L_LR_1R_2R_L + C_1C_LL_1L_LR_1R_2R_L + C_1C_LL_1L_LR_1 + C_1C_LL_1L_1R_1 + C_1C_LL_1L_1R_1 + C_1C_LL_1L_1R_1 + C_1C_LL_1L_1R_1 + C_1C_LL_$

10.702 INVALID-ORDER-702 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

10.703 INVALID-ORDER-703 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_1 g_m + s^4 \left(C_1 C_2 C_L L_1 R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 R_1 R_L\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_2 C_L L_1 R_2 R_L g_m + C_2 C_L L_1 R_2 R_L g_m + C_2 C_L R_1 R_2 R_L g_m + C$

10.704 INVALID-ORDER-704 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$

10.705 INVALID-ORDER-705 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$

10.706 INVALID-ORDER-706 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_L R_1\right) + s^4 \left(C_1 C_2 C_L L_1 R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 g_m + C_2 C_L L_1 L_L R_2 g_m + C_2 C_L L_1 L_L R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 R_2 g_m + C_2 C_L L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_2$

10.707 INVALID-ORDER-707 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$

 $H(s) = \frac{L_L R_1 R_L g_m s}{R_1 R_L g_m + R_L + s^5 \left(C_1 C_2 C_L L_1 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_L R_1 R_2 g_m$

10.708 INVALID-ORDER-708 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

 $H(s) = \frac{R_1 R_L g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_2 \right) + s^4 \left(C_1 C_2 L_1 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_L R_1 R_2 g_m + C_2 C_L L_1 L_L R_1 R_2 g_m + C_2 C_L L_1 L_L R_2 R_L g_m + C_2 C_L L_1 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_L R_1 R_2 g_m + C_2 C_L L_1 L_L R_2 g_m + C_2 C_L L_1 L_L R_1 R_2 g_m + C_2 C_L L_1 L_L R_1 R_2 g_m + C_2 C_L L_1 L_L R_2 g_m + C_2 C_L L_$

10.714 INVALID-ORDER-714
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_LL_1L_LR_1 + C_2C_LL_1L_2R_1g_m + C_1C_LL_1L_RR_1g_m + C_2C_LL_1L_LR_1g_m + C_2C_LL_1L_LR_1g_m + C_2C_LL_1L_LR_1g_m + C_2C_LL_1L_LR_1g_m + C_2C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1 + C_2C_LL_1R_1g_m + C_2C_LR_1g_m + C_2C_LL_1R_1g_m + C_2C_LR_1g_m + C_2C_LR_1g_m + C_2C_LR_$$

10.715 INVALID-ORDER-715
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1C_2L_1L_2L_R_1g_ms + s^4\left(C_1C_2L_1L_LR_1 + C_2L_1L_LR_1g_m + s^4\left(C_1C_2L_1L_LR_1g_m + C_2L_1L_LR_1g_m + C_2L_1L_L + C_2L_2L_R_1g_m\right) + s^2\left(C_2L_1L_2R_1g_m + s^4\left(C_1C_2L_1L_2R_1g_m + C_1C_2L_1L_L + C_2L_1L_LR_1g_m + C_1C_2L_1L_L + C_2L_1L_LR_1g_m + C_1C_2L_1L_L + C_2L_1L_LR_1g_m + C_1C_2L_1L_L + C_2C_2L_1L_LR_1g_m + C_1C_2L_1L_LR_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1R_1g_m + C_1C_2L$$

10.716 INVALID-ORDER-716
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

10.717 INVALID-ORDER-717
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{C_1C_2L_1L_2L_L}{R_1R_Lg_m + R_L + s^6\left(C_1C_2C_LL_1L_2L_LR_1R_Lg_m + C_1C_2L_LL_LR_1R_L + C_1C_2L_LL_LR_1g_m + C_1C_2L_LR_1g_m + C_1C_2L_LR_1$$

10.718 INVALID-ORDER-718
$$Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1R_Lg_ms^6 + R_1R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_1R_L + C_1C_2L_1L_LR_1g_m + C_2C_LL_1L_LR_1g_m + C_1C_2L_1L_LR_1g_m + C_2C_LL_1L_LR_1g_m + C_1C_2L_1L_LR_1g_m + C_1C_2L_1L_LR_1g_m + C_2C_LL_1L_LR_1g_m + C_1C_2L_1L_LR_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1R_1g_m + C_1C_2L_1R_$$

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10.719 INVALID-ORDER-719 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{C_1C_2C_LL_1L_2L_Lg_ms + I_1I_Lg_ms + I_2I_LL_2g_m + S_1C_1C_2C_LL_1L_2L_1g_m + S_1C_1C_2C_LL_1L_2R_1g_m + S_1C_1C_2C_
10.720 INVALID-ORDER-720 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L\right)
                                                         \frac{C_{1}C_{2}L_{1}L_{2}R_{1}R_{L}g_{m}s^{4}+R_{1}R_{L}g_{m}+s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}R_{L}g_{m}+C_{1}C_{2}L_{1}R_{1}R_{L}+C_{2}L_{1}L_{2}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{1}R_{L}g_{m}+C_{2}L_{1}R_{L}+C_{2}L_{1}R_{L}g_{m}\right)+s\left(C_{2}R_{1}R_{L}g_{m}+C_{2}R_{1}R_{L}+L_{1}R_{L}g_{m}\right)}{R_{1}g_{m}+s^{4}\left(C_{1}C_{2}L_{1}L_{2}R_{1}g_{m}+C_{1}C_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}R_{L}+C_{2}L_{1}R_{2}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{1}g_{m}+C_{1}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{1}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{1}+C_{2}L_{2}R_{2}g_{m}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{2}L_{2}+C_{
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10.721 INVALID-ORDER-721
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_2L_1L_2R_1g_ms^4 + R_1g_m + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1R_1g_m + C_2L_1R_2g_m + C_2L_1 + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + L_1g_m\right)}{s^5\left(C_1C_2C_LL_1L_2R_1g_m + C_1C_2C_LL_1R_1R_2g_m + C_1C_2C_LL_1R_1 + C_2C_LL_1R_2g_m\right) + s^3\left(C_1C_2L_1 + C_2C_LL_1R_2g_m + C_2C_LL_1 + C_2C_LL_1R_2g_m + C_2C_LL_1\right) + s^2\left(C_2C_LR_1R_2g_m + C_2C_LL_1R_2g_m + C_2C_LR_2g_m + C_2C_LR_2$$

10.722 INVALID-ORDER-722
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

$$H(s) = \frac{C_1C_2L_1L_2R_1R_Lg_m s^4 + R_1R_Lg_m + s^3\left(C_1C_2L_1R_1R_2R_Lg_m + C_1C_2L_1R_1R_Lg_m + C_1C_2L_1R_1R$$

10.723 INVALID-ORDER-723
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_2R_1R_Lg_ms^5 + R_1g_m + s^4\left(C_1C_2C_LL_1R_1R_2R_Lg_m + C_1C_2L_LR_1R_Lg_m + C_2C_LL_1R_1R_Lg_m + C_2C_LL_1R_$$

10.724 INVALID-ORDER-724
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_LL_1L_LR_1g_2g_m + C_1C_2L_LL_LR_1g_m\right) + s^4\left(C_1C_2L_1L_LR_1g_m + C_1C_LL_1L_LR_1g_m + C_2C_LL_1L_LR_1g_m + C_2C_LL_1L_LR_1g_m\right) + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1R_2g_m + C_1C_2L_LR_1R_2g_m + C_1C_2L_LR_1R_2g_m\right) + s^4\left(C_1C_2L_1L_2R_1g_m + C_1C_LL_1L_2R_1g_m + C_1C_LL_1L_2R_1g_m + C_1C_LL_1R_1g_m + C_1C_LL_1R_1g_m + C_1C_LL_1R_1g_m\right) + s^4\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1R$$

10.725 INVALID-ORDER-725
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

$$H(s) = \frac{C_1C_2L_1L_2L_LR_1g_ms^5 + L_LR_1g_ms + s^4\left(C_1C_2L_1L_LR_1R_2g_m + C_1C_2L_1L_LR_1R_2g_m + C_1C_2L_1L_1R_1R_2g_m + C_1C_2L_1L_1R_1R_2g_m + C_1C_2L_1L_1R_1R_2g_m + C_1C_2L_1L_1R_1R_2g_m + C_1C_2L_1L_1R_1R_2g_m + C_1C_2L_1L_1R_1R_2g_m + C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_2g_m + C_1C_2R_1R_2g_m + C_1C_2R_1R_2g_m + C_1C_2R_1R_2g_m + C$$

10.726 INVALID-ORDER-726
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_LL_1L_2R_1R_Lg_m + C_1C_2C_LL_1L_LR_1R_2g_m + C_1C_2C_LL_1L_LR_1 + C_2C_LL_1L_LR_1R_2R_Lg_m + C_1C_2C_LL_1R_1R_2R_Lg_m + C_1C_2C_LL_1R_1R_L + C_1C_2L_1L_2R_1g_m + C_1C_LL_1L_LR_1g_m + C_2C_LL_1L_2R_2g_m + C_2C_LL_1R_2R_2g_m + C_2C_LL_1R_2R_$$

10.727 INVALID-ORDER-727
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

$$H(s) = \frac{1}{R_1 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_L + C_1 C_2 C_L L_1 L_L R_1 R_L + C_1 C_2 C_L R_1 R_L + C$$

10.728 INVALID-ORDER-728
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$$

$$H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1R_Lg_ms^6 + R_1R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_1R_2R_Lg_m + C_1C_2L_LL_LR_1g_m + C_2C_LL_1L_LR_1g_m + C_1C_2L_1L_LR_1g_m + C_1C_2L_1L_1L_1R_1g_m + C_1C_2L_1L_1L_1R_1g_m + C_1C_2L_1L_1L_1R_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1L_1R_$$

10.729 INVALID-ORDER-729 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)$

 $H(s) = \frac{1}{R_1 g_m + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 g_m + C_1 C_2 C_L L_1 L_2 L_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_L g_m + C_1 C_2 C_L L_1 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_L R_1 + C_1 C_2 C_L L_1 L_1 R_1 + C_1 C_2 C_L L_1 L_1 R_1 + C_1 C_2 C_L L_1 L_1 R_1 + C_1 C$

10.730 INVALID-ORDER-730 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L\right)$

 $H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_1 L_2 R_1 R_L g_m + C_2 L_1 L_2 R_1 R_L g_m + C_2 L_1 L_2 R_L g_m + C_2 L_1 L_2 R_L g_m + C_1 L_1 R_1 R_L + C_2 L_2 R_1 R_2 R_L g_m + C_2 L_2 R_1 R_L + L_1 L_2 R_L g_m + S_2 L_2 R_1 R_L g_m + S_2 L_2 R_1 R_2 R_L g_m + C_2 L_2 R_1 R_2 R_L g_m$

10.731 INVALID-ORDER-731 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_2 L_1 L_2 R_1 g_2 m + C_1 C_2 L_1 L_2 R_1 g_m + C_2 L_1 L_2\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + L_1 L_2 g_m\right) + s^2 \left(C_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_1 R_2 g_m + C_1 C_2 L_1 R_2 R_2 R_1 R_2 R_1 R_2 R_1 R_2 R_1$

10.732 INVALID-ORDER-732 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$

 $\frac{n_1n_2n_Lg_m + n_1n_L + s + (c_1c_2L_1L_2R_1 + c_1c_2L_1L_2R_1 + c_1c_2L_1L_2R_1$

10.733 INVALID-ORDER-733 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_L L_2 R_1 R_2 g_m + C_1 C_2 L_L L_2 R_1 R_2 g_m + C_1 C_2 L_L L_2 R_1 R_2 g_m + C_1 C_L L_1 L_2 R_1 R_2 g_m + C_2 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_L L_1 R_1 R_2 R_L g_m + C_1 C_L L_1 R_1 R_2 R$

10.734 INVALID-ORDER-734 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 L_L L_L L_R L_1 R_2 g_m + C_1 C_2 L_L L_L L_R L_1 R_2 g_m + C_2 C_L L_L L_L L_R L_1 R_2 g_m + C_2 C_L L_L L_L L_R L_1 R_2 g_m + C_1 C_L L_L L_L R_1 R_2 g_m + C_1 C_L L_L L_L R_1 R_2 g_m + C_2 C_L L_L L_L R_1 R_2 g_m + C_1 C_L R$

10.735 INVALID-ORDER-735 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{L_L s}{C_1 L_L s^2 + 1}\right)$

 $s^5 \left(C_1 C_2 L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_2 \right)$

10.736 INVALID-ORDER-736 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, L_1 s + R_1 + \frac{1}{C_1 s}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_L L_2 L_L R_1 g_m + C_2 C_L L_1 L_2 L_L R_2 g_m + C_2 C_L L_1 L_2 L_L R_1 g_m + C_1 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1$ $C_1C_2C_LL_1L_2L_Ls^6 + s^5\left(C_1C_2C_LL_1L_2R_1R_2q_m + C_1C_2C_LL_1L_2R_1 + C_1C_2C_LL_1L_2R_2 + C_1C_2C_LL_1L_2R_L\right) + s^4\left(C_1C_2C_LL_1L_2R_1 + C_1C_2C_LL_1L_2R_1 + C_1C_2C$

10.737 INVALID-ORDER-737 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$

10.738 INVALID-ORDER-738 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

 $H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_2 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_L R$

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10.739 INVALID-ORDER-739 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
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 $H(s) = \frac{1}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 + C_1 C_2 C_L L_1 L_2 L_L R_2 + C_1 C_2 C_L L_1 L_2 L_L R_2 \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R$

10.740 INVALID-ORDER-740
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_1 L_2 R_1 R_2 R_L g_m + C_2 L_1 L_2 R_1 R_2 R_L g_m + C_2 L_1 L_2 R_2 R_L g_m + C_2 L_1 L_2 R_L g_m + C_1 L_1 R_1 R_L + C_2 L_1 R_2 R_L g_m + C_2 L_2 R_1 R_2 R_L g$

10.741 INVALID-ORDER-741
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{1}{C_L s}\right)$$

10.742 INVALID-ORDER-742
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{R_L}{C_L R_L s + 1}\right)$$

 $R_1 R_2 R_L g_m + R_1 R_L + s^4 (C_1 C_2 L_1 L_2 R_1 R_2 R_L)$ $\frac{n_1n_2n_Lg_m + n_1n_L + s \cdot (\cup_1\cup_2L_1L_2n_1n_2n_Lg_m + n_1n_Lg_m + n_1n$

10.743 INVALID-ORDER-743
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 L_L L_2 R_1 R_2 g_m + C_1 C_2 L_L L_2 R_2 R_2 g_m + C_1 C_2 L_2 L_2 R_2 R_2 g_m + C_1 C_2 L_2 L_2 R_2 R_2 g_m + C_2 C_2 L_2 L_2 R_2 R_2 g_m + C_2 C_2 L_2 R_2 R_2 R_2 g_m + C_2 C_2 L_2 R_2 R_2 g_m + C_2 C$

10.744 INVALID-ORDER-744
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + \frac{1}{C_L s}\right)$$

10.745 INVALID-ORDER-745
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1}\right)$$

 $s^5 \left(C_1 C_2 L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_L R_1 \right)$

10.746 INVALID-ORDER-746
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, L_L s + R_L + \frac{1}{C_L s}\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 + C_2 C_L L_1 L_2 R_1 R_2 g_m + C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C$

10.747 INVALID-ORDER-747
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L R_L s}{C_L L_L R_L s^2 + L_L s + R_L}\right)$$

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10.748 INVALID-ORDER-748 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)
H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 g_m + C_1 C_2 L_L L_L L_R R_2 R_L g_m + C_2 C_L L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L L_R R_1 R_2 R_L + C_1 C_2 L_L L_L R_1 R_2 R
10.749 INVALID-ORDER-749 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \infty, \infty, \infty, \infty, \frac{R_L \left(C_L L_L s^2 + 1\right)}{C_L L_L s^2 + C_L R_L s + 1}\right)
H(s) = \frac{1}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^6 \left( C_1 C_2 C_L L_1 L_2 L_L R_1 + C_1 C_2 C_L L_1 L_2 L_L R_1 + C_1 C_2 C_L L_1 L_2 L_L R_2 + C_1 C_2 C_L L_1 L_2 L_L R_1 + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2
10.750 INVALID-ORDER-750 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                              H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left( C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 \right)}{s^3 \left( C_1 C_L L_1 R_1 R_2 g_m + C_1 C_L L_1 R_1 + C_1 C_L L_1 R_2 \right) + s^2 \left( C_1 C_L R_1 R_2 + C_1 L_1 \right) + s \left( C_1 R_1 + C_L R_1 R_2 g_m + C_L R_1 + C_L R_2 \right) + 1}
10.751 INVALID-ORDER-751 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                                           H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^2 \left( C_1 L_1 R_1 R_2 R_L g_m + C_1 L_1 R_1 R_L \right)}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^3 \left( C_1 C_L L_1 R_1 R_2 R_L g_m + C_1 C_L L_1 R_1 R_L \right) + s^2 \left( C_1 C_L R_1 R_2 R_L + C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_1 L_1 R_2 + C_1 L_1 R_1 \right) + s \left( C_1 R_1 R_2 + C_1 R_1 R_L + C_1 R_1 R_2 R_L g_m + C_1 R_1 R_L + C_1 R_1 R_2 R_L g_m \right)}
10.752 INVALID-ORDER-752 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                 H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left( C_1 C_L L_1 R_1 R_2 R_L g_m + C_1 C_L L_1 R_1 R_L \right) + s^2 \left( C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 \right) + s \left( C_L R_1 R_2 R_L g_m + C_L R_1 R_L \right)}{s^3 \left( C_1 C_L L_1 R_1 R_2 g_m + C_1 C_L L_1 R_1 + C_1 C_L L_1 R_2 + C_1 C_L L_1 R_L \right) + s^2 \left( C_1 C_L R_1 R_2 + C_1 C_L R_1 R_2 \right) + s \left( C_1 R_1 R_2 R_L g_m + C_1 R_1 R_2 R
10.753 INVALID-ORDER-753 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ R_2, \ \infty, \ \infty, \ \infty, \ L_Ls + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                              H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_L L_1 L_L R_1 R_2 g_m + C_1 C_L L_1 L_L R_1\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_L L_L R_1 R_2 g_m + C_L L_L R_1\right)}{C_1 C_L L_1 L_L s^4 + s^3 \left(C_1 C_L L_1 R_1 R_2 g_m + C_1 C_L L_1 R_1 + C_1 C_L L_1 R_2 + C_1 C_L L_L R_1\right) + s^2 \left(C_1 C_L R_1 R_2 + C_1 L_1 + C_L L_L\right) + s \left(C_1 R_1 + C_L R_1 R_2 g_m + C_L R_1 + C_L R_1\right) + s^2 \left(C_1 C_L R_1 R_2 + C_1 L_1 R_1 R_2 g_m + C_1 R_1 R_2 R_1 + C_1 R_1 R_2 R_1\right) + s^2 \left(C_1 C_L R_1 R_2 R_1 + C_1 R_1 R_2 R_1 + C_1 R_1 R_2 R_1 + C_1 R_1 R_2 R_1\right) + s^2 \left(C_1 C_L R_1 R_2 R_1 + C_1 R_1 R_2 R_1 R_2 R_1\right) + s^2 \left(C_1 R_1 R_1 R_2 R_1 R_1 R_2 R_1 + C_1 R_1 R_2 R_1 R_2 R_1 + C_1 R_1 R_2 R_1 R_2 R_1 R_2 R_1 R_1 R_2 R_1 R_
10.754 INVALID-ORDER-754 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
                                                                   H(s) = \frac{s^3 \left( C_1 L_1 L_L R_1 R_2 g_m + C_1 L_1 L_L R_1 \right) + s \left( L_L R_1 R_2 g_m + L_L R_1 \right)}{R_1 R_2 g_m + R_1 + R_2 + s^4 \left( C_1 C_L L_1 L_L R_1 R_2 g_m + C_1 C_L L_L L_L R_1 + C_1 L_L L_L R_1 + C_1 L_L L_L R_1 + C_1 L_L R_1 R_2 g_m +
10.755 INVALID-ORDER-755 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                 H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_L L_1 L_L R_1 R_2 g_m + C_1 C_L L_1 L_L R_1\right) + s^3 \left(C_1 C_L L_1 R_1 R_2 R_L g_m + C_1 C_L L_1 R_1 R_L\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_L L_L R_1 R_2 g_m + C_L L_L R_1\right) + s \left(C_L R_1 R_2 R_L g_m + C_L L_L R_1\right) + s \left(C_L R_1 R_2 R_L g_m + C_L L_L R_1\right) + s \left(C_L R_1 R_2 R_L g_m + C_L L_L R_1\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_L g_m + C_L R_1 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2 R_2 R_2\right) + s \left(C_L R_1 R_2 R_2
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10.757 INVALID-ORDER-757 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)
H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_1 C_L L_1 L_L R_1 R_2 R_L g_m + C_1 L_L L_L R_1 R_2 g_m + C_1 L_L L_R R_1 R_2 R_L g_m + C_1 L_L L_R R_1 R_2 R_L g_m + C_1 L_L L_R R_1 R_2 R_L g_m + C_1 L_L R_1 R_2 R_L g_m + C_1 L
10.758 INVALID-ORDER-758 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^4 \left(C_1 C_L L_1 L_L R_1 R_2 R_L g_m + C_1 C_L L_1 L_L R_1 R_L\right) + s^2 \left(C_1 L_1 R_1 R_2 R_L g_m + C_1 L_1 R
10.759 INVALID-ORDER-759 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                  H(s) = \frac{C_1C_2L_1R_1R_Ls^3 + C_1L_1R_1R_Lg_ms^2 + C_2R_1R_Ls + R_1R_Lg_m}{R_1q_m + s^3\left(C_1C_2L_1R_1 + C_1C_2L_1R_L\right) + s^2\left(C_1C_2R_1R_L + C_1L_1R_1q_m + C_1L_1\right) + s\left(C_1R_1 + C_2R_1 + C_2R_L\right) + 1}
10.760 INVALID-ORDER-760 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                                                                                                                                                                           H(s) = \frac{C_1C_2L_1R_1s^3 + C_1L_1R_1g_ms^2 + C_2R_1s + R_1g_m}{C_1C_2C_LL_1R_1s^4 + s^3\left(C_1C_2L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1\right) + s\left(C_2 + C_LR_1g_m + C_L\right)}
10.761 INVALID-ORDER-761 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                                                             H(s) = \frac{C_1C_2L_1R_1R_Ls^3 + C_1L_1R_1R_Lg_ms^2 + C_2R_1R_Ls + R_1R_Lg_m}{C_1C_2C_LL_1R_1R_Ls^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_L + C_1C_LR_1R_L + C_1L_1R_1g_m + C_1L_1 + C_2C_LR_1R_L\right) + s\left(C_1R_1 + C_2R_1 +
10.762 INVALID-ORDER-762 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                            H(s) = \frac{C_1C_2C_LL_1R_1R_Ls^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_LL_1R_1R_Lg_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_LR_1R_L\right) + s\left(C_2R_1 + C_LR_1R_Lg_m\right)}{s^4\left(C_1C_2C_LL_1R_1 + C_1C_2C_LL_1R_L\right) + s^3\left(C_1C_2C_LR_1R_L + C_1C_2L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1 + C_2C_LR_1\right) + s\left(C_2C_LR_1R_L\right) + s\left(C_2C_L
10.763 INVALID-ORDER-763 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, 1 + \frac{1}{C_Ls}\right)
                                                                                                                                                                                                                                       H(s) = \frac{C_1C_2C_LL_1L_LR_1s^5 + C_1C_LL_1L_LR_1g_ms^4 + C_2R_1s + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_2C_LL_LR_1\right) + s^2\left(C_1L_1R_1g_m + C_LL_LR_1g_m\right)}{C_1C_2C_LL_1L_Ls^5 + s^4\left(C_1C_2C_LL_1R_1 + C_1C_LL_LR_1\right) + s^3\left(C_1C_2L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1\right) + s^2\left(C_1C_2R_1\right) + s^2\left(C_1C_
10.764 INVALID-ORDER-764 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
                                                                                       H(s) = \frac{C_1C_2L_1L_LR_1s^4 + C_1L_1L_LR_1g_ms^3 + C_2L_LR_1s^2 + L_LR_1g_ms}{C_1C_2C_LL_1L_LR_1s^5 + R_1g_m + s^4\left(C_1C_2L_1L_L + C_1C_LL_1L_LR_1g_m + C_1C_LL_1L_L\right) + s^3\left(C_1C_2L_1R_1 + C_1C_LL_LR_1 + C_1C_LL_LR_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_L + C_LL_LR_1g_m + C_LL_L\right) + s\left(C_1R_1 + C_2R_1\right) + 1}
10.765 INVALID-ORDER-765 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
                                                                                               H(s) = \frac{C_1C_2C_LL_1L_LR_1s^5 + R_1g_m + s^4\left(C_1C_2C_LL_1R_1R_L + C_1C_LL_1L_Rg_m\right) + s^3\left(C_1C_2L_1R_1 + C_1C_LL_1R_1R_Lg_m + C_2C_LL_LR_1\right) + s^2\left(C_1L_1R_1g_m + C_2C_LR_1R_L + C_LL_LR_1g_m\right) + s\left(C_2R_1 + C_LR_1R_Lg_m\right)}{C_1C_2C_LL_1L_Ls^5 + s^4\left(C_1C_2C_LL_1R_1 + C_1C_2C_LL_1R_1 + C_1C_2C_LR_1R_L + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(C_1L_1R_1g_m + C_2C_LR_1R_L + C_1C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_2R_1\right) + s^2\left(C_1C_2R_1\right) + s^2\left(C_1C_2R
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H(s) = \frac{C_1C_2L_1L_LR_1R_Ls^4 + C_1L_1L_LR_1R_Lg_ms^3 + C_2L_LR_1R_Ls^2 + L_LR_1R_Lg_ms}{C_1C_2C_LL_1L_LR_1R_Ls^5 + R_1R_Lg_m + R_L + s^4\left(C_1C_2L_1L_LR_1 + C_1C_LL_1L_LR_1R_Lg_m + C_1C_LL_1L_LR_1\right) + s^3\left(C_1C_2L_1R_1R_L + C_1C_LL_LR_1R_L + C
 10.767 INVALID-ORDER-767 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)
 H(s) = \frac{C_1C_2C_LL_1L_LR_1R_Ls^5 + R_1R_Lg_m + s^4\left(C_1C_2L_1L_LR_1 + C_1C_LL_1L_LR_1g_m\right) + s^3\left(C_1C_2L_1R_1R_L + C_1L_LL_RI_2g_m\right) + s^3\left(C_1C_2L_1R_1R_L + C_1L_LR_1R_Lg_m\right) + s^2\left(C_1L_1R_1R_Lg_m + C_2L_LR_1 + C_LL_RI_2g_m\right) + s\left(C_2R_1R_L + L_LR_1g_m\right) + s^2\left(C_1L_1R_1R_L + C_1L_LR_1R_Lg_m\right) + s^2\left(C_1L_1R_1R_Lg_m\right) 
 10.768 INVALID-ORDER-768 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
 10.769 INVALID-ORDER-769 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                     H(s) = \frac{C_1C_2L_1R_1R_2R_Ls^3 + C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_1L_1R_1R_2R_Lg_m + C_1L_1R_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_2R_L\right) + s^2\left(C_1C_2R_1R_2R_L + C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_L\right) + s\left(C_1R_1R_2 + C_1R_1R_2 + C_2R_1R_2 + C_2R_2R_L\right)}
 10.770 INVALID-ORDER-770 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                                                                                   H(s) = \frac{C_1C_2L_1R_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1\right)}{C_1C_2C_LL_1R_1R_2s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_LL_1R_1R_2g_m + C_1C_LL_1R_1 + C_1C_LL_1R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2 + C_1L_1 + C_2C_LR_1R_2\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_1\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_1\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_1\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2g_m + C_LR_1 + C_LR_1\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2g_m + C_LR_1\right) + s\left(C_1R_1 + C_2R_2 + C_LR_1R_2\right) + s\left(C_1R_1 + C_2R_2\right) + s\left(C
 10.771 INVALID-ORDER-771 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
H(s) = \frac{C_1C_2L_1R_1R_2R_Ls^3 + C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^2\left(C_1L_1R_1R_2R_Lg_m + C_1L_1R_1R_L\right)}{C_1C_2C_LL_1R_1R_2R_Ls^4 + R_1R_2g_m + R_1 + R_2 + R_L + s^3\left(C_1C_2L_1R_1R_2 + C_1C_LL_1R_1R_2R_Lg_m + C_1C_LL_1R_1R_2R_L\right) + s^2\left(C_1C_2R_1R_2R_L + C_1C_LR_1R_2R_L + C_1C_LR_1R_2R_L + C_1C_LR_1R_2R_L\right) + s^2\left(C_1C_2R_1R_2R_L + C_1C_LR_1R_2R_L + C_1C_LR_1R_2R_L\right) + s^2\left(C_1C_2R_1R_2R_L + C_1C_LR_1R_2R_L + C_1C_LR_1R_2R_L\right) + s^2\left(C_1C_2R_1R_2R_L + C_1C_LR_1R_2R_L\right) + s^2\left(C_1C_2R_1R_2R_L\right) + s^2
 10.772 INVALID-ORDER-772 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_2C_LL_1R_1R_2R_Ls^4 + R_1R_2g_m + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_LL_1R_1R_2R_Lg_m + C_1L_1R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2C_LR_1R_2R_L\right) + s\left(C_2R_1R_2 + C_LR_1R_2R_Lg_m + C_LR_1R_L\right)}{s^4\left(C_1C_2C_LL_1R_1R_2 + C_1C_LL_1R_1R_2 + C_1C_LL_1R_1 + C_1C_LL_1R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2 + C_1C_LR_1R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_LR_1R_2\right) + s^2\left(C_1C_2R_1R_2\right) + s^2\left(C_1C_2R_1
 10.773 INVALID-ORDER-773 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
 H(s) = \frac{C_1C_2C_LL_1L_LR_1R_2s^5 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^4\left(C_1C_LL_1L_LR_1R_2g_m + C_1C_LL_1L_LR_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_2C_LL_LR_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_LL_LR_1R_2g_m + C_LL_LR_1\right)}{C_1C_2C_LL_1L_LR_2s^5 + s^4\left(C_1C_2C_LL_1R_1R_2 + C_1C_LL_1R_1 +
 10.774 INVALID-ORDER-774 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
 H(s) = \frac{C_1C_2L_1L_LR_1R_2s^4 + C_2L_LR_1R_2s^2 + s^3\left(C_1L_1L_LR_1R_2g_m + C_1L_1L_LR_1\right) + s\left(L_LR_1R_2g_m + L_LR_1\right)}{C_1C_2C_LL_1L_LR_1R_2s^5 + R_1R_2g_m + R_1 + R_2 + s^4\left(C_1C_2L_1L_LR_1R_2g_m + C_1C_LL_1L_LR_1 + C_1C_LL_1L_LR_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_LL_1R_1R_2 + C_1C_LL_1R_1R_1 + C_1C_LL_1R_1R_2 + C_1C_LL_1R_1R_2 + C_1C_LL_1R_1R_1 + C_1C_LL_1R_1R_2 + C_1C_LL_1R_1R_2 +
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10.766 INVALID-ORDER-766 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$

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10.775 INVALID-ORDER-775 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_2C_LL_1L_LR_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2C_LL_1R_1R_2R_L + C_1C_LL_1L_LR_1R_2g_m + C_1C_LL_1R_1R_2 + C_1C_LL_1R_1 +
10.776 INVALID-ORDER-776 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
H(s) = \frac{C_1C_2L_1L_LR_1R_2R_Ls + C_2L_LR_1R_2R_Ls + C_2L_LR_1R_2R_1R_2R_1R_1R_2R_1R_2R_1R_1R_2R_1R_2R_1R_1R_2R_1R_2R_1R_1R_2R_1R_1R_2R_1R_1R_1R_1R_1R_1R_1R_1R_1R_
10.777 INVALID-ORDER-777 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)
H(s) = \frac{C_1C_2C_LL_1L_LR_1R_2R_Ls^5 + R_1R_2R_Lg_m + R_1R_L + s^4\left(C_1C_2L_1L_LR_1R_2 + C_1C_LL_1L_LR_1R_2R_Lg_m + C_1C_LL_1L_LR_1R_L\right) + s^3\left(C_1C_2L_1R_1R_2R_L + C_1L_1L_LR_1R_2R_L + C_1L_1L_LR_1R_2R_L + C_1C_LL_1L_LR_1R_2R_L + C_1C_LL_1L_LR_1R_2R_L + C_1C_LL_1L_LR_1R_2R_L + C_1C_LL_1L_LR_1R_2R_L + C_1C_LL_1L_LR_1 + C_1C_LL_1L_RR_1 + C_1C_LL_1L_1R_1 + C_1C_LL_1L_1R_1 + C_1C_LL_1L_1R_1 + C_1C_LL_1L_1R_1 + C_1C_LL_1L_1R
10.778 INVALID-ORDER-778 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_1C_2C_LL_1L_LR_1R_2R_Ls^5 + C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^4 (e.g.,
                                                \frac{\cup_{1}\cup_{2}\cup_{L}L_{1}L_{1}L_{1}L_{2}L_{1}}{R_{1}R_{2}g_{m}+R_{1}+R_{2}+R_{L}+s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{L}R_{2}+C_{1}C_{2}L_{L}L_{L}R_{2}R_{L}\right)+s^{4}\left(C_{1}C_{2}C_{L}L_{1}L_{L}R_{2}R_{L}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{L}L_{L}L_{L}R_{1}+C_{1}C_{L}L_{L}L_{L}R_{1}+C_{1}C_{L}L_{L}L_{L}R_{1}+C_{1}C_{L}L_{L}L_{L}R_{1}\right)+s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}+C_{1}C_{2}L_{1}L_{L}R_{2}R_{L}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}R_{L}+C_{1}C_{L}L_{L}L_{L}R_{1}+C_{1}C_{L}L_{L}L_{L}R_{1}+C_{1}C_{L}L_{L}L_{L}R_{1}\right)+s^{3}\left(C_{1}C_{2}L_{1}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}R_{L}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}R_{L}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}R_{1}R_{2}+C_{1}C_{L}L_{L}L_{L}
10.779 INVALID-ORDER-779 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                            H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + R_1R_Lg_m + s^3\left(C_1C_2L_1R_1R_2R_Lg_m + C_1C_2L_1R_1R_L\right) + s\left(C_2R_1R_2R_Lg_m + C_2R_1R_L\right)}{R_1g_m + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_1C_2L_1R_2 + C_1C_2L_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_2R_1R_2g_m + C_2R_1 + C_2R_1 + C_2R_1R_2\right) + 1}
10.780 INVALID-ORDER-780 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)
                                                                                                                      H(s) = \frac{C_1L_1R_1g_ms^2 + R_1g_m + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1\right) + s\left(C_2R_1R_2g_m + C_2R_1\right)}{s^4\left(C_1C_2C_LL_1R_1R_2g_m + C_1C_2C_LL_1R_1 + C_1C_2C_LL_1R_2\right) + s^3\left(C_1C_2C_LR_1R_2 + C_1C_LL_1R_1g_m + C_1C_LL_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1R_2g_m + C_2C_LR_1R_2g_m + C_2C_LR_1 + C_2C_LR_1R_2g_m + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1R_2g_m + C_2C_LR_1 + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1 + C_2C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1\right) + s^2\left(C_1C_2R_1 + C_2C_LR_1\right) + s^2\left(C_1C
10.781 INVALID-ORDER-781 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_{1}L_{1}R_{1}R_{L}g_{m}s^{2} + R_{1}R_{L}g_{m} + s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}R_{L}g_{m} + C_{1}C_{2}L_{1}R_{1}R_{L}\right) + s\left(C_{2}R_{1}R_{2}R_{L}g_{m} + C_{2}R_{1}R_{L}\right)
H(s) = \frac{C_1L_1R_1R_Lg_ms^2 + R_1R_Lg_m + s^3\left(C_1C_2L_1R_1R_2R_Lg_m + C_1C_2L_1R_1R_L\right) + s\left(C_2R_1R_2R_Lg_m + C_2R_1R_L\right)}{R_1g_m + s^4\left(C_1C_2C_LL_1R_1R_2R_Lg_m + C_1C_2L_1R_1R_L + C_1C_2L_1R_1R_2R_L + C_1C_2L_1R_1R_L + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2L_1R_1R_L + C_1C_LL_1R_1R_Lg_m + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L + C_1C_LL_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_L\right
10.782 INVALID-ORDER-782 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
                                             \frac{R_{1}g_{m}+s^{4}\left(C_{1}C_{2}C_{L}L_{1}R_{1}R_{2}R_{L}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}R_{L}\right)+s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{2}L_{1}R_{1}+C_{1}C_{L}L_{1}R_{1}R_{L}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{1}g_{m}+C_{2}C_{L}R_{1}R_{L}\right)+s\left(C_{2}R_{1}R_{2}g_{m}+C_{2}R_{1}+C_{L}R_{1}R_{L}g_{m}\right)}{s^{4}\left(C_{1}C_{2}C_{L}L_{1}R_{1}+C_{1}C_{2}C_{L}L_{1}R_{1}+C_{1}C_{2}C_{L}R_{1}R_{L}\right)+s^{3}\left(C_{1}C_{2}C_{L}R_{1}R_{L}+C_{1}C_{2}L_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}\right)+s^{2}\left(C_{1}C_{2}R_{1}R_{2}+C_{2}C_{L}R_{1}R_{2}+C_{2}C_{L}R_{1}R_{L}\right)+s\left(C_{2}R_{1}R_{2}+C_{1}C_{2}C_{L}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}g_{m}+C_{1}C_{L}L_{1}\right)+s^{2}\left(C_{1}C_{2}R_{1}R_{2}+C_{1}C_{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}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C_{1}C_{L}L_{1}R_{1}R_{L}+C
10.783 INVALID-ORDER-783 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_LL_1L_LR_1g_ms^4 + R_1g_m + s^5\left(C_1C_2C_LL_1L_LR_1g_m + C_1C_2L_LL_LR_1\right) + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_LR_1\right) + s^2\left(C_1L_1R_1g_m + C_LL_LR_1g_m + C_LL_LR_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_2g_m + C_2R_1R_2g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_2g_m\right)
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10.784 INVALID-ORDER-784 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_{1}L_{1}L_{L}R_{1}g_{m}s^{3} + L_{L}R_{1}g_{m}s + s^{4}\left(C_{1}C_{2}L_{1}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{L}R_{1}\right) + s^{2}\left(C_{2}L_{L}R_{1}R_{2}g_{m} + C_{2}L_{L}R_{1}\right) + s^{2}\left(C_{2}L_{L}R_{1}R_{2}g_{m} + C_{2}L_{L}R_{2}\right) + s^{2}\left(C_{2}L_{L}R_{1}R_{2}g_{m} + C_{2}L_{L}R_{2}\right) + s^{2}\left(C_{2}L_{L}R_{1}R_{2}g_{m} + C_{2}L_{L}R_{2}\right) + s^{2}\left(C_{2}L_{L}R_{1}R_{2}g_{m} + C_{2}L_{L}R_{2}\right) + s^{2}\left(C_{2}L_{L}R_{1}R_{2}g_{m} + C_{2}L_{L}R_
H(s) = \frac{C_1L_1L_1R_1g_ms^* + L_LR_1g_ms + s^* (C_1C_2L_1L_LR_1R_2g_m + C_1C_2L_1L_LR_1) + s^* (C_2L_LR_1R_2g_m + C_2L_LR_1)}{R_1g_m + s^5 (C_1C_2L_LL_1L_1R_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1L_1R_1g_m + C_1C_2L_1R_1 + C_1C_2L_
10.785 INVALID-ORDER-785 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_L L_1 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_L R_1\right) + s^4 \left(C_1 C_2 C_L L_1 R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 R_1 R_L + C_1 C_L L_1 L_L R_1 g_m\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_L R_1 R_2 g_m + C_2 C_L L_L R_1\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 C_L L_1 R_1 R_2 g_m + C_2 C_L L_1 R_1 R_2
10.786 INVALID-ORDER-786 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
H(s) = \frac{1}{R_1 R_L g_m + R_L + s^5 \left( C_1 C_2 C_L L_1 L_L R_1 R_2 R_L g_m + C_1 C_2 L_L L_L R_1 R_L + C_1 C_2 L_L L_L R_1 R_2 R_L + C_1 C_2 L_L L_L R_1 R_2 g_m + C_1 C_2 L_L R_1
10.787 INVALID-ORDER-787 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)
                                             R_{1}R_{L}g_{m} + s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}C_{L}L_{1}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{L}R_{1} + C_{1}C_{L}L_{L}L_{R}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}R_{1}R_{2}R_{L}g_{m} + C_{1}C_{2}L_{1}R_{1}R_{2}R_{L}g_{m} + C_{1}C_{2}L_{1}R_{1}R_{L} + C_{1}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{L}R_{1}R_{L} + C_{1}C_{2}L_{L}R_{1}R_{L} + C_{1}C_{2}L_{L}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{L}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1
10.788 INVALID-ORDER-788 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_LL_1L_LR_1R_Lg_ms^4 + R_1R_Lg_m + s^5(C_1C_2C_LL_1L_Lg_m)
H(s) = \frac{C_1 C_L L_L L_L L_L L_R L_R g_m + C_1 C_2 C_L L_L L_L R_1 R_2 g_m + C_1 C_2 C_L L_L L_L R_1 + C_1 C_2 C_L L_L L_L R_2 + C_1 C_2 C_L L_L L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_L R_1 R_L + C_1 C_2 C_L L_L R_1 R_2 + C_1 C_2 C_L R_1 R_2 + C_1
10.789 INVALID-ORDER-789 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, R_L\right)
                                                                                                                                                                                                   H(s) = \frac{C_1C_2L_1L_2R_1R_Lg_ms^4 + C_1C_2L_1R_1R_Ls^3 + C_2R_1R_Ls + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_2L_2R_1R_Lg_m\right)}{R_1g_m + s^4\left(C_1C_2L_1L_2R_1g_m + C_1C_2L_1L_2\right) + s^3\left(C_1C_2L_1R_1 + C_1C_2L_1R_L + C_1C_2L_2R_1\right) + s^2\left(C_1C_2R_1R_L + C_1L_1R_1g_m + C_1L_1 + C_2L_2R_1g_m + C_2L_2\right) + s\left(C_1R_1 + C_2R_1 + C_2R_1\right) + 1}
10.790 INVALID-ORDER-790 Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s+\frac{1}{C_2s}, \ \infty, \ \infty, \ \infty, \ \frac{1}{C_Ls}\right)
                                                                                                            H(s) = \frac{C_1C_2L_1L_2R_1g_ms^4 + C_1C_2L_1R_1s^3 + C_2R_1s + R_1g_m + s^2\left(C_1L_1R_1g_m + C_2L_2R_1g_m\right)}{s^5\left(C_1C_2C_LL_1L_2R_1g_m + C_1C_2C_LL_1L_2\right) + s^4\left(C_1C_2C_LL_1R_1 + C_1C_2C_LL_2R_1\right) + s^3\left(C_1C_2L_1 + C_1C_LL_1R_1g_m + C_1C_LL_1 + C_2C_LL_2R_1g_m + C_2C_LL_2\right) + s^2\left(C_1C_2R_1 + C_1C_LR_1 + C_2C_LR_1\right) + s\left(C_2 + C_LR_1g_m + C_2C_LR_1g_m + C_2C_LR_1g_m + C_2C_LR_1g_m\right) + s\left(C_2 + C_LR_1g_m + C_2C_LR_1g_m + C_2C_LR_1g_m + C_2C_LR_1g_m\right) + s\left(C_2 + C_LR_1g_m + C_2C_LR_1g_m + C_2C_LR_1g_m
10.791 INVALID-ORDER-791 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_1C_2L_1L_2R_1R_Lg_ms^4 + C_1C_2L_1R_1R_Ls^3 + C_2R_1R_Ls + R_1R_Lg_m + s^2\left(C_1L_1R_1R_Lg_m + C_2L_2R_1R_Lg_m\right)
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 $H(s) = \frac{C_1C_2L_1L_2R_1R_Lg_ms + C_1C_2L_1R_1R_Ls + R_1R_Lg_m + s \cdot (C_1L_1R_1R_Lg_m + C_2L_2R_1R_Lg_m)}{R_1g_m + s^5 \left(C_1C_2C_LL_1L_2R_1R_Lg_m + C_1C_2L_LL_2R_1R_L + C_1C_2L_1L_2R_1g_m + C_1C_2L_1R_L + C_1C_2L_1$

 $\textbf{10.792} \quad \textbf{INVALID-ORDER-792} \ Z(s) = \left(\frac{R_1 \left(C_1 L_1 s^2 + 1 \right)}{C_1 L_1 s^2 + C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty, \ \infty, \ R_L + \frac{1}{C_L s} \right) \\ H(s) = \frac{C_1 C_2 C_L L_1 L_2 R_1 R_L g_m s^5 + R_1 g_m + s^4 \left(C_1 C_2 C_L L_1 R_1 R_L + C_1 C_2 L_1 L_2 R_1 g_m \right) + s^3 \left(C_1 C_2 L_1 R_1 R_L g_m + C_2 C_L L_2 R_1 R_L g_m \right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 C_L R_1 R_L + C_2 L_2 R_1 g_m \right) + s \left(C_2 R_1 + C_L R_1 R_L g_m \right) \\ \frac{s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 g_m + C_1 C_2 C_L L_1 L_2 \right) + s^4 \left(C_1 C_2 C_L L_1 R_1 + C_1 C_2 C_L L_2 R_1 \right) + s^3 \left(C_1 C_2 C_L R_1 R_L + C_1 C_2 L_1 R_1 g_m + C_2 C_L L_2 R_1 g_m + C_2 C_L L_2 R_1 g_m \right) + s \left(C_1 C_2 R_1 R_L + C_2 C_L R_1 R_L + C_2 C_L R_1 R_L + C_2 C_L R_1 R_L \right) \\ \frac{s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 g_m + C_1 C_2 C_L L_1 R_1 + C_1 C_2 C_L L_2 R_1 R_L + C_1 C_2 C_L L_2 R_1 R_L + C_2 C_L L_2 R_1 R_L + C_2 C_L R_1 R_L + C_2 C_L$

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10.793 INVALID-ORDER-793 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_2C_LL_1L_2L_Rq_ms^6 + C_1C_2C_LL_1L_LR_1s^5 + C_2R_1s + R_1g_m + s^4\left(C_1C_2L_1L_2R_1g_m + C_1C_LL_1L_Rq_m + C_2C_LL_2L_Rq_m\right) + s^3\left(C_1C_2L_1R_1 + C_2C_LL_Rq_1\right) + s^2\left(C_1L_1R_1g_m + C_2L_2R_1g_m + C_LL_Rq_m\right)}{s^5\left(C_1C_2C_LL_1L_2R_1g_m + C_1C_2C_LL_1L_1\right) + s^4\left(C_1C_2C_LL_1R_1 + C_1C_2C_LL_2R_1\right) + s^3\left(C_1C_2L_1R_1 + C_2C_LL_2R_1g_m + C_1C_LL_1R_1g_m + C_2C_LL_2R_1g_m + C_2C_LR_1g_m + 
10.794 INVALID-ORDER-794 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)
H(s) = \frac{C_1C_2L_1L_2L_R_1g_ms^5 + C_1C_2L_1L_LR_1s^4 + C_2L_LR_1s^2 + L_LR_1g_ms + s^3\left(C_1L_1L_LR_1g_m + C_2L_2L_LR_1g_m\right)}{R_1g_m + s^6\left(C_1C_2C_LL_1L_2L_LR_1g_m + C_1C_2L_LL_LR_1g_m + C_1C_2L_1L_L + C_1C_LL_1L_LR_1g_m + C_1C_LL_LL_LR_1g_m + C_1C_LL_LL_RR_1g_m + C_1C_LL_LL_RR_1g_m + C_1C_LL_LR_1g_m + C_1C_LR_1g_m +
10.795 INVALID-ORDER-795 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)
H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_LL_1L_2R_1R_Lg_m + C_1C_2L_LL_R_1\right) + s^4\left(C_1C_2C_LL_1R_1R_L + C_1C_2L_1L_2R_1g_m + C_1C_LL_LR_1g_m + C_2C_LL_2R_1g_m + C_1C_LL_1R_1g_m + C_2C_LL_2R_1R_Lg_m + C_2C_LL_2R_1R_Lg_
10.796 INVALID-ORDER-796 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)
                                                 \overline{R_{1}R_{L}g_{m}+R_{L}+s^{6}\left(C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{L}g_{m}+C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{L}+C_{1}C_{2}L_{L}L_{L}R_{1}R_{L}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}g_{m}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}g_{m}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{1}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{1}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{1}L_{1}R_{1}+C_{1}C_{2}L_{1}L_{1}L_{1}R_{1}
10.797 INVALID-ORDER-797 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)
H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1R_Lg_ms^6 + R_1R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_1R_L + C_1C_2L_1L_2R_1R_Lg_m + C_1C_2L_1L_LR_1 + C_1C_LL_1L_LR_1R_Lg_m + C_2C_LL_2L_LR_1R_Lg_m + S^4\left(C_1C_2L_1L_2R_1R_Lg_m + C_1C_2L_1L_LR_1 + C_1C_LL_1L_RR_1R_Lg_m + C_2C_LL_2L_RR_1R_Lg_m + C_2C_LL_2R_1R_Lg_m + C_2C_LL_2R_1R_Lg_m + C_2C_LL_2R_1R_Lg_m + C_2C_LL_2
10.798 INVALID-ORDER-798 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)
H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1R_Lg_ms^s + C_1C_2C_LL_1L_LR_1R_Ls^s}{R_1g_m + s^6\left(C_1C_2C_LL_1L_2L_LR_1g_m + C_1C_2C_LL_1L_2R_L + C_1C_2C_LL_1L_LR_1 + C_1C_2C_LL_1L_1R_1R_L + C_1C_2C_LL_1R_1R_L + 
10.799 INVALID-ORDER-799 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L\right)
H(s) = \frac{C_1C_2L_1L_2R_1R_Lg_m + s^3\left(C_1C_2L_1R_1R_2R_Lg_m + C_1C_2L_1R_1R_Lg_m + C_1C_2L_1R_1R_Lg_m + C_2L_2R_1R_Lg_m\right) + s\left(C_2R_1R_2R_Lg_m + C_2R_1R_Lg_m + C_2R_1R_Lg_m\right) + s\left(C_2R_1R_2R_Lg_m + C_2R_1R_Lg_m\right) + s\left(C_2R_1R_Lg_m + C_2R_1R_Lg_m\right) + s\left(C_2R_1R_Lg_m + C_2R_1R_Lg_m\right) + s\left(C
10.800 INVALID-ORDER-800 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)
                                                \frac{C_{1}C_{2}L_{1}L_{2}R_{1}g_{m}s^{4}+R_{1}g_{m}+s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}g_{m}+C_{1}C_{2}L_{1}R_{1}\right)+s^{2}\left(C_{1}L_{1}R_{1}g_{m}+C_{2}L_{2}R_{1}g_{m}\right)+s\left(C_{2}R_{1}R_{2}g_{m}+C_{2}R_{1}\right)}{s^{5}\left(C_{1}C_{2}C_{L}L_{1}L_{2}R_{1}g_{m}+C_{1}C_{2}C_{L}L_{1}R_{1}+C_{1}C_{2}C_{L}L_{1}R_{1}+C_{1}C_{2}C_{L}L_{1}R_{2}+C_{1}C_{2}C_{L}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}+C_{1}C_{2}L_{1}R_{
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 $H(s) = \frac{C_1C_2L_1L_2R_1R_Lg_m + s^3\left(C_1C_2L_LL_2R_1R_Lg_m + C_1C_2L_LL_2R_1R_Lg_m + s^3\left(C_1C_2L_LR_1R_Lg_m + s^3\left(C_1C_2L_LR_1R_Lg_m + C_1C_2L_LR_1R_Lg_m + C_1C_2L_LR_1R_Lg_m + s^3\left(C_1C_2L_LR_1R_Lg_m + C_1C_2L_LR_1R_Lg_m + C_1C_2L_LR_1R_1R_Lg_m + C_1C_2L_LR_1R_1R_1g_m + C_1C_2L_LR_1R_1R_1g_m + C_1C_2L_LR_1R_1g_m + C_1C_2L_LR_1g_m + C_1C_2L_LR_1g_$

10.801 INVALID-ORDER-801 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$

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10.802 INVALID-ORDER-802 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)
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 $H(s) = \frac{C_1C_2C_LL_1L_2R_1R_Lg_ms^5 + R_1g_m + s^4\left(C_1C_2C_LL_1R_1R_2R_Lg_m + C_1C_2L_LR_1R_Lg_m + S^4\left(C_1C_2C_LL_1R_1R_Lg_m + C_1C_2L_LR_1R_Lg_m + C_1C_2L_LR_1R_Lg_m + S^4\left(C_1C_2L_LR_1R_Lg_m + C_2C_LR_1R_Lg_m + C_2C_LR_1R$

10.803 INVALID-ORDER-803
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_LL_1L_LR_1R_2g_m + C_1C_2L_LL_RR_1g_m + C_1C_LL_LL_RR_1g_m + C_2C_LL_LR_1g_m\right) + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_2C_LL_LR_1R_2g_m + C_2C_LL_LR_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1C_2L_LR_1R_2g_m + C_1C_2L_LR_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1C_2L_LR_1R_2g_m + C_1C_2L_LR_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1C_2L_1R_1\right) + s^2\left(C_1L_1R_1R_1R_2g_m + C_1C_2L_1R_1\right) + s^2\left(C_1L_1R_1R_1R_2g_m + C_1C_2L_1R_1\right) + s^2\left(C_1L_1R_1R$

10.804 INVALID-ORDER-804
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$$

 $H(s) = \frac{C_1C_2L_1L_2L_LR_1g_ms^5 + L_LR_1g_ms + s^4\left(C_1C_2L_1L_LR_1g_ms + s^4\left(C_1C_2L_LL_LR_1g_m + c_1C_2L_LL_LR_1g_m + c_1C_2L_LR_1g_m + c_1C_2LR_1g_m + c_1C_2LR_1g_m + c_1C_2LR_1g_m + c_1C_2L$

10.805 INVALID-ORDER-805
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_2C_LL_1L_2L_LR_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_LL_1L_2R_1R_Lg_m + C_1C_2C_LL_1L_LR_1g_m + C_1C_2C_LL_1L_LR_1g_m + C_1C_2C_LL_1L_LR_1g_m + C_1C_2C_LL_1L_RR_1g_m + C_1C_2C_LL_1R_1R_2g_m + C_1C_2C_LL_1R_1 + C_$

10.806 INVALID-ORDER-806
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$$

 $H(s) = \frac{1}{R_1 R_L g_m + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_L + C_1 C_2 C_L L_1 L_L R_1 R_L + C_1 C_2 C_L L$

10.807 INVALID-ORDER-807
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$$

 $H(s) = \frac{C_1C_2C_LL_1L_2L_RR_1R_Lg_m + s^5\left(C_1C_2C_LL_1L_LR_1R_2R_Lg_m + C_1C_2C_LL_1L_LR_1R_L + C_1C_2L_1L_LR_1g_m\right) + s^4\left(C_1C_2L_1L_2R_1R_Lg_m + C_1C_2L_1L_LR_1R_2g_m + C_1C_2L_LL_RR_1g_m\right) + s^4\left(C_1C_2L_1L_2R_1R_Lg_m + C_1C_2L_1L_LR_1R_2g_m + C_1C_2L_LL_RR_1R_2g_m + C_1C_2L_LL_RR_1R_2g_m + C_1C_2L_LL_RR_1R_2 + C_1$

10.808 INVALID-ORDER-808
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \infty, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$$

 $H(s) = \frac{1}{R_1 g_m + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 g_m + C_1 C_2 C_L L_1 L_2 L_L \right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_L g_m + C_1 C_2 C_L L_1 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_L R_1 + C_1 C_2 C_L L_1 L_1 R_1 + C_1 C_2 C_L L_1 L_1 R_1 + C_1 C_2 C_L L_1 R_1 +$

10.809 INVALID-ORDER-809
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L\right)$$

 $H(s) = \frac{C_1L_1L_2R_1R_Lg_ms^3 + L_2R_1R_Lg_ms + R_1R_2R_Lg_m + R_1R_L + s^4\left(C_1C_2L_1L_2R_1R_2R_Lg_m + C_1L_1R_1R_L + C_2L_2R_1R_2R_Lg_m + C_1L_1R_1R_L + C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1 + C_1L_1R_2R_1g_m + C_1L_1R_1 + C_1L_1R_2R_1g_m + C_1L_1R_1 + C_1L_1R_2R_1g_m + C_1L_1R_1 + C_1L$

10.810 INVALID-ORDER-810
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1L_1L_2R_1g_ms^3 + L_2R_1g_ms + R_1R_2g_m + C_1C_2L_1L_2R_1 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_2R_1R_2g_m + C_2L_2R_1\right)}{s^5\left(C_1C_2C_LL_1L_2R_1R_2g_m + C_1C_LL_1L_2R_1 + C_1C_LL_1R_1R_2g_m + C_1C_LL_1R_1 + C_1C_LL_1R$

10.811 INVALID-ORDER-811
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$$

 $H(s) = \frac{-1.2 + 0.2}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 L_1 L_2 R_1 R_2$

10.812 INVALID-ORDER-812
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_L L_1 R_1 R_2 g_m + C_1 C_L L_1 R_1 R_2 R_L g$

10.813 INVALID-ORDER-813
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{C_1C_LL_1L_2L_LR_1g_ms^5 + L_2R_1g_ms + R_1R_2g_m + R_1 + s^6\left(C_1C_2C_LL_1L_2L_LR_1g_m + C_1C_2L_LL_2R_1g_m + C_1C_2L_LL_2R_1 + C_1C_LL_1L_2R_1g_m + C_1C_2L_LL_2R_1 + C_1C_LL_1L_2R_1g_m + C_1C_LL_1R_1g_m + C_1C_LL_1R_1g_m$

10.814 INVALID-ORDER-814
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$$

 $\frac{c_1}{R_1 R_2 g_m + R_1 + R_2 + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 + C_1 C_2 L_L L_2 L_L R_1 R_2 + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_1 + C_1 C_2 L_1 L_2 L_L R_1 R_2 + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_1 R_2 R_1 + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_1 R_$

10.815 INVALID-ORDER-815
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L R_1\right) + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C$

10.816 INVALID-ORDER-816
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_LR_Ls^2+L_Ls+R_L}\right)$$

 $H(s) = \frac{1}{R_1 R_2 R_L g_m + R_1 R_L + R_2 R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_L R_1 + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2 C_L L_2 L_L R_1 R_2 R_L \right) + s^5 \left(C_1 C_2$

10.817 INVALID-ORDER-817
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$$

 $H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 L_L L_2 L_R R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 + C_1 C_2 C_L L_1 L_2 L_1 R_1 R_2 + C_1 C_2 C_L L_1 L_2 L_1 R_1 R_2 + C_1 C_2 C_L L_1 L_2 L_1 R_1 R_2 + C_1 C_2 C_L L_1 L$

10.818 INVALID-ORDER-818
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \infty, \infty, \infty, \frac{R_L\left(C_LL_Ls^2+1\right)}{C_LL_Ls^2+C_LR_Ls+1}\right)$$

 $\overline{R_{1}R_{2}g_{m}+R_{1}+R_{2}+R_{L}+s^{6}\left(C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}R_{2}g_{m}+C_{1}C_{2}C_{L}L_{1}L_{2}L_{L}R_{1}+C_{1}C_{2}C$

10.819 INVALID-ORDER-819
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2L_1R_1R_2R_Ls^3 + C_2R_1R_2R_Ls + R_1R_2R_Lg_m + R_1R_L + s^4\left(C_1C_2L_1L_2R_1R_2R_Lg_m + C_1C_2L_1L_2R_1R_2\right) + s^2\left(C_1L_1R_1R_2R_Lg_m + C_1L_1R_1R_L + C_2L_2R_1R_2R_Lg_m + C_2L_2R_1R_L\right)}{R_1R_2g_m + R_1 + R_2 + R_L + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 + C_1C_2L_1R_2R_L + C_1C_2L_2R_1R_2 + C_1C_2L_1R_2R_L + C_1C_2L_2R_1R_2 + C_1C_2L_1R_2R_L + C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_2$

10.820 INVALID-ORDER-820 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_1C_2L_1R_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_2R_1R_2g_m + C_2L_2R_1\right)}{s^5\left(C_1C_2C_LL_1L_2R_1 + C_1C_2L_LL_2R_1 + C_1C_2L_LL_2R_1 + C_1C_2L_LL_2R_1 + C_1C_2L_LR_1 + C_1C_LL_1R_1 + C_2C_LL_2R_1 + C_1C_LL_1R_1 + C_2C_LL_2R_1 + C_2$

10.821 INVALID-ORDER-821 $Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L}{C_LR_Ls+1}\right)$

 $H(s) = \frac{C_1C_2L_1R_1R_2R_Ls^3 + C_1C_2L_1L_2R_1R_2R_Ls^3 + C_1C_2L_1L_2R_1R$

10.822 INVALID-ORDER-822 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, R_L + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2$

10.823 INVALID-ORDER-823 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, L_Ls + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{C_1C_2C_LL_1L_2R_1R_2s^5 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^6\left(C_1C_2C_LL_1L_2L_LR_1\right) + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 + C_1C_LL_1L_2R_1 + C_1C_LL_1L_1R_1 + C_1C_LL_1R_1 + C_1C_L$

10.824 INVALID-ORDER-824 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1}\right)$

 $H(s) = \frac{C_1C_2L_1L_LR_1R_2s^4 + C_2C_2L_1L_2L_RR_1R_2s^4 + C_2C_2L_1L_2L_RR_1R_2s^4 + C_2C_2L_2L_2R_1R_2s^4 + C_2C_2L_2R_2R_2s^4 + C_2C_2L_2R_2R_2s^2 + C_2C_2L_2R_2s^2 + C_2C_2L_2R_2s^2 + C_2C_2L_2R_2s^2 + C_2C_2L_2R_2s^2 + C_2C_2R_2R$

10.825 INVALID-ORDER-825 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \infty, L_Ls + R_L + \frac{1}{C_Ls}\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 R_1 R_2 + C_1 C_2 C_L L_1 L_2 R_1 R_2 + C_1 C_2 C_L L_1 L_2 R_1 R_2 + C_1 C_2 C_L L_1 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_1 R_2$

10.826 INVALID-ORDER-826 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \infty, \frac{L_LR_Ls}{C_LL_RL_s^2+L_Ls+R_L}\right)$

 $H(s) = \frac{1}{R_1 R_2 R_L g_m + R_1 R_L + R_2 R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_L + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_1 R_1 R_2 R_L + C_1 C_2 L_1 L_2 L_1 R_2 R_L + C_1 C_2 L_1 L_2 L_1 R_1 R_2 R_L + C_1$

10.827 INVALID-ORDER-827 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{L_Ls}{C_LL_Ls^2+1} + R_L\right)$

 $H(s) = \frac{R_1 R_2 R_L g_m + R_1 R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 R_L g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 \right)}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 + C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 + C_1 C_2 C_L L_2 L_2 R_1 R_2 + C_1 C_2 C$

 $R_1(C_1L_1s^2+1)$ $R_2(C_2L_2s^2+1)$ $R_3(C_1L_1s^2+1)$

10.828 INVALID-ORDER-828 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \infty, \infty, \infty, \frac{R_L(C_LL_Ls^2+1)}{C_LL_Ls^2+C_LR_Ls+1}\right)$

 $H(s) = \frac{1}{R_1 R_2 g_m + R_1 + R_2 + R_L + s^6 \left(C_1 C_2 C_L L_1 L_2 L_L R_1 R_2 g_m + C_1 C_2 C_L L_1 L_2 L_L R_1 + C_1 C_2 C_L L_1 L_2 L_L R_2 + C_1 C_2 C_L L_1 L_2 L_L R_2 + C_1 C_2 C_L L_1 L_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R_L + C_1 C_2 C_L L_1 R_2 R_1 R_2 R$

11 PolynomialError