Filter Summary Report: TIA,simple,Z1,Z2,Z3

Generated by MacAnalog-Symbolix

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$10.14 \text{INVALID-ORDER-} 14 \ Z(s) = \left(R_1, \ \frac{R_2}{C_2 R_2 s + 1}, \ R_3, \ \infty, \ \infty, \ \infty\right) $
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10.26INVALID-ORDER-26 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
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10.28INVALID-ORDER-28 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$
$10.29 \text{INVALID-ORDER-} 29 \ Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty \right) \ \dots $
$10.30 \text{INVALID-ORDER-30 } Z(s) = \left(R_1, \ L_2 s + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
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$10.33 \text{INVALID-ORDER-33 } Z(s) = \left(R_1, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
10.34INVALID-ORDER-34 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$
$10.35 \text{INVALID-ORDER-35 } Z(s) = \left(R_1, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
10.36INVALID-ORDER-36 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$
10.37INVALID-ORDER-37 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)^{\prime}$
10.38INVALID-ORDER-38 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$
$10.39 \text{INVALID-ORDER-39 } Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
10.40INVALID-ORDER-40 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$
10.41INVALID-ORDER-41 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$
10.42INVALID-ORDER-42 $Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \right)$
10.43INVALID-ORDER-43 $Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty \right)'$
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10.47INVALID-ORDER-47 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \frac{R_3(C_3L_3s^2 + 1)}{C_3L_3s^2 + C_3R_3s + 1}, \infty, \infty, \infty\right)$ 23
$10.48 \text{INVALID-ORDER-} 48 \ Z(s) = \left(R_1, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right) \dots $
$10.49 \text{INVALID-ORDER-49 } Z(s) = \left(R_1, \frac{L_2 s}{C_3 L_2 s^2 + 1} + R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right) $
$10.50 \text{INVALID-ORDER-50 } Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right) $
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$10.52 \text{INVALID-ORDER-52 } Z(s) = \left(R_1, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)' $
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$10.54 \text{INVALID-ORDER-} 54 \ Z(s) = \left(R_1, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty \right) $
10.55INVALID-ORDER-55 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$
$10.56 \text{INVALID-ORDER-} 56 \ Z(s) = \left(R_1, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty \right) $
10.57INVALID-ORDER-57 $Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{1}{C_3s}, \infty, \infty, \infty\right)$
$10.58INVALID-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}, \ \frac{R_3}{C_3R_3s+1}, \ \infty, \ \infty, \ \infty\right) $
10.59INVALID-ORDER-59 $Z(s) = \left(R_1, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$
10.60INVALID-ORDER-60 $Z(s) = \left(R_1, \frac{R_2\left(C_2L_2s^2 + 1 \right)}{C_2L_2s^2 + C_2R_2s + 1}, \ L_3s + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty \right)$
10.61INVALID-ORDER-61 $Z(s) = \left(R_1, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$
$10.62 \text{INVALID-ORDER-} 62 \ 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}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \right) $
$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}, \ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \ \infty, \ \infty, \ \infty\right) $
$10.64 \text{INVALID-ORDER-} 64 \ Z(s) = \left(R_1, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ \infty, \ \infty, \ \infty \right) $
$10.65 \text{INVALID-ORDER-} 65 \ Z(s) = \left(R_1, \ \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \ \infty, \ \infty, \ \infty\right) $
10.66INVALID-ORDER-66 $Z(s) = (L_1 s, R_2, R_3, \infty, \infty, \infty)$
$10.67 \text{INVALID-ORDER-} 67 \ Z(s) = \left(L_1 s, \ R_2, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $ $10.68 \text{INVALID-ORDER-} 68 \ Z(s) = \left(L_1 s, \ R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) $ 25
$10.69INVALID-ORDER-69 \ Z(s) = \left(L_1 s, \ R_2, \ \frac{1}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) $ $10.69INVALID-ORDER-69 \ Z(s) = \left(L_1 s, \ R_2, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $ 25
10.09INVALID-ORDER-09 $Z(s) = \begin{pmatrix} L_1 s, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty \end{pmatrix}$
$10.71 \text{INVALID-ORDER-71 } Z(s) = \left(L_1 s, \ R_2, \ \frac{L_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right) $ $10.71 \text{INVALID-ORDER-71 } Z(s) = \left(L_1 s, \ R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right) $ $10.71 \text{INVALID-ORDER-71 } Z(s) = \left(L_1 s, \ R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right) $
$10.72 \text{INVALID-ORDER-72 } Z(s) = \left(L_1 s, \ R_2, \ \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $ 25 25
10.73INVALID-ORDER-73 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s+1}, \infty, \infty, \infty\right)$
$10.74 \text{INVALID-ORDER-} 74 \ Z(s) = \left(L_1 s, \ \frac{1}{\overline{C_2} s}, \ L_3 s + \frac{1}{\overline{C_3} s}, \ \infty, \ \infty, \ \infty\right) $ $10.75 \text{INVALID-ORDER-} 75 \ Z(s) = \left(L_1 s, \ \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) $
$10.76 \text{INVALID-ORDER-} 76 \ Z(s) = \left(L_1 s, \ \frac{1}{C_2 s}, \ \frac{1}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) $ $10.76 \text{INVALID-ORDER-} 76 \ Z(s) = \left(L_1 s, \ \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $ 26
$10.77 \text{INVALID-ORDER-77 } Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right) $
$10.78INVALID-ORDER-78 \ Z(s) = \left(L_1 s, \ \frac{L_3 s}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 k^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right) $
$10.79 \text{INVALID-ORDER-79 } Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right) $
$10.80 \text{INVALID-ORDER-80 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right) $
$10.81 \text{INVALID-ORDER-81 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right) $
$10.82 \text{INVALID-ORDER-82 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right) $
$10.83 \text{INVALID-ORDER-83 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right) $

$10.84 \text{INVALID-ORDER-84 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right) $
10.85INVALID-ORDER-85 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
$10.86 \text{INVALID-ORDER-86 } Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right) $
10.87INVALID-ORDER-87 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$
10.88INVALID-ORDER-88 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$
$10.89 \text{INVALID-ORDER-89 } Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $
$10.90 \text{INVALID-ORDER-90 } Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
10.91INVALID-ORDER-91 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)$
10.92INVALID-ORDER-92 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$
10.93INVALID-ORDER-93 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$
10.94INVALID-ORDER-94 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$ 28
$10.95 \text{INVALID-ORDER-95} \ Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $
$10.96 \text{INVALID-ORDER-} 96 \ Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right) $
$10.97 \text{INVALID-ORDER-97 } Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
$10.98INVALID-ORDER-98 \ Z(s) = \left(L_1s, \ L_2s + \frac{1}{C_2s}, \ \frac{R_3}{C_3R_3s+1}, \ \infty, \ \infty, \ \infty\right) $
$10.99INVALID-ORDER-99 \ Z(s) = \left(L_1s, \ L_2s + \frac{1}{C_2s}, \ R_3 + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right) $
10.10@NVALID-ORDER-100 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$
10.10INVALID-ORDER-101 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)$
10.10 2 NVALID-ORDER-102 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$
10.10 E NVALID-ORDER-103 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$
10.10\(\text{4NVALID-ORDER-104}\(Z(s) = \left(L_1 s, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty, \infty \right) \right(\text{.} \tag{29} \tag{20} \
$10.10 \text{INVALID-ORDER-} 105 \ Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty \right) $
10.10 6 NVALID-ORDER-106 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right)$
$10.10 \text{INVALID-ORDER-} 107 \ Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
$10.10 \text{\&NVALID-ORDER-} 108 \ Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $
10.10 2 NVALID-ORDER-109 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$
10.11 © NVALID-ORDER-110 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$
10.11INVALID-ORDER-111 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)$
10.11 2 NVALID-ORDER-112 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$
10.11\(\text{2NVALID-ORDER-113} \(Z(s) = \) \left(L_1 s, \(L_2 s + R_2 + \frac{1}{C_2 s}, \) \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty, \ \infty \)
10.114NVALID-ORDER-114 $Z(s) = \left(L_1 s, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$
10.11 INVALID-ORDER-115 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$
10.11 C NVALID-ORDER-116 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3, \infty, \infty, \infty\right)$
10.11TNVALID-ORDER-117 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
10.11 NVALID-ORDER-118 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$
10.11 2 NVALID-ORDER-119 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
10.12 0 NVALID-ORDER-120 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
10.12INVALID-ORDER-121 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)'$
10.12 2 NVALID-ORDER-122 $Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

10.12\$NVALID-ORDER-123 $Z(s) =$	$=\left(L_{1}s,\; rac{L_{2}s}{C_{2}L_{2}s^{2}+1}+R_{2},\; rac{L_{3}R_{3}s}{C_{3}L_{3}R_{3}s^{2}+L_{3}s+R_{3}},\; \infty,\; \infty,\; \infty ight)$
10.124NVALID-ORDER-124 $Z(s)=$	$=\left(L_{1}s,\; rac{L_{2}s}{C_{2}L_{2}s^{2}+1}+R_{2},\; rac{L_{3}s}{C_{3}L_{3}s^{2}+1}+R_{3},\; \infty,\; \infty,\; \infty ight)$
10.12 Б NVALID-ORDER-125 $Z(s)=$	$= \left(L_1 s, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \ \dots $
10.126NVALID-ORDER-126 $Z(s) =$	$=\left(L_{1}s,rac{R_{2}\left(C_{2}L_{2}s^{2}+1 ight)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1},R_{3},\infty,\infty,\infty ight)$
10.12TNVALID-ORDER-127 $Z(s) =$	$=\left(L_{1}s,\;rac{R_{2}\left(C_{2}L_{2}s^{2}+1 ight)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1},\;rac{1}{C_{3}s},\;\infty,\;\infty,\;\infty ight)$
10.12&NVALID-ORDER-128 $Z(s) =$	$=\left(L_{1}s,\;rac{R_{2}\left(C_{2}L_{2}s^{2}+1 ight)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1},\;rac{R_{3}}{C_{3}R_{3}s+1},\;\infty,\;\infty,\;\infty ight)$
10.12 9 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}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) \ \dots $
10.13 0 NVALID-ORDER-130 $Z(s) =$	$= \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}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) \dots $
10.13INVALID-ORDER-131 $Z(s)=$	$\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}, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, \infty, \infty, \infty\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $
10.132NVALID-ORDER-132 $Z(s) =$	$\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}, L_{3}s+R_{3}+\frac{1}{C_{3}s}, \infty, \infty, \infty\right) \dots \dots \dots \dots \dots \dots \dots \dots \dots $
10.13 k NVALID-ORDER-133 $Z(s) =$	$\left(L_{1}s, \frac{R_{2}\left(C_{2}L_{2}s^{2}+1\right)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1}, \frac{L_{3}R_{3}s}{C_{3}L_{3}R_{3}s^{2}+L_{3}s+R_{3}}, \infty, \infty, \infty\right)\right) \qquad (3.2)$
10.13#NVALID-ORDER-134 $Z(s) =$	$= \left(L_1 s, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)'. \dots \dots$
10.13 INVALID-ORDER-135 $Z(s) =$	$= \left(L_1 s, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$
10.13 6 NVALID-ORDER-136 $Z(s) =$	$\left(\frac{1}{C_1s},\ R_2,\ R_3,\ \infty,\ \infty,\ \infty\right)$
10.13 T NVALID-ORDER-137 $Z(s) =$	$\left(\frac{1}{C_1s},\ R_2,\ \frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right)$
10.13&NVALID-ORDER-138 $Z(s) =$	$\left(\frac{1}{C_1s},\ R_2,\ R_3+\frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right)$
10.13 9 NVALID-ORDER-139 $Z(s) =$	$\left(\frac{1}{C_1s},\ R_2,\ L_3s+\frac{1}{C_3s},\ \infty,\ \infty,\ \stackrel{\checkmark}{\infty}\right)$
10.14 0 NVALID-ORDER-140 $Z(s) =$	$\left(\frac{1}{C_1s},\ R_2,\ \frac{L_3s}{C_3L_3s^2+1},\ \infty,\ \infty,\ \infty\right)'$
10.14INVALID-ORDER-141 $Z(s) =$	$\left(\frac{1}{C_1s},\ R_2,\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right)$
10.142NVALID-ORDER-142 $Z(s) =$	$\left(\frac{1}{C_{1s}},\ R_{2},\ \frac{L_{3}R_{3}s}{C_{3}L_{3}R_{3}s^{2}+L_{3}s+R_{3}},\ \infty,\ \infty,\ \infty\right)$
10.14NVALID-ORDER- $143 Z(s) =$	$\left(\frac{1}{G_{-}}, R_2, \frac{L_3s}{G_{-}R_{-}^2+1} + R_3, \infty, \infty, \infty\right)$
10.14 4 NVALID-ORDER-144 $Z(s)=$	$\left(\frac{1}{C_{1}s},\ R_{2},\ \frac{R_{3}\left(C_{3}L_{3}s^{2}+1\right)}{C_{3}L_{3}s^{2}+C_{3}R_{3}s+1},\ \infty,\ \infty,\ \infty\right)$
10.145NVALID-ORDER-145 $Z(s) =$	$\left(\frac{1}{C_1s}, \frac{1}{C_2s}, \frac{1}{C_3s}, \infty, \infty, \infty\right) \qquad \qquad$
$10.14 \text{\texttt{6}} \text{NVALID-ORDER-146} \ Z(s) =$	$\left(\frac{1}{C_1s}, \frac{1}{C_2s}, R_3 + \frac{1}{C_2s}, \infty, \infty, \infty\right)$
$10.14 {\tt T} {\tt NVALID-ORDER-147} \ Z(s) =$	$\left(\frac{1}{C_1s}, \frac{1}{C_2s}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right) \qquad \qquad$
10.14&NVALID-ORDER-148 $Z(s) =$	$\left(\frac{1}{C_1s}, \frac{1}{C_2s}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$
10.14 9 NVALID-ORDER-149 $Z(s) =$	$\left(\frac{1}{C_1s}, \frac{1}{C_2s}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$
10.15 0 NVALID-ORDER-150 $Z(s) =$	$= \left(\frac{1}{C_{1s}}, \frac{1}{C_{2s}}, \frac{L_{3}R_{3s}}{C_{3}L_{3}R_{3s}^{2} + L_{3s} + R_{3}}, \infty, \infty, \infty\right) \qquad . \qquad $
10.15INVALID-ORDER-151 $Z(s) =$	$\left(\frac{1}{C_1s}, \frac{1}{C_2s}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right) \qquad \qquad$
10.152NVALID-ORDER-152 $Z(s) =$	$\left(\frac{1}{C_1s}, \frac{1}{C_2s}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$
10.15 & NVALID-ORDER-153 $Z(s) =$	$=\left(\frac{1}{C_1s},\frac{R_2}{C_2R_2s+1},\frac{1}{C_3s},\infty,\infty,\infty\right)$
10.15 4 NVALID-ORDER-154 $Z(s)=$	$\left(\frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right) \qquad \dots \qquad $
10.15 Invalid-order-155 $Z(s) =$	$\left(\frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, L_3s + \frac{1}{C_2s}, \infty, \infty, \infty\right)$
10.15 6NVALID-ORDER-156 $Z(s) =$	$\left(\frac{1}{G}, \frac{R_2}{GR_{2-1}}, \frac{L_3s}{GR_{2-1}}, \infty, \infty, \infty\right)$
10.15 T NVALID-ORDER-157 $Z(s) =$	$\left(\frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, L_3s+R_3+\frac{1}{C_3s}, \infty, \infty, \infty\right) \dots \dots$
10.15&NVALID-ORDER-158 $Z(s) =$	$ \frac{\left(\frac{C_{1}s^{3}}{C_{1}s}, \frac{R_{2}}{C_{2}R_{2}s+1}, L_{3}s+R_{3}+\frac{1}{C_{3}s}, \infty, \infty, \infty\right)}{\left(\frac{1}{C_{1}s}, \frac{R_{2}}{C_{2}R_{2}s+1}, \frac{L_{3}R_{3}s}{C_{3}L_{3}R_{3}s^{2}+L_{3}s+R_{3}}, \infty, \infty, \infty\right)} \dots \dots$

10.159NVALID-ORDER-159 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$	35
$10.16 \text{ @NVALID-ORDER-160 } Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right) $	35
$10.16 \text{INVALID-ORDER-} 161 \ Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $	35
10.162NVALID-ORDER-162 $Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$	35
10.162NVALID-ORDER-163 $Z(s) = \left(\frac{1}{C_{1s}}, \ R_2 + \frac{1}{C_{2s}}, \ R_3 + \frac{1}{C_{3s}}, \ \infty, \ \infty, \ \infty\right)$	35
10.16 INVALID-ORDER-164 $Z(s) = \left(\frac{1}{C_{1}s}, R_2 + \frac{1}{C_{2}s}, L_3s + \frac{1}{C_{3}s}, \infty, \infty, \infty\right)$	36
10.16 INVALID-ORDER-165 $Z(s) = \left(\frac{1}{C_{1s}}, R_2 + \frac{1}{C_{2s}}, \frac{L_{3s}}{C_3L_{3s}^2 + 1}, \infty, \infty, \infty\right)$	36
10.16 CNVALID-ORDER-166 $Z(s) = \left(\frac{1}{C_{1s}}, R_2 + \frac{1}{C_{2s}}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	36
10.16 T NVALID-ORDER-167 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$	36
10.16 NVALID-ORDER-168 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$	36
$10.16 \text{ @NVALID-ORDER-169 } Z(s) = \left(\frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \dots $	36
$10.17 \text{ INVALID-ORDER-} 170 \ Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right) \dots $	36
$10.17 \text{INVALID-ORDER-171 } Z(s) = \left(\frac{1}{C_{1s}}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $	36
10.172NVALID-ORDER-172 $Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$	36
10.17 2 NVALID-ORDER-173 $Z(s) = \left(\frac{1}{C_{1s}}, L_2s + \frac{1}{C_{2s}}, R_3 + \frac{1}{C_{3s}}, \infty, \infty, \infty\right)$	37
10.17\Pinvalid NVALID-ORDER-174 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	37
10.175NVALID-ORDER-175 $Z(s) = \left(\frac{1}{C_{1s}}, \ L_2s + \frac{1}{C_2s}, \ \frac{L_3s}{C_3L_3s^2+1}, \ \infty, \ \infty, \ \infty\right)$	37
10.176NVALID-ORDER-176 $Z(s) = \left(\frac{1}{C_{1s}}, \ L_2s + \frac{1}{C_2s}, \ L_3s + R_3 + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right)$	37
10.17\(\text{TNVALID-ORDER-177}\(Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \inftige \infty, \infty, \infty\right) \tau \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty} \tag{\infty}	37
10.178NVALID-ORDER-178 $Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$	37
$10.179 \text{NVALID-ORDER-179 } Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $	37
10.18 Q NVALID-ORDER-180 $Z(s) = \left(\frac{1}{C_{1s}}, \ L_2s + R_2 + \frac{1}{C_2s}, \ R_3, \ \infty, \ \infty\right)$	37
$10.18 \text{INVALID-ORDER-181 } Z(s) = \left(\frac{1}{C_{1s}}, \ L_2s + R_2 + \frac{1}{C_{2s}}, \ \frac{1}{C_{3s}}, \ \infty, \ \infty, \ \infty\right) $	37
10.182NVALID-ORDER-182 $Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$	38
10.18 INVALID-ORDER-183 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	38
10.18 INVALID-ORDER-184 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	38
10.18 INVALID-ORDER-185 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$	38
10.186NVALID-ORDER-186 $Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$	38
$10.18 \text{TNVALID-ORDER-} 187 \ Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right) \ \dots $	
10.18\(\text{NVALID-ORDER-188 } Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \inft(\infty, \infty, \infty, \infty \right) \right) \frac{1}{C_1 s} \tag{2.5}	
10.189NVALID-ORDER-189 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$	
10.19 0 NVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3, \infty, \infty, \infty\right)$	38
10.19INVALID-ORDER-191 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	
$10.192\text{NVALID-ORDER-}192\ Z(s) = \left(\frac{1}{C_1 s},\ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2,\ \frac{R_3}{C_3 R_3 s + 1},\ \infty,\ \infty,\ \infty\right)$	39
10.19 E NVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	39
$10.194\text{NVALID-ORDER-}194 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $ $10.194\text{NVALID-ORDER-}195 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) $ $10.194\text{NVALID-ORDER-}195 \ Z(s) = \left(\frac{1}{C_1 s}, \ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) $	39
10.19 INVALID-ORDER-195 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$	39
10.196NVALID-ORDER-196 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	39
$10.19\text{INVALID-ORDER-}197\ Z(s) = \left(\frac{1}{C_1 s},\ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2,\ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3},\ \infty,\ \infty,\ \infty\right) \qquad . $	39

10.19 NVALID-ORDER-198 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$	39
$ (C_{1}s, C_{2}L_{2}s^{2}+1, C_{2}L_{2}s^{2}+1, C_{3}L_{3}s^{2}+1, C$	30
	99
10.20 0 NVALID-ORDER-200 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$	40
$10.20 \text{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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right) $	40
$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}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \dots $	40
10.20 ENVALID-ORDER-203 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	40
$10.204\text{NVALID-ORDER-}204\ Z(s) = \left(\frac{1}{C_1 s},\ \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1},\ L_3 s + \frac{1}{C_3 s},\ \infty,\ \infty,\ \infty\right)$	40
$10.20 \text{ INVALID-ORDER-205 } Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty \right)$	40
$10.206 \text{NVALID-ORDER-} 206 \ 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}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \right) $	40
$10.20\text{INVALID-ORDER-}207\ Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$	40
$10.20 \&NVALID-ORDER-208\ Z(s) = \left(\frac{1}{C_1 s},\ \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1},\ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3,\ \infty,\ \infty,\ \infty\right)'$	40
$10.20 \text{ @NVALID-ORDER-209 } 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}, \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \right. \infty, \left. \infty, \right. \infty \right) $	41
10.21 INVALID-ORDER-210 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3, \infty, \infty, \infty\right)$	41
10.21INVALID-ORDER-211 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)$	41
10.21 2NVALID-ORDER-212 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)'$	41
10.21 ENVALID-ORDER-213 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ R_2, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty\right)$	41
10.214NVALID-ORDER-214 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$	41
10.215NVALID-ORDER-215 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$	41
10.216NVALID-ORDER-216 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$	41
$10.21\text{INVALID-ORDER-}217\ Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \frac{1}{C_2s},\ \frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right)$	41
10.21\(\text{\text{NVALID-ORDER-218}}\(Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_2s}, \infty, \infty, \infty\right)	42
10.219NVALID-ORDER-219 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	42
10.220NVALID-ORDER-220 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)'$	42
$10.22\text{INVALID-ORDER-}221\ Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \frac{1}{C_2s},\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right)\ \dots$	42
$10.222 \text{NVALID-ORDER-} 222 \ Z(s) = \begin{pmatrix} \frac{R_1}{C_1 R_1 s + 1}, & \frac{L_3 R_3 s}{C_2 L_3 R_3 s^2 + L_3 s + R_3}, & \infty, & \infty, & \infty \end{pmatrix} $	42
$10.22 \text{BNVALID-ORDER-} 223 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	42
$10.22 \text{INVALID-ORDER-} 224 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $	
10.22 INVALID-ORDER-225 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)'$	42
$10.226 \text{NVALID-ORDER-} 226 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2}{C_2 R_2 s + 1}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty\right) \dots $	42
$10.22\text{TNVALID-ORDER-} 227 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)' \dots \dots$	43
$10.22 \text{NVALID-ORDER-} 228 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ \frac{R_2}{C_2 R_2 s + 1}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) \dots $	43
$10.22 \text{ (NVALID-ORDER-229 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right) $	43
10.230NVALID-ORDER-230 $Z(s) = \left(\frac{R_1}{CR_2}, \frac{R_2}{CR_2}, \frac{L_3s}{CR_2} + R_3, \infty, \infty, \infty\right)$	43
	43
$10.232\text{NVALID-ORDER-}232\ Z(s) = \left(\begin{array}{c} R_1 \\ \overline{C_{1}R_{1}+1}, \ R_2 + \frac{1}{C_{1}s}, \ \frac{1}{C_{1}s}, \ \infty, \ \infty, \end{array}\right)$	43
10.23\(\text{2NVALID-ORDER-233}\(Z(s) = \begin{pmatrix} \frac{R_1}{C_1R_1s+1}, & R_2 + \frac{1}{C_2s}, & \frac{R_3}{C_3R_3s+1}, & \infty, & \infty, & \infty, & \infty \end{pmatrix} \] \tag{10.23\(\text{2NVALID-ORDER-233}\(Z(s) = \begin{pmatrix} \frac{R_1}{C_1R_1s+1}, & R_2 + \frac{1}{C_2s}, & \frac{R_3}{C_3R_3s+1}, & \infty, & \infty, & \infty, & \infty \end{pmatrix} \]	43

10.23 INVALID-ORDER-234 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
10.23 INVALID-ORDER-235 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
10.236NVALID-ORDER-236 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$
10.23 INVALID-ORDER-237 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ 44
10.23 NVALID-ORDER-238 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$ 44
10.23 NVALID-ORDER-239 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$ 44
$10.24 \text{ @NVALID-ORDER-} 240 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $
$10.24 \text{INVALID-ORDER-} 241 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty\right) $
$10.24 \text{ 2NVALID-ORDER-} 242 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
$10.24 \text{ INVALID-ORDER-} 243 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $
10.24\(\text{INVALID-ORDER-244}\(Z(s) = \left(\frac{R_1}{C_1R_1s+1}\), \(L_2s + \frac{1}{C_2s}\), \(R_3 + \frac{1}{C_3s}\), \(\inftiget(\infty)\), \(\infty\). \(\text{24}\)
10.24\(\text{INVALID-ORDER-245}\(Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \infty, \infty, \infty, \infty \end{array} \right) \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qqquad \qqqq \qqqqq \qqqqqq
10.246NVALID-ORDER-246 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, L_2s + \frac{1}{C_2s}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$ 45
10.24TNVALID-ORDER-247 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ 45
10.24\(\text{NVALID-ORDER-248} \(Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \inft(\infty, \infty, \infty \) \\ \tag{5} \]
10.24 9 NVALID-ORDER-249 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$ 45
$10.25 \text{@NVALID-ORDER-} 250 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \ \dots $
$10.25 \text{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}, \ R_3, \ \infty, \ \infty, \ \infty\right) $
10.252NVALID-ORDER-252 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \infty, \infty, \infty\right)$
10.25 NVALID-ORDER-253 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ 45
10.25\(\text{4NVALID-ORDER-254}\(Z(s) = \left(\frac{R_1}{C_1R_1s+1}\), \(L_2s + R_2 + \frac{1}{C_2s}\), \(R_3 + \frac{1}{C_2s}\), \(\infty, \infty, \infty\).
$10.25 \text{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}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
$10.25 \text{ (ENVALID-ORDER-256 } Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) $
$ \begin{array}{l} \left(C_{1}R_{1}s+1\right) - 2 + C_{2}s + C_{3}L_{3}s^{2}+1 \\ 10.25\text{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}, \ L_{3}s+R_{3}+\frac{1}{C_{3}s}, \ \infty, \ \infty, \ \infty\right) \\ 10.25\text{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}, \ \frac{L_{3}R_{3}s}{C_{3}L_{3}R_{3}s^{2}+L_{3}s+R_{3}}, \ \infty, \ \infty, \ \infty\right) \\ 46 \end{array} $
$10.25 \$NVALID-ORDER-258 \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \ \infty, \ \infty, \ \infty\right) $
10.25 NVALID-ORDER-259 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$
$10.26 \text{@NVALID-ORDER-} 260 \ Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $
$10.26 \text{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, \ R_3, \ \infty, \ \infty, \ \infty\right) \ \dots $
$10.26 2 \text{NVALID-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, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
$10.26 \text{BNVALID-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, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $ $(21R_1 s + 1 + C_2 L_2 s^2 + 1 + C_3 s^2 + 1 + C_4 L_2 s^2 + 1 + C_4 L_2 s^2 + 1 + C_5 L_2 s^2 + 1 + C_$
$10.26 \text{ 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, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
$10.26 \text{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, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) \ \dots $
$10.26 \text{ (NVALID-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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right) $
$10.26 \text{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, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \right) \ \dots $
$10.26 \$NVALID-ORDER-268 \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \ \infty, \ \infty, \ \infty\right) $ $10.26 \$NVALID-ORDER-269 \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ \frac{L_2s}{C_2L_2s^2+1} + R_2, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ \infty, \ \infty, \ \infty\right) $ 47
10.26 NVALID-ORDER-269 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$ 47
$10.27 \text{@NVALID-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, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $
$10.27 \text{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}, \ R_3, \ \infty, \ \infty, \ \infty\right) $
$10.272\text{NVALID-ORDER-}272\ Z(s) = \left(\frac{R_1}{C_1R_1s+1},\ \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1},\ \frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
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$10.27 \text{\&NVALID-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}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \ . $
$10.27 \text{ 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}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
$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}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) \ \dots $
$10.27 \text{ (6NVALID-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}, \frac{L_3 s}{C_3 L_3 s^2 +1}, \infty, \infty, \infty\right) $
$10.27 \text{INVALID-ORDER-} 277 \ 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}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
$10.27 \$NVALID-ORDER-278 \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \ \infty, \ \infty, \ \infty\right) $
$10.27 \text{ (NVALID-ORDER-279 } 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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right) $
$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}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $
$10.28 \text{INVALID-ORDER-} 281 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ R_3, \ \infty, \ \infty, \ \infty\right) $
$10.28 2 \text{NVALID-ORDER-} 282 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $
10.28 INVALID-ORDER-283 $Z(s) = (R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty)$
10.28\textbf{INVALID-ORDER-284} $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
10.28 INVALID-ORDER-285 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$
10.28 INVALID-ORDER-286 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
10.28\(\frac{1}{2}\) NVALID-ORDER-287 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$
$10.28 \text{ ENVALID-ORDER-288 } Z(s) = \left(R_1 + \frac{1}{C_{18}}, R_2, \frac{L_{38}}{C_3 L_{38}^2 + 1} + R_3, \infty, \infty, \infty\right) $
$10.28 \text{@NVALID-ORDER-} 289 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty \right) $
$10.29 \text{ @NVALID-ORDER-290 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right) \qquad \qquad 50$
$10.29 \text{INVALID-ORDER-291 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right) $
$10.29 \text{ \tiny 2NVALID-ORDER-292 } Z(s) = \left(R_1 + \frac{1}{C_{18}}, \frac{1}{C_{28}}, R_3 + \frac{1}{C_{38}}, \infty, \infty, \infty\right) \qquad . \qquad $
$10.29 \text{\&NVALID-ORDER-} 293 \ Z(s) = \left(R_1 + \frac{1}{C_1 \cdot s}, \frac{1}{C_0 \cdot s}, L_3 s + \frac{1}{C_0 \cdot s}, \infty, \infty, \infty\right) \qquad . \qquad $
$10.29 \text{INVALID-ORDER-} 294 \ Z(s) = \left(R_1 + \frac{1}{C_{18}}, \frac{1}{C_{28}}, \frac{L_{38}}{C_{3}L_{3}s^2 + 1}, \infty, \infty, \infty\right) $
$10.29 \text{ INVALID-ORDER-} 295 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \right) $
$10.29 \text{ (NVALID-ORDER-296 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right) $
$10.29 \text{INVALID-ORDER-} 297 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{L_3 s}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty \right) \ \dots $
$10.29 \$NVALID-ORDER-298 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $
$10.29 \text{@NVALID-ORDER-} 209 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \frac{1}{C_3 s}, \ \infty, \ \infty\right) \qquad . \qquad $
$10.29 \text{ENVALID-ORDER-} 2(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ $10.30 \text{ENVALID-ORDER-} 300 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ 51
10.30INVALID-ORDER-301 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$
10.30 LNVALID-ORDER-302 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
10.30EN VALID-ORDER 302 $Z(s) = \begin{pmatrix} R_1 + \frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty \end{pmatrix}$
10.30 B NVALID-ORDER-303 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$
10.304NVALID-ORDER-304 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$.
$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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right) $
10.30 6 NVALID-ORDER-306 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$
$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}, \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty \right) $
$10.30 \$NVALID-ORDER-308 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $ $10.30 \$NVALID-ORDER-309 \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s+1}, \ \infty, \ \infty, \ \infty\right) $ 52
10.30 NVALID-ORDER-309 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ 52

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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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right) \dots
10.31INVALID-ORDER-311 Z(s) = \left(R_1 + \frac{1}{C_{18}}, R_2 + \frac{1}{C_{28}}, L_3 s + \frac{1}{C_{28}}, \infty, \infty, \infty\right)
10.312NVALID-ORDER-312 Z(s) = \left(R_1 + \frac{1}{C_{18}}, R_2 + \frac{1}{C_{28}}, \frac{L_{38}}{C_2L_{38}^2 + 1}, \infty, \infty, \infty\right) \dots
10.31\( \text{NVALID-ORDER-313} \( Z(s) = \left( R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty, \infty, \infty \). . .
10.314NVALID-ORDER-314 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
10.31 INVALID-ORDER-315 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.316NVALID-ORDER-316 Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.31 TNVALID-ORDER-317 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right) \dots
10.31 NVALID-ORDER-318 Z(s) = \left(R_1 + \frac{1}{C_{18}}, L_2 s + \frac{1}{C_{28}}, \frac{1}{C_{28}}, \infty, \infty, \infty\right)...
10.319NVALID-ORDER-319 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{R_3}{C_2 R_3 s + 1}, \infty, \infty, \infty\right).
10.32 NVALID-ORDER-320 Z(s) = \left(R_1 + \frac{1}{C_{18}}, L_2 s + \frac{1}{C_{28}}, R_3 + \frac{1}{C_{38}}, \infty, \infty, \infty\right)
10.32INVALID-ORDER-321 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.32 INVALID-ORDER-322 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
10.32\( \text{SNVALID-ORDER-323} \( Z(s) = \left( R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty, \infty \)
10.324NVALID-ORDER-324 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_2 s + R_3}, \infty, \infty, \infty\right)
10.32 INVALID-ORDER-325 Z(s) = \left(R_1 + \frac{1}{C_{18}}, L_2 s + \frac{1}{C_{28}}, \frac{L_3 s}{C_2 L_2 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.326NVALID-ORDER-326 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.32 INVALID-ORDER-327 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)...
10.32\( \text{NVALID-ORDER-328} \( Z(s) = \left( R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty \right) \] \tag{1.32}
10.329NVALID-ORDER-329 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, \infty\right)
10.330NVALID-ORDER-330 Z(s) = \left(R_1 + \frac{1}{C_{18}}, L_2 s + R_2 + \frac{1}{C_{28}}, R_3 + \frac{1}{C_{28}}, \infty, \infty, \infty\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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.332NVALID-ORDER-332 Z(s) = \left(R_1 + \frac{1}{C_{1s}}, L_2s + R_2 + \frac{1}{C_{2s}}, \frac{L_{3s}}{C_2L_2s^2+1}, \infty, \infty, \infty\right)
10.33ENVALID-ORDER-333 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.334NVALID-ORDER-334 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_2 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\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}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.33TNVALID-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, R_3, \infty, \infty, \infty\right) \dots
10.33\(\text{NVALID-ORDER-338}\) Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right).
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, \frac{R_3}{C_2 R_3 s + 1}, \infty, \infty, \infty\right).
10.34 NVALID-ORDER-340 Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_3 s^2 + 1} + R_2, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right) \dots
10.34 INVALID-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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.34 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, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\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, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty, \infty \right) \].
10.346NVALID-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, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\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}, R_3, \infty, \infty, \infty\right)
10.34\(\text{NVALID-ORDER-348}\) 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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)
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$10.34 \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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right) $	
$10.35 \text{@NVALID-ORDER-350 } Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right) \dots \dots$	
10.35INVALID-ORDER-351 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	
$10.35 \text{2NVALID-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}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) $	
10.35\(\text{2NVALID-ORDER-353}\) $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ 57	
$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}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right) $	
$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}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right) $	
$10.35 \text{ (INVALID-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}, \frac{R_3\left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right) $	
$10.35\text{INVALID-ORDER-}357 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) \dots $	
10.35\NVALID-ORDER-358 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$	
10.35 9 NVALID-ORDER-359 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	
$10.36 \text{ @NVALID-ORDER-360 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right) \qquad . \qquad $	
$10.36 \text{INVALID-ORDER-} 361 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right) \dots $	
10.362NVALID-ORDER-362 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ 58	
10.36\(\text{2NVALID-ORDER-363} \(Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty, \infty \end{array} \right) \qquad \qqqq \qqqqq \qqqq	
10.36\(\text{anvalid-ORDER-364}\(Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty \right) \right). \tag{58}	
$10.36 \text{ Invalid-Order-} 365 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2, \ \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty \right) \ \dots $	
$10.36 \text{ (ENVALID-ORDER-366 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right) $	
$10.36\text{TNVALID-ORDER-}367 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $	
$10.36 \$NVALID-ORDER-368\ Z(s) = \left(L_1s + \frac{1}{C_1s},\ \frac{1}{C_2s},\ \frac{R_3}{C_3R_3s+1},\ \infty,\ \infty,\ \infty\right)$	
10.36 NVALID-ORDER-369 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	
10.37 INVALID-ORDER-370 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	
$10.37 \text{INVALID-ORDER-} 371 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{L_3 s}{C_2 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)' $	
10.372NVALID-ORDER-372 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	
10.37\$NVALID-ORDER-373 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$	
10.374NVALID-ORDER-374 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$ 59	
10.37 INVALID-ORDER-375 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$	
10.376NVALID-ORDER-376 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$ 59	
$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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right) $	
$10.37 \$NVALID-ORDER-378 \ Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right) $	
10.37 NVALID-ORDER-379 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$)
10.38@NVALID-ORDER-380 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$)
10.38INVALID-ORDER-381 $Z(s) = (L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty)$ 60	
10.38 2 NVALID-ORDER-382 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$	
10.38\(\text{2NVALID-ORDER-383} \(Z(s) = \) \(\begin{array}{c} L_1 s + \frac{1}{C_1 s}, & \frac{R_2}{C_2 R_2 s + 1}, & \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, & \infty, & \infty, & \infty \end{array} \) \\ \end{array} \] (60)	,
10.38 INVALID-ORDER-384 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$ (60)	1
$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}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \ . \ . \ . \ . \ . \ . \ . \ . \ . \ $	

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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}, R_3, \infty, \infty, \infty\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}, \frac{1}{C_2 s}, \infty, \infty, \infty\right) . . .
10.38\( \text{NVALID-ORDER-388} \( Z(s) = \left( L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty \right) \dots
10.389NVALID-ORDER-389 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.39@NVALID-ORDER-390 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
 10.39INVALID-ORDER-391 Z(s) = \left(L_1 s + \frac{1}{C_{18}}, R_2 + \frac{1}{C_{28}}, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty\right)
10.392NVALID-ORDER-392 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.39 INVALID-ORDER-393 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
10.394NVALID-ORDER-394 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right) . . .
10.39 INVALID-ORDER-395 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.396NVALID-ORDER-396 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\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}, \frac{1}{C_2 s}, \infty, \infty, \infty\right)...
10.39 NVALID-ORDER-398 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.399NVALID-ORDER-399 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
 10.40 NVALID-ORDER-400 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.40INVALID-ORDER-401 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty\right).
10.402NVALID-ORDER-402 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \frac{L_3 R_3 s}{C_2 L_3 R_3 s^2 + L_2 s + R_3}, \infty, \infty, \infty\right)
10.404NVALID-ORDER-404 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\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}, \ \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)
10.40 NVALID-ORDER-406 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\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}, \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\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}, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \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}, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty\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}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right) . . . .
10.413NVALID-ORDER-413 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
10.414NVALID-ORDER-414 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty\right)
10.415NVALID-ORDER-415 Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\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, R_3, \infty, \infty, \infty\right) . . .
10.41 TNVALID-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, \frac{1}{C_3 s}, \infty, \infty, \infty\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, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\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, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\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, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.42\(\text{NVALID-ORDER-423}\(Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 R_3 s}{C_2 L_3 R_3 s^2 + L_3 s + R_3}, \inftigota, \infty, \infty\)
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, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right) ....
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$10.425 \text{NVALID-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, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \dots $	65
$10.426 \text{NVALID-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}, \ R_3, \ \infty, \ \infty, \ \infty \right) \ \dots $	65
$10.42\text{INVALID-ORDER-}427 \ 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}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \right) $	65
$10.42 \$NVALID-ORDER-428 \ 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}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) \ \dots $	65
$10.42 \text{ 9NVALID-ORDER-} 429 \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$	65
$10.43 \text{ 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}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \right) $	65
$10.43 \text{INVALID-ORDER-431 } Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty \right)'$	65
$10.432\text{NVALID-ORDER-}432\ Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1},\ L_3 s + R_3 + \frac{1}{C_3 s},\ \infty,\ \infty,\ \infty\right)$	65
$10.43 \text{ 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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty \right) \right) $	65
$10.43 \text{INVALID-ORDER-434} \ Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty \right)^{\prime} \dots \dots$	66
$10.43 \text{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}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty \right) $	66
$10.436\text{NVALID-ORDER-436}\ Z(s) = \left(\begin{array}{c} L_{1s} \\ \overline{C_1L_1s^2+1},\ R_2,\ \frac{1}{C_3s},\ \infty,\ \infty,\ \infty \end{array}\right) \qquad . \qquad . \qquad . \qquad . \qquad . \qquad . $	66
$10.43\text{TNVALID-ORDER-}437\ Z(s) = \left(\begin{array}{c} L_1s \\ \overline{C_1L_1s^2+1}, \ R_2, \ \overline{R_3} \\ \overline{C_3R_3s+1}, \ \infty, \ \infty, \end{array}\right) \ldots \qquad \ldots$	66
$10.43 \text{ ENVALID-ORDER-438 } Z(s) = \left(\frac{L_{1s}}{C_1 L_{1s}^2 + 1}, \ R_2, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$	66
10.439NVALID-ORDER-439 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, R_2, L_3s + \frac{1}{C_2s}, \infty, \infty, \infty\right)$	66
$10.44 \text{@NVALID-ORDER-}440 \ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \ R_2, \ \frac{L_3s}{C_3L_3s^2+1}, \ \infty, \ \infty, \ \infty\right) \qquad \dots $	66
$10.44 \text{INVALID-ORDER-} 441 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ R_2, \ L_3 s + R_3 + \frac{1}{C_2 s}, \ \infty, \ \infty, \ \infty\right) \dots $	66
$10.442 \text{NVALID-ORDER-} 442 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ R_2, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right) \ \dots $	66
$10.44 \text{BNVALID-ORDER-} 443 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty\right) $	67
$ (C_1L_1s^2+1)^{-1/2} C_3L_3s^2+1^{-1/3}) $ $ 10.444 \text{INVALID-ORDER-} 444 \ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \ R_2, \ \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \ \infty, \ \infty, \ \infty\right) $	67
10 445NVALID-ORDER-445 $Z(s) = \begin{pmatrix} L_1s & 1 & R_2 & \infty & \infty \\ & & & & & & & & & & & & & & &$	67
$10.445 \text{NVALID-ORDER-} 445 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty\right) $ $10.446 \text{NVALID-ORDER-} 446 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty\right) $	67
$10.44 \text{TNVALID-ORDER-} 447 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ \frac{1}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right) $ $10.44 \text{TNVALID-ORDER-} 447 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $	67
$10.44\$\text{NVALID-ORDER-}448\ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1},\ \frac{1}{C_2s},\ L_3s + \frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right)$ $10.44\$\text{NVALID-ORDER-}448\ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1},\ \frac{1}{C_2s},\ L_3s + \frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right)$	67
$10.44 \text{ (NVALID-ORDER-448 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 s}, \infty, \infty, \infty\right) $ $10.44 \text{ (NVALID-ORDER-449 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right) $	07
$10.449 \text{NVALID-ORDER-} 449 \ Z(s) = \left(\frac{1}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right) \dots \dots$	07
$10.45 \text{ @NVALID-ORDER-} 450 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $	67
$10.45 \text{INVALID-ORDER-}451 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right) $	
$10.45 2 \text{NVALID-ORDER-} 452 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right) $	
$10.45 \text{@NVALID-ORDER-}453 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty \right) \ \dots $	
$10.45 \text{ 1 NVALID-ORDER-454 } Z(s) = \left\langle \frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty \right\rangle$	68
$10.45 \text{INVALID-ORDER-} 455 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{R_2}{C_2 R_2 s + 1}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right) $	68
$10.45 \text{ 6NVALID-ORDER-} 456 \ Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \ \frac{R_{2}}{C_{2}R_{2}s+1}, \ \frac{R_{3}}{C_{3}R_{3}s+1}, \ \infty, \ \infty, \ \infty\right) $ $10.45 \text{ 6NVALID-ORDER-} 457 \ Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \ \frac{R_{2}}{C_{2}R_{2}s+1}, \ R_{3} + \frac{1}{C_{3}s}, \ \infty, \ \infty\right) $ $10.45 \text{ 6NVALID-ORDER-} 457 \ Z(s) = \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \ \frac{R_{2}}{C_{2}R_{2}s+1}, \ R_{3} + \frac{1}{C_{3}s}, \ \infty, \ \infty\right) $	68
$10.45 \text{INVALID-ORDER-} 457 \ Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ \frac{R_2}{C_2 R_2 s + 1}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$	68
$10.45 \&NVALID-ORDER-458 \ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \ \frac{R_2}{C_2R_2s+1}, \ L_3s + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right) \ \dots $	68
$10.45 \text{ @NVALID-ORDER-} 459 \ Z(s) = \left(\frac{L_1 s}{C_1 L_2 s_2^2 + 1}, \ \frac{R_2}{C_2 R_2 s_2^2 + 1}, \ \frac{L_3 s}{C_3 L_2 s_2^2 + 1}, \ \infty, \ \infty, \ \infty\right)^{\prime} $	68
$10.46 \text{ @NVALID-ORDER-460 } Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right) \dots \dots$	68

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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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right) . . .
                                                          \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}, \frac{R_{2}}{C_{2}R_{2}s+1}, \frac{R_{3}\left(C_{3}L_{3}s^{2}+1\right)}{C_{3}L_{3}s^{2}+C_{3}R_{3}s+1}, \infty, \infty, \infty\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}, R_3, \infty, \infty, \infty\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}, \frac{1}{C_2 s}, \infty, \infty, \infty\right) \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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right) . . .
                                                        \left(\frac{L_1s}{C_1L_1s^2+1}, R_2+\frac{1}{C_2s}, R_3+\frac{1}{C_2s}, \infty, \infty, \infty\right) \ldots
10.46\(\text{NVALID-ORDER-468}\) Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty\right) \dots
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}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_2 L_2 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.47BNVALID-ORDER-473 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.47\(\text{INVALID-ORDER-474}\) Z(s) = \left(\frac{L_1 s}{C_1 L_0 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right) \dots \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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right) . . . . . . . .
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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\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}, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
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}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \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}, \frac{L_3 s}{C_2 L_3 s^2 + 1}, \infty, \infty, \infty\right) .....
10.48 QNVALID-ORDER-480 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right) \dots
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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right) \dots
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}, \frac{L_3 s}{C_2 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right) . . . .
                                                         \left(\frac{L_{1s}}{C_1L_1s^2+1}, L_2s + \frac{1}{C_2s}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\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}, R_3, \infty, \infty, \infty\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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right) . . . .
10.486NVALID-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}, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, \infty\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}, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.48\text{NVALID-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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\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}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_2 s + R_3}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.49BNVALID-ORDER-493 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, L_2s + R_2 + \frac{1}{C_2s}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\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, R_3, \infty, \infty, \infty\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, \frac{1}{C_3 s}, \infty, \infty, \infty\right) . . . . . . . .
10.49 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, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right) . . . . .
10.49 TNVALID-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, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
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10.500NVALID-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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                     \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}, \frac{L_{3}R_{3}s}{C_{3}L_{3}R_{3}s^{2}+L_{3}s+R_{3}}, \infty, \infty, \infty\right)
                                                                     \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
10.502NVALID-ORDER-502 Z(s) =
                                                                     \left(\frac{L_{1s}}{C_{1}L_{1}s^{2}+1}, \frac{L_{2s}}{C_{2}L_{2}s^{2}+1} + R_{2}, \frac{R_{3}(C_{3}L_{3}s^{2}+1)}{C_{3}L_{3}s^{2}+C_{3}R_{3}s+1}, \infty, \infty, \infty\right)
10.50BNVALID-ORDER-503 Z(s) =
                                                                     \left(\frac{L_{1s}}{C_1L_1s^2+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, R_3, \infty, \infty, \infty\right)
10.504NVALID-ORDER-504 Z(s) =
                                                                     \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{1}{C_3s}, \infty, \infty, \infty\right)
10.50 INVALID-ORDER-505 Z(s) =
                                                                     \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
10.50 6NVALID-ORDER-506 Z(s) =
                                                                     \frac{L_1s}{C_1L_1s^2+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty
10.50TNVALID-ORDER-507 Z(s) =
                                                                     \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}, \ L_{3}s+\frac{1}{C_{3}s}, \ \infty, \ \infty, \ \infty
10.50NVALID-ORDER-508 Z(s) =
                                                                     \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}, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}, \infty, \infty, \infty
10.509NVALID-ORDER-509 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}, L_{3}s+R_{3}+\frac{1}{C_{3}s}, \infty, \infty, \infty\right)
10.51 ONVALID-ORDER-510 Z(s) =
                                                                     \frac{C_{11s}}{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}, \frac{L_{3}R_{3}s}{C_{3}L_{3}R_{3}s^{2}+L_{3}s+R_{3}}, \infty, \infty, \infty
10.51INVALID-ORDER-511 Z(s) =
                                                                     \frac{C_{L_1s}}{C_1L_1s^2+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1}+R_3, \infty, \infty, \infty
10.512NVALID-ORDER-512 Z(s) =
                                                                     \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}, \frac{R_{3}(C_{3}L_{3}s^{2}+1)}{C_{3}L_{3}s^{2}+C_{3}R_{3}s+1}, \infty, \infty, \infty
10.51BNVALID-ORDER-513 Z(s) =
10.514NVALID-ORDER-514 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_2 s}, \infty, \infty, \infty\right).
10.51 INVALID-ORDER-515 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, \infty\right)
10.516NVALID-ORDER-516 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.51 INVALID-ORDER-517 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.51\( \text{NVALID-ORDER-518} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_2 L_3 s^2 + 1}, \infty, \infty, \infty \right) \)
10.519NVALID-ORDER-519 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.520NVALID-ORDER-520 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 R_3 s}{C_2 L_2 R_2 s^2 + L_2 s + R_2}, \infty, \infty, \infty\right)
10.52INVALID-ORDER-521 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.522NVALID-ORDER-522 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.52\( \text{NVALID-ORDER-523} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty \right) \] \tag{1.5}
10.52#NVALID-ORDER-524 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.52 INVALID-ORDER-525 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.526NVALID-ORDER-526 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.52 INVALID-ORDER-527 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.52\( \text{NVALID-ORDER-528} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty \right) \)
10.529NVALID-ORDER-529 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.530NVALID-ORDER-530 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_2 L_3 R_3 s^2 + L_2 s + R_3}, \infty, \infty, \infty\right)
10.53INVALID-ORDER-531 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.532NVALID-ORDER-532 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.53\( \text{ENVALID-ORDER-533} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty \).
10.53\(\text{INVALID-ORDER-534}\) Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right).
10.53 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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
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10.536NVALID-ORDER-536 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right) \dots
 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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)...
10.53\( \) 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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty \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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_2 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.54\(\mathbb{E}\)NVALID-ORDER-543 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right).
10.54\(\text{INVALID-ORDER-544}\) Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_2 s}, \infty, \infty, \infty\right) . . .
10.54 INVALID-ORDER-545 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right).
10.546NVALID-ORDER-546 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.54\( \text{NVALID-ORDER-548} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty \right) \)
 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}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.550NVALID-ORDER-550 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_2 L_2 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.552NVALID-ORDER-552 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.55\( \text{2NVALID-ORDER-553} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty \right) \ . . . . \)
10.554NVALID-ORDER-554 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right) \dots
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}, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, \infty\right)
10.556NVALID-ORDER-556 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.55\( \text{NVALID-ORDER-558} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_{18}}, \ L_2 s + \frac{1}{C_{28}}, \ \frac{L_3 s}{C_2 L_2 s^2 + 1}, \ \infty, \ \infty, \ \infty \right) \ \dots
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}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.560NVALID-ORDER-560 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\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}, \frac{L_3 s}{C_2 L_2 s^2 + 1} + R_3, \infty, \infty, \infty\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}, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\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}, R_3, \infty, \infty, \infty\right) . . . .
10.56\(\text{4NVALID-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}, \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, \infty\right)
10.56 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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
 10.56\( \text{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}, \ \frac{L_3 s}{C_2 L_2 s^2 + 1}, \ \infty, \ \infty, \ \infty \right) \] \tag{10.56}
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}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.570NVALID-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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_2 s + R_3}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.572NVALID-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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.57\( \text{NVALID-ORDER-573} \( Z(s) = \left( L_1 s + R_1 + \frac{1}{C_1 s}, \) \( \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3, \infty, \infty, \infty, \infty \). \( \text{. } \text{.} \)
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, \frac{1}{C_3 s}, \infty, \infty, \infty\right)
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10.57 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, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right) \dots
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, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.57 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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.57\bigs_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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right).
10.579NVALID-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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.580NVALID-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, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
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, \frac{L_3 s}{C_3 L_2 s^2 + 1} + R_3, \infty, \infty, \infty\right)
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, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.58ENVALID-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}, R_3, \infty, \infty, \infty\right)
10.58#NVALID-ORDER-584 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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                     (L_1s + R_1 + \frac{1}{C_1s}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty)
10.585NVALID-ORDER-585 Z(s) =
10.586NVALID-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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                     \left(L_1s + R_1 + \frac{1}{C_1s}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)
10.58TNVALID-ORDER-587 Z(s) =
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty \right) 
                                                                      \left(L_1s + R_1 + \frac{1}{C_1s}, \frac{R_2(C_2L_2s^2 + 1)}{C_2L_2s^2 + C_2R_2s + 1}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
10.59 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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
                                                                     \left(L_1s + R_1 + \frac{1}{C_1s}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2 + C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
                                                                     L_1s + R_1 + \frac{1}{C_1s}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, \frac{1}{C_2s}, \infty, \infty, \infty\right)...
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, R_3+\frac{1}{C_2s}, \infty, \infty, \infty\right)
10.595NVALID-ORDER-595 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, L_3s+\frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, \frac{L_3s}{C_2L_3s^2+1}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, L_3s+R_3+\frac{1}{C_3s}, \infty, \infty, \infty\right)
10.598NVALID-ORDER-598 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
10.599NVALID-ORDER-599 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, \frac{L_3s}{C_3L_3s^2+1}+R_3, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
10.60INVALID-ORDER-601 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{1}{C_2s}, R_3, \infty, \infty, \infty\right)
10.602NVALID-ORDER-602 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
10.60BNVALID-ORDER-603 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
10.604NVALID-ORDER-604 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{1}{C_2s}, L_3s+\frac{1}{C_2s}, \infty, \infty, \infty\right)
                                                                       \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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
10.606NVALID-ORDER-606 Z(s) =
                                                                       \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{1}{C_2s}, L_3s+R_3+\frac{1}{C_3s}, \infty, \infty, \infty
10.60TNVALID-ORDER-607 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{1}{C_2s}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
                                                                       \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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
                                                                      \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}, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.61 ONVALID-ORDER-610 Z(s) =
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10.61INVALID-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}, R_3, \infty, \infty, \infty\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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{R_2}{C_2R_2s+1}, L_3s+\frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{R_2}{C_2R_2s+1}, \frac{L_3s}{C_2L_2s^2+1}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{R_2}{C_2R_2s+1}, L_3s+R_3+\frac{1}{C_2s}, \infty, \infty, \infty\right)
                                                                      \left(rac{L_{1}R_{1}s}{C_{1}L_{1}R_{1}s^{2}+L_{1}s+R_{1}}, rac{R_{2}}{C_{2}R_{2}s+1}, rac{L_{3}R_{3}s}{C_{3}L_{3}R_{3}s^{2}+L_{3}s+R_{3}}, \infty, \infty, \infty
ight)
                                                                      \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{R_2}{C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1}+R_3, \infty, \infty, \infty\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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2+\frac{1}{C_2s}, R_3, \infty, \infty, \infty\right) ......
                                                                       \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}, \frac{1}{C_2 s}, \infty, \infty, \infty\right) \dots
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right).
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2+\frac{1}{C_2s}, R_3+\frac{1}{C_3s}, \infty, \infty, \infty\right)
 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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
 10.62 NVALID-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}, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty\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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
 10.62TNVALID-ORDER-627 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2 + \frac{1}{C_2s}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
                                                                      \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2 + \frac{1}{C_2s}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, R_2 + \frac{1}{C_2s}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
 10.63 ONVALID-ORDER-630 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}, R_3, \infty, \infty, \infty\right) .....
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, L_2s+\frac{1}{C_2s}, \frac{1}{C_2s}, \infty, \infty, \infty\right) \ldots \ldots
 10.632NVALID-ORDER-632 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, L_2s+\frac{1}{C_2s}, \frac{R_3}{C_2R_3s+1}, \infty, \infty, \infty\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}, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, L_2s+\frac{1}{C_2s}, L_3s+\frac{1}{C_2s}, \infty, \infty, \infty\right)
                                                                       \left(\frac{L_1R_1s}{C_2L_2R_1s^2+L_1s+R_1}, L_2s+\frac{1}{C_2s}, \frac{L_3s}{C_2L_2s^2+1}, \infty, \infty, \infty\right) . . .
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, L_2s+\frac{1}{C_2s}, L_3s+R_3+\frac{1}{C_2s}, \infty, \infty, \infty\right)
                                                                      \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, L_2s+\frac{1}{C_2s}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right) ....
 10.63NVALID-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}, \frac{L_3 s}{C_2 L_2 s^2 + 1} + R_3, \infty, \infty, \infty\right)
 10.63 NVALID-ORDER-639 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ L_2s+\frac{1}{C_2s},\ \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \infty,\ \infty
ight)
10.640NVALID-ORDER-640 Z(s) =
                                                                       \left(\frac{L_1R_1s}{C_2L_1R_1s^2+L_1s+R_1}, L_2s+R_2+\frac{1}{C_2s}, R_3, \infty, \infty, \infty\right) ...
                                                                      \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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right).
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, L_2s+R_2+\frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right).
                                                                       \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ L_2s+R_2+\frac{1}{C_2s},\ R_3+\frac{1}{C_2s},\ \infty,\ \infty,\ \infty\right)
 10.64INVALID-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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                      \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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right) \dots
10.64 6NVALID-ORDER-646 Z(s) =
                                                                      \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ L_2s+R_2+\frac{1}{C_2s},\ L_3s+R_3+\frac{1}{C_3s},\ \infty,\ \infty,\ \infty\right)
10.64\(\text{NVALID-ORDER-648}\(Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_2 L_3 R_3 s^2 + L_3 s + R_3}, \inftigm\), \infty\(\infty\), \infty\(\infty\)
10.64 \mathfrak{D} \text{NVALID-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}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right) \ \dots
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\left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1},\ L_2s+R_2+\frac{1}{C_2s},\ \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1},\ \infty,\ \infty,\ \infty\right)
                                                                            \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{L_2s}{C_2L_2s^2+1}+R_2, R_3, \infty, \infty, \infty\right) \dots
                                                                            \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, \frac{1}{C_3 s}, \infty, \infty, \infty\right).
                                                                            \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{L_2s}{C_2L_2s^2+1}+R_2, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
 10.65BNVALID-ORDER-653 Z(s)
                                                                            \frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \ \frac{L_2s}{C_2L_2s^2+1}+R_2, \ R_3+\frac{1}{C_3s}, \ \infty, \ \infty, \ \infty
                                                                            \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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty
                                                                            \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{L_2s}{C_2L_2s^2+1}+R_2, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)
 10.656NVALID-ORDER-656 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, L_3s+R_3+\frac{1}{C_3s}, \infty, \infty, \infty\right)
 10.65TNVALID-ORDER-657 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, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
                                                                            \left(\frac{L_1R_1s}{C_1L_1R_1s^2+L_1s+R_1}, \frac{L_2s}{C_2L_2s^2+1}+R_2, \frac{L_3s}{C_3L_3s^2+1}+R_3, \infty, \infty, \infty\right)
 10.659NVALID-ORDER-659 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, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
 10.66 ONVALID-ORDER-660 Z(s) =
                                                                            \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}, R_3, \infty, \infty, \infty
 10.66INVALID-ORDER-661 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}, \frac{1}{C_3s}, \infty, \infty, \infty\right)
 10.662NVALID-ORDER-662 Z(s) =
                                                                             \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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty
 10.66BNVALID-ORDER-663 Z(s) =
                                                                             \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}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty
 10.664NVALID-ORDER-664 Z(s) =
                                                                            \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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty
 10.665NVALID-ORDER-665 Z(s) =
                                                                            \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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty
 10.66 6NVALID-ORDER-666 Z(s) =
                                                                            \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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty
10.66TNVALID-ORDER-667 Z(s) =
                                                                            \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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty
 10.668NVALID-ORDER-668 Z(s) =
                                                                            \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}, \frac{L_{3}s}{C_{3}L_{3}s^{2}+1}+R_{3}, \infty, \infty, \infty
 10.669NVALID-ORDER-669 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}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
 10.67 ONVALID-ORDER-670 Z(s) =
                                                                            \frac{L_{1s}}{C_1L_{1s}^2+1}+R_1, R_2, \frac{1}{C_{2s}}, \infty, \infty, \infty
                                                                            \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, \infty\right)
                                                                            \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
                                                                           \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
                                                                           \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty\right) ...
                                                                           \left(\frac{L_1 s}{C_1 L_2 s^2 + 1} + R_1, R_2, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
                                                                          \left(\frac{L_1s}{C_1L_1s^2+1}+R_1, R_2, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
                                                                          \left(\frac{L_1s}{C_1L_1s^2+1}+R_1, R_2, \frac{L_3s}{C_3L_3s^2+1}+R_3, \infty, \infty, \infty\right)
                                                                            \frac{L_{1s}}{C_{1}L_{1}s^{2}+1} + R_{1}, R_{2}, \frac{R_{3}(C_{3}L_{3}s^{2}+1)}{C_{3}L_{3}s^{2}+C_{3}R_{3}s+1}, \infty, \infty, \infty
10.68QNVALID-ORDER-680 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right) . . .
                                                                           \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right).
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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                         \left(\frac{L_1s}{C_1L_1s^2+1}+R_1, \frac{1}{C_2s}, R_3+\frac{1}{C_3s}, \infty, \infty, \infty\right)
10.68\( \text{INVALID-ORDER-684} \( Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty, \infty \)
10.68 INVALID-ORDER-685 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
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10.68 INVALID-ORDER-686 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right) . . . . . . . .
                                                               \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{1}{C_2s}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
10.68\( \text{NVALID-ORDER-688} \( Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty, \infty \).
                                                                 \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{1}{C_2s}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\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}, R_3, \infty, \infty, \infty\right) \dots
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}, \frac{1}{C_2 s}, \infty, \infty, \infty\right) . . .
10.692NVALID-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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right).
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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.69 \text{ 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}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)^{'} \quad . \quad .
10.696NVALID-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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right).
10.69TNVALID-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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
10.69 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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
                                                                 \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1}, \frac{R_{2}}{C_{2}R_{2}s+1}, \frac{R_{3}\left(C_{3}L_{3}s^{2}+1\right)}{C_{3}L_{3}s^{2}+C_{3}R_{3}s+1}, \infty, \infty, \infty\right)
10.700NVALID-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}, R_3, \infty, \infty, \infty\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}, \frac{1}{C_2 s}, \infty, \infty, \infty\right) \dots
10.702NVALID-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}, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, \infty\right).
10.70\text{2NVALID-ORDER-703} Z(s) = \left(\frac{L_1 s}{C_1 L_2 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right).
 10.704NVALID-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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.70 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}, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty\right) \dots
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}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right) . . .
10.70 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}, \frac{L_3 R_3 s}{C_2 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
10.70\( \text{NVALID-ORDER-708} \( Z(s) = \left( \frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty, \infty \).
10.709NVALID-ORDER-709 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
10.710NVALID-ORDER-710 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right) \dots \dots
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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right).
10.712NVALID-ORDER-712 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right) . . .
10.71RNVALID-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}, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.714NVALID-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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\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}, \frac{L_3 s}{C_2 L_2 s^2 + 1}, \infty, \infty, \infty\right) . . . . .
10.716NVALID-ORDER-716 Z(s) = \left(\frac{L_1 s}{C_2 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
10.71 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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
10.718NVALID-ORDER-718 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
                                                                \left(\frac{L_{1}s}{C_{1}L_{1}s^{2}+1}+R_{1},\ L_{2}s+\frac{1}{C_{2}s},\ \frac{R_{3}\left(C_{3}L_{3}s^{2}+1\right)}{C_{3}L_{3}s^{2}+C_{3}R_{3}s+1},\ \infty,\ \infty,\ \infty\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}, R_3, \infty, \infty, \infty\right) \dots
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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right) \dots
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}, \frac{R_3}{C_2 R_2 s + 1}, \infty, \infty, \infty\right).
10.72 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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
10.724NVALID-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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
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10.79 0 NVALID-ORDER-790 $Z(s) = \begin{pmatrix} 7 & 1 \\ 7 & 1 \end{pmatrix}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$\frac{1}{C_3s}$, ∞ , ∞ , ∞			 	 	 	 	 . 105
10.79INVALID-ORDER-791 $Z(s) = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$\frac{R_3}{C_3R_3s+1}$, ∞ , ∞ ,	∞)		 	 	 	 	 105
10.792NVALID-ORDER-792 $Z(s) = \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty,$	∞)		 	 	 	 	 105
10.79 B NVALID-ORDER-793 $Z(s) = \left(\frac{1}{6}\right)$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$L_3s + \frac{1}{C_3s}, \ \infty, \ \infty,$	∞)		 	 	 	 	 105
10.79#NVALID-ORDER-794 $Z(s) = \left(\frac{1}{6}\right)^{-1}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$\frac{L_3s}{C_3L_3s^2+1}, \ \infty, \ \infty,$	∞)		 	 	 	 	 106
10.79 INVALID-ORDER-795 $Z(s) = \left(\frac{1}{6}\right)^{-1}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$L_3s + R_3 + \frac{1}{C_3s}$, o	∞, ∞, ∞		 	 	 	 	 106
10.796NVALID-ORDER-796 $Z(s) = \left(\frac{1}{\sqrt{s}}\right)$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$\frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3},$	$\infty, \ \infty, \ \infty$		 	 	 	 	 106
10.79 T NVALID-ORDER-797 $Z(s) = \left(\frac{1}{6}\right)^{-1}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$\frac{L_3s}{C_3L_3s^2+1} + R_3, \ \infty$	$, \infty, \infty$		 	 	 	 	 106
10.79&NVALID-ORDER-798 $Z(s) = \left(\frac{1}{6}\right)^{-1}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + \frac{1}{C_2s},$	$\frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \ \bigcirc$	(∞, ∞, ∞)		 	 	 	 	 106
,			$-\frac{1}{C_2s}$, R_3 , ∞ , ∞ ,	/		 	 	 	 	 106
10.80 QNVALID-ORDER-800 $Z(s) = \left(\frac{1}{\sqrt{2}}\right)^{\frac{1}{2}}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + R_2 +$	$-\frac{1}{C_2s}$, $\frac{1}{C_3s}$, ∞ , ∞ ,	∞		 	 	 	 	 106
\ 			$-\frac{1}{C_2s}, \ \frac{R_3}{C_3R_3s+1}, \ \infty,$	/		 	 	 	 	 . 106
10.802NVALID-ORDER-802 $Z(s) = \left(\frac{1}{\sqrt{2}}\right)^{-1}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + R_2 +$	$-\frac{1}{C_2s}$, $R_3 + \frac{1}{C_3s}$, ∞	$, \infty, \infty$		 	 	 	 	 106
10.80 INVALID-ORDER-803 $Z(s) = \left(\frac{1}{\sqrt{s}}\right)^{-1}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + R_2 +$	$-\frac{1}{C_2s}$, $L_3s + \frac{1}{C_3s}$, \circ	∞, ∞, ∞		 	 	 	 	 107
10.804NVALID-ORDER-804 $Z(s) = \begin{pmatrix} 7 & 3 \\ 7 & 3 \end{pmatrix}$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$L_2s + R_2 +$	$-\frac{1}{C_2s}, \ \frac{L_3s}{C_3L_3s^2+1}, \ \infty$	$, \infty, \infty$		 	 	 	 	 107
>			$-\frac{1}{C_2s}$, $L_3s + R_3 + \frac{1}{C_2s}$		/	 	 	 	 	 107
>			$-\frac{1}{C_2s}, \ \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s}$		` '	 	 	 	 	 107
			$-\frac{1}{C_2s}, \ \frac{L_3s}{C_3L_3s^2+1}+F_3$			 	 	 	 	 107
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($\frac{+1}{R_2s+1}$, R_3 , ∞ , ∞ ,							
10.82 ONVALID-ORDER-820 $Z(s) = \left(\frac{1}{6}\right)$	$\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1},$	$\frac{R_2(C_2L_2s^2}{C_2L_2s^2+C_2F}$	$\frac{+1}{R_2s+1}$, $\frac{1}{C_3s}$, ∞ , ∞ ,	∞)		 	 	 	 	 . 108

$10.82 \text{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}, \ \frac{R_3}{C_3R_3s+1}, \ \infty, \ \infty, \ \infty\right) \dots $	9
$10.822\text{NVALID-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}, \ R_3 + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right) \ \dots $	
$10.82 \text{ 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}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right) $	9
$10.82 \text{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}, \ \frac{L_3s}{C_3L_3s^2+1}, \ \infty, \ \infty, \ \infty \right)' $	9
$10.82 \text{5NVALID-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}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right) \dots $	9
$10.82 \text{ (ENVALID-ORDER-826 } Z(s) = \left\langle \frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty, \infty \right\rangle$	9
$10.82\text{INVALID-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}, \ \frac{L_3s}{C_3L_3s^2+1} + R_3, \ \infty, \ \infty, \ \infty\right) \ \dots $	9
$10.82 \text{ENVALID-ORDER-828} \ Z(s) = \left\langle \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}, \ \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \ \infty, \ \infty, \ \infty \right\rangle $)
PolynomialError 109	

1 Examined
$$H(z)$$
 for TIA simple Z1 Z2 Z3: $\frac{Z_1Z_3(Z_2g_m+1)}{Z_1Z_2g_m+Z_1+Z_2+Z_3}$

$$H(z) = \frac{Z_1 Z_3 (Z_2 g_m + 1)}{Z_1 Z_2 g_m + Z_1 + Z_2 + Z_3}$$

2 HP

3 BP

3.1 BP-1
$$Z(s) = \left(R_1, R_2, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{s \left(L_3 R_1 R_2 g_m + L_3 R_1 \right)}{L_3 s + R_1 R_2 g_m + R_1 + R_2 + s^2 \left(C_3 L_3 R_1 R_2 g_m + C_3 L_3 R_1 + C_3 L_3 R_2 \right)}$$

Parameters:

Q:
$$C_3\sqrt{\frac{1}{C_3L_3}} \left(R_1R_2g_m + R_1 + R_2 \right)$$

wo: $\sqrt{\frac{1}{C_3L_3}}$
bandwidth: $\frac{1}{C_3(R_1R_2g_m + R_1 + R_2)}$
K-LP: 0
K-HP: 0
K-BP: $R_1\left(R_2g_m + 1 \right)$
Qz: 0
Wz: None

3.2 BP-2
$$Z(s) = \left(R_1, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

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

Parameters:

Q:
$$\frac{C_3R_3\sqrt{\frac{1}{C_3L_3}}(R_1R_2g_m+R_1+R_2)}{R_1R_2g_m+R_1+R_2+R_3}$$
 wo:
$$\sqrt{\frac{1}{C_3L_3}}$$
 bandwidth:
$$\frac{R_1R_2g_m+R_1+R_2+R_3}{C_3R_3(R_1R_2g_m+R_1+R_2)}$$
 K-LP: 0 K-HP: 0 K-BP:
$$\frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3}$$
 Qz: 0 Wz: None

3.3 BP-3
$$Z(s) = \left(L_1 s, R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{s (L_1 R_2 g_m + L_1)}{C_3 R_2 s + s^2 (C_3 L_1 R_2 g_m + C_3 L_1) + 1}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_1\sqrt{\frac{1}{C_3L_1(R_2g_m+1)}}(R_2g_m+1)}{R_2}\\ \text{wo:} \ \sqrt{\frac{1}{C_3L_1(R_2g_m+1)}}\\ \text{bandwidth:} \ \frac{R_2}{L_1(R_2g_m+1)}\\ \text{K-LP:} \ 0\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{L_1(R_2g_m+1)}{C_3R_2}\\ \text{Qz:} \ 0 \end{array}$$

Wz: None

3.4 BP-4
$$Z(s) = \left(L_1 s, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_3L_1R_3\sqrt{\frac{R_2+R_3}{C_3L_1R_3(R_2g_{m}+1)}}(R_2g_{m}+1)}{C_3R_2R_3+L_1R_2g_{m}+L_1}\\ \text{wo:} \ \sqrt{\frac{R_2+R_3}{C_3L_1R_3(R_2g_{m}+1)}}\\ \text{bandwidth:} \ \frac{C_3R_2R_3+L_1R_2g_{m}+L_1}{C_3L_1R_3(R_2g_{m}+1)}\\ \text{K-LP:} \ 0\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{L_1R_3(R_2g_{m}+1)}{C_3R_2R_3+L_1R_2g_{m}+L_1}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$$

3.5 BP-5
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, R_3, \infty, \infty, \infty\right)$$

Parameters:

$$\begin{array}{l} \text{Q: } \frac{C_1 \sqrt{\frac{1}{C_1 L_1}} (R_2 + R_3)}{R_2 g_m + 1} \\ \text{wo: } \sqrt{\frac{1}{C_1 L_1}} \\ \text{bandwidth: } \frac{R_2 g_m + 1}{C_1 (R_2 + R_3)} \\ \text{K-LP: 0} \\ \text{K-HP: 0} \\ \text{K-BP: } R_3 \\ \text{Qz: 0} \\ \text{Wz: None} \end{array}$$

3.6 BP-6
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2, R_3, \infty, \infty, \infty\right)$$

Parameters:

Q:
$$\frac{C_1R_1\sqrt{\frac{1}{C_1L_1}}(R_2+R_3)}{R_1R_2g_m+R_1+R_2+R_3}$$

wo: $\sqrt{\frac{1}{C_1L_1}}$
bandwidth: $\frac{R_1R_2g_m+R_1+R_2+R_3}{C_1R_1(R_2+R_3)}$
K-LP: 0
K-HP: 0
K-BP: $\frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3}$
Qz: 0
Wz: None

4 LP

$$H(s) = \frac{s \left(L_1 R_2 R_3 g_m + L_1 R_3 \right)}{R_2 + R_3 + s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 \right) + s \left(C_3 R_2 R_3 + L_1 R_2 g_m + L_1 \right)}$$

$$H(s) = \frac{s \left(L_1 R_2 R_3 g_m + L_1 R_3 \right)}{R_2 + R_3 + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_3 \right) + s \left(L_1 R_2 g_m + L_1 \right)}$$

$$H(s) = \frac{s \left(L_1 R_1 R_2 R_3 g_m + L_1 R_1 R_3 \right)}{R_1 R_2 + R_1 R_3 + s^2 \left(C_1 L_1 R_1 R_2 + C_1 L_1 R_1 R_3 \right) + s \left(L_1 R_1 R_2 g_m + L_1 R_1 + L_1 R_2 + L_1 R_3 \right)}$$

4.1 LP-1 $Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_3 g_m + R_3}{C_1 C_3 R_2 R_3 s^2 + R_2 g_m + s \left(C_1 R_2 + C_1 R_3 + C_3 R_2 R_3 g_m + C_3 R_3\right) + 1}$

Parameters:

Q:
$$\frac{C_1C_3R_2R_3\sqrt{\frac{R_2g_m+1}{C_1C_3R_2R_3}}}{C_1R_2+C_1R_3+C_3R_2R_3g_m+C_3R_3}$$
 wo:
$$\sqrt{\frac{R_2g_m+1}{C_1C_3R_2R_3}}$$
 bandwidth:
$$\frac{C_1R_2+C_1R_3+C_3R_2R_3g_m+C_3R_3}{C_1C_3R_2R_3}$$
 K-LP: R_3 K-HP: 0 K-BP: 0 Qz: None Wz: None

4.2 LP-2 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

Parameters:

Q:
$$\frac{C_1C_3R_1R_2\sqrt{\frac{1}{C_1C_3R_1R_2}}}{C_1R_1+C_3R_1R_2g_m+C_3R_1+C_3R_2}$$
 wo:
$$\sqrt{\frac{1}{C_1C_3R_1R_2}}$$
 bandwidth:
$$\frac{C_1R_1+C_3R_1R_2g_m+C_3R_1+C_3R_2}{C_1C_3R_1R_2}$$
 K-LP: $R_1\left(R_2g_m+1\right)$ K-HP: 0 K-BP: 0 Qz: None Wz: None

4.3 LP-3 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1R_2R_3g_m + R_1R_3}{C_1C_3R_1R_2R_3s^2 + R_1R_2g_m + R_1 + R_2 + R_3 + s\left(C_1R_1R_2 + C_1R_1R_3 + C_3R_1R_2R_3g_m + C_3R_1R_3 + C_3R_2R_3\right)}$

 $H(s) = \frac{R_1 R_2 g_m + R_1}{C_1 C_3 R_1 R_2 s^2 + s \left(C_1 R_1 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2\right) + 1}$

Parameters:

5 BS

5.1 BS-1
$$Z(s) = \left(R_1, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_3 L_3 R_1 R_2 g_m + C_3 L_3 R_1 \right)}{C_3 L_3 s^2 + s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 \right) + 1}$$

Parameters:

Q:
$$\frac{L_3\sqrt{\frac{1}{C_3L_3}}}{R_1R_2g_m+R_1+R_2}$$

wo: $\sqrt{\frac{1}{C_3L_3}}$
bandwidth: $\frac{R_1R_2g_m+R_1+R_2}{L_3}$
K-LP: $R_1\left(R_2g_m+1\right)$
K-HP: $R_1\left(R_2g_m+1\right)$
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_3L_3}}$

5.2 BS-2
$$Z(s) = \left(R_1, R_2, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1R_2R_3g_m + R_1R_3 + s^2\left(C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^2\left(C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_2 + C_3L_3R_3\right) + s\left(C_3R_1R_2R_3g_m + C_3R_1R_3 + C_3R_2R_3\right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{L_3\sqrt{\frac{1}{C_3L_3}}(R_1R_2g_m+R_1+R_2+R_3)}{R_3(R_1R_2g_m+R_1+R_2)} \\ \text{wo:} \ \sqrt{\frac{1}{C_3L_3}} \\ \text{bandwidth:} \ \frac{R_3(R_1R_2g_m+R_1+R_2)}{L_3(R_1R_2g_m+R_1+R_2+R_3)} \\ \text{K-LP:} \ \frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ \text{K-HP:} \ \frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_3L_3}} \end{array}$$

5.3 BS-3
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s^2 (C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_3)}{R_2 g_m + s^2 (C_1 L_1 R_2 g_m + C_1 L_1) + s (C_1 R_2 + C_1 R_3) + 1}$$

Parameters:

Q:
$$\frac{L_1\sqrt{\frac{1}{C_1L_1}}(R_2g_m+1)}{R_2+R_3}$$

wo: $\sqrt{\frac{1}{C_1L_1}}$
bandwidth: $\frac{R_2+R_3}{L_1(R_2g_m+1)}$
K-LP: R_3
K-HP: R_3
K-BP: 0
Qz: None
Wz: $\sqrt{\frac{1}{C_1L_1}}$

5.4 BS-4
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^2 \left(C_1 L_1 R_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 \right)}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_1 L_1 R_2 + C_1 L_1 R_3 \right) + s \left(C_1 R_1 R_2 + C_1 R_1 R_3 \right)}$$

$$\begin{array}{l} \text{Q:} \ \frac{L_1\sqrt{\frac{1}{C_1L_1}}(R_1R_2g_m+R_1+R_2+R_3)}{R_1(R_2+R_3)} \\ \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ \text{bandwidth:} \ \frac{R_1(R_2+R_3)}{L_1(R_1R_2g_m+R_1+R_2+R_3)} \\ \text{K-LP:} \ \frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ \text{K-HP:} \ \frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ \text{K-BP:} \ 0 \\ \text{Qz:} \ \text{None} \\ \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{array}$$

6 **GE**

6.1 GE-1
$$Z(s) = \left(R_1, R_2, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$$

Parameters:

Q:
$$\frac{L_3\sqrt{\frac{1}{C_3L_3}}}{R_1R_2g_m+R_1+R_2+R_3}$$
 wo:
$$\sqrt{\frac{1}{C_3L_3}}$$
 bandwidth:
$$\frac{R_1R_2g_m+R_1+R_2+R_3}{L_3}$$
 K-LP:
$$R_1\left(R_2g_m+1\right)$$
 K-HP:
$$R_1\left(R_2g_m+1\right)$$
 K-BP:
$$\frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3}$$
 Qz:
$$\frac{L_3\sqrt{\frac{1}{C_3L_3}}}{R_3}$$
 Wz:
$$\sqrt{\frac{1}{C_3L_3}}$$

6.2 GE-2
$$Z(s) = \left(R_1, R_2, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$$

Parameters:

Q:
$$C_3\sqrt{\frac{1}{C_3L_3}}$$
 $(R_1R_2g_m + R_1 + R_2 + R_3)$
wo: $\sqrt{\frac{1}{C_3L_3}}$
bandwidth: $\frac{1}{C_3(R_1R_2g_m + R_1 + R_2 + R_3)}$
K-LP: $\frac{R_1R_3(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_3}$
K-HP: $\frac{R_1R_3(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_3}$
K-BP: R_1 $(R_2g_m + 1)$
Qz: $C_3R_3\sqrt{\frac{1}{C_3L_3}}$
Wz: $\sqrt{\frac{1}{C_3L_3}}$

6.3 GE-3
$$Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$$

Q:
$$\frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_1g_m+1)}{R_1+R_3}$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_3 L_3 R_1 R_2 g_m + C_3 L_3 R_1 \right) + s \left(C_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3 \right)}{C_3 L_3 s^2 + s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 + C_3 R_3 \right) + 1}$$

$$H(s) = \frac{R_1R_2R_3g_m + R_1R_3 + s^2\left(C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3\right) + s\left(L_3R_1R_2g_m + L_3R_1\right)}{L_3s + R_1R_2g_m + R_1 + R_2 + R_3 + s^2\left(C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_1 + C_3L_3R_2 + C_3L_3R_3\right)}$$

$$H(s) = \frac{C_2L_2R_1R_3g_ms^2 + C_2R_1R_3s + R_1R_3g_m}{R_1g_m + s^2\left(C_2L_2R_1g_m + C_2L_2\right) + s\left(C_2R_1 + C_2R_3\right) + 1}$$

wo:
$$\sqrt{\frac{1}{C_2L_2}}$$
 bandwidth: $\frac{R_1+R_3}{L_2(R_1g_m+1)}$ K-LP: $\frac{R_1R_3g_m}{R_1g_m+1}$ K-HP: $\frac{R_1R_3g_m}{R_1g_m+1}$ K-BP: $\frac{R_1R_3}{R_1+R_3}$ Qz: $L_2g_m\sqrt{\frac{1}{C_2L_2}}$ Wz: $\sqrt{\frac{1}{C_2L_2}}$

6.4 GE-4
$$Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_2R_1R_3g_ms^2 + R_1R_3g_m + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3\right)}{R_1g_m + s^2\left(C_2L_2R_1g_m + C_2L_2\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_3\right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q: } \frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_1g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ & \text{wo: } \sqrt{\frac{1}{C_2L_2}} \\ & \text{bandwidth: } \frac{R_1R_2g_m+R_1+R_2+R_3}{L_2(R_1g_m+1)} \\ & \text{K-LP: } \frac{R_1R_3g_m}{R_1g_m+1} \\ & \text{K-HP: } \frac{R_1R_3g_m}{R_1g_m+1} \\ & \text{K-BP: } \frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ & \text{Qz: } \frac{L_2g_m\sqrt{\frac{1}{C_2L_2}}}{R_2g_m+1} \\ & \text{Wz: } \sqrt{\frac{1}{C_2L_2}} \end{aligned}$$

6.5 GE-5
$$Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{L_2R_1R_3g_ms + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_3\right) + s\left(L_2R_1g_m + L_2\right)}$$

Parameters:

$$Q: \frac{C_2\sqrt{\frac{1}{C_2L_2}}(R_1R_2g_m+R_1+R_2+R_3)}{R_1g_m+1}$$
 wo: $\sqrt{\frac{1}{C_2L_2}}$ bandwidth: $\frac{R_1g_m+1}{C_2(R_1R_2g_m+R_1+R_2+R_3)}$ K-LP: $\frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3}$ K-HP: $\frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3}$ K-BP: $\frac{R_1R_3g_m}{R_1g_m+1}$ 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
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_3\right) + s\left(C_2R_1R_2 + C_2R_2R_3\right)}$$

Q:
$$\frac{L_2\sqrt{\frac{1}{C_2L_2}}(R_1R_2g_m+R_1+R_2+R_3)}{R_2(R_1+R_3)}$$
 wo:
$$\sqrt{\frac{1}{C_2L_2}}$$
 bandwidth:
$$\frac{R_2(R_1+R_3)}{L_2(R_1R_2g_m+R_1+R_2+R_3)}$$

$$\begin{aligned} & \text{K-LP: } \frac{R_1 R_3 (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_3} \\ & \text{K-HP: } \frac{R_1 R_3 (R_2 g_m + 1)}{R_1 R_2 g_m + R_1 + R_2 + R_3} \\ & \text{K-BP: } \frac{R_1 R_3}{R_1 + R_3} \\ & \text{Qz: } \frac{L_2 \sqrt{\frac{1}{C_2} L_2} (R_2 g_m + 1)}{R_2} \\ & \text{Wz: } \sqrt{\frac{1}{C_2 L_2}} \end{aligned}$$

6.7 GE-7
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s^2 \left(C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_3 \right) + s \left(C_1 R_1 R_2 R_3 g_m + C_1 R_1 R_3 \right)}{R_2 g_m + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_3 \right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q: } \frac{L_1\sqrt{\frac{1}{C_1L_1}}(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ & \text{wo: } \sqrt{\frac{1}{C_1L_1}} \\ & \text{bandwidth: } \frac{R_1R_2g_m+R_1+R_2+R_3}{L_1(R_2g_m+1)} \\ & \text{K-LP: } R_3 \\ & \text{K-HP: } R_3 \\ & \text{K-BP: } \frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ & \text{Qz: } \frac{L_1\sqrt{\frac{1}{C_1L_1}}}{R_1} \\ & \text{Wz: } \sqrt{\frac{1}{C_1L_1}} \end{aligned}$$

6.8 GE-8
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^2 \left(C_1 L_1 R_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3\right)}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_1 L_1 R_2 + C_1 L_1 R_3\right) + s \left(L_1 R_2 g_m + L_1\right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1\sqrt{\frac{1}{C_1L_1}}(R_1R_2g_m + R_1 + R_2 + R_3)}{R_2g_m + 1} \\ & \text{wo:} \ \sqrt{\frac{1}{C_1L_1}} \\ & \text{bandwidth:} \ \frac{R_2g_m + 1}{C_1(R_1R_2g_m + R_1 + R_2 + R_3)} \\ & \text{K-LP:} \ \frac{R_1R_3(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_3} \\ & \text{K-HP:} \ \frac{R_1R_3(R_2g_m + 1)}{R_1R_2g_m + R_1 + R_2 + R_3} \\ & \text{K-BP:} \ R_3 \\ & \text{Qz:} \ C_1R_1\sqrt{\frac{1}{C_1L_1}} \\ & \text{Wz:} \ \sqrt{\frac{1}{C_1L_1}} \end{aligned}$$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2 R_1 R_3 s + R_1 R_3 g_m}{C_2 C_3 R_1 R_3 s^2 + R_1 g_m + s \left(C_2 R_1 + C_2 R_3 + C_3 R_1 R_3 g_m + C_3 R_3\right) + 1}$$

Q:
$$\frac{C_2C_3R_1R_3\sqrt{\frac{R_1g_m+1}{C_2C_3R_1R_3}}}{C_2R_1+C_2R_3+C_3R_1R_3g_m+C_3R_3}$$

Wo:
$$\sqrt{\frac{R_1 g_m + 1}{C_2 C_3 R_1 R_3}}$$

bandwidth: $\frac{C_2R_1+C_2R_3+C_3R_1R_3g_m+C_3R_3}{C_2C_3R_1R_3}$

K-LP: $\frac{R_1 R_3 g_m}{R_1 g_m + 1}$ K-HP: 0

K-BP: $\frac{C_2R_1R_3}{C_2R_1+C_2R_3+C_3R_1R_3g_m+C_3R_3}$

Qz: 0 Wz: None

8.2 INVALID-NUMER-2 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{1}{C_3s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_1 R_2 s + R_1 R_2 g_m + R_1}{C_2 C_3 R_1 R_2 s^2 + s \left(C_2 R_2 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2\right) + 1}$$

Parameters:

Q: $\frac{C_2C_3R_1R_2\sqrt{\frac{1}{C_2C_3R_1R_2}}}{C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2}$

wo: $\sqrt{\frac{1}{C_2C_3R_1R_2}}$ bandwidth: $\frac{C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2}{C_2C_3R_1R_2}$ K-LP: $R_1\left(R_2g_m+1\right)$

K-HP: 0

K-BP: $\frac{C_2R_1R_2}{C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2}$

Qz: 0 Wz: None

8.3 INVALID-NUMER-3 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3}{C_2C_3R_1R_2R_3s^2 + R_1R_2g_m + R_1 + R_2 + R_3 + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_2R_3g_m + C_3R_1R_3 + C_3R_2R_3\right)}$$

Parameters:

Q: $\frac{C_2C_3R_1R_2R_3\sqrt{\frac{R_1R_2g_m+R_1+R_2+R_3}{C_2C_3R_1R_2R_3}}}{C_2R_1R_2+C_2R_2R_3+C_3R_1R_2R_3g_m+C_3R_1R_3+C_3R_2R_3}$

wo: $\sqrt{\frac{R_1R_2g_m + R_1 + R_2 + R_3}{C_2C_3R_1R_2R_3}}$ bandwidth: $\frac{C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_2R_3g_m + C_3R_1R_3 + C_3R_2R_3}{C_2C_3R_1R_2R_3}$

K-LP: $\frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3}$ K-HP: 0

K-BP: $\frac{C_2R_1R_2R_3}{C_2R_1R_2+C_2R_2R_3+C_3R_1R_2R_3g_m+C_3R_1R_3+C_3R_2R_3}$ Qz: 0

Wz: None

8.4 INVALID-NUMER-4 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_3 g_m + s \left(C_2 R_1 R_2 R_3 g_m + C_2 R_1 R_3\right)}{R_1 g_m + s^2 \left(C_2 C_3 R_1 R_2 R_3 g_m + C_2 C_3 R_1 R_3 + C_2 C_3 R_2 R_3\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_3 + C_3 R_1 R_3 g_m + C_3 R_3\right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_2C_3R_3\sqrt{\frac{R_{1}g_m+1}{C_2C_3R_3(R_{1}R_{2}g_m+R_{1}+R_{2})}}(R_1R_2g_m+R_1+R_2)}{C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_3+C_3R_1R_3g_m+C_3R_3} \\ & \text{wo:} \ \sqrt{\frac{R_{1}g_m+1}{C_2C_3R_3(R_1R_2g_m+R_1+R_2)}} \\ & \text{bandwidth:} \ \frac{C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_3+C_3R_1R_3g_m+C_3R_3}{C_2C_3R_3(R_1R_2g_m+R_1+R_2)} \\ & \text{K-I.P:} \ \frac{R_1R_3g_m}{C_2C_3R_3g_m} \end{aligned}$$

K-LP: $\frac{R_1R_3g_m}{R_1g_m+1}$ K-HP: 0

K-III: 0 $\frac{C_2R_1R_3(R_2g_m+1)}{C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_3+C_3R_1R_3g_m+C_3R_3}$

Qz: 0 Wz: None

8.5 INVALID-NUMER-5 $Z(s) = \left(L_1 s, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^2 \left(C_3 L_1 R_2 g_m + C_3 L_1 \right) + s \left(C_3 R_2 + C_3 R_3 \right) + 1}$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{L_1\sqrt{\frac{1}{C_3L_1(R_2g_m+1)}}(R_2g_m+1)}{R_2+R_3} \\ \text{wo:} \ \sqrt{\frac{1}{C_3L_1(R_2g_m+1)}} \\ \text{bandwidth:} \ \frac{R_2+R_3}{L_1(R_2g_m+1)} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ R_3 \\ \text{K-BP:} \ \frac{L_1(R_2g_m+1)}{C_3(R_2+R_3)} \\ \text{Qz:} \ C_3R_3\sqrt{\frac{1}{C_3L_1(R_2g_m+1)}} \\ \text{Wz:} \ \text{None} \end{array}$$

8.6 INVALID-NUMER-6 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_2 L_1 s^2 + s \left(C_2 R_3 + L_1 g_m\right) + 1}$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_2L_1\sqrt{\frac{1}{C_2L_1}}}{C_2R_3+L_1g_m} \\ \text{wo:} \ \sqrt{\frac{1}{C_2L_1}} \\ \text{bandwidth:} \ \frac{C_2R_3+L_1g_m}{C_2L_1} \\ \text{K-LP:} \ 0 \\ \text{K-HP:} \ R_3 \\ \text{K-BP:} \ \frac{L_1R_3g_m}{C_2R_3+L_1g_m} \\ \text{Qz:} \ \frac{C_2\sqrt{\frac{1}{C_2L_1}}}{g_m} \\ \text{Wz:} \ \text{None} \end{array}$$

8.7 INVALID-NUMER-7 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2 L_1 s + L_1 g_m}{C_2 C_3 L_1 s^2 + C_2 + C_3 L_1 g_m s + C_3}$

Parameters:

Q:
$$\frac{C_2\sqrt{\frac{C_2+C_3}{C_2C_3L_1}}}{g_m}$$
 wo: $\sqrt{\frac{C_2+C_3}{C_2C_3L_1}}$ bandwidth: $\frac{g_m}{C_2}$ K-LP: $\frac{L_1g_m}{C_2+C_3}$ K-HP: 0 K-BP: $\frac{C_2}{C_3g_m}$ Qz: 0 Wz: None

8.8 INVALID-NUMER-8 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2 L_1 R_2 R_3 s^2 + s \left(L_1 R_2 R_3 g_m + L_1 R_3\right)}{C_2 L_1 R_2 s^2 + R_2 + R_3 + s \left(C_2 R_2 R_3 + L_1 R_2 g_m + L_1\right)}$

$$\begin{array}{l} \text{Q: } \frac{C_2L_1R_2\sqrt{\frac{R_2+R_3}{C_2L_1R_2}}}{C_2R_2R_3+L_1R_2g_m+L_1} \\ \text{wo: } \sqrt{\frac{R_2+R_3}{C_2L_1R_2}} \\ \text{bandwidth: } \frac{C_2R_2R_3+L_1R_2g_m+L_1}{C_2L_1R_2} \\ \text{K-LP: 0} \\ \text{K-HP: } R_3 \\ \text{K-BP: } \frac{L_1R_3(R_2g_m+1)}{C_2R_2R_3+L_1R_2g_m+L_1} \\ \text{Qz: } \frac{C_2R_2\sqrt{\frac{R_2+R_3}{C_2L_1R_2}}}{R_2g_m+1} \\ \text{Wz: None} \end{array}$$

8.9 INVALID-NUMER-9 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_1 R_3 g_m s + s^2 \left(C_2 L_1 R_2 R_3 g_m + C_2 L_1 R_3 \right)}{s^2 \left(C_2 L_1 R_2 g_m + C_2 L_1 \right) + s \left(C_2 R_2 + C_2 R_3 + L_1 g_m \right) + 1}$$

Parameters:

$$\begin{array}{l} \mathbf{Q} \colon \frac{C_2L_1\sqrt{\frac{1}{C_2L_1(R_2g_m+1)}}(R_2g_m+1)}{C_2R_2+C_2R_3+L_1g_m} \\ \mathbf{wo} \colon \sqrt{\frac{1}{C_2L_1(R_2g_m+1)}} \\ \mathbf{bandwidth} \colon \frac{C_2R_2+C_2R_3+L_1g_m}{C_2L_1(R_2g_m+1)} \\ \mathbf{K}\text{-LP} \colon \mathbf{0} \\ \mathbf{K}\text{-HP} \colon R_3 \\ \mathbf{K}\text{-BP} \colon \frac{L_1R_3g_m}{C_2R_2+C_2R_3+L_1g_m} \\ \mathbf{Qz} \colon \frac{C_2\sqrt{\frac{1}{C_2L_1(R_2g_m+1)}}(R_2g_m+1)}{g_m} \\ \mathbf{Wz} \colon \mathbf{None} \end{array}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(L_1 s, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_1 g_m + s \left(C_2 L_1 R_2 g_m + C_2 L_1 \right)}{C_2 + C_3 + s^2 \left(C_2 C_3 L_1 R_2 g_m + C_2 C_3 L_1 \right) + s \left(C_2 C_3 R_2 + C_3 L_1 g_m \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_2L_1\sqrt{\frac{C_2+C_3}{C_2C_3L_1(R_2g_m+1)}}(R_2g_m+1)}{C_2R_2+L_1g_m}(R_2g_m+1)} \\ \text{wo:} \ \sqrt{\frac{C_2+C_3}{C_2C_3L_1(R_2g_m+1)}} \\ \text{bandwidth:} \ \frac{C_2R_2+L_1g_m}{C_2L_1(R_2g_m+1)} \\ \text{K-LP:} \ \frac{L_1g_m}{C_2+C_3} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2L_1(R_2g_m+1)}{C_3(C_2R_2+L_1g_m)} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.11 INVALID-NUMER-11 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_3 s + R_3 g_m}{C_1 C_2 R_3 s^2 + g_m + s (C_1 + C_2)}$$

Q:
$$\frac{C_{1}C_{2}R_{3}\sqrt{\frac{g_{m}}{C_{1}C_{2}R_{3}}}}{\frac{C_{1}+C_{2}}{C_{1}C_{2}R_{3}}}$$
 wo:
$$\sqrt{\frac{g_{m}}{C_{1}C_{2}R_{3}}}$$
 bandwidth:
$$\frac{C_{1}+C_{2}}{C_{1}C_{2}R_{3}}$$
 K-LP: R_{3} K-HP: 0 K-BP:
$$\frac{C_{2}R_{3}}{C_{1}+C_{2}}$$

8.12 INVALID-NUMER-12 $Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_3 s + R_3 g_m}{g_m + s^2 \left(C_1 C_2 R_3 + C_1 C_3 R_3 + C_2 C_3 R_3\right) + s \left(C_1 + C_2 + C_3 R_3 g_m\right)}$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{R_3\sqrt{\frac{g_m}{R_3(C_1C_2+C_1C_3+C_2C_3)}}(C_1C_2+C_1C_3+C_2C_3)}{C_1+C_2+C_3R_3g_m} \\ \text{wo:} \ \sqrt{\frac{g_m}{R_3(C_1C_2+C_1C_3+C_2C_3)}} \\ \text{bandwidth:} \ \frac{C_1+C_2+C_3R_3g_m}{R_3(C_1C_2+C_1C_3+C_2C_3)} \\ \text{K-LP:} \ R_3 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_3}{C_1+C_2+C_3R_3g_m} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.13 INVALID-NUMER-13 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2 R_2 R_3 s + R_2 R_3 g_m + R_3}{C_1 C_2 R_2 R_3 s^2 + R_2 g_m + s \left(C_1 R_2 + C_1 R_3 + C_2 R_2\right) + 1}$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_2R_3\sqrt{\frac{R_2g_m+1}{C_1C_2R_2R_3}}}{C_1R_2+C_1R_3+C_2R_2} \\ \text{wo:} \ \sqrt{\frac{R_2g_m+1}{C_1C_2R_2R_3}} \\ \text{bandwidth:} \ \frac{C_1R_2+C_1R_3+C_2R_2}{C_1C_2R_2R_3} \\ \text{K-LP:} \ R_3 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_2R_3}{C_1R_2+C_1R_3+C_2R_2} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.14 INVALID-NUMER-14 $Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2R_2R_3s + R_2R_3g_m + R_3}{R_2g_m + s^2\left(C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_2C_3R_2R_3\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + 1}$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{R_2R_3\sqrt{\frac{R_2g_m+1}{R_2R_3(C_1C_2+C_1C_3+C_2C_3)}}(C_1C_2+C_1C_3+C_2C_3)}{C_1R_2+C_1R_3+C_2R_2+C_3R_2R_3g_m+C_3R_3} \\ \text{wo:} \ \sqrt{\frac{R_2g_m+1}{R_2R_3(C_1C_2+C_1C_3+C_2C_3)}} \\ \text{bandwidth:} \ \frac{C_1R_2+C_1R_3+C_2R_2+C_3R_2R_3g_m+C_3R_3}{R_2R_3(C_1C_2+C_1C_3+C_2C_3)} \\ \text{K-LP:} \ R_3 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_2R_3}{C_1R_2+C_1R_3+C_2R_2+C_3R_2R_3g_m+C_3R_3} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.15 INVALID-NUMER-15 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_3 g_m + s \left(C_2 R_2 R_3 g_m + C_2 R_3 \right)}{g_m + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_3 \right) + s \left(C_1 + C_2 R_2 g_m + C_2 \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1C_2\sqrt{\frac{g_m}{C_1C_2(R_2+R_3)}}(R_2+R_3)}{C_1+C_2R_2g_m+C_2} \\ \text{wo:} \ \sqrt{\frac{g_m}{C_1C_2(R_2+R_3)}} \\ \text{bandwidth:} \ \frac{C_1+C_2R_2g_m+C_2}{C_1C_2(R_2+R_3)} \\ \text{K-LP:} \ R_3 \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_3(R_2g_m+1)}{C_1+C_2R_2g_m+C_2} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.16 INVALID-NUMER-16 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s \left(C_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3 \right)}{s^2 \left(C_1 C_3 R_1 R_2 + C_1 C_3 R_1 R_3 \right) + s \left(C_1 R_1 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 + C_3 R_3 \right) + 1}$$

Parameters:

Q:
$$\frac{C_1C_3R_1\sqrt{\frac{1}{C_1C_3R_1(R_2+R_3)}}(R_2+R_3)}{C_1R_1+C_3R_1R_2g_m+C_3R_1+C_3R_2+C_3R_3}$$
 wo:
$$\sqrt{\frac{1}{C_1C_3R_1(R_2+R_3)}}$$
 bandwidth:
$$\frac{C_1R_1+C_3R_1R_2g_m+C_3R_1+C_3R_2+C_3R_3}{C_1C_3R_1(R_2+R_3)}$$
 K-LP:
$$R_1\left(R_2g_m+1\right)$$
 K-HP:
$$0$$
 K-BP:
$$\frac{C_3R_1R_3(R_2g_m+1)}{C_1R_1+C_3R_1R_2g_m+C_3R_1+C_3R_2+C_3R_3}$$
 Qz:
$$0$$
 Wz: None

8.17 INVALID-NUMER-17 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{1}{C_2s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_1 R_3 s + R_1 R_3 g_m}{C_1 C_2 R_1 R_3 s^2 + R_1 g_m + s \left(C_1 R_1 + C_2 R_1 + C_2 R_3\right) + 1}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_1R_3\sqrt{\frac{R_1g_m+1}{C_1C_2R_1R_3}}}{C_1R_1+C_2R_1+C_2R_3} \\ \text{wo:} \ \sqrt{\frac{R_1g_m+1}{C_1C_2R_1R_3}} \\ \text{bandwidth:} \ \frac{C_1R_1+C_2R_1+C_2R_3}{C_1C_2R_1R_3} \\ \text{K-LP:} \ \frac{R_1R_3g_m}{R_1g_m+1} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_3}{C_1R_1+C_2R_1+C_2R_3} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.18 INVALID-NUMER-18
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2R_1R_3s + R_1R_3g_m}{R_1g_m + s^2\left(C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_2C_3R_1R_3\right) + s\left(C_1R_1 + C_2R_1 + C_2R_3 + C_3R_1R_3g_m + C_3R_3\right) + 1}$$

$$\mathbf{Q}\colon \frac{R_1R_3\sqrt{\frac{R_1g_m+1}{R_1R_3(C_1C_2+C_1C_3+C_2C_3)}}(C_1C_2+C_1C_3+C_2C_3)}{C_1R_1+C_2R_1+C_2R_3+C_3R_1R_3g_m+C_3R_3}$$

```
wo: \sqrt{\frac{R_1g_m+1}{R_1R_3(C_1C_2+C_1C_3+C_2C_3)}} bandwidth: \frac{C_1R_1+C_2R_1+C_2R_3+C_3R_1R_3g_m+C_3R_3}{R_1R_3(C_1C_2+C_1C_3+C_2C_3)} K-LP: \frac{R_1R_3g_m}{R_1g_m+1} K-HP: 0 K-BP: \frac{C_2R_1R_3}{C_1R_1+C_2R_1+C_2R_3+C_3R_1R_3g_m+C_3R_3} Qz: 0 Wz: None
```

8.19 INVALID-NUMER-19 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3}{C_1C_2R_1R_2R_3s^2 + R_1R_2g_m + R_1 + R_2 + R_3 + s\left(C_1R_1R_2 + C_1R_1R_3 + C_2R_1R_2 + C_2R_2R_3\right)}$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_1R_2R_3\sqrt{\frac{R_1R_2g_m+R_1+R_2+R_3}{C_1C_2R_1R_2R_3}}}{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3} \\ \text{wo:} \ \sqrt{\frac{R_1R_2g_m+R_1+R_2+R_3}{C_1C_2R_1R_2R_3}} \\ \text{bandwidth:} \ \frac{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3}{C_1C_2R_1R_2R_3} \\ \text{K-LP:} \ \frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_2R_3}{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$

8.20 INVALID-NUMER-20 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_1 R_2 s + R_1 R_2 g_m + R_1}{s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_3 R_1 R_2 + C_2 C_3 R_1 R_2\right) + s \left(C_1 R_1 + C_2 R_2 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2\right) + 1}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{R_1R_2\sqrt{\frac{1}{R_1R_2(C_1C_2+C_1C_3+C_2C_3)}}(C_1C_2+C_1C_3+C_2C_3)}{C_1R_1+C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2} \\ \text{wo:} \ \sqrt{\frac{1}{R_1R_2(C_1C_2+C_1C_3+C_2C_3)}} \\ \text{bandwidth:} \ \frac{C_1R_1+C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2}{R_1R_2(C_1C_2+C_1C_3+C_2C_3)} \\ \text{K-LP:} \ R_1 \left(R_2g_m+1\right) \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2R_1R_2}{C_1R_1+C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.21 INVALID-NUMER-21 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3}{R_1R_2g_m + R_1 + R_2 + R_3 + s^2\left(C_1C_2R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_2C_3R_1R_2R_3\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_2R_3g_m + C_3R_1R_3 + C_3R_2R_3\right)}$$

Q:
$$\frac{R_1R_2R_3\sqrt{\frac{R_1R_2g_m+R_1+R_2+R_3}{R_1R_2R_3(C_1C_2+C_1C_3+C_2C_3)}}(C_1C_2+C_1C_3+C_2C_3)}{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3+C_3R_1R_2R_3g_m+C_3R_1R_3+C_3R_2R_3}$$
 wo:
$$\sqrt{\frac{R_1R_2g_m+R_1+R_2+R_3}{R_1R_2R_3(C_1C_2+C_1C_3+C_2C_3)}}$$
 bandwidth:
$$\frac{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3+C_3R_1R_2R_3g_m+C_3R_1R_3+C_3R_2R_3}{R_1R_2R_3(C_1C_2+C_1C_3+C_2C_3)}$$
 K-LP:
$$\frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3}$$
 K-HP:
$$0$$
 K-BP:
$$\frac{C_2R_1R_2R_3}{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3+C_3R_1R_2R_3g_m+C_3R_1R_3+C_3R_2R_3}{C_1R_1R_2+C_1R_1R_3+C_2R_1R_2+C_2R_2R_3+C_3R_1R_2R_3g_m+C_3R_1R_3+C_3R_2R_3}$$
 Qz:
$$0$$
 Wz: None

8.22 INVALID-NUMER-22 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_3 g_m + s \left(C_2 R_1 R_2 R_3 g_m + C_2 R_1 R_3\right)}{R_1 g_m + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_2 R_1 R_3\right) + s \left(C_1 R_1 + C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_3\right) + 1}$$

Parameters:

 $\begin{array}{l} \text{Q:} \ \frac{C_1C_2R_1\sqrt{\frac{R_1g_m+1}{C_1C_2R_1(R_2+R_3)}}(R_2+R_3)}{C_1R_1+C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_3}\\ \text{wo:} \ \sqrt{\frac{R_1g_m+1}{C_1C_2R_1(R_2+R_3)}}\\ \text{bandwidth:} \ \frac{C_1R_1+C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_3}{C_1C_2R_1(R_2+R_3)}\\ \text{K-LP:} \ \frac{R_1R_3g_m}{R_1g_m+1}\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{C_2R_1R_3(R_2g_m+1)}{C_1R_1+C_2R_1R_2g_m+C_2R_1+C_2R_2+C_2R_3}\\ \text{Qz:} \ 0 \end{array}$

8.23 INVALID-NUMER-23 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s \left(C_1 R_1 R_2 R_3 g_m + C_1 R_1 R_3\right)}{R_2 g_m + s^2 \left(C_1 C_3 R_1 R_2 R_3 g_m + C_1 C_3 R_1 R_3 + C_1 C_3 R_2 R_3\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_3 + C_3 R_2 R_3 g_m + C_3 R_3\right) + 1}$$

Parameters:

Wz: None

 $\begin{array}{l} \text{Q:} \ \frac{C_1C_3R_3\sqrt{\frac{R_2g_m+1}{C_1C_3R_3(R_1R_2g_m+R_1+R_2)}}(R_1R_2g_m+R_1+R_2)}{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_3+C_3R_2R_3g_m+C_3R_3}\\ \text{wo:} \ \sqrt{\frac{R_2g_m+1}{C_1C_3R_3(R_1R_2g_m+R_1+R_2)}}\\ \text{bandwidth:} \ \frac{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_3+C_3R_2R_3g_m+C_3R_3}{C_1C_3R_3(R_1R_2g_m+R_1+R_2)}\\ \text{K-LP:} \ R_3\\ \text{K-HP:} \ 0\\ \text{K-BP:} \ \frac{C_1R_1R_3(R_2g_m+1)}{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_3+C_3R_2R_3g_m+C_3R_3}\\ \text{Qz:} \ 0\\ \text{Wz:} \ \text{None} \end{array}$

8.24 INVALID-NUMER-24 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 L_1 s + L_1 g_m}{C_2 + C_3 L_1 g_m s + C_3 + s^2 \left(C_1 C_2 L_1 + C_1 C_3 L_1 + C_2 C_3 L_1 \right)}$$

Parameters:

$$\begin{array}{l} \text{Q:} \ \frac{\sqrt{\frac{C_2+C_3}{L_1(C_1C_2+C_1C_3+C_2C_3)}}(C_1C_2+C_1C_3+C_2C_3)}{C_3g_m} \\ \text{wo:} \ \sqrt{\frac{C_2+C_3}{L_1(C_1C_2+C_1C_3+C_2C_3)}} \\ \text{bandwidth:} \ \frac{C_3g_m}{C_1C_2+C_1C_3+C_2C_3} \\ \text{K-LP:} \ \frac{L_1g_m}{C_2+C_3} \\ \text{K-HP:} \ 0 \\ \text{K-BP:} \ \frac{C_2}{C_3g_m} \\ \text{Qz:} \ 0 \\ \text{Wz:} \ \text{None} \end{array}$$

8.25 INVALID-NUMER-25
$$Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_1R_1s + L_1R_1g_m}{C_2R_1 + C_3R_1 + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1\right) + s\left(C_2L_1 + C_3L_1R_1g_m + C_3L_1\right)}$$

Q:
$$\frac{R_1\sqrt{\frac{C_2+C_3}{L_1(C_1C_2+C_1C_3+C_2C_3)}}(C_1C_2+C_1C_3+C_2C_3)}{C_2+C_3R_1g_m+C_3}$$

wo:
$$\sqrt{\frac{C_2 + C_3}{L_1(C_1C_2 + C_1C_3 + C_2C_3)}}$$

bandwidth: $\frac{C_2 + C_3R_1g_m + C_3}{R_1(C_1C_2 + C_1C_3 + C_2C_3)}$

K-LP: $\frac{L_1g_m}{C_2+C_3}$ K-HP: 0

K-BP: $\frac{C_2 R_1}{C_2 + C_3 R_1 g_m + C_3}$ Qz: 0

Qz: 0 Wz: None

9 INVALID-WZ

9.1 INVALID-WZ-1
$$Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3R_1R_2R_3s^2 + R_1R_2g_m + R_1 + s\left(C_2R_1R_2 + C_3R_1R_2R_3g_m + C_3R_1R_3\right)}{s^2\left(C_2C_3R_1R_2 + C_2C_3R_2R_3\right) + s\left(C_2R_2 + C_3R_1R_2g_m + C_3R_1 + C_3R_2 + C_3R_3\right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_2C_3R_2\sqrt{\frac{1}{C_2C_3R_2(R_1+R_3)}}(R_1+R_3)}{C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2+C_3R_3} \\ & \text{wo:} \ \sqrt{\frac{1}{C_2C_3R_2(R_1+R_3)}} \\ & \text{bandwidth:} \ \frac{C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2+C_3R_3}{C_2C_3R_2(R_1+R_3)} \\ & \text{K-LP:} \ R_1\left(R_2g_m+1\right) \\ & \text{K-HP:} \ \frac{R_1R_3}{R_1+R_3} \\ & \text{K-BP:} \ \frac{R_1(C_2R_2+C_3R_2R_3g_m+C_3R_3)}{C_2R_2+C_3R_1R_2g_m+C_3R_1+C_3R_2+C_3R_3} \\ & \text{Qz:} \ \frac{C_2C_3R_2R_3\sqrt{\frac{1}{C_2C_3R_2(R_1+R_3)}}}{C_2R_2+C_3R_2R_3g_m+C_3R_3} \\ & \text{Wz:} \ \sqrt{\frac{R_2g_m+1}{C_2C_3R_2R_3}} \end{aligned}$$

9.2 INVALID-WZ-2 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 C_3 L_1 R_3 s^2 + L_1 g_m + s \left(C_2 L_1 + C_3 L_1 R_3 g_m \right)}{C_2 C_3 L_1 s^2 + C_2 + C_3 + s \left(C_2 C_3 R_3 + C_3 L_1 g_m \right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_2L_1\sqrt{\frac{C_2+C_3}{C_2C_3L_1}}}{C_2R_3+L_1g_m} \\ & \text{wo:} \ \sqrt{\frac{C_2+C_3}{C_2C_3L_1}} \\ & \text{bandwidth:} \ \frac{C_2R_3+L_1g_m}{C_2L_1} \\ & \text{K-LP:} \ \frac{L_1g_m}{C_2+C_3} \\ & \text{K-HP:} \ R_3 \\ & \text{K-BP:} \ \frac{L_1(C_2+C_3R_3g_m)}{C_3(C_2R_3+L_1g_m)} \\ & \text{Qz:} \ \frac{C_2C_3R_3\sqrt{\frac{C_2+C_3}{C_2C_3L_1}}}{C_2+C_3R_3g_m} \\ & \text{Wz:} \ \sqrt{\frac{g_m}{C_2C_3R_3}} \end{aligned}$$

9.3 INVALID-WZ-3
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{L_1 g_m + s^2 \left(C_2 C_3 L_1 R_2 R_3 g_m + C_2 C_3 L_1 R_3 \right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_3 L_1 R_3 g_m \right)}{C_2 + C_3 + s^2 \left(C_2 C_3 L_1 R_2 g_m + C_2 C_3 L_1 \right) + s \left(C_2 C_3 R_2 + C_2 C_3 R_3 + C_3 L_1 g_m \right)}$$

$$\begin{aligned} &\mathbf{Q} \colon \frac{C_2 L_1 \sqrt{\frac{C_2 + C_3}{C_2 C_3 L_1 (R_2 g_m + 1)}} (R_2 g_m + 1)}{C_2 R_2 + C_2 R_3 + L_1 g_m} \\ &\mathbf{wo:} \ \sqrt{\frac{C_2 + C_3}{C_2 C_3 L_1 (R_2 g_m + 1)}} \end{aligned}$$

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bandwidth: \frac{C_2R_2+C_2R_3+L_1g_m}{C_2L_1(R_2g_m+1)} K-LP: \frac{L_1g_m}{C_2+C_3} K-HP: R_3 K-BP: \frac{L_1(C_2R_2g_m+C_2+C_3R_3g_m)}{C_3(C_2R_2+C_2R_3+L_1g_m)} Qz: \frac{C_2C_3R_3\sqrt{\frac{C_2+C_3}{C_2C_3L_1(R_2g_m+1)}}(R_2g_m+1)}{C_2R_2g_m+C_2+C_3R_3g_m} Wz: \sqrt{\frac{g_m}{C_2C_3R_3(R_2g_m+1)}}
```

9.4 INVALID-WZ-4 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1 C_2 R_1 R_3 s^2 + R_3 g_m + s \left(C_1 R_1 R_3 g_m + C_2 R_3\right)}{g_m + s^2 \left(C_1 C_2 R_1 + C_1 C_2 R_3\right) + s \left(C_1 R_1 g_m + C_1 + C_2\right)}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1C_2\sqrt{\frac{g_m}{C_1C_2(R_1+R_3)}}(R_1+R_3)}{C_1R_1g_m+C_1+C_2} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_1C_2(R_1+R_3)}} \\ & \text{bandwidth:} \ \frac{C_1R_1g_m+C_1+C_2}{C_1C_2(R_1+R_3)} \\ & \text{K-LP:} \ R_3 \\ & \text{K-HP:} \ \frac{R_1R_3}{R_1+R_3} \\ & \text{K-BP:} \ \frac{R_3(C_1R_1g_m+C_2)}{C_1R_1g_m+C_1+C_2} \\ & \text{Qz:} \ \frac{C_1C_2R_1\sqrt{\frac{g_m}{C_1C_2(R_1+R_3)}}}{C_1R_1g_m+C_2} \\ & \text{Wz:} \ \sqrt{\frac{g_m}{C_1C_2R_1}} \end{aligned}$$

9.5 INVALID-WZ-5 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2R_1R_2R_3s^2 + R_2R_3g_m + R_3 + s\left(C_1R_1R_2R_3g_m + C_1R_1R_3 + C_2R_2R_3\right)}{R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_1R_3 + C_2R_2\right) + 1}$$

Parameters:

$$\begin{aligned} & \text{Q:} \ \frac{C_1C_2R_2\sqrt{\frac{R_2g_m+1}{C_1C_2R_2(R_1+R_3)}}(R_1+R_3)}{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_3+C_2R_2} \\ & \text{wo:} \ \sqrt{\frac{R_2g_m+1}{C_1C_2R_2(R_1+R_3)}} \\ & \text{bandwidth:} \ \frac{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_3+C_2R_2}{C_1C_2R_2(R_1+R_3)} \\ & \text{K-LP:} \ R_3 \\ & \text{K-HP:} \ \frac{R_1R_3}{R_1+R_3} \\ & \text{K-BP:} \ \frac{R_3(C_1R_1R_2g_m+C_1R_1+C_2R_2)}{C_1R_1R_2g_m+C_1R_1+C_1R_2+C_1R_3+C_2R_2} \\ & \text{Qz:} \ \frac{C_1C_2R_1R_2\sqrt{\frac{R_2g_m+1}{C_1C_2R_2(R_1+R_3)}}}{C_1R_1R_2g_m+C_1R_1+C_2R_2} \\ & \text{Wz:} \ \sqrt{\frac{R_2g_m+1}{C_1C_2R_1R_2}} \end{aligned}$$

9.6 INVALID-WZ-6 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty\right)$

$$H(s) = \frac{R_3 g_m + s^2 \left(C_1 C_2 R_1 R_2 R_3 g_m + C_1 C_2 R_1 R_3 \right) + s \left(C_1 R_1 R_3 g_m + C_2 R_2 R_3 g_m + C_2 R_3 \right)}{g_m + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 C_2 R_2 + C_1 C_2 R_3 \right) + s \left(C_1 R_1 g_m + C_1 + C_2 R_2 g_m + C_2 \right)}$$

$$\begin{aligned} & \text{Q:} \ \frac{C_1C_2\sqrt{\frac{g_m}{C_1C_2(R_1R_2g_m+R_1+R_2+R_3)}}(R_1R_2g_m+R_1+R_2+R_3)}{C_1R_1g_m+C_1+C_2R_2g_m+C_2} \\ & \text{wo:} \ \sqrt{\frac{g_m}{C_1C_2(R_1R_2g_m+R_1+R_2+R_3)}} \\ & \text{bandwidth:} \ \frac{C_1R_1g_m+C_1+C_2R_2g_m+C_2}{C_1C_2(R_1R_2g_m+R_1+R_2+R_3)} \\ & \text{K-LP:} \ R_3 \\ & \text{K-HP:} \ \frac{R_1R_3(R_2g_m+1)}{R_1R_2g_m+R_1+R_2+R_3} \\ & \text{K-BP:} \ \frac{R_3(C_1R_1g_m+C_2R_2g_m+C_2)}{C_1R_1g_m+C_1+C_2R_2g_m+C_2} \end{aligned}$$

Qz:
$$\frac{C_1C_2R_1\sqrt{\frac{g_m}{C_1C_2(R_1R_2g_m+R_1+R_2+R_3)}(R_2g_m+1)}}{C_1R_1g_m+C_2R_2g_m+C_2}$$
Wz:
$$\sqrt{\frac{g_m}{C_1C_2R_1(R_2g_m+1)}}$$

10 INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (R_1, R_2, R_3, \infty, \infty, \infty)$

$$H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3}{R_1 R_2 g_m + R_1 + R_2 + R_3}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(R_1, R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1}{s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 \right) + 1}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s \left(C_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3 + C_3 R_2 R_3\right)}$$

10.4 INVALID-ORDER-4 $Z(s) = \left(R_1, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s \left(C_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3 \right)}{s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 + C_3 R_3 \right) + 1}$$

10.5 INVALID-ORDER-5 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_1 R_3 s + R_1 R_3 g_m}{R_1 g_m + s \left(C_2 R_1 + C_2 R_3\right) + 1}$$

10.6 INVALID-ORDER-6 $Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_1 s + R_1 g_m}{C_2 C_3 R_1 s^2 + s \left(C_2 + C_3 R_1 g_m + C_3\right)}$$

10.7 INVALID-ORDER-7 $Z(s) = \left(R_1, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 C_3 R_1 R_3 s^2 + R_1 g_m + s (C_2 R_1 + C_3 R_1 R_3 g_m)}{s^2 (C_2 C_3 R_1 + C_2 C_3 R_3) + s (C_2 + C_3 R_1 g_m + C_3)}$$

10.8 INVALID-ORDER-8 $Z(s) = \left(R_1, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 C_3 L_3 R_1 s^3 + C_2 R_1 s + C_3 L_3 R_1 g_m s^2 + R_1 g_m}{C_2 C_3 L_3 s^3 + C_2 C_3 R_1 s^2 + s \left(C_2 + C_3 R_1 g_m + C_3\right)}$$

10.9 INVALID-ORDER-9
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2 L_3 R_1 s^2 + L_3 R_1 g_m s}{C_2 C_3 L_3 R_1 s^3 + C_2 R_1 s + R_1 g_m + s^2 \left(C_2 L_3 + C_3 L_3 R_1 g_m + C_3 L_3 \right) + 1}$$

10.10 INVALID-ORDER-10
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_1s^3 + R_1g_m + s^2\left(C_2C_3R_1R_3 + C_3L_3R_1g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{C_2C_3L_3s^3 + s^2\left(C_2C_3R_1 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.11 INVALID-ORDER-11
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_3R_1R_3s^2 + L_3R_1R_3g_ms}{C_2C_3L_3R_1R_3s^3 + R_1R_3g_m + R_3 + s^2\left(C_2L_3R_1 + C_2L_3R_3 + C_3L_3R_1R_3g_m + C_3L_3R_3\right) + s\left(C_2R_1R_3 + L_3R_1g_m + L_3\right)}$$

10.12 INVALID-ORDER-12
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_1R_3s^3 + R_1R_3g_m + s^2\left(C_2L_3R_1 + C_3L_3R_1R_3g_m\right) + s\left(C_2R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^3\left(C_2C_3L_3R_1 + C_2C_3L_3R_3\right) + s^2\left(C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_2R_1 + C_2R_3\right) + 1}$$

10.13 INVALID-ORDER-13
$$Z(s) = \left(R_1, \frac{1}{C_2 s}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_1R_3s^3 + C_2R_1R_3s + C_3L_3R_1R_3g_ms^2 + R_1R_3g_m}{R_1g_m + s^3\left(C_2C_3L_3R_1 + C_2C_3L_3R_3\right) + s^2\left(C_2C_3R_1R_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_2R_1 + C_2R_3 + C_3R_1R_3g_m + C_3R_3\right) + 1}$$

10.14 INVALID-ORDER-14 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_1 R_2 R_3 s + R_1 R_2 R_3 g_m + R_1 R_3}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s \left(C_2 R_1 R_2 + C_2 R_2 R_3\right)}$$

10.15 INVALID-ORDER-15 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_3R_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_3L_3R_1R_2g_m + C_3L_3R_1\right)}{C_2C_3L_3R_2s^3 + s^2\left(C_2C_3R_1R_2 + C_3L_3\right) + s\left(C_2R_2 + C_3R_1R_2g_m + C_3R_1 + C_3R_2\right) + 1}$$

10.16 INVALID-ORDER-16 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_3R_1R_2s^2 + s\left(L_3R_1R_2g_m + L_3R_1\right)}{C_2C_3L_3R_1R_2s^3 + R_1R_2g_m + R_1 + R_2 + s^2\left(C_2L_3R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_1\right) + s\left(C_2R_1R_2 + L_3\right)}$$

10.17 INVALID-ORDER-17 $Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_3R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2C_3R_1R_2R_3 + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s\left(C_2R_1R_2 + C_3R_1R_2R_3g_m + C_3R_1R_3\right)}{C_2C_3L_3R_2s^3 + s^2\left(C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_3L_3\right) + s\left(C_2R_2 + C_3R_1R_2g_m + C_3R_1 + C_3R_2 + C_3R_3\right) + 1}$$

10.18 INVALID-ORDER-18 $Z(s) = \left(R_1, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_3R_1R_2R_3s^2 + s\left(L_3R_1R_2R_3g_m + L_3R_1R_3\right)}{C_2C_3L_3R_1R_2R_3s^3 + R_1R_2R_3g_m + R_1R_3 + R_2R_3 + s^2\left(C_2L_3R_1R_2 + C_2L_3R_2R_3 + C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3 + C_3L_3R_2R_3\right) + s\left(C_2R_1R_2R_3 + L_3R_1R_2g_m + L_3R_1 + L_3R_2 + L_3R_3\right)}$$

10.19 INVALID-ORDER-19
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$$

$$C_2C_2L_2R_1R_2R_2S_3^3 + R_1R_2R_2S_3 + R_1R_2R_2S_3 + R_1R_2S_3 + S_2^2(C_2L_2R_1R_2 + C_2L_2R_1R_2R_2 + C_2L_2R_1R_2 + C_2L_2R_1R_$$

$$H(s) = \frac{C_2C_3L_3R_1R_2R_3s^3 + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_3R_1R_2 + C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3\right) + s\left(C_2R_1R_2R_3 + L_3R_1R_2g_m + L_3R_1\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_2C_3L_3R_1R_2 + C_2C_3L_3R_2R_3\right) + s^2\left(C_2L_3R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_2 + C_3L_3R_3\right) + s\left(C_2R_1R_2R_3 + L_3R_1R_2g_m + L_3R_1\right)}$$

10.20 INVALID-ORDER-20
$$Z(s) = \left(R_1, \frac{R_2}{C_2R_2s+1}, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_1R_2R_3s^3 + C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_2C_3L_3R_1R_2 + C_2C_3L_3R_2R_3\right) + s^2\left(C_2C_3R_1R_2R_3 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_3\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_2R_3g_m + C_3R_1R_2R_3g_m + C_3R_3R_3\right)}$$

10.21 INVALID-ORDER-21 $Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{R_1 R_3 g_m + s \left(C_2 R_1 R_2 R_3 g_m + C_2 R_1 R_3\right)}{R_1 g_m + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_3\right) + 1}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{R_1 g_m + s \left(C_2 R_1 R_2 g_m + C_2 R_1 \right)}{s^2 \left(C_2 C_3 R_1 R_2 g_m + C_2 C_3 R_1 + C_2 C_3 R_2 \right) + s \left(C_2 + C_3 R_1 g_m + C_3 \right)}$$

10.23 INVALID-ORDER-23 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 g_m + s^2 \left(C_2 C_3 R_1 R_2 R_3 g_m + C_2 C_3 R_1 R_3 \right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_3 R_1 R_3 g_m \right)}{s^2 \left(C_2 C_3 R_1 R_2 g_m + C_2 C_3 R_1 + C_2 C_3 R_2 + C_2 C_3 R_3 \right) + s \left(C_2 + C_3 R_1 g_m + C_3 \right)}$$

10.24 INVALID-ORDER-24 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_3 L_3 R_1 g_m s^2 + R_1 g_m + s^3 \left(C_2 C_3 L_3 R_1 R_2 g_m + C_2 C_3 L_3 R_1 \right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 \right)}{C_2 C_3 L_3 s^3 + s^2 \left(C_2 C_3 R_1 R_2 g_m + C_2 C_3 R_1 + C_2 C_3 R_2 \right) + s \left(C_2 + C_3 R_1 g_m + C_3 \right)}$$

10.25 INVALID-ORDER-25 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_3 R_1 g_m s + s^2 \left(C_2 L_3 R_1 R_2 g_m + C_2 L_3 R_1\right)}{R_1 g_m + s^3 \left(C_2 C_3 L_3 R_1 R_2 g_m + C_2 C_3 L_3 R_1 + C_2 C_3 L_3 R_2\right) + s^2 \left(C_2 L_3 + C_3 L_3 R_1 g_m + C_3 L_3\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2\right) + 1}$$

10.26 INVALID-ORDER-26 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1g_m + s^3\left(C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1\right) + s^2\left(C_2C_3R_1R_2R_3g_m + C_2C_3R_1R_3 + C_3L_3R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_3R_1R_3g_m\right)}{C_2C_3L_3s^3 + s^2\left(C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_2 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.27 INVALID-ORDER-27 $Z(s) = \left(R_1, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_3R_1R_3g_ms + s^2\left(C_2L_3R_1R_2R_3g_m + C_2L_3R_1R_3\right)}{R_1R_3g_m + R_3 + s^3\left(C_2C_3L_3R_1R_2R_3g_m + C_2C_3L_3R_1R_3 + C_2C_3L_3R_1R_2g_m + C_2L_3R_1 + C_2L_3R_2 + C_2L_3R_3 + C_3L_3R_3\right) + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3 + C_2R_2R_3 + L_3R_1g_m + L_3\right)}$$

10.28 INVALID-ORDER-28 $Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{R_1 R_3 g_m + s^3 \left(C_2 C_3 L_3 R_1 R_2 R_3 g_m + C_2 C_3 L_3 R_1 R_3\right) + s^2 \left(C_2 L_3 R_1 R_2 g_m + C_2 L_3 R_1 + C_3 L_3 R_1 R_3 g_m\right) + s \left(C_2 R_1 R_2 R_3 g_m + C_2 R_1 R_3 + L_3 R_1 g_m\right)}{R_1 g_m + s^3 \left(C_2 C_3 L_3 R_1 R_2 g_m + C_2 C_3 L_3 R_1 + C_2 C_3 L_3 R_2 + C_2 C_3 L_3 R_3\right) + s^2 \left(C_2 L_3 + C_3 L_3 R_1 g_m + C_3 L_3\right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_3\right) + 1}$$

$$\textbf{10.29} \quad \textbf{INVALID-ORDER-29} \ Z(s) = \left(R_1, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1 \right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty \right)$$

$$H(s) = \frac{C_3 L_3 R_1 R_3 g_m s^2 + R_1 R_3 g_m + s^3 \left(C_2 C_3 L_3 R_1 R_2 R_3 g_m + C_2 C_3 L_3 R_1 R_3 \right) + s \left(C_2 R_1 R_2 R_3 g_m + C_2 R_1 R_3 \right) }{R_1 g_m + s^3 \left(C_2 C_3 L_3 R_1 R_2 g_m + C_2 C_3 L_3 R_3 \right) + s^2 \left(C_2 C_3 R_1 R_2 R_3 g_m + C_2 C_3 R_2 R_3 + C_3 L_3 R_1 g_m + C_3 L_3 \right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2 + C_2 R_3 + C_3 R_1 R_3 g_m + C_3 R_3 \right) + 1 }$$

10.30 INVALID-ORDER-30 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 L_2 R_1 g_m s^2 + C_2 R_1 s + R_1 g_m}{C_2 C_3 R_1 s^2 + s^3 \left(C_2 C_3 L_2 R_1 g_m + C_2 C_3 L_2 \right) + s \left(C_2 + C_3 R_1 g_m + C_3 \right)}$$

10.31 INVALID-ORDER-31 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2R_1R_3g_ms^2 + C_2R_1R_3s + R_1R_3g_m}{R_1g_m + s^3\left(C_2C_3L_2R_1R_3g_m + C_2C_3L_2R_3\right) + s^2\left(C_2C_3R_1R_3 + C_2L_2R_1g_m + C_2L_2\right) + s\left(C_2R_1 + C_2R_3 + C_3R_1R_3g_m + C_3R_3\right) + 1}$$

10.32 INVALID-ORDER-32 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2R_1R_3g_ms^3 + R_1g_m + s^2\left(C_2C_3R_1R_3 + C_2L_2R_1g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{s^3\left(C_2C_3L_2R_1g_m + C_2C_3L_2\right) + s^2\left(C_2C_3R_1 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.33 INVALID-ORDER-33 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2L_3R_1g_ms^4 + C_2C_3L_3R_1s^3 + C_2R_1s + R_1g_m + s^2\left(C_2L_2R_1g_m + C_3L_3R_1g_m\right)}{C_2C_3R_1s^2 + s^3\left(C_2C_3L_2R_1g_m + C_2C_3L_2 + C_2C_3L_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.34 INVALID-ORDER-34 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2L_3R_1g_ms^3 + C_2L_3R_1s^2 + L_3R_1g_ms}{C_2C_3L_3R_1s^3 + C_2R_1s + R_1g_m + s^4\left(C_2C_3L_2L_3R_1g_m + C_2C_3L_2L_3\right) + s^2\left(C_2L_2R_1g_m + C_2L_2 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + 1}$$

10.35 INVALID-ORDER-35 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2L_3R_1g_ms^4 + R_1g_m + s^3\left(C_2C_3L_2R_1R_3g_m + C_2C_3L_3R_1\right) + s^2\left(C_2C_3R_1R_3 + C_2L_2R_1g_m + C_3L_3R_1g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{s^3\left(C_2C_3L_2R_1g_m + C_2C_3L_2 + C_2C_3L_3\right) + s^2\left(C_2C_3R_1 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.36 INVALID-ORDER-36 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2L_3R_1R_3g_ms^3 + C_2L_3R_1R_3g^2 + L_3R_1R_3g_ms}{R_1R_3g_m + R_3 + s^4\left(C_2C_3L_2L_3R_1R_3g_m + C_2C_3L_2L_3R_3\right) + s^3\left(C_2C_3L_3R_1R_3 + C_2L_2L_3R_1g_m + C_2L_2L_3\right) + s^2\left(C_2L_2R_1R_3g_m + C_2L_2R_3 + C_2L_3R_1 + C_2L_3R_3 + C_3L_3R_1R_3g_m + C_3L_3R_3\right) + s\left(C_2R_1R_3 + L_3R_1g_m + C_3L_3R_3\right) + s\left(C_2R_1R_3 + L_3R_3R_3\right) + s\left(C_2R_1R_3 + L_3R_3$$

10.37 INVALID-ORDER-37 $Z(s) = \left(R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2L_3R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_2C_3L_3R_1R_3 + C_2L_2L_3R_1g_m\right) + s^2\left(C_2L_2R_1R_3g_m + C_2L_3R_1 + C_3L_3R_1R_3g_m\right) + s\left(C_2R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^4\left(C_2C_3L_2L_3R_1g_m + C_2C_3L_2L_3\right) + s^3\left(C_2C_3L_3R_1 + C_2C_3L_3R_3\right) + s^2\left(C_2L_2R_1g_m + C_2L_2 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_2R_1R_3 + L_3R_1g_m\right)}$$

10.39 INVALID-ORDER-39 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2R_1g_ms^2 + R_1g_m + s\left(C_2R_1R_2g_m + C_2R_1\right)}{s^3\left(C_2C_3L_2R_1g_m + C_2C_3L_2\right) + s^2\left(C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_2\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.40 INVALID-ORDER-40 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2R_1R_3g_ms^2 + R_1R_3g_m + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3\right)}{R_1g_m + s^3\left(C_2C_3L_2R_1R_3g_m + C_2C_3L_2R_3\right) + s^2\left(C_2C_3R_1R_2R_3g_m + C_2C_3R_1R_3 + C_2C_3R_2R_3 + C_2L_2R_1g_m + C_2L_2\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_3 + C_3R_1R_3g_m + C_3R_3\right) + 1}$$

10.41 INVALID-ORDER-41 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2R_1R_3g_ms^3 + R_1g_m + s^2\left(C_2C_3R_1R_2R_3g_m + C_2C_3R_1R_3 + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_3R_1R_3g_m\right)}{s^3\left(C_2C_3L_2R_1g_m + C_2C_3L_2\right) + s^2\left(C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_2 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.42 INVALID-ORDER-42 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2L_3R_1g_ms^4 + R_1g_m + s^3\left(C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1\right) + s^2\left(C_2L_2R_1g_m + C_3L_3R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1\right)}{s^3\left(C_2C_3L_2R_1g_m + C_2C_3L_2 + C_2C_3L_3\right) + s^2\left(C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_2\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.43 INVALID-ORDER-43 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2R_1g_ms^3 + L_3R_1g_ms + s^2\left(C_2L_3R_1R_2g_m + C_2L_3R_1\right)}{R_1g_m + s^4\left(C_2C_3L_2L_3R_1g_m + C_2C_3L_2L_3\right) + s^3\left(C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1 + C_2C_3L_3R_2\right) + s^2\left(C_2L_2R_1g_m + C_2L_2 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_2R_2\right) + 1}$$

10.44 INVALID-ORDER-44 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2L_3R_1g_ms^4 + R_1g_m + s^3\left(C_2C_3L_2R_1R_3g_m + C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1\right) + s^2\left(C_2C_3R_1R_2R_3g_m + C_2C_3R_1R_3 + C_2L_2R_1g_m + C_3L_3R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_2g_m + C_2R_1R_3g_m\right)}{s^3\left(C_2C_3L_2R_1g_m + C_2C_3L_2 + C_2C_3L_3\right) + s^2\left(C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_2 + C_2C_3R_3\right) + s\left(C_2+C_3R_1g_m + C_3L_3R_1g_m\right)} + s\left(C_2R_1R_2g_m + C_2R_1R_2g_m + C_2R_1R_2g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_2g_m\right) +$$

10.45 INVALID-ORDER-45 $Z(s) = \left(R_1, L_2s + R_2 + \frac{1}{C_2s}, \frac{L_3R_3s}{C_3L_3R_3s^2 + L_3s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2R_1R_3g_ms^3 + L_3R_1R_3g_ms + s^2\left(C_2L_3R_1R_2R_3g_m + C_2L_3R_1R_3\right)}{R_1R_3g_m + R_3 + s^4\left(C_2C_3L_2L_3R_1R_3g_m + C_2C_3L_2L_3R_3\right) + s^3\left(C_2C_3L_3R_1R_2R_3g_m + C_2L_3R_1R_3g_m + C_2L_2R_3R_3g_m + C_2L_3R_1R_2g_m + C_2L_3$$

10.46 INVALID-ORDER-46 $Z(s) = \left(R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2L_3R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_2C_3L_3R_1R_2R_3g_m + C_2C_3L_3R_1R_3 + C_2L_2L_3R_1g_m\right) + s^2\left(C_2L_2R_1R_3g_m + C_2L_3R_1R_2g_m + C_2L_3R_1 + C_3L_3R_1R_3g_m\right) + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^4\left(C_2C_3L_2L_3R_1g_m + C_2C_3L_2L_3\right) + s^3\left(C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1 + C_2C_3L_3R_3\right) + s^2\left(C_2L_2R_1g_m + C_2L_2 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_2R_1R_2g_m + C_2R_1R_3 + L_3R_1g_m\right)}$$

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10.47 INVALID-ORDER-47 Z(s) = \left(R_1, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)
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 $H(s) = \frac{C_2C_3L_2L_3R_1R_3g_m + s^3\left(C_2C_3L_3R_1R_2R_3g_m + C_2C_3L_3R_1R_3g_m + C_3L_3R_1R_3g_m + s^2\left(C_2L_2R_1R_3g_m + C_3L_3R_1R_3g_m + s^2\left(C_2L_2R_1R_3g_m + C_2L_2R_1R_3g_m + C_2R_1R_3g_m + C$

10.48 INVALID-ORDER-48 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{1}{C_3s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_2 R_1 g_m s + R_1 R_2 g_m + R_1 + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1\right)}{s^3 \left(C_2 C_3 L_2 R_1 R_2 g_m + C_2 C_3 L_2 R_1 + C_2 C_3 L_2 R_2\right) + s^2 \left(C_2 L_2 + C_3 L_2 R_1 g_m + C_3 L_2\right) + s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2\right) + 1}$$

10.49 INVALID-ORDER-49 $Z(s) = \left(R_1, \frac{L_{2}s}{C_2L_2s^2+1} + R_2, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_2R_1R_3g_ms + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_2C_3L_2R_1R_2R_3g_m + C_2C_3L_2R_1R_3 + C_2C_3L_2R_1R_3 + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_3 + C_3L_2R_1R_3g_m + C_3L_2R_3\right) + s\left(C_3R_1R_2R_3g_m + C_3R_1R_3 + C_3R_2R_3 + L_2R_1g_m + L_2\right)}$$

10.50 INVALID-ORDER-50 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_3 L_2 R_1 R_2 R_3 g_m + C_2 C_3 L_2 R_1 R_3\right) + s^2 \left(C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 + C_3 L_2 R_1 R_3 g_m\right) + s \left(C_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3 + L_2 R_1 g_m\right)}{s^3 \left(C_2 C_3 L_2 R_1 R_2 g_m + C_2 C_3 L_2 R_1 + C_2 C_3 L_2 R_2 + C_2 C_3 L_2 R_3\right) + s^2 \left(C_2 L_2 + C_3 L_2 R_1 g_m + C_3 L_2\right) + s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 + C_3 R_3\right) + 1}$$

10.51 INVALID-ORDER-51 $Z(s) = \left(R_1, \ \frac{L_{2s}}{C_2L_2s^2+1} + R_2, \ L_3s + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_3L_2L_3R_1g_ms^3 + L_2R_1g_ms + R_1R_2g_m + R_1 + s^4\left(C_2C_3L_2L_3R_1R_2g_m + C_2C_3L_2L_3R_1\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1\right)}{C_2C_3L_2L_3s^4 + s^3\left(C_2C_3L_2R_1R_2g_m + C_2C_3L_2R_1 + C_2C_3L_2R_2\right) + s^2\left(C_2L_2 + C_3L_2R_1g_m + C_3L_2 + C_3L_3\right) + s\left(C_3R_1R_2g_m + C_3R_1R_2g_m + C_3R_1 + C_3R_2\right) + 1}$$

10.52 INVALID-ORDER-52 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_2L_3R_1g_ms^2 + s^3\left(C_2L_2L_3R_1R_2g_m + C_2L_2L_3R_1\right) + s\left(L_3R_1R_2g_m + L_3R_1\right)}{R_1R_2g_m + R_1 + R_2 + s^4\left(C_2C_3L_2L_3R_1R_2g_m + C_2C_3L_2L_3R_1 + C_2C_3L_2L_3R_1\right) + s^3\left(C_2L_2L_3R_1g_m + C_3L_2L_3\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s\left(L_3R_1R_2g_m + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s\left(L_3R_1R_2g_m + C_3L_3R_1R_2g_m + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s\left(L_3R_1R_2g_m + C_3L_3R_1\right)$$

10.53 INVALID-ORDER-53 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_2 C_3 L_2 L_3 R_1\right) + s^3 \left(C_2 C_3 L_2 R_1 R_2 R_3 g_m + C_2 C_3 L_2 R_1 R_3 + C_3 L_2 R_1 R_3 g_m + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1 R_2 g_m + C_3 L_3 R_1 R_2 g_m + C_3 L_2 R_1 R_3 g_m + C_3 L_2 R_1 R_2 R_2 g_m + C_3 L_2 R_1 R_2 g_m + C_3 L_2 R_2 R_2 g_m + C_3 L_2 R_2 R_2 g_m + C_3 L_2 R_3 R_2 g_m + C$$

10.54 INVALID-ORDER-54 $Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_2L_3R_1R_3g_ms^2 + s^3\left(C_2L_2L_3R_1R_2R_3g_m + C_2L_2L_3R_1R_3\right) + s\left(L_3R_1R_2R_3g_m + L_3R_1R_3\right)}{R_1R_2R_3g_m + R_1R_3 + R_2R_3 + s^4\left(C_2C_3L_2L_3R_1R_2R_3g_m + C_2L_2L_3R_1 + C_2L_2L_3R_1 + C_2L_2L_3R_3 + C_3L_2L_3R_1R_3g_m + C_3L_2L_3R_1R_2R_3g_m + C_2L_2R_1R_3 + C_2L_2R_1R_3 + C_3L_2L_3R_1R_3g_m + C_3L_2L_3R_1R_3g_m + C_3L_2R_3g_m + C_3L_3R_3g_m + C_3L_3R_3$$

10.55 INVALID-ORDER-55
$$Z(s) = \left(R_1, \frac{L_{2s}}{C_2L_2s^2+1} + R_2, \frac{L_{3s}}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1R_2R_3g_m + R_1R_3 + s^4\left(C_2C_3L_2L_3R_1R_2R_3g_m + C_2C_3L_2L_3R_1R_2g_m + C_2L_2L_3R_1R_2g_m + C_2L_2L_3R_1 + C_3L_2L_3R_1R_3g_m + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3 + C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3 + L_2L_3R_1g_m \right) + s\left(L_2R_1R_3g_m + L_3R_1R_2g_m + L_3R_1R_2g_m + L_3R_1R_2g_m + C_3L_3R_1R_3g_m + C_3L_3R_1R_2g_m + C_3L_3R_1R_2$$

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10.56 INVALID-ORDER-56 Z(s) = \left(R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
H(s) = \frac{C_3L_2L_3R_1R_3g_ms^3 + L_2R_1R_3g_ms + R_1R_2R_3g_m + R_1R_3 + s^4\left(C_2C_3L_2L_3R_1R_2R_3g_m + C_2C_3L_2L_3R_1R_3\right) + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3 + C_3L_3R_1R_2R_3g_m + C_2L_2R_1R_3 + C_3L_2R_1R_3\right) + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3 + C_2L_2R_1R_3 + C_3L_2R_1R_3 + C_3L_2R_1R_
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}, \frac{1}{C_3s}, \infty, \infty, \infty\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_3L_2R_1R_2g_m + C_2C_3L_2R_1 + C_2C_3L_2R_2\right) + s^2\left(C_2C_3R_1R_2 + C_2L_2\right) + s\left(C_2R_2 + C_3R_1R_2g_m + C_3R_1 + C_3R_2\right) + 1}
10.58 INVALID-ORDER-58 Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
                                                                                             H(s) = \frac{C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_2C_3L_2R_1R_2R_3g_m + C_2C_3L_2R_1R_3 + C_2C_3L_2R_1R_3\right) + s^2\left(C_2C_3R_1R_2R_3 + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_3\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + C_3R_1R_2R_3g_m + C_3R_1R_3 + C_3R_2R_3\right)}
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}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                        H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_3 L_2 R_1 R_2 R_3 g_m + C_2 C_3 L_2 R_1 R_3\right) + s^2 \left(C_2 C_3 R_1 R_2 R_3 + 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_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3\right)}{s^3 \left(C_2 C_3 L_2 R_1 R_2 g_m + C_2 C_3 L_2 R_1 + C_2 C_3 L_2 R_2 + C_2 C_3 L_2 R_3\right) + s^2 \left(C_2 C_3 R_1 R_2 + C_2 C_3 R_2 R_3 + C_2 L_2\right) + s \left(C_2 R_2 + C_3 R_1 R_2 g_m + C_3 
10.60 INVALID-ORDER-60 Z(s) = \left(R_1, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                   H(s) = \frac{C_2C_3L_3R_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^4\left(C_2C_3L_2L_3R_1R_2g_m + C_2C_3L_2L_3R_1\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1\right)}{C_2C_3L_2L_3s^4 + s^3\left(C_2C_3L_2R_1R_2g_m + C_2C_3L_2R_1 + C_2C_3L_2R_1 + C_2C_3L_2R_1\right) + s^2\left(C_2C_3R_1R_2 + C_2L_2 + C_3L_3\right) + s\left(C_2R_2 + C_3R_1R_2g_m + C_3R_1R_2g_m + C_3R_1\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3L_2R_1 + C_3L_3R_1\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3L_2R_1 + C_3L_3R_1\right) + s^2\left(C_2C_3R_1R_2 + C_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2\right
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}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)
                                                                                     H(s) = \frac{C_2L_3R_1R_2s^2 + s^3\left(C_2L_2L_3R_1R_2g_m + C_2L_2L_3R_1\right) + s\left(L_3R_1R_2g_m + L_3R_1\right)}{R_1R_2g_m + R_1 + R_2 + s^4\left(C_2C_3L_2L_3R_1R_2g_m + C_2C_3L_2L_3R_1 + C_2C_3L_2L_3R_2\right) + s^3\left(C_2C_3L_3R_1R_2 + C_2L_2L_3\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_2 + C_2L_3R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_1\right) + s\left(C_2R_1R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_1\right) + s\left(C_2R_1R_2g_m + C_3L_3R_1 + C_3L_3R_1 + C_3L_3R_1\right) + s\left(C_3R_1R_2g_m + C_3R_3R_1\right) + s\left(C_3R_1R_2g_m + C_3R_3R_1\right) + s\left(C_3R_1R_2g_m + C_3R_3R_1\right) + s\left(C_3R_1R_2g_m + C_3R_3R_1\right) + s\left(C_3R_1R_1R_2g_m + C_3R_2R_1\right) + s\left(C_3R_1R_1R_2g_m + C_3R_2R_1\right) + s\left(C_3R_1R_1R_2g_m
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}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                 H(s) = \frac{R_1R_2g_m + R_1 + s^4\left(C_2C_3L_2L_3R_1R_2g_m + C_2C_3L_2L_3R_1\right) + s^3\left(C_2C_3L_2R_1R_2R_3g_m + C_2C_3L_2R_1R_3 + C_2C_3L_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2R_3 + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s\left(C_2R_1R_2 + C_3R_1R_2g_m + C_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3R_1R_2 + C_2C_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3R_1R_2 + C_2C_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3R_1R_2 + C_2C_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2 + C_2C_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2\right) + s^2\left(C_2C_3R
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}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
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10.64 INVALID-ORDER-64 $Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$

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

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

10.65 INVALID-ORDER-65
$$Z(s) = \left(R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_2C_3L_3R_1R_2R_3s^3 + C_2R_1R_2R_3g_m + R_1R_3 + s^4\left(C_2C_3L_2L_3R_1R_2R_3g_m + C_2C_3L_2L_3R_1R_3\right) + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3 + C_3L_3R_1R_2R_3g_m + C_2L_2R_1R_3 + C_3L_3R_1R_2R_3g_m + C_2L_2R_1R_3 + C_3L_3R_1R_2R_3g_m + C_2L_3R_1R_2R_3g_m + C_2L_3R_1R_3g_m + C_2L_3R_1R$

10.66 INVALID-ORDER-66 $Z(s) = (L_1 s, R_2, R_3, \infty, \infty, \infty)$

$$H(s) = \frac{s (L_1 R_2 R_3 g_m + L_1 R_3)}{R_2 + R_3 + s (L_1 R_2 g_m + L_1)}$$

10.67 INVALID-ORDER-67 $Z(s) = \left(L_1 s, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{C_3 R_2 s + s^2 \left(C_3 L_1 R_2 g_m + C_3 L_1 + C_3 L_3 \right) + 1}$$

10.68 INVALID-ORDER-68 $Z(s) = \left(L_1 s, \ R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{s^2 \left(L_1 L_3 R_2 g_m + L_1 L_3 \right)}{C_3 L_3 R_2 s^2 + R_2 + s^3 \left(C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 \right) + s \left(L_1 R_2 g_m + L_1 + L_3 \right)}$$

10.69 INVALID-ORDER-69 $Z(s) = \left(L_1 s, \ R_2, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 \right) + s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^2 \left(C_3 L_1 R_2 g_m + C_3 L_1 + C_3 L_3 \right) + s \left(C_3 R_2 + C_3 R_3 \right) + 1}$$

10.70 INVALID-ORDER-70 $Z(s) = \left(L_1 s, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^2 \left(L_1 L_3 R_2 R_3 g_m + L_1 L_3 R_3 \right)}{R_2 R_3 + s^3 \left(C_3 L_1 L_3 R_2 R_3 g_m + C_3 L_1 L_3 R_3 \right) + s^2 \left(C_3 L_3 R_2 R_3 + L_1 L_3 R_2 g_m + L_1 L_3 \right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3 + L_3 R_2 + L_3 R_3 \right)}$$

10.71 INVALID-ORDER-71 $Z(s) = \left(L_1 s, \ R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_2 R_3 g_m + C_3 L_1 L_3 R_3\right) + s^2 \left(L_1 L_3 R_2 g_m + L_1 L_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3\right)}{R_2 + R_3 + s^3 \left(C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3\right) + s^2 \left(C_3 L_3 R_2 + C_3 L_3 R_3\right) + s \left(L_1 R_2 g_m + L_1 + L_3\right)}$$

10.72 INVALID-ORDER-72 $Z(s) = \left(L_1 s, R_2, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_2 R_3 g_m + C_3 L_1 L_3 R_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3\right)}{R_2 + R_3 + s^3 \left(C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3\right) + s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 + C_3 L_3 R_2 + C_3 L_3 R_3\right) + s \left(C_3 R_2 R_3 + L_1 R_2 g_m + L_1\right)}$$

10.73 INVALID-ORDER-73 $Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_2 C_3 L_1 R_3 s^3 + s^2 (C_2 L_1 + C_3 L_1 R_3 g_m) + s (C_2 R_3 + C_3 R_3 + L_1 g_m) + 1}$$

10.74 INVALID-ORDER-74
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2 C_3 L_1 L_3 s^3 + C_2 L_1 s + C_3 L_1 L_3 g_m s^2 + L_1 g_m}{C_2 + C_3 L_1 g_m s + C_3 + s^2 \left(C_2 C_3 L_1 + C_2 C_3 L_3 \right)}$$

10.75 INVALID-ORDER-75
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2 L_1 L_3 s^3 + L_1 L_3 g_m s^2}{C_2 C_3 L_1 L_3 s^4 + C_3 L_1 L_3 g_m s^3 + L_1 g_m s + s^2 \left(C_2 L_1 + C_2 L_3 + C_3 L_3 \right) + 1}$$

10.76 INVALID-ORDER-76
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_3s^3 + L_1g_m + s^2\left(C_2C_3L_1R_3 + C_3L_1L_3g_m\right) + s\left(C_2L_1 + C_3L_1R_3g_m\right)}{C_2 + C_3 + s^2\left(C_2C_3L_1 + C_2C_3L_3\right) + s\left(C_2C_3R_3 + C_3L_1g_m\right)}$$

10.77 INVALID-ORDER-77
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_1L_3R_3s^3 + L_1L_3R_3g_ms^2}{C_2C_3L_1L_3R_3s^4 + R_3 + s^3\left(C_2L_1L_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_2L_1R_3 + C_2L_3R_3 + C_3L_3R_3 + L_1L_3g_m\right) + s\left(L_1R_3g_m + L_3\right)}$$

10.78 INVALID-ORDER-78
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_3R_3s^4 + L_1R_3g_ms + s^3\left(C_2L_1L_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_2L_1R_3 + L_1L_3g_m\right)}{C_2C_3L_1L_3s^4 + s^3\left(C_2C_3L_3R_3 + C_3L_1L_3g_m\right) + s^2\left(C_2L_1 + C_2L_3 + C_3L_3\right) + s\left(C_2R_3 + L_1g_m\right) + 1}$$

10.79 INVALID-ORDER-79
$$Z(s) = \left(L_1 s, \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_3R_3s^4 + C_2L_1R_3s^2 + C_3L_1L_3R_3g_ms^3 + L_1R_3g_ms}{C_2C_3L_1L_3s^4 + s^3\left(C_2C_3L_1R_3 + C_2C_3L_3R_3 + C_3L_1L_3g_m\right) + s^2\left(C_2L_1 + C_3L_1R_3g_m + C_3L_3\right) + s\left(C_2R_3 + C_3R_3 + L_1g_m\right) + 1}$$

10.80 INVALID-ORDER-80 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 L_1 R_2 s^2 + s \left(L_1 R_2 g_m + L_1\right)}{C_2 C_3 L_1 R_2 s^3 + s^2 \left(C_3 L_1 R_2 g_m + C_3 L_1\right) + s \left(C_2 R_2 + C_3 R_2\right) + 1}$$

10.81 INVALID-ORDER-81 $Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_1R_2R_3s^2 + s\left(L_1R_2R_3g_m + L_1R_3\right)}{C_2C_3L_1R_2R_3s^3 + R_2 + R_3 + s^2\left(C_2L_1R_2 + C_3L_1R_2R_3g_m + C_3L_1R_3\right) + s\left(C_2R_2R_3 + C_3R_2R_3 + L_1R_2g_m + L_1\right)}$$

10.82 INVALID-ORDER-82
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_1R_2R_3s^3 + s^2\left(C_2L_1R_2 + C_3L_1R_2R_3g_m + C_3L_1R_3\right) + s\left(L_1R_2g_m + L_1\right)}{C_2C_3L_1R_2s^3 + s^2\left(C_2C_3R_2R_3 + C_3L_1R_2g_m + C_3L_1\right) + s\left(C_2R_2 + C_3R_2 + C_3R_3\right) + 1}$$

10.83 INVALID-ORDER-83
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_3R_2s^4 + C_2L_1R_2s^2 + s^3\left(C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s\left(L_1R_2g_m + L_1\right)}{s^3\left(C_2C_3L_1R_2 + C_2C_3L_3R_2\right) + s^2\left(C_3L_1R_2g_m + C_3L_1 + C_3L_3\right) + s\left(C_2R_2 + C_3R_2\right) + 1}$$

10.84 INVALID-ORDER-84
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_1L_3R_2s^3 + s^2\left(L_1L_3R_2g_m + L_1L_3\right)}{C_2C_3L_1L_3R_2s^4 + R_2 + s^3\left(C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s^2\left(C_2L_1R_2 + C_2L_3R_2 + C_3L_3R_2\right) + s\left(L_1R_2g_m + L_1 + L_3\right)}$$

10.85 INVALID-ORDER-85
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_3R_2s^4 + s^3\left(C_2C_3L_1R_2R_3 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s^2\left(C_2L_1R_2 + C_3L_1R_2R_3g_m + C_3L_1R_3\right) + s\left(L_1R_2g_m + L_1\right)}{s^3\left(C_2C_3L_1R_2 + C_2C_3L_3R_2\right) + s^2\left(C_2C_3R_2R_3 + C_3L_1R_2g_m + C_3L_1 + C_3L_3\right) + s\left(C_2R_2 + C_3R_2 + C_3R_3\right) + 1}$$

10.86 INVALID-ORDER-86
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_1L_3R_2R_3s^3 + s^2\left(L_1L_3R_2R_3g_m + L_1L_3R_3\right)}{C_2C_3L_1L_3R_2R_3s^4 + R_2R_3 + s^3\left(C_2L_1L_3R_2 + C_3L_1L_3R_2R_3g_m + C_3L_1L_3R_3\right) + s^2\left(C_2L_1R_2R_3 + C_2L_3R_2R_3 + C_3L_3R_2R_3 + L_1L_3R_2g_m + L_1L_3\right) + s\left(L_1R_2R_3g_m + L_1R_3 + L_3R_2 + L_3R_3\right)}$$

10.87 INVALID-ORDER-87
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_3R_2R_3s^4 + s^3\left(C_2L_1L_3R_2 + C_3L_1L_3R_2R_3g_m + C_3L_1L_3R_3\right) + s^2\left(C_2L_1R_2R_3 + L_1L_3R_2g_m + L_1L_3\right) + s\left(L_1R_2R_3g_m + L_1R_3\right)}{C_2C_3L_1L_3R_2s^4 + R_2 + R_3 + s^3\left(C_2C_3L_3R_2R_3 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s^2\left(C_2L_1R_2 + C_2L_3R_2 + C_3L_3R_2 + C_3L_3R_3\right) + s\left(C_2R_2R_3 + L_1R_2g_m + L_1 + L_3\right)}$$

10.88 INVALID-ORDER-88
$$Z(s) = \left(L_1 s, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

10.89 INVALID-ORDER-89 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{L_1 R_3 g_m s + s^2 \left(C_2 L_1 R_2 R_3 g_m + C_2 L_1 R_3\right)}{s^3 \left(C_2 C_3 L_1 R_2 R_3 g_m + C_2 C_3 L_1 R_3\right) + s^2 \left(C_2 C_3 R_2 R_3 + C_2 L_1 R_2 g_m + C_2 L_1 + C_3 L_1 R_3 g_m\right) + s \left(C_2 R_2 + C_2 R_3 + C_3 R_3 + L_1 g_m\right) + 1}$$

10.90 INVALID-ORDER-90 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \right)$

$$H(s) = \frac{C_3 L_1 L_3 g_m s^2 + L_1 g_m + s^3 \left(C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3 \right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 \right)}{C_2 + C_3 + s^2 \left(C_2 C_3 L_1 R_2 g_m + C_2 C_3 L_1 + C_2 C_3 L_3 \right) + s \left(C_2 C_3 R_2 + C_3 L_1 g_m \right)}$$

10.91 INVALID-ORDER-91
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{L_1 L_3 g_m s^2 + s^3 \left(C_2 L_1 L_3 R_2 g_m + C_2 L_1 L_3\right)}{s^4 \left(C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3\right) + s^3 \left(C_2 C_3 L_3 R_2 + C_3 L_1 L_3 g_m\right) + s^2 \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_2 L_3 + C_3 L_3\right) + s \left(C_2 R_2 + L_1 g_m\right) + 1}$$

10.92 INVALID-ORDER-92
$$Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3\right) + s^2 \left(C_2 C_3 L_1 R_2 R_3 g_m + C_2 C_3 L_1 R_3 + C_3 L_1 L_3 g_m\right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_3 L_1 R_3 g_m\right)}{C_2 + C_3 + s^2 \left(C_2 C_3 L_1 R_2 g_m + C_2 C_3 L_1 + C_2 C_3 L_3\right) + s \left(C_2 C_3 R_2 + C_2 C_3 R_3 + C_3 L_1 g_m\right)}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$

10.94 INVALID-ORDER-94 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$

10.95 INVALID-ORDER-95 $Z(s) = \left(L_1 s, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_3L_1L_3R_3g_ms^3 + L_1R_3g_ms + s^4\left(C_2C_3L_1L_3R_2g_m + C_2C_3L_1L_3R_3\right) + s^2\left(C_2L_1R_2R_3g_m + C_2L_1R_3\right)}{s^4\left(C_2C_3L_1L_3R_2g_m + C_2C_3L_1R_3\right) + s^3\left(C_2C_3L_1R_2R_3g_m + C_2C_3L_1R_3 + C_2C_3L_3R_3 + C_2L_1R_2g_m\right) + s^2\left(C_2C_3R_2R_3 + C_2L_1R_2g_m + C_2L_1 + C_3L_1R_3g_m + C_3L_3\right) + s\left(C_2R_2 + C_2R_3 + C_3R_3 + L_1g_m\right) + 1}$$

10.96 INVALID-ORDER-96 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_2 L_1 L_2 R_3 g_m s^3 + C_2 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_2 L_1 L_2 g_m s^3 + s^2 (C_2 L_1 + C_2 L_2) + s (C_2 R_3 + L_1 g_m) + 1}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_2 L_1 L_2 g_m s^2 + C_2 L_1 s + L_1 g_m}{C_2 C_3 L_1 L_2 g_m s^3 + C_2 + C_3 L_1 g_m s + C_3 + s^2 \left(C_2 C_3 L_1 + C_2 C_3 L_2\right)}$$

10.98 INVALID-ORDER-98 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_2L_1L_2R_3g_ms^3 + C_2L_1R_3s^2 + L_1R_3g_ms}{C_2C_3L_1L_2R_3g_ms^4 + s^3\left(C_2C_3L_1R_3 + C_2C_3L_2R_3 + C_2L_1L_2g_m\right) + s^2\left(C_2L_1 + C_2L_2 + C_3L_1R_3g_m\right) + s\left(C_2R_3 + C_3R_3 + L_1g_m\right) + 1}$$

10.99 INVALID-ORDER-99 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_2C_3L_1L_2R_3g_ms^3 + L_1g_m + s^2\left(C_2C_3L_1R_3 + C_2L_1L_2g_m\right) + s\left(C_2L_1 + C_3L_1R_3g_m\right)}{C_2C_3L_1L_2g_ms^3 + C_2 + C_3 + s^2\left(C_2C_3L_1 + C_2C_3L_2\right) + s\left(C_2C_3R_3 + C_3L_1g_m\right)}$$

10.100 INVALID-ORDER-100 $Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_2C_3L_1L_2L_3g_ms^4 + C_2C_3L_1L_3s^3 + C_2L_1s + L_1g_m + s^2\left(C_2L_1L_2g_m + C_3L_1L_3g_m\right)}{C_2C_3L_1L_2g_ms^3 + C_2 + C_3L_1g_ms + C_3 + s^2\left(C_2C_3L_1 + C_2C_3L_2 + C_2C_3L_3\right)}$$

10.101 INVALID-ORDER-101
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2L_1L_2L_3g_ms^4 + C_2L_1L_3s^3 + L_1L_3g_ms^2}{C_2C_3L_1L_2L_3g_ms^5 + L_1g_ms + s^4\left(C_2C_3L_1L_3 + C_2C_3L_2L_3\right) + s^3\left(C_2L_1L_2g_m + C_3L_1L_3g_m\right) + s^2\left(C_2L_1 + C_2L_2 + C_2L_3 + C_3L_3\right) + 1}$$

10.102 INVALID-ORDER-102
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_2L_3g_ms^4 + L_1g_m + s^3\left(C_2C_3L_1L_2R_3g_m + C_2C_3L_1L_3\right) + s^2\left(C_2C_3L_1R_3 + C_2L_1L_2g_m + C_3L_1L_3g_m\right) + s\left(C_2L_1 + C_3L_1R_3g_m\right)}{C_2C_3L_1L_2g_ms^3 + C_2 + C_3 + s^2\left(C_2C_3L_1 + C_2C_3L_2 + C_2C_3L_3\right) + s\left(C_2C_3R_3 + C_3L_1g_m\right)}$$

10.103 INVALID-ORDER-103
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2L_1L_2L_3R_3g_ms^4 + C_2L_1L_3R_3s^3 + L_1L_3R_3g_ms^2}{C_2C_3L_1L_2L_3R_3g_ms^5 + R_3 + s^4\left(C_2C_3L_1L_3R_3 + C_2L_2L_3R_3 + C_2L_1L_2L_3g_m\right) + s^3\left(C_2L_1L_2R_3g_m + C_2L_1L_3 + C_2L_2L_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_2L_1R_3 + C_2L_2R_3 + C_2L_3R_3 + C_3L_3R_3 + L_1L_3g_m\right) + s\left(L_1R_3g_m + L_3\right)}$$

10.104 INVALID-ORDER-104
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_2L_3R_3g_ms^5 + L_1R_3g_ms + s^4\left(C_2C_3L_1L_3R_3 + C_2L_1L_2L_3g_m\right) + s^3\left(C_2L_1L_2R_3g_m + C_2L_1L_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_2L_1R_3 + L_1L_3g_m\right)}{C_2C_3L_1L_2L_3g_ms^5 + s^4\left(C_2C_3L_1L_3 + C_2C_3L_2L_3\right) + s^3\left(C_2C_3L_3R_3 + C_2L_1L_2g_m + C_3L_1L_3g_m\right) + s^2\left(C_2L_1 + C_2L_2 + C_2L_3 + C_3L_3\right) + s\left(C_2R_3 + L_1g_m\right) + 1}$$

10.105 INVALID-ORDER-105
$$Z(s) = \left(L_1 s, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_2L_3R_3g_ms^5 + C_2C_3L_1L_3R_3s^4 + C_2L_1R_3s^2 + L_1R_3g_ms + s^3\left(C_2L_1L_2R_3g_m + C_3L_1L_3R_3g_m\right)}{C_2C_3L_1L_2L_3g_ms^5 + s^4\left(C_2C_3L_1L_2R_3g_m + C_2C_3L_2L_3\right) + s^3\left(C_2C_3L_1R_3 + C_2C_3L_2R_3 + C_2C_3L_2R_3 + C_2L_1L_2g_m + C_3L_1L_3g_m\right) + s^2\left(C_2L_1 + C_2L_2 + C_3L_1R_3g_m + C_3L_3\right) + s\left(C_2R_3 + C_3R_3 + L_1g_m\right) + 1}$$

10.106 INVALID-ORDER-106
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2 L_1 L_2 R_3 g_m s^3 + L_1 R_3 g_m s + s^2 \left(C_2 L_1 R_2 R_3 g_m + C_2 L_1 R_3\right)}{C_2 L_1 L_2 q_m s^3 + s^2 \left(C_2 L_1 R_2 q_m + C_2 L_1 + C_2 L_2\right) + s \left(C_2 R_2 + C_2 R_3 + L_1 q_m\right) + 1}$$

10.107 INVALID-ORDER-107 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_2L_1L_2g_ms^2 + L_1g_m + s\left(C_2L_1R_2g_m + C_2L_1\right)}{C_2C_3L_1L_2g_ms^3 + C_2 + C_3 + s^2\left(C_2C_3L_1R_2g_m + C_2C_3L_1 + C_2C_3L_2\right) + s\left(C_2C_3R_2 + C_3L_1g_m\right)}$$

10.108 INVALID-ORDER-108 $Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_2L_1L_2R_3g_ms^3 + L_1R_3g_ms + s^2\left(C_2L_1R_2R_3g_m + C_2L_1R_3\right)}{C_2C_3L_1L_2R_3g_ms^4 + s^3\left(C_2C_3L_1R_2R_3g_m + C_2C_3L_1R_3 + C_2C_3L_2R_3 + C_2L_1L_2g_m\right) + s^2\left(C_2C_3R_2R_3 + C_2L_1R_2g_m + C_2L_1 + C_2L_2 + C_3L_1R_3g_m\right) + s\left(C_2R_2 + C_2R_3 + C_3R_3 + L_1g_m\right) + 1}$$

10.109 INVALID-ORDER-109
$$Z(s) = \left(L_1 s, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_2R_3g_ms^3 + L_1g_m + s^2\left(C_2C_3L_1R_2R_3g_m + C_2C_3L_1R_3 + C_2L_1L_2g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 + C_3L_1R_3g_m\right)}{C_2C_3L_1L_2g_ms^3 + C_2 + C_3 + s^2\left(C_2C_3L_1R_2g_m + C_2C_3L_1 + C_2C_3L_2\right) + s\left(C_2C_3R_2 + C_2C_3R_3 + C_3L_1g_m\right)}$$

10.110 INVALID-ORDER-110
$$Z(s) = (L, s, L, s + R_s + \frac{1}{C_{12}}, L, s +$$

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

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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, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                              H(s) = \frac{s^4 \left(C_2 C_3 L_1 L_2 R_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3\right) + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_3 L_1 L_2 R_3 g_m\right) + s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 + L_1 L_2 g_m\right) + s \left(L_1 R_2 g_m + L_1\right)}{s^4 \left(C_2 C_3 L_1 L_2 R_2 g_m + C_2 C_3 L_1 L_2\right) + s^3 \left(C_2 C_3 L_2 R_2 + C_2 C_3 L_2 R_3 + C_3 L_1 L_2 g_m\right) + s^2 \left(C_2 L_2 + C_3 L_1 R_2 g_m + C_3 L_1 + C_3 L_2\right) + s \left(C_3 R_2 + C_3 R_3\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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                 H(s) = \frac{C_3L_1L_2L_3g_ms^4 + L_1L_2g_ms^2 + s^5\left(C_2C_3L_1L_2L_3R_2g_m + C_2C_3L_1L_2L_3\right) + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s\left(L_1R_2g_m + L_1\right)}{C_3R_2s + s^4\left(C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2 + C_2C_3L_2L_3\right) + s^3\left(C_2C_3L_2R_2 + C_3L_1L_2g_m\right) + s^2\left(C_2L_2 + C_3L_1R_2g_m + C_3L_1 + C_3L_2 + C_3L_3\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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                               H(s) = \frac{L_{1}L_{2}L_{3}g_{m}s^{3} + s^{4}\left(C_{2}L_{1}L_{2}L_{3}R_{2}g_{m} + C_{2}L_{1}L_{2}L_{3}\right) + s^{2}\left(L_{1}L_{3}R_{2}g_{m} + L_{1}L_{3}\right)}{R_{2} + s^{5}\left(C_{2}C_{3}L_{1}L_{2}L_{3}R_{2}g_{m} + C_{2}C_{3}L_{1}L_{2}L_{3}\right) + s^{4}\left(C_{2}C_{3}L_{2}L_{3}R_{2} + C_{3}L_{1}L_{2}L_{3}g_{m}\right) + s^{3}\left(C_{2}L_{1}L_{2}R_{2}g_{m} + C_{2}L_{1}L_{2} + C_{2}L_{2}L_{3} + C_{3}L_{1}L_{3} + C_{3}L_{2}L_{3}\right) + s^{2}\left(C_{2}L_{2}R_{2} + C_{3}L_{3}R_{2} + L_{1}L_{2}g_{m}\right) + s\left(L_{1}R_{2}g_{m} + L_{1} + L_{2} + L_{3}\right)}{R_{2}}
10.122 INVALID-ORDER-122 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                 H(s) = \frac{s^5 \left(C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 C_3 L_1 L_2 L_3\right) + s^4 \left(C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_3 L_1 L_2 R_3 g_m + C_2 L_1 L_2 R_3 g_m + C_3 L_1 L_2 R_3 g_m + C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3\right) + s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 L_2 R_3 g_m + C_3 L_1 L_2 R_3 g_m + C_3 L_1 L_2 R_3 g_m + C_3 L_1 L_3\right) + s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 L_2 R_3 g_m + C_3
10.123 INVALID-ORDER-123 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
H(s) = \frac{L_1 L_2 L_3 R_3 g_m s^3 + s^4 \left(C_2 L_1 L_2 L_3 R_2 R_3 g_m + C_2 L_1 L_2 L_3 R_3\right) + s^2 \left(L_1 L_3 R_2 R_3 g_m + L_1 L_3 R_3\right)}{R_2 R_3 + s^5 \left(C_2 C_3 L_1 L_2 L_3 R_2 R_3 g_m + C_2 L_1 L_2 L_3 R_3\right) + s^4 \left(C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_2 L_1 L_2 L_3 R_3 g_m + C_2 L_1 L_2 L_3 R_3 g_m + C_2 L_1 L_2 R_3 g_m + C_2 L_2 R_3 g_m + 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                L_1L_2L_3R_3g_ms^3 + s^4\left(C_2L_1L_2L_3R_2R_3g_m + C_2L_1L_2L_3R_3\right) + s^2\left(L_1L_3R_2R_3g_m + L_1L_3R_3\right)
10.124 INVALID-ORDER-124 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_2 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{s^5 \left(C_2 C_3 L_1 L_2 L_3 R_2 R_3 g_m + C_2 C_3 L_1 L_2 L_3 R_3\right) + s^4 \left(C_2 L_1 L_2 L_3 R_2 g_m + C_2 L_1 L_2 L_3 + C_3 L_1 L_2 L_3 R_3 g_m\right) + s^3 \left(C_2 L_1 L_2 R_3 g_m + C_2 L_1 L_2 R_3 g_m + C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_3 g_m\right) + s^2 \left(L_1 L_2 R_3 g_m + L_1 L_3 R_2 g_m + L_1 L_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 L_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 L_3 R
10.125 INVALID-ORDER-125 Z(s) = \left(L_1 s, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_3L_1L_2L_3R_3g_ms^4 + L_1L_2R_3g_ms^2 + s^5\left(C_2C_3L_1L_2L_3R_2g_m + C_2C_3L_1L_2L_3R_3\right) + s^3\left(C_2L_1L_2R_3g_m + C_2L_1L_2R_3 + C_3L_1L_3R_2g_m + C_3L_1L_3R_3\right) + s\left(L_1L_2R_3g_m + L_2L_3R_3g_m + C_2L_3L_2R_3g_m + C_3L_3R_3g_m + C_
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$$\frac{1}{R_2 + R_3 + s^5} \left(C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 C_3 L_1 L_2 L_3 \right) + s^4 \left(C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_2 L_3 R_2 + C_2 C_3 L_2 L_3 R_3 + C_3 L_1 L_2 L_3 g_m \right) + s^3 \left(C_2 C_3 L_2 R_2 R_3 + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_3 L_1 L_2 R_3 g_m + C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 R_3 g_m + C_3 L_3 L_3 R_3 g_m + C_3 L_3 L_3 R_3 g_m + C_3 L_3 L_3$$

10.126 INVALID-ORDER-126
$$Z(s) = \left(L_1 s, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2 L_1 R_2 R_3 s^2 + s^3 \left(C_2 L_1 L_2 R_2 R_3 g_m + C_2 L_1 L_2 R_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3\right)}{R_2 + R_3 + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2\right) + s^2 \left(C_2 L_1 R_2 + C_2 L_2 R_3\right) + s \left(C_2 R_2 R_3 + L_1 R_2 g_m + L_1\right)}$$

$$\begin{aligned} \textbf{10.127} \quad \textbf{INVALID-ORDER-127} \ \ Z(s) &= \left(L_1 s, \ \ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \ \frac{1}{C_3 s}, \ \ \infty, \ \ \infty, \ \ \infty\right) \\ & H(s) &= \frac{C_2 L_1 R_2 s^2 + s^3 \left(C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2\right) + s \left(L_1 R_2 g_m + L_1\right)}{s^4 \left(C_2 C_3 L_1 L_2 R_2 g_m + C_2 C_3 L_1 L_2\right) + s^3 \left(C_2 C_3 L_1 R_2 + C_2 C_3 L_2 R_2\right) + s^2 \left(C_2 L_2 + C_3 L_1 R_2 g_m + C_3 L_1\right) + s \left(C_2 R_2 + C_3 R_2\right) + 1} \end{aligned}$$

10.128 INVALID-ORDER-128
$$Z(s) = \left(L_1 s, \frac{R_2(C_3L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)$$

$$II(s) = \frac{C_2L_1R_2R_3s^2 + s^3(C_2L_1L_2R_2R_3g_m + C_2L_1L_2R_3) + s(L_1R_2R_3g_m + L_1R_3)}{R_2 + R_3 + s^4(C_2C_3L_1L_2R_2R_3g_m + C_2C_3L_1L_2R_3) + s^3(C_2C_3L_2R_2R_3 + C_2L_1L_2R_2g_m + C_2L_1L_2) + s^2(C_2L_1R_2 + C_2L_2R_2 + C_2L_2R_3 + C_3L_1R_2R_3g_m + C_3L_1R_3) + s(C_2R_2R_3 + C_3R_2R_3 + L_1R_2g_m + L_1)}$$
10.129 INVALID-ORDER-129 $Z(s) = \left(L_1 s, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^4(C_2C_3L_1L_2R_2R_3g_m + C_2C_3L_1L_2R_3) + s^3(C_2C_3L_1R_2R_3 + C_2L_1L_2R_2g_m + C_2L_1L_2) + s^2(C_2L_1R_2 + C_3L_1R_2R_3g_m + C_3L_1R_3) + s(L_1R_2g_m + L_1)}{s^4(C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2) + s^3(C_2C_3L_1R_2R_3 + C_2L_1L_2R_2g_m + C_2L_1L_2) + s^2(C_2L_1R_2 + C_3L_1R_2R_3g_m + C_3L_1R_3) + s(L_1R_2g_m + L_1)}$$
10.130 INVALID-ORDER-130 $Z(s) = \left(L_1 s, \frac{R_2(C_3L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_1L_2R_2g_n + C_2L_1L_2R_2g_n + C_2C_3L_1L_2R_3g_m + C_2C_3L_1L_2R_3g_m + C_2L_1L_2 + C_3L_1R_2g_m + C_3L_1L_3R_2g_m + C_3L_1L_3) + s(L_1R_2g_m + L_1)}{s^4(C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2R_3g_m + C_2C_3L_1L_2R_3g_m + C_2L_1L_2 + C_3L_1R_2g_m + C_3L_1L_3) + s(L_1R_2g_m + L_1)}{s^4(C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2R_3g_m + C_2C_3L_1L_2R_3g_m + C_2L_1L_2 + C_3L_1R_2g_m + C_3L_1L_3) + s(L_1R_2g_m + L_1)}{s^4(C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2R_2g_m + C_2C_3L_1R_2g_m + C_3L_1R_2g_m + C_3L_1R_2g_$$

 $\begin{aligned} \textbf{10.131} \quad \textbf{INVALID-ORDER-131} \ \ Z(s) &= \left(L_1 s, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty \right) \\ & H(s) &= \frac{C_2 L_1 L_3 R_2 s^3 + s^4 \left(C_2 L_1 L_2 L_3 R_2 g_m + C_2 L_1 L_2 L_3 \right) + s^2 \left(L_1 L_3 R_2 g_m + L_1 L_3 \right)}{R_2 + s^5 \left(C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 C_3 L_1 L_2 L_3 \right) + s^4 \left(C_2 C_3 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_2 L_2 L_3 + C_3 L_1 L_3 \right) + s^2 \left(C_2 L_1 R_2 + C_2 L_2 R_2 + C_2 L_3 R_2 \right) + s \left(L_1 R_2 g_m + L_1 + L_3 \right)} \end{aligned}$

 $\begin{aligned} \textbf{10.132} \quad \textbf{INVALID-ORDER-132} \ \ Z(s) &= \left(L_1 s, \ \frac{R_2 \left(C_2 L_2 s^2 + 1 \right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty \right) \\ H(s) &= \frac{s^5 \left(C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 C_3 L_1 L_2 L_3 \right) + s^4 \left(C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 + C_2 C_3 L_1 L_2 R_3 + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 R_2 g_m + C_3 L_1 L_3 \right) + s^2 \left(C_2 L_1 R_2 + C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^4 \left(C_2 C_3 L_1 L_2 R_2 g_m + C_2 C_3 L_1 L_2 + C_2 C_3 L_2 L_3 \right) + s^3 \left(C_2 C_3 L_1 R_2 R_3 + C_2 C_3 L_2 R_3 + C_2$

10.133 INVALID-ORDER-133 $Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2L_1L_3R_2R_3s^3 + s^4\left(C_2L_1L_2L_3R_2g_m + C_2L_1L_2L_3R_3\right) + s^2\left(L_1L_3R_2g_m + L_1L_3R_3\right)}{R_2R_3 + s^5\left(C_2C_3L_1L_2L_3R_2g_m + C_2L_1L_2L_3R_2g_m + C_2L_1L_2L_3\right) + s^3\left(C_2L_1L_2R_3g_m + C_2L_1L_2R_3 + C_2L_2L_3R_2 + C_2L_2L_3R_3 + C_3L_1L_3R_3\right) + s^4\left(C_2C_3L_1L_2R_3g_m + C_2L_1L_2R_3g_m + C_2L_2R_3g_m + C_2L_2R_$

10.134 INVALID-ORDER-134 $Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

10.135 INVALID-ORDER-135 $Z(s) = \left(L_1 s, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2C_3L_1L_3R_2R_3s^4 + C_2L_1R_2R_3s^2 + s^5\left(C_2C_3L_1L_2L_3R_3g_m + C_2C_3L_1L_2R_3g_m + C_2L_1L_2R_3 + C_3L_1L_3R_2R_3g_m + C_3L_1L_3R_3\right) + s^4\left(C_2C_3L_1L_2R_3g_m + C_2C_3L_1L_2R_3g_m + C_2C_3L_2L_3R_3\right) + s^4\left(C_2C_3L_1L_2R_3g_m + C_2C_3L_1L_2R_3g_m + C_2C_3L_2L_3R_3\right) + s^4\left(C_2C_3L_1L_2R_3g_m + C_2C_3L_2R_3g_m + C_2C_3L_3R_3g_m + C_$

10.136 INVALID-ORDER-136 $Z(s) = \left(\frac{1}{C_1 s}, R_2, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_2 R_3 g_m + R_3}{R_2 g_m + s \left(C_1 R_2 + C_1 R_3\right) + 1}$$

10.137 INVALID-ORDER-137
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 g_m + 1}{C_1 C_3 R_2 s^2 + s \left(C_1 + C_3 R_2 g_m + C_3\right)}$$

10.138 INVALID-ORDER-138
$$Z(s) = \left(\frac{1}{C_1 s}, \ R_2, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{R_2 g_m + s \left(C_3 R_2 R_3 g_m + C_3 R_3 \right) + 1}{s^2 \left(C_1 C_3 R_2 + C_1 C_3 R_3 \right) + s \left(C_1 + C_3 R_2 g_m + C_3 \right)}$$

10.139 INVALID-ORDER-139
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^2 (C_3 L_3 R_2 g_m + C_3 L_3) + 1}{C_1 C_3 L_3 s^3 + C_1 C_3 R_2 s^2 + s (C_1 + C_3 R_2 g_m + C_3)}$$

10.140 INVALID-ORDER-140
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{s(L_3R_2g_m + L_3)}{C_1C_3L_3R_2s^3 + C_1R_2s + R_2g_m + s^2(C_1L_3 + C_3L_3R_2g_m + C_3L_3) + 1}$$

10.141 INVALID-ORDER-141
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^2 (C_3 L_3 R_2 g_m + C_3 L_3) + s (C_3 R_2 R_3 g_m + C_3 R_3) + 1}{C_1 C_3 L_3 s^3 + s^2 (C_1 C_3 R_2 + C_1 C_3 R_3) + s (C_1 + C_3 R_2 g_m + C_3)}$$

10.142 INVALID-ORDER-142
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

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

10.143 INVALID-ORDER-143
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s^2 \left(C_3 L_3 R_2 R_3 g_m + C_3 L_3 R_3\right) + s \left(L_3 R_2 g_m + L_3\right)}{R_2 g_m + s^3 \left(C_1 C_3 L_3 R_2 + C_1 C_3 L_3 R_3\right) + s^2 \left(C_1 L_3 + C_3 L_3 R_2 g_m + C_3 L_3\right) + s \left(C_1 R_2 + C_1 R_3\right) + 1}$$

10.144 INVALID-ORDER-144
$$Z(s) = \left(\frac{1}{C_1 s}, R_2, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s^2 \left(C_3 L_3 R_2 R_3 g_m + C_3 L_3 R_3\right)}{R_2 g_m + s^3 \left(C_1 C_3 L_3 R_2 + C_1 C_3 L_3 R_3\right) + s^2 \left(C_1 C_3 R_2 R_3 + C_3 L_3 R_2 g_m + C_3 L_3\right) + s \left(C_1 R_2 + C_1 R_3 + C_3 R_2 R_3 g_m + C_3 R_3\right) + 1}$$

10.145 INVALID-ORDER-145 $Z(s) = \begin{pmatrix} \frac{1}{C_1 s}, & \frac{1}{C_2 s}, & \frac{1}{C_3 s}, & \infty, & \infty \end{pmatrix}$

$$H(s) = \frac{C_2 s + g_m}{C_3 g_m s + s^2 \left(C_1 C_2 + C_1 C_3 + C_2 C_3 \right)}$$

10.146 INVALID-ORDER-146
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3R_3s^2 + g_m + s\left(C_2 + C_3R_3g_m\right)}{C_1C_2C_3R_3s^3 + C_3g_ms + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$$

10.147 INVALID-ORDER-147
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3s^3 + C_2s + C_3L_3g_ms^2 + g_m}{C_1C_2C_3L_3s^4 + C_3g_ms + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$$

10.148 INVALID-ORDER-148
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2 L_3 s^2 + L_3 g_m s}{C_3 L_3 g_m s^2 + g_m + s^3 \left(C_1 C_2 L_3 + C_1 C_3 L_3 + C_2 C_3 L_3 \right) + s \left(C_1 + C_2 \right)}$$

10.149 INVALID-ORDER-149
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3s^3 + g_m + s^2\left(C_2C_3R_3 + C_3L_3g_m\right) + s\left(C_2 + C_3R_3g_m\right)}{C_1C_2C_3L_3s^4 + C_1C_2C_3R_3s^3 + C_3g_ms + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$$

10.150 INVALID-ORDER-150
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_3R_3s^2 + L_3R_3g_ms}{R_3g_m + s^3\left(C_1C_2L_3R_3 + C_1C_3L_3R_3 + C_2C_3L_3R_3\right) + s^2\left(C_1L_3 + C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_1R_3 + C_2R_3 + L_3g_m\right)}$$

10.151 INVALID-ORDER-151
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_3s^3 + R_3g_m + s^2\left(C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_2R_3 + L_3g_m\right)}{C_1C_2C_3L_3R_3s^4 + g_m + s^3\left(C_1C_2L_3 + C_1C_3L_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_3 + C_3L_3g_m\right) + s\left(C_1 + C_2\right)}$$

10.152 INVALID-ORDER-152
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_3s^3 + C_2R_3s + C_3L_3R_3g_ms^2 + R_3g_m}{C_1C_2C_3L_3R_3s^4 + g_m + s^3\left(C_1C_3L_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3 + C_2C_3R_3 + C_3L_3g_m\right) + s\left(C_1 + C_2 + C_3R_3g_m\right)}$$

10.153 INVALID-ORDER-153
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2 R_2 s + R_2 g_m + 1}{s^2 \left(C_1 C_2 R_2 + C_1 C_3 R_2 + C_2 C_3 R_2 \right) + s \left(C_1 + C_3 R_2 g_m + C_3 \right)}$$

10.154 INVALID-ORDER-154
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3R_2R_3s^2 + R_2g_m + s\left(C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + 1}{C_1C_2C_3R_2R_3s^3 + s^2\left(C_1C_2R_2 + C_1C_3R_2 + C_1C_3R_3 + C_2C_3R_2\right) + s\left(C_1 + C_3R_2g_m + C_3\right)}$$

10.155 INVALID-ORDER-155
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_2s^3 + C_2R_2s + R_2g_m + s^2\left(C_3L_3R_2g_m + C_3L_3\right) + 1}{C_1C_2C_3L_3R_2s^4 + C_1C_3L_3s^3 + s^2\left(C_1C_2R_2 + C_1C_3R_2 + C_2C_3R_2\right) + s\left(C_1 + C_3R_2g_m + C_3\right)}$$

10.156 INVALID-ORDER-156
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_3R_2s^2 + s\left(L_3R_2g_m + L_3\right)}{R_2g_m + s^3\left(C_1C_2L_3R_2 + C_1C_3L_3R_2 + C_2C_3L_3R_2\right) + s^2\left(C_1L_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_2 + C_2R_2\right) + 1}$$

10.157 INVALID-ORDER-157
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_2s^3 + R_2g_m + s^2\left(C_2C_3R_2R_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + 1}{C_1C_2C_3L_3R_2s^4 + s^3\left(C_1C_2C_3R_2R_3 + C_1C_3L_3\right) + s^2\left(C_1C_2R_2 + C_1C_3R_2 + C_1C_3R_3 + C_2C_3R_2\right) + s\left(C_1 + C_3R_2g_m + C_3\right)}$$

10.158 INVALID-ORDER-158
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_3R_2R_3s^2 + s\left(L_3R_2R_3g_m + L_3R_3\right)}{R_2R_3g_m + R_3 + s^3\left(C_1C_2L_3R_2R_3 + C_1C_3L_3R_2R_3 + C_2C_3L_3R_2R_3\right) + s^2\left(C_1L_3R_2 + C_1L_3R_3 + C_2L_3R_2 + C_3L_3R_2R_3\right) + s\left(C_1R_2R_3 + C_2R_2R_3 + L_3R_2g_m + L_3R_3\right)}$$

10.159 INVALID-ORDER-159
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_2R_3s^3 + R_2R_3g_m + R_3 + s^2\left(C_2L_3R_2 + C_3L_3R_2R_3g_m + C_3L_3R_3\right) + s\left(C_2R_2R_3 + L_3R_2g_m + L_3\right)}{C_1C_2C_3L_3R_2R_3s^4 + R_2g_m + s^3\left(C_1C_2L_3R_2 + C_1C_3L_3R_2 + C_1C_3L_3R_3 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_2R_3 + C_1L_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2\right) + 1}$$

10.160 INVALID-ORDER-160
$$Z(s) = \left(\frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_2R_3s^3 + C_2R_2R_3s + R_2R_3g_m + R_3 + s^2\left(C_3L_3R_2R_3g_m + C_3L_3R_3\right)}{C_1C_2C_3L_3R_2R_3s^4 + R_2g_m + s^3\left(C_1C_3L_3R_2 + C_1C_3L_3R_3 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_2C_3R_2R_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + 1}$$

10.161 INVALID-ORDER-161 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{g_m + s \left(C_2 R_2 g_m + C_2 \right)}{C_1 C_2 C_3 R_2 s^3 + C_3 g_m s + s^2 \left(C_1 C_2 + C_1 C_3 + C_2 C_3 R_2 g_m + C_2 C_3 \right)}$$

10.162 INVALID-ORDER-162 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_3g_m + s\left(C_2R_2R_3g_m + C_2R_3\right)}{C_1C_2C_3R_2R_3s^3 + g_m + s^2\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_3R_3 + C_2C_3R_2R_3g_m + C_2C_3R_3\right) + s\left(C_1 + C_2R_2g_m + C_2 + C_3R_3g_m\right)}$$

10.163 INVALID-ORDER-163 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{g_m + s^2 \left(C_2 C_3 R_2 R_3 g_m + C_2 C_3 R_3 \right) + s \left(C_2 R_2 g_m + C_2 + C_3 R_3 g_m \right)}{C_3 g_m s + s^3 \left(C_1 C_2 C_3 R_2 + C_1 C_2 C_3 R_3 \right) + s^2 \left(C_1 C_2 + C_1 C_3 + C_2 C_3 R_2 g_m + C_2 C_3 \right)}$$

10.164 INVALID-ORDER-164 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_3 L_3 g_m s^2 + g_m + s^3 \left(C_2 C_3 L_3 R_2 g_m + C_2 C_3 L_3 \right) + s \left(C_2 R_2 g_m + C_2 \right)}{C_1 C_2 C_3 L_3 s^4 + C_1 C_2 C_3 R_2 s^3 + C_3 g_m s + s^2 \left(C_1 C_2 + C_1 C_3 + C_2 C_3 R_2 g_m + C_2 C_3 \right)}$$

10.165 INVALID-ORDER-165 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_3 g_m s + s^2 \left(C_2 L_3 R_2 g_m + C_2 L_3\right)}{C_1 C_2 C_3 L_3 R_2 s^4 + g_m + s^3 \left(C_1 C_2 L_3 + C_1 C_3 L_3 + C_2 C_3 L_3 R_2 g_m + C_2 C_3 L_3\right) + s^2 \left(C_1 C_2 R_2 + C_3 L_3 g_m\right) + s \left(C_1 + C_2 R_2 g_m + C_2\right)}$$

10.166 INVALID-ORDER-166 $Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{g_m + s^3 \left(C_2 C_3 L_3 R_2 g_m + C_2 C_3 L_3\right) + s^2 \left(C_2 C_3 R_2 R_3 g_m + C_2 C_3 R_3 + C_3 L_3 g_m\right) + s \left(C_2 R_2 g_m + C_2 + C_3 R_3 g_m\right)}{C_1 C_2 C_3 L_3 s^4 + C_3 g_m s + s^3 \left(C_1 C_2 C_3 R_2 + C_1 C_2 C_3 R_3\right) + s^2 \left(C_1 C_2 + C_1 C_3 + C_2 C_3 R_2 g_m + C_2 C_3\right)}$$

10.167 INVALID-ORDER-167
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{L_3 R_3 g_m s + s^2 \left(C_2 L_3 R_2 R_3 g_m + C_2 L_3 R_3\right)}{C_1 C_2 C_3 L_3 R_2 R_3 s^4 + R_3 g_m + s^3 \left(C_1 C_2 L_3 R_2 + C_1 C_2 L_3 R_3 + C_1 C_3 L_3 R_3 + C_2 C_3 L_3 R_2 R_3 g_m + C_2 C_3 L_3 R_3\right) + s^2 \left(C_1 C_2 R_2 R_3 + C_1 L_3 + C_2 L_3 R_2 g_m + C_2 L_3 + C_3 L_3 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2 R_3 g_m + C_2 R_3 g_m\right) + s \left(C_1 R_3 + C_2$$

10.168 INVALID-ORDER-168
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_3g_m + s^3\left(C_2C_3L_3R_2R_3g_m + C_2C_3L_3R_3\right) + s^2\left(C_2L_3R_2g_m + C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_2R_2R_3g_m + C_2R_3 + L_3g_m\right)}{g_m + s^4\left(C_1C_2C_3L_3R_2 + C_1C_2C_3L_3R_3\right) + s^3\left(C_1C_2L_3 + C_1C_3L_3 + C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_2 + C_1C_2R_3 + C_3L_3g_m\right) + s\left(C_1C_2R_2 + C_1C_2R_3 + C_3L_3g_m\right) + s\left(C_1C_2R_3 + C_3L_3g_m\right) + s\left(C_1C_3R_3 + C_3L_3g_m$$

10.169 INVALID-ORDER-169
$$Z(s) = \left(\frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_3L_3R_3g_ms^2 + R_3g_m + s^3\left(C_2C_3L_3R_2R_3g_m + C_2C_3L_3R_3\right) + s\left(C_2R_2R_3g_m + C_2R_3\right)}{g_m + s^4\left(C_1C_2C_3L_3R_2 + C_1C_2C_3L_3R_3\right) + s^3\left(C_1C_2C_3R_2R_3 + C_1C_3L_3 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_3R_3 + C_2C_3R_3 + C_3L_3g_m\right) + s\left(C_1 + C_2R_2g_m + C_2 + C_3R_3g_m\right) + s\left(C_1 + C_2R_2g_m + C_2 + C_3R_3g_m\right) + s\left(C_1 + C_2R_3g_m + C_2C_3R_3 + C_3R_3g_m\right) + s\left(C_1 + C_2R_3g_m + C_2C_3R_3 + C_3R_3g_m\right) + s\left(C_1 + C_2R_3g_m + C_2C_3R_3g_m\right) + s\left(C_1 + C_2R_3g_m\right) + s\left(C_1 + C_2R_3$$

10.170 INVALID-ORDER-170 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2R_3g_ms^2 + C_2R_3s + R_3g_m}{C_1C_2L_2s^3 + g_m + s^2\left(C_1C_2R_3 + C_2L_2g_m\right) + s\left(C_1 + C_2\right)}$$

10.171 INVALID-ORDER-171 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 L_2 g_m s^2 + C_2 s + g_m}{C_1 C_2 C_3 L_2 s^4 + C_2 C_3 L_2 q_m s^3 + C_3 q_m s + s^2 (C_1 C_2 + C_1 C_3 + C_2 C_3)}$$

10.172 INVALID-ORDER-172 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2R_3g_ms^2 + C_2R_3s + R_3g_m}{C_1C_2C_3L_2R_3s^4 + g_m + s^3\left(C_1C_2L_2 + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3 + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_1 + C_2 + C_3R_3g_m\right)}$$

10.173 INVALID-ORDER-173 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2R_3g_ms^3 + g_m + s^2\left(C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_2 + C_3R_3g_m\right)}{C_1C_2C_3L_2s^4 + C_3g_ms + s^3\left(C_1C_2C_3R_3 + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$$

10.174 INVALID-ORDER-174 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2L_3g_ms^4 + C_2C_3L_3s^3 + C_2s + g_m + s^2\left(C_2L_2g_m + C_3L_3g_m\right)}{C_2C_3L_2g_ms^3 + C_3g_ms + s^4\left(C_1C_2C_3L_2 + C_1C_2C_3L_3\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$$

10.175 INVALID-ORDER-175 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2L_3g_ms^3 + C_2L_3s^2 + L_3g_ms}{C_1C_2C_3L_2L_3s^5 + C_2C_3L_2L_3g_ms^4 + g_m + s^3\left(C_1C_2L_2 + C_1C_2L_3 + C_1C_3L_3 + C_2C_3L_3\right) + s^2\left(C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1 + C_2\right)}$$

10.176 INVALID-ORDER-176
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_2L_3g_ms^4 + g_m + s^3\left(C_2C_3L_2R_3g_m + C_2C_3L_3\right) + s^2\left(C_2C_3R_3 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_2 + C_3R_3g_m\right)}{C_3g_ms + s^4\left(C_1C_2C_3L_2 + C_1C_2C_3L_3\right) + s^3\left(C_1C_2C_3R_3 + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$$

10.177 INVALID-ORDER-177
$$Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2L_2R_3g_ms^3 + C_2L_3R_3s^2 + L_3R_3g_ms}{C_1C_2C_3L_2L_3R_3s^5 + R_3g_m + s^4\left(C_1C_2L_2L_3 + C_2C_3L_2R_3g_m\right) + s^3\left(C_1C_2L_2R_3 + C_1C_2L_3R_3 + C_1C_3L_3R_3 + C_2C_3L_3R_3 + C_2L_2L_3g_m\right) + s^2\left(C_1L_3 + C_2L_2R_3g_m + C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_1R_3 + C_2R_3 + L_3g_m\right) + s\left(C_1R_3 + C_2R_3 + C_3R_3g_m\right) + s\left(C_1R_3 + C_2R_3g_m\right) + s\left(C_1R_3 + C_2R_3g_m$$

10.178 INVALID-ORDER-178
$$Z(s) = \left(\frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2C_3L_2L_3R_3g_ms^4 + R_3g_m + s^3\left(C_2C_3L_3R_3 + C_2L_2L_3g_m\right) + s^2\left(C_2L_2R_3g_m + C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_2R_3 + L_3g_m\right)}{C_1C_2C_3L_2L_3s^5 + g_m + s^4\left(C_1C_2C_3L_3R_3 + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_2 + C_1C_2L_3 + C_1C_3L_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_3 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1C_2C_3L_3R_3 + C_2C_3L_3R_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_3 + C_2C_3L_3\right) + s^2\left($$

10.179 INVALID-ORDER-179
$$Z(s) = \left(\frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_2L_3R_3g_ms^4 + C_2C_3L_3R_3s^3 + C_2R_3s + R_3g_m + s^2\left(C_2L_2R_3g_m + C_3L_3R_3g_m\right)}{C_1C_2C_3L_2L_3s^5 + g_m + s^4\left(C_1C_2C_3L_2R_3 + C_1C_2C_3L_3R_3 + C_2C_3L_2R_3g_m\right) + s^3\left(C_1C_2L_2 + C_1C_3L_3 + C_2C_3L_2R_3g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3 + C_2C_3R_3 + C_2C_3R_3 + C_2C_3R_3\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3 + C_2C_3R_3\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3\right) + s^2\left(C_1C_3R_3 + C_1C_3R_3\right)$$

10.180 INVALID-ORDER-180 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 L_2 R_3 g_m s^2 + R_3 g_m + s \left(C_2 R_2 R_3 g_m + C_2 R_3\right)}{C_1 C_2 L_2 s^3 + q_m + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_3 + C_2 L_2 q_m\right) + s \left(C_1 + C_2 R_2 q_m + C_2\right)}$$

10.181 INVALID-ORDER-181 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2g_ms^2 + g_m + s\left(C_2R_2g_m + C_2\right)}{C_1C_2C_3L_2s^4 + C_3g_ms + s^3\left(C_1C_2C_3R_2 + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3R_2g_m + C_2C_3\right)}$$

10.182 INVALID-ORDER-182 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_2R_3g_ms^2 + R_3g_m + s\left(C_2R_2R_3g_m + C_2R_3\right)}{C_1C_2C_3L_2R_3s^4 + g_m + s^3\left(C_1C_2C_3R_2R_3 + C_1C_2L_2 + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_3R_3 + C_2C_3R_3g_m + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_1 + C_2R_2g_m + C_2 + C_3R_3g_m\right)}$$

10.183 INVALID-ORDER-183 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2R_3g_ms^3 + g_m + s^2\left(C_2C_3R_2R_3g_m + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_2R_2g_m + C_2 + C_3R_3g_m\right)}{C_1C_2C_3L_2s^4 + C_3g_ms + s^3\left(C_1C_2C_3R_2 + C_1C_2C_3R_3 + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3R_2g_m + C_2C_3\right)}$$

10.184 INVALID-ORDER-184 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_2L_3g_ms^4 + g_m + s^3\left(C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_2L_2g_m + C_3L_3g_m\right) + s\left(C_2R_2g_m + C_2\right)}{C_3g_ms + s^4\left(C_1C_2C_3L_2 + C_1C_2C_3L_3\right) + s^3\left(C_1C_2C_3R_2 + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3R_2g_m + C_2C_3\right)}$$

10.185 INVALID-ORDER-185 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2L_2L_3g_ms^3 + L_3g_ms + s^2\left(C_2L_3R_2g_m + C_2L_3\right)}{C_1C_2C_3L_2L_3s^5 + g_m + s^4\left(C_1C_2C_3L_3R_2 + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_2 + C_1C_2L_3 + C_1C_3L_3 + C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_2 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1 + C_2R_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m\right) + s\left(C_1C_2R_2 + C_2L_3g_m\right) + s\left(C_1C_2R_2 + C_2L_3$ **10.186** INVALID-ORDER-186 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_2L_3g_ms^4 + g_m + s^3\left(C_2C_3L_2R_3g_m + C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_2C_3R_2R_3g_m + C_2C_3R_3 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_2R_2g_m + C_2 + C_3R_3g_m\right)}{C_3g_ms + s^4\left(C_1C_2C_3L_2 + C_1C_2C_3L_3\right) + s^3\left(C_1C_2C_3R_2 + C_1C_2C_3R_3 + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3R_2g_m + C_2C_3\right)}$ 10.187 INVALID-ORDER-187 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2L_2L_3R_3g_ms^3 + L_3R_3g_ms + s^2\left(C_2L_3R_2R_3g_m + C_2L_3R_3\right)}{C_1C_2C_3L_2L_3R_3s^5 + R_3g_m + s^4\left(C_1C_2C_3L_3R_2R_3 + C_1C_2L_2R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1C_3L_3R_3 + C_2C_3L_3R_3 + C$ **10.188** INVALID-ORDER-188 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_2L_3R_3g_ms^4 + R_3g_m + s^3\left(C_2C_3L_3R_2R_3g_m + C_2L_3L_3g_m\right) + s^2\left(C_2L_2R_3g_m + C_2L_3R_2g_m + C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_2R_2R_3g_m + C_2R_3 + L_3g_m\right)}{C_1C_2C_3L_2L_3s^5 + g_m + s^4\left(C_1C_2C_3L_3R_3 + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_2 + C_1C_2L_3 + C_1C_3L_3 + C_2C_3L_3R_3g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_2 + C_1C_2R_3 + C_2L_3g_m + C_2R_3g_m + C_2R_3g_m$ **10.189** INVALID-ORDER-189 $Z(s) = \left(\frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ $C_{2}C_{3}L_{2}L_{3}R_{3}g_{m}s^{4} + R_{3}g_{m} + s^{3}\left(C_{2}C_{3}L_{3}R_{2}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s^{2}\left(C_{2}L_{2}R_{3}g_{m} + C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{2}R_{2}R_{3}g_{m} + C_{2}R_{3}\right) \\ C_{1}C_{2}C_{3}L_{2}L_{3}s^{5} + g_{m} + s^{4}\left(C_{1}C_{2}C_{3}L_{2}R_{3} + C_{1}C_{2}C_{3}L_{3}R_{3} + C_{2}C_{3}L_{2}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3} + C_{2}C_{3}L_{2}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{2}g_{m} + C_{2}C_{3}L_{3}R_{3} + C_{2}C_{3}R_{2}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{2}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{2}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{2}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{3}R_{3} + C_{1}C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{3}R_{3} + C_{1}C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{3}R_{3} + C_{1}C_{2}C_{3}L_{3}R_{3} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{3}R_{3} + C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{3}R_{3} + C_{1}C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{3}R_{3} + C_{1}C_{2}C_{3}L_{3}R_{3}g_{m} + C_{2}C_{3}L_{3}R_{3}g_{m}\right) + s\left(C_{1}C_{2}C_{3}L_{3}R_{3} + C_$ **10.190** INVALID-ORDER-190 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3, \infty, \infty, \infty\right)$ $H(s) = \frac{L_2 R_3 g_m s + R_2 R_3 g_m + R_3 + s^2 \left(C_2 L_2 R_2 R_3 g_m + C_2 L_2 R_3\right)}{R_2 g_m + s^3 \left(C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_3\right) + s^2 \left(C_1 L_2 + C_2 L_2 R_2 g_m + C_2 L_2\right) + s \left(C_1 R_2 + C_1 R_3 + L_2 g_m\right) + 1}$ 10.191 INVALID-ORDER-191 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ $H(s) = \frac{L_2 g_m s + R_2 g_m + s^2 \left(C_2 L_2 R_2 g_m + C_2 L_2\right) + 1}{C_1 C_2 C_3 L_2 R_2 s^4 + s^3 \left(C_1 C_2 L_2 + C_1 C_3 L_2 + C_2 C_3 L_2 R_2 g_m + C_2 C_3 L_2\right) + s^2 \left(C_1 C_3 R_2 + C_3 L_2 g_m\right) + s \left(C_1 + C_3 R_2 g_m + C_3\right)}$ **10.192** INVALID-ORDER-192 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ $H(s) = \frac{L_2 R_3 g_m s + R_2 R_3 g_m + R_3 + s^2 \left(C_2 L_2 R_2 R_3 g_m + C_2 L_2 R_3\right)}{C_1 C_2 C_3 L_2 R_3 s^4 + R_2 g_m + s^3 \left(C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_3 + C_1 C_3 L_2 R_3 g_m + C_2 C_3 L_2 R_3\right) + s^2 \left(C_1 C_3 R_2 R_3 + C_1 L_2 + C_2 L_2 R_2 g_m + C_2 L_2 + C_3 L_2 R_3 g_m\right) + s \left(C_1 R_2 + C_1 R_3 + C_3 R_2 R_3 g_m + C_3 R_3 + L_2 g_m\right) + 1}$ **10.193** INVALID-ORDER-193 $Z(s) = \left(\frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

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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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                        H(s) = \frac{C_3L_2L_3g_ms^3 + L_2g_ms + R_2g_m + s^4\left(C_2C_3L_2L_3R_2g_m + C_2C_3L_2L_3\right) + s^2\left(C_2L_2R_2g_m + C_2L_2 + C_3L_3R_2g_m + C_3L_3\right) + 1}{C_1C_2C_3L_2L_3s^5 + C_1C_2C_3L_2R_2s^4 + s^3\left(C_1C_2L_2 + C_1C_3L_2 + C_1C_3L_3 + C_2C_3L_2R_2g_m + C_2C_3L_2\right) + s^2\left(C_1C_3R_2 + C_3L_2g_m\right) + s\left(C_1 + C_3R_2g_m + C_3C_3L_2\right) + s^2\left(C_1C_3R_2 + C_3L_2g_m\right) + s\left(C_1 + C_3R_2g_m + C_3C_3L_2\right) + s^2\left(C_1C_3R_2 + C_3L_2g_m\right) + s\left(C_1C_3R_2g_m + C_3L_2\right) + s^2\left(C_1C_3R_2g_m + C_3L_3\right) + s^2\left(C_1C_3R_3g_m + C_3L_3\right) + s^2\left(C_1C
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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                                                                 H(s) = \frac{L_2L_3g_ms^2 + s^3\left(C_2L_2L_3R_2g_m + C_2L_2L_3\right) + s\left(L_3R_2g_m + L_3\right)}{C_1C_2C_3L_2L_3R_2s^5 + R_2g_m + s^4\left(C_1C_2L_2L_3 + C_1C_3L_2L_3 + C_2C_3L_2L_3R_2g_m + C_2C_3L_2L_3\right) + s^3\left(C_1C_2L_2R_2 + C_1C_3L_3R_2g_m + C_2L_2R_2g_m + C_2L_2 + C_3L_3R_2g_m + C_3L_3\right) + s^2\left(C_1L_2 + C_1L_3 + C_2L_2R_2g_m + C_2L_2 + C_3L_3R_2g_m + C_3L_3\right) + s^2\left(C_1L_2 + C_1L_3 + C_2L_2R_2g_m + C_2L_2 + C_3L_3R_2g_m + C_3L_3\right) + s^2\left(C_1L_2 + C_1L_3 + C_2L_2R_2g_m + C_3L_3\right) + s^2\left(C_1L_2 + C_1L_3 + C_2L_3R_2g_m + C_3L_3\right) + s^2\left(C_1L_3 + C_2L_3R_3g_m + C_3L_3\right) + s^2\left(C_1L_3 + C_3L_3R_3g_m + C_3L_3\right) + s^2\left(C_1L_3 + C_3L_3R_3g_m + C_3L_3\right) + s^2\left(C_1L_3 + C_3L_3R_3g_m + C_3L_3R_3g_m + C_3L_3\right) + s^2\left(C_1L_3 + C_3L_3R_3g_m + 
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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                         H(s) = \frac{R_2 g_m + s^4 \left(C_2 C_3 L_2 L_3 R_2 g_m + C_2 C_3 L_2 L_3\right) + s^3 \left(C_2 C_3 L_2 R_3 g_m + C_2 C_3 L_2 R_3 g_m + C_3 L_2 L_3 g_m\right) + s^2 \left(C_2 L_2 R_2 g_m + C_2 L_2 + C_3 L_2 R_3 g_m + C_3 L_3\right) + s \left(C_3 R_2 R_3 g_m + C_3 R_3 g_m
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, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
H(s) = \frac{L_2L_3R_3g_ms^2 + s^3\left(C_2L_2L_3R_2g_{3g_m} + C_2L_2L_3R_3\right) + s\left(L_3R_2R_3g_m + L_3R_3\right)}{C_1C_2C_3L_2L_3R_2g_{3g_m} + R_3 + s^4\left(C_1C_2L_2L_3R_3 + C_1C_3L_2L_3R_3 + C_2C_3L_2L_3R_3\right) + s^3\left(C_1C_2L_2R_2R_3 + C_1L_2L_3 + C_2L_2L_3R_2g_m + C_2L_2L_3 + C_3L_2L_3R_3g_m\right) + s^2\left(C_1L_2R_3 + C_1L_3R_3 + C_2C_3L_2L_3R_3\right) + s^2\left(C_1L_2R_3 + C_1L_3R_3 + C_2C_3L_2L_3R_3\right) + s^2\left(C_1L_2R_3 + C_2L_2L_3R_3 + C_2L_2L_3R_3 + C_2L_2L_3R_3\right) + s^2\left(C_1L_2R_3 + C_2L_2L_3R_3 + C_2L_2L_3R_3 + C_2L_2L_3R_3\right) + s^2\left(C_1L_2R_3 + C_2L_2L_3R_3\right) + s^2\left(C_1
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, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{R_2 R_3 g_m + R_3 + s^4 \left(C_2 C_3 L_2 L_3 R_2 g_m + C_2 C_3 L_2 L_3 R_3 g_m + C_2 L_2 L_3 + C_3 L_2 L_3 R_3 g_m + C_2 L_2 R_3 g_m + C_2 L_2 R_3 g_m + C_2 L_2 R_3 g_m + C_3 L_3 R_3 g
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, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                \frac{C_3L_2L_3R_3g_ms^3 + L_2R_3g_ms + R_2R_3g_m + R_3 + s^4\left(C_2C_3L_2L_3R_3g_m + C_2C_3L_2L_3R_3\right) + s^2\left(C_2L_2R_2R_3g_m + C_2L_2R_3 + C_3L_3R_3g_m + C_3L
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                              H(s) = \frac{C_2R_2R_3s + R_2R_3g_m + R_3 + s^2\left(C_2L_2R_2R_3g_m + C_2L_2R_3\right)}{R_2g_m + s^3\left(C_1C_2L_2R_2 + C_1C_2L_2R_3\right) + s^2\left(C_1C_2R_2R_3 + C_2L_2R_2g_m + C_2L_2\right) + s\left(C_1R_2 + C_1R_3 + 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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3L_2R_2s^4 + s^3\left(C_1C_2L_2 + C_2C_3L_2R_2g_m + C_2C_3L_2\right) + s^2\left(C_1C_2R_2 + C_1C_3R_2 + C_2C_3R_2\right) + s\left(C_1 + C_3R_2g_m + C_3\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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
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$$H(s) = \frac{C_2R_2R_3s + R_2R_3g_m + R_3 + s^2\left(C_2L_2R_2R_3g_m + C_2L_2R_3\right)}{C_1C_2C_3L_2R_2R_3s^4 + R_2g_m + s^3\left(C_1C_2L_2R_3 + C_2C_3L_2R_3g_m + C_2C_3L_2R_3\right) + s^2\left(C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_2L_2R_2g_m + C_2L_2\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + 1}$$

10.203 INVALID-ORDER-203
$$Z(s) = \left(\frac{1}{G_2}, \frac{R_2[G_2(s,t)]}{G_2(s,t)^2(G_2(s,t))}, R_3 + \frac{1}{G_2}, \infty, \infty, \infty\right)$$

$$R(s) = \frac{R_2s_1 - e^{-\frac{t}{G_2(s,t)}R_2R_{2s_1} - G_2(s,t)}{G_2(s,t)^2(S_2(s,t))}, R_3 + \frac{1}{G_2(s,t)}G_2(s_2(s,t)) + \frac{t}{G_2(s,t)^2(R_2s_1) + \frac{t}{G_2(s,t)}R_{2s_1} - G_2(s,t)} + \frac{t}{G_2(s,t)^2(R_2s_1) + \frac{t}{G_2(s,t)}R_{2s_1$$

10.211 INVALID-ORDER-211 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_3 L_3 R_1 R_2 g_m + C_3 L_3 R_1 \right)}{C_1 C_3 L_3 R_1 s^3 + s^2 \left(C_1 C_3 R_1 R_2 + C_3 L_3 \right) + s \left(C_1 R_1 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 \right) + 1}$$

 $H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s \left(C_1 R_1 R_2 + C_1 R_1 R_3\right)}$

10.212 INVALID-ORDER-212
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

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

10.213 INVALID-ORDER-213
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_3 L_3 R_1 R_2 g_m + C_3 L_3 R_1 \right) + s \left(C_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3 \right)}{C_1 C_3 L_3 R_1 s^3 + s^2 \left(C_1 C_3 R_1 R_2 + C_1 C_3 R_1 R_3 + C_3 L_3 \right) + s \left(C_1 R_1 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 + C_3 R_3 \right) + 1}$$

10.214 INVALID-ORDER-214
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

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

10.215 INVALID-ORDER-215
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1R_2R_3g_m + R_1R_3 + s^2\left(C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3\right) + s\left(L_3R_1R_2g_m + L_3R_1\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_3\right) + s^2\left(C_1L_3R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_2 + C_3L_3R_3\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + L_3\right)}$$

10.216 INVALID-ORDER-216
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1R_2R_3g_m + R_1R_3 + s^2\left(C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_3\right) + s^2\left(C_1C_3R_1R_2R_3 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_3\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + C_3R_1R_2R_3g_m + C_3R_1R_3\right)}$$

10.217 INVALID-ORDER-217 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 R_1 s + R_1 g_m}{s^2 \left(C_1 C_2 R_1 + C_1 C_3 R_1 + C_2 C_3 R_1 \right) + s \left(C_2 + C_3 R_1 g_m + C_3 \right)}$$

10.218 INVALID-ORDER-218 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3R_1R_3s^2 + R_1g_m + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{C_1C_2C_3R_1R_3s^3 + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.219 INVALID-ORDER-219 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_3R_1s^3 + C_2R_1s + C_3L_3R_1g_ms^2 + R_1g_m}{C_1C_2C_3L_3R_1s^4 + C_2C_3L_3s^3 + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.220 INVALID-ORDER-220 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_3R_1s^2 + L_3R_1g_ms}{R_1g_m + s^3\left(C_1C_2L_3R_1 + C_1C_3L_3R_1 + C_2C_3L_3R_1\right) + s^2\left(C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_2R_1\right) + 1}$$

10.221 INVALID-ORDER-221 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_3R_1s^3 + R_1g_m + s^2\left(C_2C_3R_1R_3 + C_3L_3R_1g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{C_1C_2C_3L_3R_1s^4 + s^3\left(C_1C_2C_3R_1R_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.222 INVALID-ORDER-222 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2L_3R_1R_3s^2 + L_3R_1R_3g_ms}{R_1R_3g_m + R_3 + s^3\left(C_1C_2L_3R_1R_3 + C_1C_3L_3R_1R_3 + C_2C_3L_3R_1R_3\right) + s^2\left(C_1L_3R_1 + C_2L_3R_1 + C_2L_3R_3 + C_3L_3R_1R_3g_m + C_3L_3R_3\right) + s\left(C_1R_1R_3 + C_2R_1R_3 + L_3R_1g_m + L_3\right)}$ **10.223** INVALID-ORDER-223 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_3R_1R_3s^3 + R_1R_3g_m + s^2\left(C_2L_3R_1 + C_3L_3R_1R_3g_m\right) + s\left(C_2R_1R_3 + L_3R_1g_m\right)}{C_1C_2C_3L_3R_1R_3s^4 + R_1g_m + s^3\left(C_1C_2L_3R_1 + C_1C_3L_3R_1 + C_2C_3L_3R_1 + C_2C_3L_3R_3\right) + s^2\left(C_1C_2R_1R_3 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_2R_1 + C_2R_3\right) + 1}$ 10.224 INVALID-ORDER-224 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_3R_1R_3s^3 + C_2R_1R_3s + C_3L_3R_1R_3g_ms^2 + R_1R_3g_m}{C_1C_2C_3L_3R_1R_3s^4 + R_1g_m + s^3\left(C_1C_3L_3R_1 + C_2C_3L_3R_1 + C_2C_3L_3R_3\right) + s^2\left(C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_2C_3R_1R_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_2R_1 + C_2R_3 + C_3R_1R_3g_m + C_3R_3\right) + 1}$ **10.225** INVALID-ORDER-225 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3R_1R_2R_3s^2 + R_1R_2g_m + R_1 + s\left(C_2R_1R_2 + C_3R_1R_2R_3g_m + C_3R_1R_3\right)}{C_1C_2C_3R_1R_2R_3s^3 + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_1C_3R_1R_3 + C_2C_3R_1R_2 + C_2C_3R_2R_3\right) + s\left(C_1R_1 + C_2R_2 + C_3R_1R_2g_m + C_3R_1 + C_3R_2 + C_3R_3\right) + 1}$ **10.226** INVALID-ORDER-226 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_3R_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^2\left(C_3L_3R_1R_2g_m + C_3L_3R_1\right)}{C_1C_2C_3L_3R_1R_2s^4 + s^3\left(C_1C_3L_3R_1 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_2C_3R_1R_2 + C_3L_3\right) + s\left(C_1R_1 + C_2R_2 + C_3R_1R_2g_m + C_3R_1 + C_3R_2\right) + 1}$ 10.227 INVALID-ORDER-227 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2L_3R_1R_2s^2 + s\left(L_3R_1R_2g_m + L_3R_1\right)}{R_1R_2g_m + R_1 + R_2 + s^3\left(C_1C_2L_3R_1R_2 + C_1C_3L_3R_1R_2 + C_2C_3L_3R_1R_2\right) + s^2\left(C_1L_3R_1 + C_2L_3R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_2\right) + s\left(C_1R_1R_2 + C_2R_1R_2 + L_3\right)}$ 10.228 INVALID-ORDER-228 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_3R_1R_2s^3 + R_1R_2g_m + R_1 + s^2\left(C_2C_3R_1R_2R_3 + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s\left(C_2R_1R_2 + C_3R_1R_2R_3g_m + C_3R_1R_3\right)}{C_1C_2C_3L_3R_1R_2s^4 + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_3L_3R_1 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_1C_3R_1R_3 + C_2C_3R_1R_2 + C_2C_3R_2R_3 + C_3L_3\right) + s\left(C_1R_1 + C_2R_2 + C_3R_1R_2g_m + C_3R_1R_2g_m + C_3R_1R_2\right) + s\left(C_1R_1 + C_2R_2 + C_3R_1R_2\right) + s\left(C_1R_1 + C_2R_2\right) + s\left(C_1R_1$$

10.229 INVALID-ORDER-229
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_3R_1R_2R_3s^2 + s\left(L_3R_1R_2R_3g_m + L_3R_1R_3\right)}{R_1R_2R_3g_m + R_1R_3 + R_2R_3 + s^3\left(C_1C_2L_3R_1R_2R_3 + C_2C_3L_3R_1R_2R_3 + C_2L_3R_1R_2 + C_2L_3R_1R$$

10.230 INVALID-ORDER-230
$$Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2C_3L_3R_1R_2R_3s^3 + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_3R_1R_2 + C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_3\right) + s\left(C_2R_1R_2R_3 + L_3R_1R_2g_m + L_3R_1\right)}{C_1C_2C_3L_3R_1R_2R_3s^4 + R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_2L_3R_1R_2 + C_1C_3L_3R_1R_3 + C_2C_3L_3R_1R_2 + C_2C_3L_3R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_3L_3R_1 +$$

10.231 INVALID-ORDER-231 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_3R_1R_2R_3s^3 + C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_3L_3R_1R_2R_3g_m + C_3L_3R_1R_2\right)}{C_1C_2C_3L_3R_1R_2R_3s^4 + R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_3L_3R_1R_2 + C_2C_3L_3R_1R_2 + C_2C_3L_3R_1R_2R_3 + C_2C_3R_1R_2R_3 + C_2C_3R_1R_2R_3 + C_2C_3R_1R_2R_3 + C_3L_3R_1R_2g_m + C_3L_3R_1 + C_3L_3R_2 + C_3L_3R_1 + C_3L_3R_1$

10.232 INVALID-ORDER-232 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 g_m + s \left(C_2 R_1 R_2 g_m + C_2 R_1 \right)}{C_1 C_2 C_3 R_1 R_2 s^3 + s^2 \left(C_1 C_2 R_1 + C_1 C_3 R_1 + C_2 C_3 R_1 R_2 g_m + C_2 C_3 R_1 + C_2 C_3 R_2 \right) + s \left(C_2 + C_3 R_1 g_m + C_3 C_3 R_1 R_2 g_m + C_3$$

10.233 INVALID-ORDER-233 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

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

10.234 INVALID-ORDER-234 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1 g_m + s^2 \left(C_2 C_3 R_1 R_2 R_3 g_m + C_2 C_3 R_1 R_3 \right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 + C_3 R_1 R_3 g_m \right)}{s^3 \left(C_1 C_2 C_3 R_1 R_2 + C_1 C_2 C_3 R_1 R_3 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_3 R_1 + C_2 C_3 R_1 R_2 g_m + C_2 C_3 R_1 + C_2 C_3 R_2 + C_2 C_3 R_3 \right) + s \left(C_2 + C_3 R_1 g_m + C_3 C_3 R_1 R_2 g_m + C_3 C_3 R_1 R_2 g_m + C_3 C_3 R_1 R_2 g_m \right)}$$

10.235 INVALID-ORDER-235 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_3L_3R_1g_ms^2 + R_1g_m + s^3\left(C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1\right) + s\left(C_2R_1R_2g_m + C_2R_1\right)}{C_1C_2C_3L_3R_1s^4 + s^3\left(C_1C_2C_3R_1R_2 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_2\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$$

10.236 INVALID-ORDER-236 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_3 R_1 g_m s + s^2 \left(C_2 L_3 R_1 R_2 g_m + C_2 L_3 R_1\right)}{C_1 C_2 C_3 L_3 R_1 R_2 s^4 + R_1 g_m + s^3 \left(C_1 C_2 L_3 R_1 + C_1 C_3 L_3 R_1 + C_2 C_3 L_3 R_1 + C_2 C_3 L_3 R_1 + C_2 C_3 L_3 R_2\right) + s^2 \left(C_1 C_2 R_1 R_2 + C_2 L_3 + C_3 L_3 R_1 g_m + C_3 L_3\right) + s \left(C_1 R_1 + C_2 R_1 R_2 g_m + C_2 R_1 + C_2 R_2\right) + 1}$$

10.237 INVALID-ORDER-237 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_1g_m + s^3\left(C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1\right) + s^2\left(C_2C_3R_1R_2R_3g_m + C_2C_3R_1R_3 + C_3L_3R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_3R_1R_3g_m\right)}{C_1C_2C_3L_3R_1s^4 + s^3\left(C_1C_2C_3R_1R_2 + C_1C_2C_3R_1R_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_2 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3R_1\right)}$$

10.238 INVALID-ORDER-238 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$L_3R_1R_3g_ms + s^2\left(C_2L_3R_1R_2R_3g_m + C_2L_3R_1R_3\right)$$

$$H(s) = \frac{L_3 R_1 R_3 g_m s + s^2 \left(C_2 L_3 R_1 R_2 R_3 g_m + C_2 L_3 R_1 R_3\right)}{C_1 C_2 C_3 L_3 R_1 R_2 R_3 s^4 + R_1 R_3 g_m + R_3 + s^3 \left(C_1 C_2 L_3 R_1 R_2 + C_1 C_2 L_3 R_1 R_3 + C_2 C_3 L_3 R_1 R_3 + C_2 C_3 L_3 R_1 R_3 + C_2 C_3 L_3 R_1 R_2 R_3 + C_1 L_3 R_1 + C_2 L_3 R_1 R_2 g_m + C_2 L_3 R_1 + C_2 L_3 R_1 R_2 g_m + C_$$

10.239 INVALID-ORDER-239 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

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10.240 INVALID-ORDER-240 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, R_2 + \frac{1}{C_2s}, \frac{R_3(C_2C_2s^2+1)}{C_2C_3s^2+C_2R_2s^2+1}, \infty, \infty, \infty\right)
\frac{C_3L_3R_1R_3g_{ms}s^2 + R_1R_3g_{ms} + s^3(C_2C_3L_3R_1R_2R_3g_{ms} + C_2C_3L_3R_1R_3) + s(C_2R_1R_2R_3g_{ms} + C_2R_1R_3g_{ms} + C_2R_1R_2R_3g_{ms} + C_2R_1R_2R_2g_{ms} + C_2R_1R_2g_{ms} + C_2R_2R_2g_{ms} + C_2R_2R_2g_{ms}
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 $\textbf{10.244} \quad \textbf{INVALID-ORDER-244} \ \ Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \ L_2s + \frac{1}{C_2s}, \ R_3 + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty, \ \infty\right)$ $H(s) = \frac{C_2C_3L_2R_1R_3g_ms^3 + R_1g_m + s^2\left(C_2C_3R_1R_3 + C_2L_2R_1g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{C_1C_2C_3L_2R_1s^4 + s^3\left(C_1C_2C_3R_1R_3 + C_2C_3L_2R_1g_m + C_2C_3L_2\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}$

 $\begin{aligned} \textbf{10.245} \quad \textbf{INVALID-ORDER-245} \ \ Z(s) &= \left(\frac{R_1}{C_1R_1s+1}, \ L_2s + \frac{1}{C_2s}, \ L_3s + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right) \\ & H(s) &= \frac{C_2C_3L_2L_3R_1g_ms^4 + C_2C_3L_3R_1s^3 + C_2R_1s + R_1g_m + s^2\left(C_2L_2R_1g_m + C_3L_3R_1g_m\right)}{s^4\left(C_1C_2C_3L_2R_1 + C_1C_2C_3L_3R_1\right) + s^3\left(C_2C_3L_2R_1g_m + C_2C_3L_2 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1\right) + s\left(C_2 + C_3R_1g_m + C_3\right)} \end{aligned}$

10.248 INVALID-ORDER-248 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2L_2R_1R_3g_ms^3 + C_2L_3R_1R_3g^2 + L_3R_1R_3g_ms}{C_1C_2C_3L_2L_3R_1R_3s^5 + R_1R_3g_m + R_3 + s^4\left(C_1C_2L_2L_3R_1 + C_2C_3L_2L_3R_1R_3g_m + C_2C_3L_2R_1R_3 + C_1C_2L_3R_1R_3 + C_2C_3L_3R_1R_3 + C_2C_3L_3R_1R_3 + C_2L_2L_3R_1g_m + C_2L_2R_1R_3g_m +$

10.249 INVALID-ORDER-249 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2C_3L_2L_3R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_2C_3L_3R_1R_3 + C_2L_2L_3R_1g_m\right) + s^2\left(C_2L_2R_1R_3g_m + C_2L_3R_1 + C_3L_3R_1R_3g_m\right) + s\left(C_2R_1R_3 + L_3R_1g_m\right)}{C_1C_2C_3L_2L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2C_3L_3R_1R_3 + C_2C_3L_2L_3\right) + s^3\left(C_1C_2L_2R_1 + C_1C_2L_3R_1 + C_2C_3L_3R_1\right) + s^2\left(C_1C_2R_1R_3 + C_2L_2R_1g_m + C_2L_2 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_2R_1 + C_2R$

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H(s) = \frac{C_2C_3L_2L_3R_1R_3g_ms^4 + C_2C_3L_3R_1R_3s^3 + C_2R_1R_3s + R_1R_3g_m + s^2\left(C_2L_2R_1R_3g_m + C_3L_3R_1R_3g_m\right)}{C_1C_2C_3L_2L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2C_3L_2R_1R_3 + C_2C_3L_2R_1R_3 + C_2C_3L_3R_1 + C_2C_3L_2R_1R_3 + C_2C_3L_2R
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                       H(s) = \frac{C_2L_2R_1R_3g_ms^2 + R_1R_3g_m + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3\right)}{C_1C_2L_2R_1s^3 + R_1q_m + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_2L_2R_1q_m + C_2L_2\right) + s\left(C_1R_1 + C_2R_1R_2q_m + C_2R_1 + C_2R_2 + C_2R_3\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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3L_2R_1s^4 + s^3\left(C_1C_2C_3R_1R_2 + C_2C_3L_2R_1g_m + C_2C_3L_2\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_2\right) + s\left(C_2 + C_3R_1g_m + C_3\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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_2R_1R_3g_ms^2 + R_1R_3g_m + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3\right)}{C_1C_2C_3L_2R_1R_3s^4 + R_1g_m + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2L_2R_1 + C_2C_3L_2R_1R_3g_m + C_2C_3L_2R_1R_3 + C_1C_2R_1R_3 + C_2C_3R_1R_3 + C_2C_3R_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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                    H(s) = \frac{C_2C_3L_2R_1R_3g_ms^3 + R_1g_m + s^2\left(C_2C_3R_1R_2R_3g_m + C_2C_3R_1R_3 + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_3R_1R_3g_m\right)}{C_1C_2C_3L_2R_1s^4 + s^3\left(C_1C_2C_3R_1R_2 + C_1C_2C_3R_1R_3 + C_2C_3L_2R_1g_m + C_2C_3L_2\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3C_3R_1R_2g_m + C_3
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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                              H(s) = \frac{C_2C_3L_2L_3R_1g_ms^4 + R_1g_m + s^3\left(C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1\right) + s^2\left(C_2L_2R_1g_m + C_3L_3R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1\right)}{s^4\left(C_1C_2C_3L_2R_1 + C_1C_2C_3L_3R_1\right) + s^3\left(C_1C_2C_3R_1R_2 + C_2C_3L_2R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2g_m + C_2C_3R_1\right) + s\left(C_2R_1R_2g_m + C_2C_3R_1R_2g_m + C_2C_3R_1R_2g_m + C_2C_3R_1R_2g_m\right) + s\left(C_2R_1R_2g_m + C_2C_3R_1R_2g_m + C_2C_3R_1R_2g_m + C_2C_3R_1R_2g_m\right) + s\left(C_2R_1R_2g_m + C_2C_3R_1R_2g_m\right) + s\left(C_2R_1R_2g_m
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_2R_1g_ms^3 + L_3R_1g_ms + s^2\left(C_2L_3R_1R_2g_m + C_2L_3R_1\right)}{C_1C_2C_3L_2L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2C_3L_3R_1R_2 + C_2C_3L_2L_3R_1g_m + C_2C_3L_2R_1 + C_1C_2L_3R_1 + C_1C_3L_3R_1 + C_2C_3L_3R_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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                 H(s) = \frac{C_2C_3L_2L_3R_1g_ms^4 + R_1g_m + s^3\left(C_2C_3L_2R_1R_3g_m + C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1\right) + s^2\left(C_2C_3R_1R_2R_3g_m + C_2C_3R_1R_3 + C_2L_2R_1g_m + C_3L_3R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_3R_1R_3g_m\right)}{s^4\left(C_1C_2C_3L_2R_1 + C_1C_2C_3L_3R_1\right) + s^3\left(C_1C_2C_3R_1R_3 + C_2C_3L_2R_1g_m + C_2C_3L_2 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_2L_2L_3R_1R_3g_ms^3 + L_3R_1R_3g_ms + s^2(C_2L_3R_1R_2R_3g_ms^3)
H(s) = \frac{C_2L_2L_3R_1R_3g_m + R_3 + s^4(C_1C_2C_3L_3R_1R_3g_m + R_3 + s^4(C_1C_2C_3L_3R_1R_3g_m + C_2C_3L_2L_3R_1 + C_2C_3L_2L_3R_1 + C_2C_3L_2L_3R_1 + C_2C_3L_2L_3R_1 + C_2C_3L_2L_3R_1 + C_2C_3L_2L_3R_1 + C_2C_3L_3R_1R_3 + 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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
                                              \frac{C_{2}C_{3}L_{2}L_{3}R_{1}R_{3}g_{m}+s^{3}\left(C_{2}C_{3}L_{3}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{3}R_{1}R_{3}+C_{2}L_{2}L_{3}R_{1}g_{m}\right)+s^{2}\left(C_{2}L_{2}R_{1}R_{3}g_{m}+C_{2}L_{3}R_{1}R_{2}g_{m}+C_{2}L_{3}R_{1}R_{2}g_{m}+C_{2}L_{3}R_{1}R_{3}g_{m}\right)+s\left(C_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{2}R_{1}R_{3}g_{m}+C_{
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10.250 INVALID-ORDER-250 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, L_2 s + \frac{1}{C_2 s}, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

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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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         H(s) = \frac{C_2C_3L_2L_3R_1R_3g_ms + R_1R_3g_ms + R_1R_3g_m + s + (C_2C_3L_3R_1R_3 + C_2C_3L_3R_1R_3 + C_2C_3L_2R_1R_3 + 
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, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                        H(s) = \frac{L_2R_1R_3g_ms + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_3\right) + s^2\left(C_1L_2R_1 + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_2 + C_2L_2R_3\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + L_2R_1g_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, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3 L_2 R_1 R_2 s^4 + s^3 \left(C_1 C_2 L_2 R_1 + C_1 C_3 L_2 R_1 + C_2 C_3 L_2 R_1 R_2 g_m + C_2 C_3 L_2 R_1\right) + s^2 \left(C_1 C_3 R_1 R_2 + C_2 L_2 + C_3 L_2 R_1 g_m + C_3 L_2\right) + s \left(C_1 R_1 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_1 R_2 g_m + C_3 
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, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{L_2R_1R_3g_ms + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{C_1C_2C_3L_2R_1R_2R_3s^4 + R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_3 + C_2C_3L_2R_1R_3 + C
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, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
       H(s) = \frac{R_1R_2g_m + R_1 + s^3\left(C_2C_3L_2R_1R_2R_3g_m + C_2C_3L_2R_1R_3g_m + C_2L_2R_1 + C_3L_2R_1R_3g_m\right) + s\left(C_3R_1R_2R_3g_m + C_3R_1R_3 + L_2R_1g_m\right)}{s^4\left(C_1C_2C_3L_2R_1R_2 + C_2C_3L_2R_1 + 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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                \frac{C_3L_2L_3R_1g_ms^3 + L_2R_1g_ms + R_1R_2g_m + R_1 + s^4\left(C_2C_3L_2L_3R_1R_2g_m + C_2C_3L_2L_3R_1\right) + s^2\left(C_2L_2R_1R_2g_m + C_2L_2R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1\right)}{C_1C_2C_3L_2L_3R_1s^5 + s^4\left(C_1C_2C_3L_2R_1R_2 + C_2C_3L_2R_1 + C_1C_3L_2R_1 + C_1C_3L_2R_1 + C_2C_3L_2R_1R_2g_m + C_2C_3L_2R_1\right) + s^2\left(C_1C_3R_1R_2 + C_2L_2R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s^2\left(C_1C_3R_1R_2 + C_2C_3L_2R_1R_2g_m + C_3L_3R_1\right) + s^2\left(C_1C_3R_1R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s^2\left(C_1C_3R_1R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1R_
10.266 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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{L_2L_3R_1g_ms^2 + s^3\left(C_2L_2L_3R_1R_2g_m + C_2L_2L_3R_1\right) + s\left(L_3R_1R_2g_m + L_3R_1\right)}{C_1C_2C_3L_2L_3R_1R_2s^5 + R_1R_2g_m + R_1 + R_2 + s^4\left(C_1C_2L_2L_3R_1 + C_2C_3L_2L_3R_1 + 
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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                         \frac{R_{1}R_{2}g_{m}+R_{1}+s^{4}\left(C_{2}C_{3}L_{2}L_{3}R_{1}R_{2}g_{m}+C_{2}C_{3}L_{2}L_{3}R_{1}\right)+s^{3}\left(C_{2}C_{3}L_{2}R_{1}R_{2}g_{m}+C_{2}C_{3}L_{2}R_{1}R_{3}+C_{3}L_{2}L_{3}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_{3}L_{2}R_{1}R_{3}g_{m}+C_{3}L_{3}R_{1}\right)+s\left(C_{3}R_{1}R_{2}R_{3}g_{m}+C_{3}L_{3}R_{1}+C_{4}R_{2}R_{3}g_{m}+C_{4}R_{2}R_{3}R_{2}+C_{4}R_{2}R_{3}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}R_{2}+C_{4}R_{2}R_{2}+C_{4}R_{2}R_{2}+C_{4}R_{2}R_{2}+C_{4}R_{2}R_{2}+C_{4}R_{2}R_{2}+C_{4}R_{2}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{2}+C_{4}R_{
10.268 INVALID-ORDER-268 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
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 $H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^4 \left(C_2 C_3 L_2 L_3 R_1 R_2 R_3 g_m + C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_2 L_2 L_3 R_1 + C_3 L_2 L_3 R_1 R_3 g_m + s^2 \left(C_2 L_2 R_1 R_2 R_3 g_m + C_2 L_2 L_3 R_1 R_2 g_m + C_2 L_2 L_3 R_1$

 $H(s) = \frac{L_2 L_3 R_1 R_2 R_3 s^5 + R_1 R_2 R_3 g_m + R_1 R_3 + R_2 R_3 + s^4 \left(C_1 C_2 L_2 L_3 R_1 R_2 + C_1 C_2 L_2 L_3 R_1 R_3 + C_2 C_3 L_2 L_3$

10.269 INVALID-ORDER-269 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

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10.270 INVALID-ORDER-270 Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
H(s) = \frac{C_3L_2L_3R_1R_3g_ms^3 + L_2R_1R_3g_ms + R_1R_2R_3g_m + C_2R_1R_3g_ms + R_1R_2R_3g_m +
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                   H(s) = \frac{C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_2L_2R_3\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + C_2R_1R_2 + C_2R_2R_3\right)}
10.272 INVALID-ORDER-272 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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3L_2R_1R_2s^4 + s^3\left(C_1C_2L_2R_1 + C_2C_3L_2R_1R_2g_m + C_2C_3L_2R_1 
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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
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 $\frac{C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{C_1C_2C_3L_2R_1R_2R_3s^4 + R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_2L_2R_1R_2 + C_1C_2L_2R_1R_3 + C_2C_3L_2R_1R_3 + C_2C_3L_2R_1R_2R_3 + C_2C_3L_2R_1R_2R_3 + C_2C_3R_1R_2R_3 + C_2C_3R_1R_3 + C_$

10.274 INVALID-ORDER-274 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_2 C_3 L_2 R_1 R_2 R_3 g_m + C_2 C_3 L_2 R_1 R_3\right) + s^2 \left(C_2 C_3 R_1 R_2 R_3 + C_2 L_2 R_1 R_2 g_m + C_2 L_2 R_1\right) + s \left(C_2 R_1 R_2 + C_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3\right)}{s^4 \left(C_1 C_2 C_3 L_2 R_1 R_2 + C_1 C_2 C_3 L_2 R_1 + C_2 C_3 L_2 R_1$

10.275 INVALID-ORDER-275 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2C_3L_3R_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^4\left(C_2C_3L_2L_3R_1R_2g_m + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1\right)}{C_1C_2C_3L_2L_3R_1s^5 + s^4\left(C_1C_2C_3L_2R_1R_2 + C_1C_3L_3R_1R_2 + C_2C_3L_2R_1 + C_2C_3L_2R$

10.276 INVALID-ORDER-276 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2L_3R_1R_2s^2 + s^3\left(C_2L_2L_3R_1R_2g_m + C_2L_2L_3R_1\right) + s\left(L_3R_1R_2g_m + L_3R_1\right)}{C_1C_2C_3L_2L_3R_1R_2s^5 + R_1R_2g_m + R_1 + R_2 + s^4\left(C_1C_2L_2R_1R_2g_m + C_2C_3L_2R_1 + C_2C_3L_2R_1R_2 + C_1C_3L_3R_1R_2 + C_2C_3L_3R_1R_2 + C_2C_3L_3R_1 + C_2C_3L_3R_1 + C_2C_3L_3R_1 + C_2C_3L_3R_1 + C_2C_3L_3R_1 + C_2C_3L_3R_1 +$

10.277 INVALID-ORDER-277 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1R_2g_m + R_1 + s^4\left(C_2C_3L_2L_3R_1R_2g_m + C_2C_3L_2L_3R_1\right) + s^3\left(C_2C_3L_2R_1R_3 + C_2C_3L_2R_1R_2 + C_2C_3L_2R_1R_2 + C_2L_2R_1 + C_3L_3R_1R_2 + C_2C_3L_2R_1 + C_3L_3R_1R_2\right) + s^2\left(C_2C_3R_1R_2R_3 + C_2L_2R_1R_2g_m + C_2L_2R_1 + C_3L_3R_1R_2 + C_2C_3L_2R_1 + C_3L_3R_1R_2 + C_3L_2R_1R_2 + C_3L_2R_1 + C_3L_3R_1 + C_3L_3R_1$

10.278 INVALID-ORDER-278 $Z(s) = \left(\frac{R_1}{C_1 R_1 s + 1}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

 $C_2L_3R_1R_2R_3s^2 + s^3(C_2L_2L_3R_1R_2R_3g_m - s^2)$

 $H(s) = \frac{C_2L_3R_1R_2R_3s^2 + s^2\left(C_2L_2L_3R_1R_2R_3g_m + C_2C_3L_2L_3R_1R_2R_3s^2 + s^2\left(C_2L_2L_3R_1R_2R_3g_m + C_2C_3L_2L_3R_1R_2R_3s^2 + s^2\left(C_2L_2L_3R_1R_2R_3s^2 + s^2\right) + s^2\left(C_2L_2L_3R_1R_$

10.279 INVALID-ORDER-279 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^4 \left(C_2 C_3 L_2 L_3 R_1 R_2 R_3 g_m + C_2 C_3 L_2 L_3 R_1 R_2 R_3 + C_2 L_2 L_3 R_1 R_2 g_m + C_2 L_2 L_3 R$

10.280 INVALID-ORDER-280 $Z(s) = \left(\frac{R_1}{C_1R_1s+1}, \frac{R_2\left(C_2L_2s^2+1\right)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2C_3L_3R_1R_2R_3s^3 + C_2R_1R_2R_3s + R_1R_2R_3g_m +$

10.281 INVALID-ORDER-281 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s \left(C_1 R_1 R_2 R_3 g_m + C_1 R_1 R_3\right)}{R_2 g_m + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_3\right) + 1}$$

10.282 INVALID-ORDER-282 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_2 g_m + s \left(C_1 R_1 R_2 g_m + C_1 R_1\right) + 1}{s^2 \left(C_1 C_3 R_1 R_2 g_m + C_1 C_3 R_1 + C_1 C_3 R_2\right) + s \left(C_1 + C_3 R_2 g_m + C_3\right)}$$

10.283 INVALID-ORDER-283 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_1 C_3 R_1 R_2 R_3 g_m + C_1 C_3 R_1 R_3 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_3 R_2 R_3 g_m + C_3 R_3 \right) + 1}{s^2 \left(C_1 C_3 R_1 R_2 q_m + C_1 C_3 R_1 + C_1 C_3 R_2 + C_1 C_3 R_3 \right) + s \left(C_1 + C_3 R_2 q_m + C_3 \right)}$$

10.284 INVALID-ORDER-284 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_3 L_3 R_1 R_2 g_m + C_1 C_3 L_3 R_1\right) + s^2 \left(C_3 L_3 R_2 g_m + C_3 L_3\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1\right) + 1}{C_1 C_3 L_3 s^3 + s^2 \left(C_1 C_3 R_1 R_2 g_m + C_1 C_3 R_1 + C_1 C_3 R_2\right) + s \left(C_1 + C_3 R_2 g_m + C_3\right)}$$

10.285 INVALID-ORDER-285 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^2 \left(C_1 L_3 R_1 R_2 g_m + C_1 L_3 R_1 \right) + s \left(L_3 R_2 g_m + L_3 \right)}{R_2 g_m + s^3 \left(C_1 C_3 L_3 R_1 R_2 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_2 \right) + s^2 \left(C_1 L_3 + C_3 L_3 R_2 g_m + C_3 L_3 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 \right) + 1}$$

10.286 INVALID-ORDER-286 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_2g_m + s^3\left(C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1\right) + s^2\left(C_1C_3R_1R_2R_3g_m + C_1C_3R_1R_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_3R_2R_3g_m + C_3R_3\right) + 1}{C_1C_3L_3s^3 + s^2\left(C_1C_3R_1R_2g_m + C_1C_3R_1 + C_1C_3R_2 + C_1C_3R_3\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_3g_m + C_3R_3g_m + C_3R_3\right) + s\left(C_1+C_3R_3g_m + C_3R_3g_m + C$$

10.287 INVALID-ORDER-287 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^2 \left(C_1 L_3 R_1 R_2 R_3 g_m + C_1 L_3 R_1 R_3 \right) + s \left(L_3 R_2 R_3 g_m + L_3 R_3 \right)}{R_2 R_3 g_m + R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_2 R_3 g_m + C_1 C_3 L_3 R_1 R_3 + C_1 C_3 L_3 R_1 R_2 R_3 \right) + s^2 \left(C_1 L_3 R_1 R_2 g_m + C_1 L_3 R_1 + C_1 L_3 R_2 + C_1 L_3 R_3 + C_3 L_3 R_3 \right) + s \left(C_1 R_1 R_2 R_3 g_m + C_1 R_1 R_3 + C_1 R_2 R_3 + L_3 R_2 g_m + L_3 R_3 \right)}$$

$$\textbf{10.288} \quad \textbf{INVALID-ORDER-288} \ Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty \right)$$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s^3 \left(C_1 C_3 L_3 R_1 R_2 R_3 g_m + C_1 C_3 L_3 R_1 R_3 \right) + s^2 \left(C_1 L_3 R_1 R_2 g_m + C_1 L_3 R_1 + C_3 L_3 R_2 R_3 g_m + C_3 L_3 R_3 \right) + s \left(C_1 R_1 R_2 R_3 g_m + C_1 R_1 R_3 + L_3 R_2 g_m + L_3 \right) }{R_2 g_m + s^3 \left(C_1 C_3 L_3 R_1 R_2 g_m + C_1 C_3 L_3 R_1 + C_1 C_3 L_3 R_2 + C_1 C_3 L_3 R_3 \right) + s^2 \left(C_1 L_3 + C_3 L_3 R_2 g_m + C_3 L_3 \right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_3 \right) + 1 }$$

10.290 INVALID-ORDER-290 $Z(s) = \left(R_1 + \frac{1}{C_{1s}}, \frac{1}{C_{2s}}, \frac{1}{C_{2s}}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1 C_2 R_1 s^2 + g_m + s \left(C_1 R_1 g_m + C_2\right)}{C_1 C_2 C_3 R_1 s^3 + C_3 g_m s + s^2 \left(C_1 C_2 + C_1 C_3 R_1 g_m + C_1 C_3 + C_2 C_3\right)}$$

10.291 INVALID-ORDER-291 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2R_1R_3s^2 + R_3g_m + s\left(C_1R_1R_3g_m + C_2R_3\right)}{C_1C_2C_3R_1R_3s^3 + g_m + s^2\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_3R_1R_3g_m + C_1C_3R_3 + C_2C_3R_3\right) + s\left(C_1R_1g_m + C_1 + C_2 + C_3R_3g_m\right)}$$

10.292 INVALID-ORDER-292 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1 C_2 C_3 R_1 R_3 s^3 + g_m + s^2 \left(C_1 C_2 R_1 + C_1 C_3 R_1 R_3 g_m + C_2 C_3 R_3 \right) + s \left(C_1 R_1 g_m + C_2 + C_3 R_3 g_m \right)}{C_3 g_m s + s^3 \left(C_1 C_2 C_3 R_1 + C_1 C_2 C_3 R_3 \right) + s^2 \left(C_1 C_2 + C_1 C_3 R_1 g_m + C_1 C_3 + C_2 C_3 \right)}$$

10.293 INVALID-ORDER-293 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1 C_2 C_3 L_3 R_1 s^4 + g_m + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_2 C_3 L_3 \right) + s^2 \left(C_1 C_2 R_1 + C_3 L_3 g_m \right) + s \left(C_1 R_1 g_m + C_2 \right)}{C_1 C_2 C_3 L_3 s^4 + C_1 C_2 C_3 R_1 s^3 + C_3 g_m s + s^2 \left(C_1 C_2 + C_1 C_3 R_1 g_m + C_1 C_3 + C_2 C_3 \right)}$$

10.294 INVALID-ORDER-294 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_3R_1s^3 + L_3g_ms + s^2\left(C_1L_3R_1g_m + C_2L_3\right)}{C_1C_2C_3L_3R_1s^4 + g_m + s^3\left(C_1C_2L_3 + C_1C_3L_3R_1g_m + C_1C_3L_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_1 + C_2\right)}$$

10.295 INVALID-ORDER-295 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2C_3L_3R_1s^4 + g_m + s^3\left(C_1C_2C_3R_1R_3 + C_1C_3L_3R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1R_3g_m + C_2C_3R_3 + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2 + C_3R_3g_m\right)}{C_1C_2C_3L_3s^4 + C_3g_ms + s^3\left(C_1C_2C_3R_1 + C_1C_2C_3R_3\right) + s^2\left(C_1C_2 + C_1C_3R_1g_m + C_1C_3 + C_2C_3\right)}$$

10.296 INVALID-ORDER-296 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_3R_1R_3s^3 + L_3R_3g_ms + s^2\left(C_1L_3R_1R_3g_m + C_2L_3R_3\right)}{C_1C_2C_3L_3R_1R_3s^4 + R_3g_m + s^3\left(C_1C_2L_3R_1 + C_1C_2L_3R_3 + C_1C_3L_3R_1R_3g_m + C_1C_3L_3R_3\right) + s^2\left(C_1C_2R_1R_3 + C_1L_3R_1g_m + C_1L_3 + C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1R_3 + C_2R_3 + L_3g_m\right)}$$

$$\begin{aligned} \textbf{10.297} \quad \textbf{INVALID-ORDER-297} \ Z(s) &= \left(R_1 + \frac{1}{C_1 s}, \ \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty \right) \\ & H(s) &= \frac{C_1 C_2 C_3 L_3 R_1 R_3 s^4 + R_3 g_m + s^3 \left(C_1 C_2 L_3 R_1 + C_1 C_3 L_3 R_1 R_3 g_m + C_2 C_3 L_3 R_3 \right) + s^2 \left(C_1 C_2 R_1 R_3 + C_1 L_3 R_1 g_m + C_2 L_3 + C_3 L_3 R_3 g_m \right) + s \left(C_1 R_1 R_3 g_m + C_2 R_3 + L_3 g_m \right) \\ & g_m + s^4 \left(C_1 C_2 C_3 L_3 R_1 + C_1 C_2 C_3 L_3 R_3 \right) + s^3 \left(C_1 C_2 L_3 + C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_2 C_3 L_3 \right) + s^2 \left(C_1 C_2 R_1 + C_1 C_2 R_3 + C_3 L_3 g_m \right) + s \left(C_1 R_1 g_m + C_1 + C_2 \right) \end{aligned}$$

10.299 INVALID-ORDER-299 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2R_1R_2s^2 + R_2g_m + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}{C_1C_2C_3R_1R_2s^3 + s^2\left(C_1C_2R_2 + C_1C_3R_1R_2g_m + C_1C_3R_1 + C_1C_3R_2 + C_2C_3R_2\right) + s\left(C_1 + C_3R_2g_m + C_3\right)}$$

10.300 INVALID-ORDER-300 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2R_1R_2R_3s^2 + R_2R_3g_m + R_3 + s\left(C_1R_1R_2R_3g_m + C_1R_1R_3 + C_2R_2R_3\right)}{C_1C_2C_3R_1R_2R_3s^3 + R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_3R_1R_2R_3g_m + C_1C_3R_1R_3 + C_2C_3R_2R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_1R_3 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + 1}$$

10.301 INVALID-ORDER-301 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2C_3R_1R_2R_3s^3 + R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2R_3g_m + C_1C_3R_1R_3 + C_2C_3R_2R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + 1}{s^3\left(C_1C_2C_3R_1R_2 + C_1C_2C_3R_2R_3\right) + s^2\left(C_1C_2R_2 + C_1C_3R_1R_2g_m + C_1C_3R_1 + C_1C_3R_2 + C_1C_3R_3 + C_2C_3R_2\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_3R_3 + C_3R_3\right$$

10.302 INVALID-ORDER-302 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2C_3L_3R_1R_2s^4 + R_2g_m + s^3\left(C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}{C_1C_2C_3L_3R_2s^4 + s^3\left(C_1C_2C_3R_1R_2 + C_1C_3L_3\right) + s^2\left(C_1C_2R_2 + C_1C_3R_1R_2g_m + C_1C_3R_1 + C_1C_3R_2 + C_2C_3R_2\right) + s\left(C_1+C_3R_2g_m + C_3\right)}$$

10.303 INVALID-ORDER-303 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_3R_1R_2s^3 + s^2\left(C_1L_3R_1R_2g_m + C_1L_3R_1 + C_2L_3R_2\right) + s\left(L_3R_2g_m + L_3\right)}{C_1C_2C_3L_3R_1R_2s^4 + R_2g_m + s^3\left(C_1C_2L_3R_2 + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_2 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1L_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_2R_2\right) + 1}$$

10.304 INVALID-ORDER-304 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2C_3L_3R_1R_2s^4 + R_2g_m + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2R_3g_m + C_1C_3R_1R_3 + C_2C_3R_2R_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + 1}{C_1C_2C_3L_3R_2s^4 + s^3\left(C_1C_2C_3R_1R_2 + C_1C_3R_2R_3 + C_1C_3R_3R_2 + C_1C_3R_1R_2g_m + C_1C_3R_1R_2g$$

10.305 INVALID-ORDER-305 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_3R_1R_2R_3s^3 + s^2\left(C_1L_3R_1R_2R_3g_m + C_1L_3R_1R_3 + C_2L_3R_2R_3\right) + s\left(L_3R_2R_3g_m + L_3R_3\right)}{C_1C_2C_3L_3R_1R_2R_3s^4 + R_2R_3g_m + R_3 + s^3\left(C_1C_2L_3R_1R_2 + C_1C_2L_3R_2R_3 + C_1C_3L_3R_1R_3 + C_1C_3L_3R_2R_3 + C_2C_3L_3R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1L_3R_1R_2R_3g_m + C_1L_3R_1 + C_1L_3R_2 + C_1L_3R_3 + C_2L_3R_2 + C_3L_3R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1L_3R_1R_2R_3g_m + C_1L_3R_1R_3R_3g_m + C_1L_3R_3R_3g_m + C_1L_3R_3g_m + C_1L_3R_3R_3g_m$$

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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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
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 $H(s) = \frac{C_1C_2C_3L_3R_1R_2R_3s^4 + R_2R_3g_m + R_3 + s^3\left(C_1C_2L_3R_1R_2 + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_3 + C_2C_3L_3R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1L_3R_1 + C_2L_3R_2 + C_3L_3R_2R_3 + C_3L_3R_3\right) + s\left(C_1R_1R_2R_3g_m + C_1R_1R_3 + C_2R_2R_3 + L_3R_2g_m + C_1R_1R_2R_3g_m + C_1R_1R_2R_3g_$

10.307 INVALID-ORDER-307
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2C_3L_3R_1R_2R_3s^4 + R_2R_3g_m + R_3 + s^3\left(C_1C_3L_3R_1R_2R_3g_m + C_1C_3L_3R_1R_3 + C_2C_3L_3R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_3L_3R_2R_3g_m + C_3L_3R_3\right) + s\left(C_1R_1R_2R_3g_m + C_1R_1R_3 + C_2R_2R_3\right)}{R_2g_m + s^4\left(C_1C_2C_3L_3R_1R_2 + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1 + C_1C_3L_3R_2 + C_1C_3L_3R_2 + C_1C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1C_3R_1R_2 + C_1C_3R$

10.308 INVALID-ORDER-308 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{g_m + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 \right) + s \left(C_1 R_1 g_m + C_2 R_2 g_m + C_2 \right)}{C_3 g_m s + s^3 \left(C_1 C_2 C_3 R_1 R_2 g_m + C_1 C_2 C_3 R_1 + C_1 C_2 C_3 R_2 \right) + s^2 \left(C_1 C_2 + C_1 C_3 R_1 g_m + C_1 C_3 + C_2 C_3 R_2 g_m + C_2 C_3 \right)}$$

10.309 INVALID-ORDER-309 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{R_3g_m + s^2\left(C_1C_2R_1R_2R_3g_m + C_1C_2R_1R_3\right) + s\left(C_1R_1R_3g_m + C_2R_2R_3g_m + C_2R_3\right)}{g_m + s^3\left(C_1C_2C_3R_1R_2R_3g_m + C_1C_2R_3R_3\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_3 + C_1C_3R_1R_3g_m + C_2C_3R_3g_m + C_2C_3R_3\right) + s\left(C_1R_1g_m + C_1 + C_2R_2g_m + C_2 + C_3R_3g_m\right)}$$

10.310 INVALID-ORDER-310 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{g_m + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 R_1 R_3\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 C_3 R_1 R_3 g_m + C_2 C_3 R_2 R_3 g_m + C_2 C_3 R_3\right) + s \left(C_1 R_1 g_m + C_2 R_2 g_m + C_2 + C_3 R_3 g_m\right)}{C_3 g_m s + s^3 \left(C_1 C_2 C_3 R_1 R_2 g_m + C_1 C_2 C_3 R_1 + C_1 C_2 C_3 R_2 + C_1 C_2 C_3 R_3\right) + s^2 \left(C_1 C_2 + C_1 C_3 R_1 g_m + C_1 C_3 + C_2 C_3 R_2 g_m + C_2 C_3 R_3\right)}$$

10.311 INVALID-ORDER-311 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_3 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_3 R_1\right) + s^3 \left(C_1 C_3 L_3 R_1 g_m + C_2 C_3 L_3 R_2 g_m + C_2 C_3 L_3\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_3 L_3 g_m\right) + s \left(C_1 R_1 g_m + C_2 R_2 g_m + C_2 C_3 L_3\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 R_2 g_m + C_2 C_3 R_2\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_3 R_1 g_m + C_1 C_3 R_2 g_m + C_2 C_3\right)}$$

10.312 INVALID-ORDER-312 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_3 g_m s + s^3 \left(C_1 C_2 L_3 R_1 R_2 g_m + C_1 C_2 L_3 R_1\right) + s^2 \left(C_1 L_3 R_1 g_m + C_2 L_3 R_2 g_m + C_2 L_3\right)}{g_m + s^4 \left(C_1 C_2 C_3 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_3 R_1 + C_1 C_2 C_3 L_3 R_2\right) + s^3 \left(C_1 C_2 L_3 + C_1 C_3 L_3 R_1 g_m + C_1 C_3 L_3 + C_2 C_3 L_3 R_2 g_m + C_2 C_3 L_3\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 C_2 R_2 + C_3 L_3 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 C_2 R_2 + C_3 L_3 R_2 g_m\right) + s \left(C_1 R_1 g_m + C_1 R_2 g_m + C_1 R_2 g_m\right) + s \left(C_1 R_1 g_m\right) + s \left(C_1 R_1 g_m\right)$$

10.313 INVALID-ORDER-313 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_3 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_3 R_1 \right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 R_1 R_3 + C_1 C_2 C_3 R_1 R_3 + C_1 C_2 C_3 R_1 R_3 + C_1 C_2 C_3 R_1 R_2 g_m + C_2 C_3 L_3 \right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 R_3 g_m + C_2 C_3 R_3 g_m + C_$$

10.314 INVALID-ORDER-314 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{L_3 R_3 g_m s + s^3 \left(C_1 C_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 L_3 R_1 R_3\right) + s^2 \left(C_1 L_3 R_1 R_3 g_m + C_2 L_3 R_2 R_3 g_m + C_2 L_3 R_3\right)}{R_3 g_m + s^4 \left(C_1 C_2 C_3 L_3 R_1 R_3 + C_1 C_2 L_3 R_3 R_3 + C_1 C_2 L_3 R_3 + C_1 C_2 L_3$$

10.315 INVALID-ORDER-315 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty\right)$

 $H(s) = \frac{R_3 g_m + s^4 \left(C_1 C_2 C_3 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_3 R_1 R_3 \right) + s^3 \left(C_1 C_2 L_3 R_1 R_2 g_m + C_1 C_2 L_3 R_1 + C_1 C_3 L_3 R_1 R_3 g_m + C_2 C_3 L_3 R_3 g_m + C_2 C_3 L_3 R_3 g_m + C_1 C_2 R_1 R_3 g_m + C_2 L_3 R_2 g_$

10.316 INVALID-ORDER-316 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

10.317 INVALID-ORDER-317 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_2R_1R_3g_ms^3 + R_3g_m + s^2\left(C_1C_2R_1R_3 + C_2L_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3\right)}{g_m + s^3\left(C_1C_2L_2R_1g_m + C_1C_2L_2\right) + s^2\left(C_1C_2R_1 + C_1C_2R_3 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_1 + C_2\right)}$$

10.318 INVALID-ORDER-318 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_1C_2L_2R_1g_ms^3 + g_m + s^2\left(C_1C_2R_1 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2\right)}{C_3g_ms + s^4\left(C_1C_2C_3L_2R_1g_m + C_1C_2C_3L_2\right) + s^3\left(C_1C_2C_3R_1 + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3R_1g_m + C_1C_3 + C_2C_3\right)}$$

10.319 INVALID-ORDER-319 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_2R_1R_3g_ms^3 + R_3g_m + s^2\left(C_1C_2R_1R_3 + C_2L_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3\right)}{g_m + s^4\left(C_1C_2C_3L_2R_1g_m + C_1C_2C_3L_2R_3\right) + s^3\left(C_1C_2C_3R_1R_3 + C_1C_2L_2 + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_3R_3 + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_1 + C_2 + C_3R_3g_m\right)}$$

10.320 INVALID-ORDER-320 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

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

10.321 INVALID-ORDER-321 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2C_3L_2L_3R_1g_ms^5 + g_m + s^4\left(C_1C_2C_3L_3R_1 + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_2R_1g_m + C_1C_3L_3R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s^2\left(C_1C_2R_1 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2C_3R_3\right) + s^2\left(C_1C_2$$

10.322 INVALID-ORDER-322 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_2R_1g_ms^4 + L_3g_ms + s^3\left(C_1C_2L_3R_1 + C_2L_2L_3g_m\right) + s^2\left(C_1L_3R_1g_m + C_2L_3\right)}{g_m + s^5\left(C_1C_2C_3L_2L_3R_1g_m + C_1C_2L_3L_2L_3\right) + s^4\left(C_1C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_2R_1g_m + C_1C_2L_3 + C_1C_2L_3 + C_1C_3L_3R_1g_m + C_1C_3L_3\right) + s^2\left(C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s^2\left(C_1C_2R_1 + C_2L_3g_m\right) + s^2\left(C_1C_2R_1 + C_2L_3g_m\right$$

10.323 INVALID-ORDER-323 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_2L_3R_1g_ms^5 + g_m + s^4\left(C_1C_2C_3L_2R_1R_3g_m + C_1C_2C_3L_3R_1 + C_2C_3L_2R_1g_m + C_1C_2L_2R_1g_m + C_1C_3L_3R_1g_m + C_2C_3L_2R_3g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1R_3g_m + C_2C_3R_3 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2C_3L_2R_1g_m + C_1C_2C_3L_2R_1g_m + C_2C_3L_2R_1g_m + C_2C_3L_2R_1g_$

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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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_1C_2L_2L_3R_1R_3g_ms^4 + L_3R_3g_ms + s^3(C_1C_2L_3R_1R_3 + C_2L_2L_3R_3g_m) + s^2(C_1L_3R_1R_3g_m + C_2L_3R_3)
                                            \frac{C_{1}C_{2}L_{2}L_{3}R_{1}R_{3}g_{m}s+s^{3}\left(C_{1}C_{2}L_{3}R_{1}R_{3}+C_{2}L_{2}L_{3}R_{3}g_{m}\right)+s^{2}\left(C_{1}L_{3}R_{1}R_{3}g_{m}+C_{2}L_{3}R_{3}\right)}{R_{3}g_{m}+s^{5}\left(C_{1}C_{2}C_{3}L_{2}L_{3}R_{1}g_{m}+C_{1}C_{2}L_{2}L_{3}R_{1}g_{m}+C_{1}C_{2}L_{2}R_{3}+C_{1}C_{2}L_{3}R_{3}g_{m}\right)+s^{3}\left(C_{1}C_{2}L_{3}R_{1}R_{3}g_{m}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3}+C_{1}C_{2}L_{3}R_{3
10.325 INVALID-ORDER-325 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_2L_3R_1R_3g_ms^5 + R_3g_m + s^4\left(C_1C_2C_3L_3R_1R_3 + C_1C_2L_2L_3R_1g_m + C_2C_3L_2L_3R_3g_m\right) + s^3\left(C_1C_2L_2R_1R_3g_m + C_1C_2L_3R_1 + C_1C_3L_3R_1R_3g_m + C_2C_3L_3R_3 + C_2L_2L_3g_m\right) + s^2\left(C_1C_2R_1R_3 + C_1L_3R_1g_m + C_2L_2R_3g_m + C_2L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2C_3L_3R_3g_m + C_2C_3L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2C_3L_3R_3g_m + C_2C_3L_3R_3g_m\right) + s\left(C_1C_2R_1R_3 + C_1C_2R_3R_3g_m + C_2C_3L_3R_3g_m\right) + s\left(C_1C_2R_1R_3 + C_1C_2R_3R_3g_m + C_2C_3L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2C_3L_3R_3g_m + C_2C_3L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2C_3L_3R_
10.326 INVALID-ORDER-326 Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_2L_3R_1R_3g_ms^5 + R_3g_m + s^4\left(C_1C_2C_3L_2R_1R_3g_m + C_1C_3L_2R_1R_3g_m + C_1C_3L_3R_1R_3g_m + C_2C_3L_2R_3R_3\right) + s^2\left(C_1C_2R_1R_3 + C_2L_2R_3g_m + C_3L_3R_3g_m\right) + s^2\left(C_1C_2R_1R_3 + C_2C_3L_2R_3g_m + C_3L_3R_3g_m\right) + s^2\left(C_1C_2R_1R_3g_m + C_1C_2L_2R_1g_m + C_1C_2L_2R_1g_m + C_1C_2L_2R_1g_m + C_1C_2L_2R_3g_m + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_1R_3g_m + C_2C_3L_2R_3g_m + C_2C_3L_2R_3g_m + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_1R_3g_m + C_2
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                    H(s) = \frac{C_1C_2L_2R_1R_3g_ms^3 + R_3g_m + s^2\left(C_1C_2R_1R_2R_3g_m + C_1C_2R_1R_3 + C_2L_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_2R_3g_m + C_2R_3\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_3 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_1 + C_2R_2g_m + C_2\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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3g_ms + s^4\left(C_1C_2C_3L_2R_1g_m + C_1C_2C_3L_2\right) + s^3\left(C_1C_2C_3R_1R_2g_m + C_1C_2C_3R_1 + C_1C_2C_3R_2 + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3R_1g_m + C_1C_3 + C_2C_3R_2g_m + C_2C_3\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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2L_2R_1R_3g_ms^3 + R_3g_m + s^2\left(C_1C_2R_1R_2R_3g_m + C_1C_2R_1R_3 + C_2L_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_2R_3g_m + C_2R_3\right)}{g_m + s^4\left(C_1C_2C_3L_2R_1g_m + C_1C_2L_2R_1g_m + C_1C_2L_2R_1g_m + C_1C_2L_2 + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_3 + C_1C_3R_1R_3g_m + C_1C_3R_3 + C_2C_3R_2R_3g_m + C_2C_3R_3g_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1R_2g_m + C_1C_2R_1 + C_1C_2R_2 + C_1C_2R_3 + C_1C_2R_3g_m + C_1C_3R_3 + C_2C_3R_3g_m + C_2C_3R_3g_m + C_2C_3R_3g_m + C_2C_3R_3g_m\right) + s^2\left(C_1C_2R_1R_3g_m + C_1C_2R_3g_m + C_1C_2R_3g_m + C_1C_2R_3g_m + C_1C_2R_3g_m + C_2C_3R_3g_m + C_2
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}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)
                                                  H(s) = \frac{C_1C_2C_3L_2R_1R_3g_ms^4 + g_m + s^3\left(C_1C_2C_3R_1R_2R_3g_m + C_1C_2C_3R_1R_3 + C_1C_2L_2R_1g_m + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_1C_3R_1R_3g_m + C_2C_3R_2R_3g_m + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2C_3R_3g_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1R_2g_m + C_1C_2R_1R_2g_m + C_2C_3R_3g_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_2C_3R_3g_m\right) + s^2\left(C_1C_2R_1R_2g_m
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}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)
                                         H(s) = \frac{C_1C_2C_3L_2L_3R_1g_ms^5 + g_m + s^4\left(C_1C_2C_3L_3R_1R_2g_m + C_1C_2C_3L_3R_1 + C_2C_3L_2R_2g_m + C_1C_2L_2R_1g_m + C_1C_3L_3R_1g_m + C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2C_3L_3R_1g_m + C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2C_3L_3R_1g_m + C_2C_3L_3R_2g_m + C_2C_3R_2g_m + C_
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$$\begin{aligned} \textbf{10.332} \quad \textbf{INVALID-ORDER-332} \ \ Z(s) &= \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty \right) \\ H(s) &= \frac{C_1 C_2 L_2 L_3 R_1 g_m s^4 + L_3 g_m s + s^3 \left(C_1 C_2 L_3 R_1 R_2 g_m + C_1 C_2 L_3 R_1 + C_2 L_2 L_3 g_m \right) + s^2 \left(C_1 L_3 R_1 g_m + C_2 L_3 R_2 g_m + C_2 L_3 \right) }{g_m + s^5 \left(C_1 C_2 C_3 L_2 L_3 R_1 g_m + C_1 C_2 C_3 L_2 L_3 \right) + s^4 \left(C_1 C_2 C_3 L_3 R_1 R_2 g_m + C_1 C_2 L_2 R_1 g_m \right) + s^3 \left(C_1 C_2 L_2 R_1 g_m + C_1 C_2 L_3 R_1 g_m + C_1 C_3 L_3 R_2 g_m + C_2 C_3 L_3 R_1 g_m + C_1 C_2 L_2 R_1 g_m \right) + s^3 \left(C_1 C_2 L_2 R_1 g_m + C_1 C_2 L_3 R_1 g_m + C_1 C_3 L_3 R_2 g_m + C_2 C_3 L_3 R_1 g_m + C_1 C_2 R_2 R_1 g_m \right) \\ &= \frac{C_1 C_2 L_2 L_3 R_1 g_m + C_1 C_2 C_3 L_2 R_1 g_m + C_1 C_2 C_3 L_2 R_2 g_m + C_2 C_3 L_3 R_1 g_m + C_2 C_3 L_3 R_2 g_m + C_2 C_3 L_3 R_1 g_m + C_2 C_3 L_3 R_2 g_m + C_2 C_3 L_3 R_3 R_3 g_m + C_2 C_3 L_3 R_3 g_m + C_2 C_3 L_3 R_3 R_3 g_m + C_2 C_3 L_3 R_3 R_3 g_m + C_2$$

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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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
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 $H(s) = \frac{C_1C_2C_3L_2L_3R_1g_ms^5 + g_m + s^4\left(C_1C_2C_3L_2R_1R_3g_m + C_1C_2C_3L_3R_1R_2g_m + C_1C_2C_3L_3R_1R_2g_m + C_1C_2C_3R_1R_3 + C_1C_2C_3R_1R_3 + C_1C_2L_2R_1g_m + C_1C_3L_3R_1g_m + C_2C_3L_2R_3g_m + C_2C_3L_3R_2g_m + C_2C_3R_3R_2g_m +$

10.334 INVALID-ORDER-334 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2L_2R_1R_3g_ms^4 + L_3R_3g_ms + s^3\left(C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_3g_ms + s^3\left(C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_3g_m + C_1C_2L_3R_1R$

10.335 INVALID-ORDER-335 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_2L_3R_1R_3g_ms^5 + R_3g_m + s^4\left(C_1C_2C_3L_3R_1R_2R_3g_m + C_1C_2C_3L_3R_1R_3 + C_1C_2L_2R_1R_3g_m + C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_3g_m + C_2C_3L_3R_2R_3g_m + C_2C_3L_3R_3 + C_2L_2L_3g_m\right) + s^2\left(C_1C_2R_1R_3g_m + C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_2g_m + C_2C_3L_3R_3R_2R_2g_m + C_2C_3L_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3R_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3R_3 + C_2C$

10.336 INVALID-ORDER-336 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_2L_3R_1R_3g_ms^5 + R_3g_m + s^4\left(C_1C_2C_3L_3R_1R_2R_3g_m + C_1C_2C_3L_2R_1R_3g_m + S^4\left(C_1C_2C_3L_2R_1R_3g_m + C_1C_2C_3L_2R_1R_3g_m + C_1C_2C_3R_1R_2R_3g_m + C_1C_2C_3R_1R_3R_1R_3g_m + C_1C_2C_3R_1R_3g_m +$

10.337 INVALID-ORDER-337 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_3 g_m + C_1 C_2 L_2 R_1 R_3\right) + s^2 \left(C_1 L_2 R_1 R_3 g_m + C_2 L_2 R_3 g_m + C_2 L_2 R_3\right) + s \left(C_1 R_1 R_2 R_3 g_m + C_1 R_1 R_3 + L_2 R_3 g_m\right)}{R_2 g_m + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 + C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_3\right) + s^2 \left(C_1 L_2 R_1 g_m + C_1 L_2 + C_2 L_2 R_2 g_m + C_2 L_2\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_3 + L_2 g_m\right) + 1}$

10.338 INVALID-ORDER-338 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

10.339 INVALID-ORDER-339 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

10.340 INVALID-ORDER-340 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

10.341 INVALID-ORDER-341 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1\right) + s^4 \left(C_1 C_3 L_2 L_3 R_1 g_m + C_2 C_3 L_2 L_3\right) + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 + C_1 C_3 L_3 R_1 R_2 g_m + C_1 C_3 L_3 R_1 + C_3 L_2 L_3 g_m\right) + s^2 \left(C_1 L_2 R_1 g_m + C_2 L_2 R_2 g_m + C_2 L_2 + C_3 L_3 R_2 g_m + C_3 L_3\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_3 L_2 R_1 R$

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10.342 INVALID-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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty\right)
\frac{s^4 \left(C_1 C_2 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_2 L_3 R_1\right) + s^3 \left(C_1 L_2 L_3 R_1 g_m + C_2 L_2 L_3\right) + s^2 \left(C_1 L_3 R_1 R_2 g_m + C_1 L_3 R_1 + L_2 L_3 g_m\right) + s \left(L_3 R_1 R_2 g_m + C_1 C_2 L_3 R_1 R_2
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10.344 INVALID-ORDER-344 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

 $H(s) = \frac{s^4 \left(C_1 C_2 L_2 L_3 R_1 R_2 R_3 g_m + S_3 + S_4 \left(C_1 C_2 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_2 L_3 R_1$

 $H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_3 R_1 R_2 g_m + C_1 C_3 L_2 R_1 R_3 g_m + C_1 C_3 L_2 R_1 R_2 g_m + C_1 C_3 L_2 R_1 R_2 g_m + C_1 C_2 C_3 L_2 R_1 R_2 g_m + C_1 C_3 L$

10.345 INVALID-ORDER-345 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^5 \left(C_1 C_2 C_3 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_2 R$

10.346 INVALID-ORDER-346 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

10.347 INVALID-ORDER-347 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_3 g_m + C_1 C_2 L_2 R_1 R_3\right) + s^2 \left(C_1 C_2 R_1 R_2 R_3 + C_2 L_2 R_3 g_m + C_2 L_2 R_3\right) + s \left(C_1 R_1 R_2 R_3 g_m + C_1 R_1 R_3 + C_2 R_2 R_3\right)}{R_2 g_m + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 + C_1 C_2 L_2 R_2 + C_1 C_2 L_2 R_3\right) + s^2 \left(C_1 C_2 R_1 R_2 + C_1 C_2 R_2 R_3 + C_2 L_2 R_2 g_m + C_2 L_2\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_1 R_2 + C_1 R_3 + C_2 R_2\right) + 1}$

10.348 INVALID-ORDER-348 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1\right) + s^2 \left(C_1 C_2 R_1 R_2 + C_2 L_2 R_2 g_m + C_2 L_2\right) + s \left(C_1 R_1 R_2 g_m + C_1 R_1 + C_2 R_2\right) + 1}{s^4 \left(C_1 C_2 C_3 L_2 R_1 R_2 g_m + C_1 C_2 C_3 L_2 R_2\right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 + C_1 C_2 L_2 + C_2 C_3 L_2 R_2 g_m + C_2 C_3 L_2\right) + s^2 \left(C_1 C_2 R_2 + C_1 C_3 R_1 R_2 g_m + C_1 C_3 R_1 + C_1 C_3 R_2 + C_2 C_3 R_2\right) + s \left(C_1 C_2 R_1 R_2 g_m + C_1 C_3 R_1 R_$

10.349 INVALID-ORDER-349 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

10.350 INVALID-ORDER-350 $Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

10.352 INVALID-ORDER-352
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty\right)$$

 $H(s) = \frac{s^4 \left(C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2 L_3 R_1 \right) + s^3 \left(C_1 C_2 L_3 R_1 R_2 + C_2 L_2 L_3 R_2 g_m + C_2 L_2 L_3 \right) + s^2 \left(C_1 L_3 R_1 R_2 g_m + C_1 L_3 R_1 + C_2 L_3 R_2 g_m + C_1 L_3 R_1 + C_2 L_3 R_2 g_m + C_1 L_3 R_1 R_2 g_m + C_1 L_2 L_3 R_2 g_m + C_1 L_3 R_2 g_m + C_1$

10.353 INVALID-ORDER-353
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_2g_m + s^5 \left(C_1C_2C_3L_2L_3R_1R_2g_m + C_1C_2C_3L_2L_3R_1\right) + s^4 \left(C_1C_2C_3L_2R_1R_2R_3g_m + C_1C_2C_3L_2R_1R_2 + C_2C_3L_2L_3R_2g_m + C_2C_3L_2L_3\right) + s^3 \left(C_1C_2C_3R_1R_2R_3 + C_1C_2L_2R_1R_2g_m + C_1C_2L_2R_1 + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1R_2g_m + C_1C_2C_3L_2R_1R_2g_m + C_1C_2C_3L_2R_1R_2g_m$

10.354 INVALID-ORDER-354
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{s^4 \left(C_1 C_2 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 L_2 L_3 R_1 R_$

10.355 INVALID-ORDER-355
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^5 \left(C_1 C_2 C_3 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 L_3 R_1 R_2 R$

10.356 INVALID-ORDER-356
$$Z(s) = \left(R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^5 \left(C_1 C_2 C_3 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 R_3 + C_2 C_3 L_2 L_3 R_3 + C_2 C_3 L_2$

10.357 INVALID-ORDER-357
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 \right) + 1}{C_1 C_3 R_2 s^2 + s^3 \left(C_1 C_3 L_1 R_2 g_m + C_1 C_3 L_1 \right) + s \left(C_1 + C_3 R_2 g_m + C_3 \right)}$$

10.358 INVALID-ORDER-358
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s^2 \left(C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_3\right)}{R_2 g_m + s^3 \left(C_1 C_3 L_1 R_2 R_3 g_m + C_1 C_3 L_1 R_3\right) + s^2 \left(C_1 C_3 R_2 R_3 + C_1 L_1 R_2 g_m + C_1 L_1\right) + s \left(C_1 R_2 + C_1 R_3 + C_3 R_2 R_3 g_m + C_3 R_3\right) + 1}$$

10.359 INVALID-ORDER-359
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^3 \left(C_1 C_3 L_1 R_2 R_3 g_m + C_1 C_3 L_1 R_3 \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 \right) + s \left(C_3 R_2 R_3 g_m + C_3 R_3 \right) + 1}{s^3 \left(C_1 C_3 L_1 R_2 g_m + C_1 C_3 L_1 \right) + s^2 \left(C_1 C_3 R_2 + C_1 C_3 R_3 \right) + s \left(C_1 + C_3 R_2 g_m + C_3 \right)}$$

10.360 INVALID-ORDER-360
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_3 \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_3 L_3 R_2 g_m + C_3 L_3 \right) + 1}{C_1 C_3 R_2 s^2 + s^3 \left(C_1 C_3 L_1 R_2 g_m + C_1 C_3 L_1 + C_1 C_3 L_3 \right) + s \left(C_1 + C_3 R_2 g_m + C_3 L_3 \right)}$$

10.361 INVALID-ORDER-361
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_3 R_2 g_m + C_1 L_1 L_3 \right) + s \left(L_3 R_2 g_m + L_3 \right)}{C_1 C_3 L_3 R_2 s^3 + C_1 R_2 s + R_2 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_3 \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_1 L_3 + C_3 L_3 R_2 g_m + C_3 L_3 \right) + 1}$$

10.362 INVALID-ORDER-362
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_2 R_3 g_m + C_1 C_3 L_1 R_3\right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_3 L_3 R_2 g_m + C_3 L_3\right) + s \left(C_3 R_2 R_3 g_m + C_3 R_3\right) + 1}{s^3 \left(C_1 C_3 L_1 R_2 g_m + C_1 C_3 L_1 + C_1 C_3 L_3\right) + s^2 \left(C_1 C_3 R_2 + C_1 C_3 R_3\right) + s \left(C_1 + C_3 R_2 g_m + C_3\right)}$$

10.363 INVALID-ORDER-363
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_3 R_2 R_3 g_m + C_1 L_1 L_3 R_3 \right) + s \left(L_3 R_2 R_3 g_m + L_3 R_3 \right)}{R_2 R_3 g_m + R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_2 R_3 g_m + C_1 C_3 L_1 L_3 R_3 \right) + s^3 \left(C_1 C_3 L_3 R_2 R_3 + C_1 L_1 L_3 R_2 g_m + C_1 L_1 L_3 \right) + s^2 \left(C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_3 + C_1 L_3 R_2 + C_1 L_3 R_3 + C_3 L_3 R_2 R_3 g_m + C_3 L_3 R_3 \right) + s \left(C_1 R_2 R_3 + L_3 R_2 g_m + C_1 L_1 L_3 R_3 + C_1 L_3 R_3 \right) + s \left(C_1 R_2 R_3 g_m + C_1 L_3 R_3 +$$

10.364 INVALID-ORDER-364
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

10.365 INVALID-ORDER-365
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

10.366 INVALID-ORDER-366 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1 C_2 L_1 R_3 s^3 + C_1 L_1 R_3 g_m s^2 + C_2 R_3 s + R_3 g_m}{C_1 C_2 L_1 s^3 + g_m + s^2 \left(C_1 C_2 R_3 + C_1 L_1 g_m \right) + s \left(C_1 + C_2 \right)}$$

10.367 INVALID-ORDER-367 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1 C_2 L_1 s^3 + C_1 L_1 g_m s^2 + C_2 s + g_m}{C_1 C_2 C_3 L_1 s^4 + C_1 C_3 L_1 g_m s^3 + C_3 g_m s + s^2 (C_1 C_2 + C_1 C_3 + C_2 C_3)}$$

10.368 INVALID-ORDER-368
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1R_3s^3 + C_1L_1R_3g_ms^2 + C_2R_3s + R_3g_m}{C_1C_2C_3L_1R_3s^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_3L_1R_3g_m\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3 + C_1L_1g_m + C_2C_3R_3\right) + s\left(C_1 + C_2 + C_3R_3g_m\right)}$$

10.369 INVALID-ORDER-369
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1R_3s^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_3L_1R_3g_m\right) + s^2\left(C_1L_1g_m + C_2C_3R_3\right) + s\left(C_2 + C_3R_3g_m\right)}{C_1C_2C_3L_1s^4 + C_3g_ms + s^3\left(C_1C_2C_3R_3 + C_1C_3L_1g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$$

10.370 INVALID-ORDER-370
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1 C_2 C_3 L_1 L_3 s^5 + C_1 C_3 L_1 L_3 g_m s^4 + C_2 s + g_m + s^3 \left(C_1 C_2 L_1 + C_2 C_3 L_3\right) + s^2 \left(C_1 L_1 g_m + C_3 L_3 g_m\right)}{C_1 C_3 L_1 g_m s^3 + C_3 g_m s + s^4 \left(C_1 C_2 C_3 L_1 + C_1 C_2 C_3 L_3\right) + s^2 \left(C_1 C_2 + C_1 C_3 + C_2 C_3\right)}$$

10.371 INVALID-ORDER-371
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1L_3s^4 + C_1L_1L_3g_ms^3 + C_2L_3s^2 + L_3g_ms}{C_1C_2C_3L_1L_3s^5 + C_1C_3L_1L_3g_ms^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_2L_3 + C_1C_3L_3 + C_2C_3L_3\right) + s^2\left(C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1 + C_2\right)}$$

10.372 INVALID-ORDER-372
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

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

10.373 INVALID-ORDER-373
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1L_3R_3s^4 + C_1L_1L_3R_3g_ms^3 + C_2L_3R_3s^2 + L_3R_3g_ms}{C_1C_2C_3L_1L_3R_3s^5 + R_3g_m + s^4\left(C_1C_2L_1L_3 + C_1C_3L_1L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_1C_2L_3R_3 + C_1L_1L_3g_m + C_2C_3L_3R_3\right) + s^2\left(C_1L_1R_3g_m + C_1L_3 + C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_1R_3 + C_2R_3 + L_3g_m\right)}$$

10.374 INVALID-ORDER-374
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1L_3R_3s^5 + R_3g_m + s^4\left(C_1C_2L_1L_3 + C_1C_3L_1L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_1L_1L_3g_m + C_2C_3L_3R_3\right) + s^2\left(C_1L_1R_3g_m + C_2L_3 + C_3L_3R_3g_m\right) + s\left(C_2R_3 + L_3g_m\right)}{C_1C_2C_3L_1L_3s^5 + g_m + s^4\left(C_1C_2C_3L_3R_3 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_2L_1 + C_1C_2L_3 + C_1C_3L_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_3 + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1+C_2C_3L_3R_3\right) + s^2\left(C_1C_2R_3 + C_1L_3g_m\right) + s^2\left$$

10.375 INVALID-ORDER-375
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1L_3R_3s^5 + C_1C_3L_1L_3R_3g_ms^4 + C_2R_3s + R_3g_m + s^3\left(C_1C_2L_1R_3 + C_2C_3L_3R_3\right) + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m\right)}{C_1C_2C_3L_1L_3s^5 + g_m + s^4\left(C_1C_2C_3L_1R_3 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_3g_m + C_1C_3L_3 + C_2C_3L_3\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3 + C_1L_1g_m + C_2C_3R_3 + C_3L_3g_m\right) + s\left(C_1C_2C_3L_1L_3s^5 + g_m + s^4\left(C_1C_2C_3L_1R_3 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_3g_m + C_1C_3L_3\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3 + C_1C_3R_3 + C_3L_3g_m\right) + s^2\left(C_1C_2R_3 + C_3L_3g_m\right) + s^2$$

10.376 INVALID-ORDER-376
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1R_2R_3s^3 + C_2R_2R_3s + R_2R_3g_m + R_3 + s^2\left(C_1L_1R_2R_3g_m + C_1L_1R_3\right)}{C_1C_2L_1R_2s^3 + R_2g_m + s^2\left(C_1C_2R_2R_3 + C_1L_1R_2g_m + C_1L_1\right) + s\left(C_1R_2 + C_1R_3 + C_2R_2\right) + 1}$$

10.377 INVALID-ORDER-377
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1R_2s^3 + C_2R_2s + R_2g_m + s^2\left(C_1L_1R_2g_m + C_1L_1\right) + 1}{C_1C_2C_3L_1R_2s^4 + s^3\left(C_1C_3L_1R_2g_m + C_1C_3L_1\right) + s^2\left(C_1C_2R_2 + C_1C_3R_2 + C_2C_3R_2\right) + s\left(C_1 + C_3R_2g_m + C_3\right)}$$

10.378 INVALID-ORDER-378 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, \frac{R_3}{C_2R_3s+1}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_1C_2L_1R_2R_3s^3 + C_2R_2R_3s + R_2R_3g_m + R_3 + s^2(C_1L_1R_2R_3g_m + C_1L_1R_3)}{C_1C_2C_3L_1R_2R_3s^4 + R_2g_m + s^3(C_1C_2L_1R_2 + C_1C_3L_1R_2R_3g_m + C_1C_3L_1R_3) + s^2(C_1C_2R_2R_3 + C_1C_3R_2R_3 + C_1L_1R_2g_m + C_1L_1 + C_2C_3R_2R_3) + s(C_1R_2 + C_1R_3 + C_2R_2 + C_3R_2R_3g_m + C_3R_3) + 1}$ 10.379 INVALID-ORDER-379 $Z(s) = \left(L_1s + \frac{1}{C_1s}, \frac{R_2}{C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \infty, \infty\right)$ $H(s) = \frac{C_1C_2C_3L_1R_2R_3s^4 + R_2g_m + s^3(C_1C_2L_1R_2 + C_1C_3L_1R_2R_3g_m + C_1C_3L_1R_3) + s^2(C_1L_1R_2g_m + C_1L_1 + C_2C_3R_2R_3) + s(C_2R_2 + C_3R_2R_3g_m + C_3R_3) + 1}{C_1C_2C_3L_1R_2s^4 + s^3(C_1C_2L_1R_2 + C_1C_3L_1R_2g_m + C_1C_3L_1) + s^2(C_1C_2R_2 + C_1C_3R_2 + C_1C_3R_2$

10.381 INVALID-ORDER-381 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_1L_3R_2s^4 + C_2L_3R_2s^2 + s^3\left(C_1L_1L_3R_2g_m + C_1L_1L_3\right) + s\left(L_3R_2g_m + L_3\right)}{C_1C_2C_3L_1L_3R_2s^5 + R_2g_m + s^4\left(C_1C_3L_1L_3R_2g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_2L_1R_2 + C_1C_2L_3R_2 + C_1C_3L_3R_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_1L_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_2 + C_2R_2\right) + 1}$$

10.382 INVALID-ORDER-382 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2C_3L_1L_3R_2s^5 + R_2g_m + s^4\left(C_1C_2C_3L_1R_2R_3 + C_1C_3L_1L_3R_2g_m + C_1C_3L_1R_2 + C_1C_3L_1R_2 + C_1C_3L_1R_3 + C_2C_3L_3R_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2C_3R_2R_3 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_2R_2 + C_3R_2R_3 + C_3R_3R_3 + C_3R_3R_3$$

10.383 INVALID-ORDER-383 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

10.384 INVALID-ORDER-384 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

10.385 INVALID-ORDER-385 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2C_3L_1L_3R_2R_3s^5 + C_2R_2R_3s + R_2R_3g_m + R_3 + s^4\left(C_1C_3L_1L_3R_2R_3g_m + C_1C_3L_1L_3R_3\right) + s^3\left(C_1C_2L_1R_2R_3 + C_2C_3L_3R_2R_3\right) + s^2\left(C_1L_1R_2R_3g_m + C_1L_1R_3 + C_3L_3R_2R_3g_m + C_3L_3R_3R_3\right) + s^2\left(C_1L_1R_2R_3g_m + C_1L_1R_3 + C_3L_3R_3g_m + C_3L_3R_3g_m + C_3R_3g_m + C_3R_3g_m$$

10.386 INVALID-ORDER-386 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right)$

$$H(s) = \frac{C_1 L_1 R_3 g_m s^2 + R_3 g_m + s^3 \left(C_1 C_2 L_1 R_2 R_3 g_m + C_1 C_2 L_1 R_3 \right) + s \left(C_2 R_2 R_3 g_m + C_2 R_3 \right)}{g_m + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 \right) + s^2 \left(C_1 C_2 R_2 + C_1 C_2 R_3 + C_1 L_1 g_m \right) + s \left(C_1 + C_2 R_2 g_m + C_2 \right)}$$

10.387 INVALID-ORDER-387
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1L_1g_ms^2 + g_m + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1\right) + s\left(C_2R_2g_m + C_2\right)}{C_3g_ms + s^4\left(C_1C_2C_3L_1R_2g_m + C_1C_2C_3L_1\right) + s^3\left(C_1C_2C_3R_2 + C_1C_3L_1g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3R_2g_m + C_2C_3\right)}$$

10.388 INVALID-ORDER-388
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_1L_1R_3g_ms^2 + R_3g_m + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3\right) + s\left(C_2R_2R_3g_m + C_2R_3\right)}{g_m + s^4\left(C_1C_2C_3L_1R_2R_3g_m + C_1C_2C_3L_1R_3\right) + s^3\left(C_1C_2C_3R_2R_3 + C_1C_2L_1 + C_1C_3L_1R_3g_m\right) + s^2\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_3R_3 + C_1L_1g_m + C_2C_3R_2R_3g_m + C_2C_3R_3\right) + s\left(C_1 + C_2R_2g_m + C_2 + C_3R_3g_m\right)}$$

10.389 INVALID-ORDER-389
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_3 L_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_3\right) + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 + C_1 C_3 L_1 R_3 g_m\right) + s^2 \left(C_1 L_1 g_m + C_2 C_3 R_2 R_3 g_m + C_2 C_3 R_3\right) + s \left(C_2 R_2 g_m + C_2 + C_3 R_3 g_m\right)}{C_3 g_m s + s^4 \left(C_1 C_2 C_3 L_1 R_2 g_m + C_1 C_2 C_3 L_1\right) + s^3 \left(C_1 C_2 C_3 R_2 + C_1 C_2 C_3 R_3 + C_1 C_3 L_1 g_m\right) + s^2 \left(C_1 L_2 g_m + C_2 C_3 R_3 g_m + C_2 C_3 R_2 g_m + C_2 C_3 R_3 g_m\right)}$$

10.390 INVALID-ORDER-390
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_1C_3L_1L_3g_ms^4 + g_m + s^5\left(C_1C_2C_3L_1L_3R_2g_m + C_1C_2C_3L_1L_3\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1L_1g_m + C_3L_3g_m\right) + s\left(C_2R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2C_3L_3R_2g_m + C_2C_3R_2g_m + C_2C_3R_2g_m\right) + s^2\left(C_1C_2C_3L_3R_2g_m + C_2C_3R_2g_m + C_2C_3R_2g_m\right) + s^2\left(C_1C_2C_3R_2g_m + C_2C_3R_2g_m\right) + s^2\left(C_1C_2C_3R_2g_m\right) + s^2\left(C_1C_2$$

10.391 INVALID-ORDER-391
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1L_1L_3g_ms^3 + L_3g_ms + s^4\left(C_1C_2L_1L_3R_2g_m + C_1C_2L_1L_3\right) + s^2\left(C_2L_3R_2g_m + C_2L_3\right)}{g_m + s^5\left(C_1C_2C_3L_1L_3R_2g_m + C_1C_2L_3L_1L_3\right) + s^4\left(C_1C_2C_3L_1L_3g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_2L_3 + C_1C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_2 + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1C_2R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_2 + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1C_2R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_2 + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1C_2R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_2g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_2g_m + C_3L_3\right) + s^2\left(C_1C_2R_3g_m + C_3L_3\right) + s^2\left(C_1C_3R_3g_m + C_3L_$$

10.392 INVALID-ORDER-392
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_3 L_1 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_3\right) + s^4 \left(C_1 C_2 C_3 L_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_3 + C_1 C_3 L_1 R_3 g_m + C_1 C_2 L_1 + C_1 C_3 L_1 R_3 g_m + C_2 C_3 L_3 R_2 g_m + C_2 C_3 L_3\right) + s^2 \left(C_1 L_1 g_m + C_2 C_3 R_3 + C_3 L_3 g_m + C_2 C_3 R_3 + C_3 L_3 g_m + C_2 C_3 R_3 + C_3 L_3 g_m + C_3 C_3 R_3 g_m + C$$

10.393 INVALID-ORDER-393
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1L_1L_3R_3g_ms^3 + L_3R_3g_ms + s^4\left(C_1C_2L_1L_3R_2R_3g_m + C_1C_2L_1L_3R_3\right) + s^2\left(C_2L_3R_2R_3g_m + C_2L_3R_3\right)}{R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_2R_3g_m + C_1C_2L_1L_3R_2g_m + C_1C_2L_1L_3R_2g_m + C_1C_2L_1L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1C_3L_3R_3 +$$

10.394 INVALID-ORDER-394
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$$

10.395 INVALID-ORDER-395
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_1C_3L_1L_3R_3g_ms^4 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_2g_m + C_1C_2C_3L_1L_3R_3\right) + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3 + C_2C_3L_3R_2R_3g_m + C_2C_3L_3R_3\right) + s^2\left(C_1L_1R_3g_m + C_3L_3R_3g_m\right) + s^2\left(C_1L_1R_3g_m + C_1C_2C_3L_1R_3g_m + C_1C_2C_$$

10.396 INVALID-ORDER-396 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right)$ $H(s) = \frac{C_1C_2L_1L_2R_3g_ms^4 + C_1C_2L_1R_3s^3 + C_2R_3s + R_3g_m + s^2\left(C_1L_1R_3g_m + C_2L_2R_3g_m\right)}{C_1C_2L_1L_2g_ms^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_2L_2\right) + s^2\left(C_1C_2R_3 + C_1L_1g_m + C_2L_2g_m\right) + s\left(C_1 + C_2\right)}$ 10.397 INVALID-ORDER-397 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$ $H(s) = \frac{C_1C_2L_1L_2g_ms^4 + C_1C_2L_1s^3 + C_2s + g_m + s^2\left(C_1L_1g_m + C_2L_2g_m\right)}{C_1C_2C_3L_1L_2g_ms^5 + C_3g_ms + s^4\left(C_1C_2C_3L_1 + C_1C_2C_3L_2\right) + s^3\left(C_1C_3L_1g_m + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$ **10.398** INVALID-ORDER-398 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$ $H(s) = \frac{C_1C_2L_1L_2R_3g_ms^4 + C_1C_2L_1R_3s^3 + C_2R_3s + R_3g_m + s^2\left(C_1L_1R_3g_m + C_2L_2R_3g_m\right)}{C_1C_2C_3L_1L_2R_3g_ms^5 + g_m + s^4\left(C_1C_2C_3L_1R_3 + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2L_1 + C_1C_2L_2 + C_1C_3L_1R_3g_m + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_3 + C_1C_3R_3 + C_1L_1g_m + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_1C_2R_3g_m\right) + s\left(C_1C_$ 10.399 INVALID-ORDER-399 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$ $H(s) = \frac{C_1C_2C_3L_1L_2R_3g_ms^5 + g_m + s^4\left(C_1C_2C_3L_1R_3 + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_3g_m + C_2C_3L_2R_3g_m\right) + s^2\left(C_1L_1g_m + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_2 + C_3R_3g_m\right)}{C_1C_2C_3L_1L_2g_ms^5 + C_3g_ms + s^4\left(C_1C_2C_3L_1 + C_1C_2C_3L_2\right) + s^3\left(C_1C_2C_3R_3 + C_1C_3L_1g_m + C_2C_3L_2g_m\right) + s^2\left(C_1L_2g_m + C_2C_3R_3 + C_2L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$ **10.400** INVALID-ORDER-400 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$ $H(s) = \frac{C_1C_2C_3L_1L_2L_3g_ms^6 + C_1C_2C_3L_1L_3s^5 + C_2s + g_m + s^4\left(C_1C_2L_1L_2g_m + C_1C_3L_1L_3g_m + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_1 + C_2C_3L_3\right) + s^2\left(C_1L_1g_m + C_2L_2g_m + C_3L_3g_m\right)}{C_1C_2C_3L_1L_2g_ms^5 + C_3g_ms + s^4\left(C_1C_2C_3L_1 + C_1C_2C_3L_2 + C_1C_2C_3L_3\right) + s^3\left(C_1C_3L_1g_m + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3\right)}$ **10.401** INVALID-ORDER-401 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)$ 10.402 INVALID-ORDER-402 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$ 10.403 INVALID-ORDER-403 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$ $H(s) = \frac{C_1C_2L_1L_2R_3g_ms^5 + C_1C_2L_1L_3R_3s^4 + C_2L_3R_3s^2 + L_3R_3g_ms + s^3\left(C_1L_1L_3R_3g_m + C_2L_2L_3R_3g_m\right)}{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_3 + C_1C_2L_1L_2L_3g_m\right) + s^4\left(C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_3 + C_1C_2L_2L_3 + C_1C_2L_1L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_1C_2L_2R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_1C_2L_2R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3g_m\right) + s^3\left(C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3g_m\right) + s^3\left(C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1C_2L_3R_3g_m\right) + s^3\left(C_1C_2L_3R_3 + C_1C_2L_3R_3 + C_1$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + C_1C_2C_3L_1L_3R_3s^5 + C_2R_3s + R_3g_m + s^4\left(C_1C_2L_1L_2R_3g_m + C_1C_3L_1L_3R_3g_m + C_2C_3L_2L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_2C_3L_3R_3\right) + s^2\left(C_1L_1R_3g_m + C_2C_3L_2L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_2C_3L_3R_3\right) + s^2\left(C_1L_1R_3g_m + C_2C_3L_3R_3 + C_2C_3L_3R_3\right) + s^2\left(C_1L_1R_3g_m + C_2C_3L_3R_3\right) + s^2\left(C_1L_1R_$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_3 + C_1C_2L_1L_2L_3g_m\right) + s^4\left(C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_3 + C_1C_3L_1L_3R_3g_m + C_2C_3L_2L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_1L_1L_3g_m + C_2C_3L_3R_3 + C_2L_2L_3g_m\right) + s^2\left(C_1L_1R_3g_m + C_2L_2R_3g_m + C_2L_3R_3g_m\right) + s^2\left(C_1L_1R_3g_m + C_2L_2R_3g_m\right) + s^2\left(C_1L_1R_3g_m + C_2L_2R_3g_m\right$

10.404 INVALID-ORDER-404 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$

10.405 INVALID-ORDER-405 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

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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}, \ R_3, \ \infty, \ \infty, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                   H(s) = \frac{C_1C_2L_1L_2R_3g_ms^4 + R_3g_m + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3\right) + s^2\left(C_1L_1R_3g_m + C_2L_2R_3g_m\right) + s\left(C_2R_2R_3g_m + C_2R_3\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_3 + 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}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\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_3L_1L_2g_ms^5 + C_3g_ms + s^4\left(C_1C_2C_3L_1R_2g_m + C_1C_2C_3L_2\right) + s^3\left(C_1C_2C_3R_2 + C_1C_3L_1g_m + C_2C_3L_2g_m\right) + s^2\left(C_1C_2 + C_1C_3 + C_2C_3R_2g_m + C_2C_3\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}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)
H(s) = \frac{C_1C_2L_1L_2R_3g_ms^4 + R_3g_m + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3\right) + s^2\left(C_1L_1R_3g_m + C_2L_2R_3g_m\right) + s\left(C_2R_2R_3g_m + C_2R_3\right)}{C_1C_2C_3L_1L_2R_3g_ms^5 + g_m + s^4\left(C_1C_2C_3L_1R_3 + C_1C_2C_3L_1R_3 + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2C_3R_2R_3 + C_1C_2L_1 + C_1C_2L_1 + C_1C_2L_2 + C_1C_3L_1R_3g_m + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_2 + C_1C_2R_3 + C_1C_2
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}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)
                                              H(s) = \frac{C_1C_2C_3L_1L_2R_3g_ms^5 + g_m + s^4\left(C_1C_2C_3L_1R_2R_3g_m + C_1C_2C_3L_1R_3 + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_3L_1R_3g_m + C_2C_3L_2R_3g_m\right) + s^2\left(C_1L_1g_m + C_2C_3R_2R_3g_m + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_2R_2g_m + C_2 + C_3R_3g_m\right) + s\left(C_2R_2g_m + C_2C_3R_3R_3 + C_2C_3R_3g_m\right) + s^2\left(C_1L_1g_m + C_2C_3R_3R_3 + C_2C_3R_3g_m\right) + s^2\left(C_1L_2g_m + C_2C_3R_3R_3 + C_2C_3R_3g_m\right) + s^2\left(C_1L_2g_m + C_2C_3R_3 + C_2C_3R_3g_m\right) + s^2\left(C_1L_2g_m + C_2C_3R_3g_m\right) + s^2\left(C_1L_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}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)
                                  H(s) = \frac{C_1C_2C_3L_1L_2L_3g_ms^6 + g_m + s^5\left(C_1C_2C_3L_1L_3R_2g_m + C_1C_2C_3L_1L_3\right) + s^4\left(C_1C_2L_1L_2g_m + C_1C_3L_1L_3g_m + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1L_1g_m + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_2R_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3\right) + s^2\left(C_1L_1g_m + C_2L_2g_m + C_3L_3g_m\right) + s\left(C_2R_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m\right) + s^2\left(C_1L_1g_m + C_2L_2g_m + C_3L_3g_m\right) + s^2\left(C_1L_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m\right) + s^2\left(C_1L_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m + C_2C_3L_3R_2g_m\right) + s^2\left(C_1L_2g_m + C_2C_3L_3R_2g_m + C_2C_3R_2g_m\right) + s^2\left(C_1L_2g_m + C_2C_3R_2g_m + C_2C_3R_2g_m\right) + s^2\left(C_1L_2g_m + C_2C_3R_2g_m\right) 
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}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)
                                                 \frac{C_{1}C_{2}L_{1}L_{2}L_{3}g_{m}s^{5}+L_{3}g_{m}s+s^{4}\left(C_{1}C_{2}L_{1}L_{3}R_{2}g_{m}+C_{1}C_{2}L_{1}L_{3}\right)+s^{3}\left(C_{1}L_{1}L_{3}g_{m}+C_{2}L_{2}L_{3}g_{m}\right)+s^{2}\left(C_{2}L_{3}R_{2}g_{m}+C_{2}L_{3}\right)}{C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}g_{m}s^{6}+g_{m}+s^{5}\left(C_{1}C_{2}C_{3}L_{1}L_{3}+C_{1}C_{2}C_{3}L_{2}L_{3}\right)+s^{4}\left(C_{1}C_{2}C_{3}L_{2}L_{3}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_{2}L_{2}+C_{1}C_{2}L_{3}+C_{1}C_{3}L_{3}+C_{2}C_{3}L_{3}R_{2}+C_{2}C_{3}L_{3}\right)+s^{2}\left(C_{1}C_{2}C_{3}L_{1}L_{3}R_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}G_{2}L_{1}L_{2}G_{2}L_{2}G_{2}L_{1}L_{2}G_{2}L_{1}L_{2}G_{2}L_{1}L_{2}G_{2}L_{1}L_{2}G_{2}L_{1}L_{2}G_{2}L_{1}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{2}G_{2}L_{
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}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_2L_3g_ms^6 + g_m + s^5\left(C_1C_2C_3L_1L_2R_3g_m + C_1C_2C_3L_1L_3R_2g_m + C_1C_2C_3L_1R_3 + C_1C_2L_1L_2g_m + C_1C_3L_1L_3g_m + C_2C_3L_2R_3g_m + C_1C_2L_1L_2g_m + C_1C_2L_1L_2g_m + C_1C_2L_1L_2g_m + C_1C_2L_1R_2g_m + C_1C_
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}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_{1}C_{2}L_{1}L_{2}L_{3}R_{3}g_{m}s^{5} + L_{3}R_{3}g_{m}s + s^{4}\left(C_{1}C_{2}L_{1}L_{3}R_{2}R_{3}g_{m} + C_{1}C_{2}L_{3}R_{3}g_{m}\right) + C_{1}C_{2}L_{3}R_{3}g_{m}s^{5} + L_{3}R_{3}g_{m}s + s^{4}\left(C_{1}C_{2}L_{1}L_{3}R_{2}R_{3}g_{m} + C_{1}C_{2}L_{3}R_{3}g_{m}\right) + C_{1}C_{2}L_{3}R_{3}g_{m}s^{5} 
H(s) = \frac{C_1C_2C_3L_3L_2C_3S_3m^5 + C_3C_2C_3L_3R_3s^6 + R_3s_m + s^5\left(C_1C_2C_3L_1L_3R_2R_3g_m + C_1C_2L_1L_2L_3g_m\right) + s^4\left(C_1C_2C_3L_3R_2R_3 + C_1C_2L_1L_3R_2g_m + C_1C_2L_1L_3R_2g_m + C_1C_2L_1L_3R_2g_m + C_1C_2L_1L_3R_3g_m\right) + s^4\left(C_1C_2C_3L_3R_3R_3 + C_1C_2L_1L_3R_3g_m + C_1C_2L_1L_3R_3g_m + C_1C_2L_1L_3R_3g_m\right) + s^4\left(C_1C_2C_3L_3R_3R_3 + C_1C_2L_3R_3R_3 + C_1C_2R_3R_3R_3 + C_
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 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_2R_3g_m + C_1C_2L_1L_2L_3g_m\right) + s^4\left(C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_3 + C_1C_2L_1L_3 + C_1C_3L_1L_3R_3g_m + C_2C_3L_2L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3 + C_1L_1L_3g_m + C_2C_3L_3R_2R_3R_3 + C_1C_2L_1L_3R_3g_m + C_2C_3L_2L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3 + C_1L_1L_3g_m + C_2C_3L_3R_3R_3 + C_1C_2L_1L_3R_3g_m + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3 + C_1L_2L_3g_m + C_2C_3L_3R_3 + C_1C_2L_1L_2g_m + C_1C_3L_1L_3g_m + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1R_3 + C_1L_2L_3g_m + C_2C_3L_3R_3 + C_1C_2L_1L_2g_m + C_1C_3L_1L_3g_m + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1R_3 + C_1L_2L_3g_m + C_2C_3L_3R_3 + C_1C_2L_1L_2g_m + C_1C_3L_1L_3g_m + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1R_2g_m + C_1C_2L_1L_2g_m + C_1C_3L_1L_3g_m + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1R_2g_m + C_1C_2L_1R_2$

10.414 INVALID-ORDER-414 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_3g_m + C_1C_2C_3L_1L_3R_3g_m + C_1C_2C_3L_1R_3R_3g_m + C_1C_3C_3L_1R_3R_3g_m +$

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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, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                       H(s) = \frac{C_1L_1L_2R_3g_ms^3 + L_2R_3g_ms + R_2R_3g_m + R_3 + s^4\left(C_1C_2L_1L_2R_2R_3g_m + C_1C_2L_1L_2R_3\right) + s^2\left(C_1L_1R_2R_3g_m + C_1L_1R_3 + C_2L_2R_2R_3g_m + C_2L_2R_3\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_3 + 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_3 + 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, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3L_1L_2R_2g_m + C_1C_2C_3L_1L_2\right) + s^4\left(C_1C_2C_3L_2R_2 + C_1C_3L_1L_2g_m\right) + s^3\left(C_1C_2L_2 + C_1C_3L_1R_2g_m + C_1C_3L_1 + C_1C_3L_2 + C_2C_3L_2R_2g_m + C_2C_3L_2\right) + s^2\left(C_1C_3R_2 + C_3L_2g_m\right) + s\left(C_1C_3R_2g_m + C_3R_2g_m + C_3R_2g_m\right) + s\left(C_1C_3R_2g_m + C_3R_2g_m\right) + s\left(C_1C
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, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                   \frac{C_{1}L_{1}L_{2}R_{3}g_{m}s^{3}+L_{2}R_{3}g_{m}s+R_{2}R_{3}g_{m}+R_{3}+s^{4}\left(C_{1}C_{2}L_{1}L_{2}R_{3}g_{m}+C_{1}C_{2}L_{1}L_{2}R_{3}\right)+s^{2}\left(C_{1}L_{1}R_{2}R_{3}g_{m}+C_{1}L_{1}R_{3}+C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}L_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_{2}R_{2}R_{3}g_{m}+C_{1}C_{2}L_
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, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{R_2 g_m + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 + C_1 C_3 L_1 L_2 R_3 g_m \right) + s^3 \left(C_1 C_3 L_1 R_2 R_3 g_m + C_1 C_3 L_2 R_3 g_m + C_2 C_3 L_2 R_3 g_m + C_2 C_3 L_2 R_3 \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_2 L_2 R_2 g_m + C_2 L_2 + C_3 L_2 R_3 g_m \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 L_2 R_2 g_m + C_1 L_1 L_2 R_2 g_m + C_1 L_2 R_2 g_m + C_2 L_2 R_3 g_m \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 L_2 R_2 g_m + C_1 L_1 L_2 R_2 g_m + C_1 L_2 R_2 g_m + C_1 L_2 R_2 g_m \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 L_2 R_2 g_m \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 L_2 R_2 g_m \right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 L_2 R_2 g_m + C_1 L_
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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_3L_1L_2L_3g_ms^5 + L_2g_ms + R_2g_m + s^6\left(C_1C_2C_3L_1L_2L_3R_2g_m + C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2 + C_1C_3L_1L_3R_2g_m + C_1C_3L_1L_3 + C_2C_3L_2L_3\right) + s^3\left(C_1L_1L_2g_m + C_3L_2L_3g_m\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2L_2R_2g_m + C_1C_3L_1L_3R_2g_m + C_1C_3L_1R_2g_m + C_1C_3L_1R_
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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_{1}L_{1}L_{2}L_{3}g_{m}s^{4} + L_{2}L_{3}g_{m}s^{2} + s^{5}\left(C_{1}C_{2}L_{1}L_{2}L_{3}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}L_{3}\right) + s^{3}\left(C_{1}L_{1}L_{3}R_{2}g_{m} + C_{1}L_{1}L_{3} + C_{2}L_{2}L_{3}R_{2}g_{m} + C_{2}L_{2}L_{3}\right) + s\left(L_{3}L_{2}L_{3}R_{2}g_{m} + C_{1}L_{1}L_{3} + C_{2}L_{2}L_{3}R_{2}g_{m} + C_{2}L_{2}L_{3}\right) + s\left(L_{3}L_{2}L_{3}R_{2}g_{m} + C_{1}L_{1}L_{3} + C_{2}L_{2}L_{3}R_{2}g_{m} + C_{2}L_{2}L_{3}\right) + s\left(L_{3}L_{3}R_{2}g_{m} + C_{2}L_{2}L_{3}R_{2}g_{m} + C_{2}L_{2}L_{3}R_{2}g_{m
                                                    \frac{C_1L_1L_2L_3g_ms^2 + s^3\left(C_1C_2L_1L_2L_3R_2g_m + C_1C_2L_1L_2L_3\right) + s^3\left(C_1L_1L_3R_2g_m + C_1L_1L_3 + C_2L_2L_3R_2g_m + C_2L_2L_3\right) + s\left(C_1L_2L_3R_2g_m + C_1C_2L_1L_2L_3\right) + s^3\left(C_1L_2L_3R_2g_m + C_1C_2L_1L_2L_3\right) + s^3\left(C_1C_2C_3L_1L_2L_3R_2g_m + C_1C_3L_1L_2L_3\right) + s^3\left(C_1C_2C_3L_2L_3R_2 + C_1C_3L_1L_2R_2g_m + C_1C_3L_1L_2 + C_1C_3L_1L_2 + C_1C_3L_1L_3 + C_1C_3L_1L_3 + C_1C_3L_2L_3 + C_1C_3L_2L_3\right) + s^3\left(C_1C_2C_3L_2L_3R_2 + C_1C_3L_2L_3R_2 + C_1C_3L_1L_2R_2g_m + C_1C_3L_1L_2 + C_1C_3L_1L_2 + C_1C_3L_1L_3 + C_1C_
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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3\right) + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_3 L_1 L_2 R_3 g_m + C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_2 R_3 g_m
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10.423 INVALID-ORDER-423 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

 $C_1L_1L_2L_3R_3g_ms^4 + L_2L_3$

 $\frac{C_1 L_1 L_2 L_3 R_3 g_m s + L_2 L_3}{R_2 R_3 g_m + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_3 g_m \right) + s^4 \left(C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_2 R_3 g_m + C_1 C_2 L_2 R_3 g_m + C_1 C_2 L_2 R_3 g_m + C_1 C_2$

10.424 INVALID-ORDER-424 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_1 C_2 L_1 L_2 L_3 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_3 g_m + C_1 C_2 L_1 L_2 L_3 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1 L_2 L_3 g_m + C_2 C_3 L_2 L_3 R_2 g_m + C_2 C$

10.425 INVALID-ORDER-425 $Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $C_{1}C_{3}L_{1}L_{2}L_{3}R_{3}g_{m}s^{5} + L_{2}R_{3}g_{m}s + R_{2}R_{3}g_{m} + R_{3} + s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{2}R_{3}g_{m} + C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3}\right) + s^{4}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3}g_{m} + C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3}\right) + s^{4}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3}\right) + s^{4}\left(C_$

 $\frac{1}{R_2 g_m + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_3 L_1 L_3 R_3 g_m + C_1 C_3 L_1$

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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}, \ R_3, \ \infty, \ \infty, \ \infty \right)   H(s) = \frac{C_1 C_2 L_1 R_2 R_3 s^3 + C_2 R_2 R_3 s + R_2 R_3 g_m + R_3 + s^4 \left( C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_1 L_2 R_3 \right) + s^2 \left( C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_3 + C_2 L_2 R_3 g_m + C_2 L_2 R_3 \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_3 \right) + s^2 \left( C_1 C_2 R_2 R_3 + 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_3 + C_2 R_2 \right) + 1 }
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10.428 INVALID-ORDER-428
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2L_1R_2R_3s^3 + C_2R_2R_3s + R_2R_3g_m + R_3 + s^4\left(C_1C_2L_1L_2R_2R_3g_m + C_1C_2L_1L_2R_3\right) + s^2\left(C_1L_1R_2R_3g_m + C_1L_1R_3 + C_2L_2R_2R_3g_m + C_2L_2R_3g_m +$

10.429 INVALID-ORDER-429
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

10.430 INVALID-ORDER-430
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2C_3L_1L_3R_2s^5 + C_2R_2s + R_2g_m + s^6\left(C_1C_2C_3L_1L_2L_3R_2g_m + C_1C_2C_3L_1L_2L_3\right) + s^4\left(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2 + C_1C_3L_1L_3R_2g_m + C_1C_3L_1L_3 + C_2C_3L_2L_3\right) + s^3\left(C_1C_2L_1R_2 + C_2C_3L_3R_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2L_2R_2g_m + C_1C_2L_1L_2 + C_1C_3L_1L_3R_2g_m + C_1C_3L_1L_3 + C_2C_3L_2L_3\right) + s^3\left(C_1C_2L_1R_2 + C_2C_3L_3R_2\right) + s^2\left(C_1L_1R_2g_m + C_1L_1 + C_2L_2R_2g_m + C_1C_3L_1L_3 + C_2C_3L_2R_2 + C_1C_3L_3R_2\right) + s^2\left(C_1C_2R_2 + C_1C_3R_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_2 + C_1C_2R_2\right) + s^2\left(C_1C_2R_2$

10.431 INVALID-ORDER-431
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2L_1L_3R_2s^4 + C_2L_3R_2s^2 + s^5\left(C_1C_2L_1L_2L_3R_2g_m + C_1C_2L_1L_2L_3\right) + s^3\left(C_1L_1L_3R_2g_m + C_1L_1L_3 + C_2L_2L_3R_2g_m + C_2L_2L_3\right) + s\left(L_3R_2g_m + C_1C_2L_1L_2L_3R_2g_m + C_1C_2L_1L_2L_3R_2g_m + C_1C_2L_1L_2R_2g_m + C_1C_2L_1R_2g_m + C_1C_$

10.432 INVALID-ORDER-432
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3\right) + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_2 L_3 R_2 g_m + C_1 C_2 L_2 L_3 R_2 g_m + C_1 C_2 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_2 R_3 +$

10.433 INVALID-ORDER-433
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

 $C(s) = \frac{C_1C_2L_1L_3R_2R_3s^4 + C_2L_3R_2R_3s^2 + C_2L_3R_2R_3s^4 + C_2L_3R_2R_3s^4 + C_2L_3R_2R_3s^2 + C_2L_3R_3s^4 + C_2L$

10.434 INVALID-ORDER-434
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_2 L_3 R_2 R_3 g_m + C_1 C$

10.435 INVALID-ORDER-435
$$Z(s) = \left(L_1 s + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2C_3L_1L_3R_2R_3s^5 + C_2R_2R_3s + R_2R_3g_m + R_3 + s^6\left(C_1C_2C_3L_1L_2L_3R_2R_3g_m + C_1C_2C_3L_1L_2L_3R_3\right) + s^4\left(C_1C_2C_3L_1L_2L_3R_2g_m + C_1C_2C_3L_1L_2R_3g_m + C_1C_2C_3L_1$

10.436 INVALID-ORDER-436 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s \left(L_1 R_2 g_m + L_1 \right)}{C_1 C_3 L_1 R_2 s^3 + C_3 R_2 s + s^2 \left(C_1 L_1 + C_3 L_1 R_2 g_m + C_3 L_1 \right) + 1}$$

10.437 INVALID-ORDER-437 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s \left(L_1 R_2 R_3 g_m + L_1 R_3 \right)}{C_1 C_3 L_1 R_2 R_3 s^3 + R_2 + R_3 + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_3 + C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 \right) + s \left(C_3 R_2 R_3 + L_1 R_2 g_m + L_1 \right)}$$

10.438 INVALID-ORDER-438 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty\right)$

$$H(s) = \frac{s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^3 \left(C_1 C_3 L_1 R_2 + C_1 C_3 L_1 R_3 \right) + s^2 \left(C_1 L_1 + C_3 L_1 R_2 g_m + C_3 L_1 \right) + s \left(C_3 R_2 + C_3 R_3 \right) + 1}$$

10.439 INVALID-ORDER-439 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{C_1 C_3 L_1 L_3 s^4 + C_1 C_3 L_1 R_2 s^3 + C_3 R_2 s + s^2 \left(C_1 L_1 + C_3 L_1 R_2 g_m + C_3 L_1 + C_3 L_3 \right) + 1}$$

10.440 INVALID-ORDER-440 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^2 \left(L_1 L_3 R_2 g_m + L_1 L_3 \right)}{C_1 C_3 L_1 L_3 R_2 s^4 + R_2 + s^3 \left(C_1 L_1 L_3 + C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 \right) + s^2 \left(C_1 L_1 R_2 + C_3 L_3 R_2 \right) + s \left(L_1 R_2 g_m + L_1 + L_3 \right)}$$

10.441 INVALID-ORDER-441 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3\right) + s^2 \left(C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3\right) + s \left(L_1 R_2 g_m + L_1\right)}{C_1 C_3 L_1 L_3 s^4 + s^3 \left(C_1 C_3 L_1 R_2 + C_1 C_3 L_1 R_3\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_2 g_m + C_3 L_1 + C_3 L_3\right) + s \left(C_3 R_2 + C_3 R_3\right) + 1}$$

10.442 INVALID-ORDER-442 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

10.443 INVALID-ORDER-443 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_2 R_3 g_m + C_3 L_1 L_3 R_3\right) + s^2 \left(L_1 L_3 R_2 g_m + L_1 L_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3\right)}{R_2 + R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_2 + C_1 C_3 L_1 L_3 R_3\right) + s^3 \left(C_1 L_1 L_3 + C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_3 + C_3 L_3 R_2 + C_3 L_3 R_3\right) + s \left(L_1 R_2 g_m + L_1 + L_3\right)}$$

10.444 INVALID-ORDER-444
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{s^3 \left(C_3 L_1 L_3 R_2 R_3 g_m + C_3 L_1 L_3 R_3 \right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3 \right)}{R_2 + R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_2 + C_1 C_3 L_1 L_3 R_3 \right) + s^3 \left(C_1 C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 \right) + s^2 \left(C_1 L_1 R_2 + C_1 L_1 R_3 + C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3 \right) + s \left(C_3 R_2 R_3 + L_1 R_2 g_m + L_1 R_3 \right)}$$

10.445 INVALID-ORDER-445 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_1R_3s^2 + L_1R_3g_ms}{C_1C_2L_1R_3s^3 + s^2\left(C_1L_1 + C_2L_1\right) + s\left(C_2R_3 + L_1g_m\right) + 1}$$

10.446 INVALID-ORDER-446 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_1R_3s^2 + L_1R_3g_ms}{s^3\left(C_1C_2L_1R_3 + C_1C_3L_1R_3 + C_2C_3L_1R_3\right) + s^2\left(C_1L_1 + C_2L_1 + C_3L_1R_3g_m\right) + s\left(C_2R_3 + C_3R_3 + L_1g_m\right) + 1}$$

10.447 INVALID-ORDER-447 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_1R_3s^2 + L_1g_m + s\left(C_2L_1 + C_3L_1R_3g_m\right)}{C_1C_2C_3L_1R_3s^3 + C_2 + C_3 + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1\right) + s\left(C_2C_3R_3 + C_3L_1g_m\right)}$$

10.448 INVALID-ORDER-448 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_1L_3s^3 + C_2L_1s + C_3L_1L_3g_ms^2 + L_1g_m}{C_1C_2C_3L_1L_3s^4 + C_2 + C_3L_1g_ms + C_3 + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1 + C_2C_3L_3\right)}$$

10.449 INVALID-ORDER-449 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2 L_1 L_3 s^3 + L_1 L_3 g_m s^2}{C_3 L_1 L_3 q_m s^3 + L_1 q_m s + s^4 (C_1 C_2 L_1 L_3 + C_1 C_3 L_1 L_3 + C_2 C_3 L_1 L_3) + s^2 (C_1 L_1 + C_2 L_1 + C_2 L_3 + C_3 L_3) + 1}$$

10.450 INVALID-ORDER-450 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_1L_3s^3 + L_1g_m + s^2\left(C_2C_3L_1R_3 + C_3L_1L_3g_m\right) + s\left(C_2L_1 + C_3L_1R_3g_m\right)}{C_1C_2C_3L_1L_3s^4 + C_1C_2C_3L_1R_3s^3 + C_2 + C_3 + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1 + C_2C_3L_3\right) + s\left(C_2C_3R_3 + C_3L_1g_m\right)}$$

10.451 INVALID-ORDER-451 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2L_1L_3R_3s^3 + L_1L_3R_3g_ms^2}{R_3 + s^4\left(C_1C_2L_1L_3R_3 + C_1C_3L_1L_3R_3 + C_2C_3L_1L_3R_3\right) + s^3\left(C_1L_1L_3 + C_2L_1L_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_1L_1R_3 + C_2L_1R_3 + C_2L_3R_3 + C_3L_3R_3 + L_1L_3g_m\right) + s\left(L_1R_3g_m + L_3\right)}$$

10.452 INVALID-ORDER-452 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_2C_3L_1L_3R_3s^4 + L_1R_3g_ms + s^3\left(C_2L_1L_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_2L_1R_3 + L_1L_3g_m\right)}{C_1C_2C_3L_1L_3R_3s^5 + s^4\left(C_1C_2L_1L_3 + C_1C_3L_1L_3 + C_2C_3L_1L_3\right) + s^3\left(C_1C_2L_1R_3 + C_2C_3L_3R_3 + C_3L_1L_3g_m\right) + s^2\left(C_1L_1 + C_2L_1 + C_2L_3 + C_3L_3\right) + s\left(C_2R_3 + L_1g_m\right) + 1}$$

10.453 INVALID-ORDER-453
$$Z(s) = \left(\sum_{i_1,i_2=1}^{i_1,i_2=1}, \sum_{i_2,i_3=1}^{i_3,i_3=1}, \sum_{i_3,i_4=1}^{i_3,i_3=1}, \sum_{i_3,i_4=1}^{i_3,i_4=1}, \sum_{i_3,i_4=1$$

 $H(s) = \frac{C_2L_1L_3R_2R_3s^3 + s^2\left(L_1L_3R_2R_3g_m + L_1L_3R_3\right)}{R_2R_3 + s^4\left(C_1C_2L_1L_3R_2R_3 + C_1C_3L_1L_3R_2R_3 + C_2C_3L_1L_3R_2R_3\right) + s^3\left(C_1L_1L_3R_2 + C_1L_1L_3R_2 + C_3L_1L_3R_2 + C_3L_1L_3R_2\right) + s^2\left(C_1L_1R_2R_3 + C_2L_1R_2R_3 + C_2L_1R_2R_3$

10.462 INVALID-ORDER-462 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2C_3L_1L_3R_2R_3s^4 + s^3\left(C_2L_1L_3R_2 + C_3L_1L_3R_2g_m + C_3L_1L_3R_3\right) + s^2\left(C_2L_1R_2R_3 + L_1L_3R_2g_m + L_1L_3\right) + s\left(L_1R_2R_3g_m + L_1R_3\right)}{C_1C_2C_3L_1L_3R_2s^5 + R_2 + R_3 + s^4\left(C_1C_2L_1L_3R_2 + C_1C_3L_1L_3R_2 + C_1C_3L_1L_3R_2\right) + s^3\left(C_1C_2L_1R_2R_3 + C_1L_1L_3 + C_2C_3L_3R_2R_3 + C_3L_1L_3\right) + s^2\left(C_1L_1R_2 + C_1L_1R_3 + C_2L_1R_2 + C_2L_3R_2 + C_3L_3R_3\right) + s^2\left(C_1L_1R_2 + C_3L_3R_3 + C_3L_3R_3\right) + s^2\left(C_1L_1R_2 + C_3L_3R_3 + C_3L_3R_3\right) + s^2\left(C_2L_1R_2R_3 + L_3L_3R_3\right) + s^2\left(C_3L_3R_3R_3 + C_3L_3R_3\right) + s$

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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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_3R_2R_3s^4 + C_2L_1R_2R_3s^2 + s^3\left(C_3L_1L_3R_2R_3g_m + C_3L_1L_3R_3\right) + s\left(L_1R_2R_3g_m + L_1R_3\right)}{C_1C_2C_3L_1L_3R_2R_3s^5 + R_2 + R_3 + s^4\left(C_1C_3L_1L_3R_2 + C_1C_3L_1L_3R_3 + C_2C_3L_1R_2R_3 + C_2C_3L_1R_2R_3 + C_2C_3L_1R_2R_3 + C_2C_3L_1R_2R_3 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_2 + C_1L_1R_3 + C_2L_1R_2 + C_3L_1R_2R_3 + C_3L_1R_2R_3 + C_3L_1R_2R_3 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_2 + C_1L_1R_3 + C_2L_1R_2 + C_3L_1R_3 + C_3L_1R_3\right) + s^2\left(C_1L_1R_2 + C_3L_1R_3 + C_3L_1R_3 + C_3L_1R_3\right) + s^2\left(C_1L_1R_2 + C_3L_1R_3 + C_3L_1R_3 + C_3L_1R_3\right) + s^2\left(C_1L_1R_2 + C_3L_1R_3 + C_3L_1R_3\right) + s^2\left(C_1L_1R_3 + 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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                           H(s) = \frac{L_1 R_3 g_m s + s^2 \left( C_2 L_1 R_2 R_3 g_m + C_2 L_1 R_3 \right)}{s^3 \left( C_1 C_2 L_1 R_2 + C_1 C_2 L_1 R_3 \right) + s^2 \left( C_1 L_1 + C_2 L_1 R_2 g_m + C_2 L_1 \right) + s \left( C_2 R_2 + C_2 R_3 + L_1 g_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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3 L_1 R_2 s^3 + C_2 + C_3 + s^2 \left( C_1 C_2 L_1 + C_1 C_3 L_1 + C_2 C_3 L_1 R_2 g_m + C_2 C_3 L_1 \right) + s \left( C_2 C_3 R_2 + C_3 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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                            H(s) = \frac{L_1 g_m + s^2 \left( C_2 C_3 L_1 R_2 R_3 g_m + C_2 C_3 L_1 R_3 \right) + s \left( C_2 L_1 R_2 g_m + C_2 L_1 + C_3 L_1 R_3 g_m \right)}{C_2 + C_3 + s^3 \left( C_1 C_2 C_3 L_1 R_2 + C_1 C_2 C_3 L_1 R_3 \right) + s^2 \left( C_1 C_2 L_1 + C_1 C_3 L_1 + C_2 C_3 L_1 R_2 g_m + C_2 C_3 L_1 \right) + s \left( C_2 C_3 R_2 + C_2 C_3 R_3 + C_3 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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                            H(s) = \frac{C_3L_1L_3g_ms^2 + L_1g_m + s^3\left(C_2C_3L_1L_3R_2g_m + C_2C_3L_1L_3\right) + s\left(C_2L_1R_2g_m + C_2L_1\right)}{C_1C_2C_3L_1L_3s^4 + C_1C_2C_3L_1R_2s^3 + C_2 + C_3 + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1R_2g_m + C_2C_3L_1 + C_2C_3L_3\right) + s\left(C_2C_3R_2 + C_3L_1g_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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                                                               H(s) = \frac{L_{1}L_{3}g_{m}s^{2} + s^{3}\left(C_{2}L_{1}L_{3}R_{2}g_{m} + C_{2}L_{1}L_{3}\right)}{C_{1}C_{2}C_{3}L_{1}L_{3}R_{2}s^{5} + s^{4}\left(C_{1}C_{2}L_{1}L_{3} + C_{1}C_{3}L_{1}L_{3} + C_{2}C_{3}L_{1}L_{3}R_{2}g_{m} + C_{2}C_{3}L_{1}L_{3}\right) + s^{3}\left(C_{1}C_{2}L_{1}R_{2} + C_{2}C_{3}L_{3}R_{2} + C_{3}L_{1}L_{3}g_{m}\right) + s^{2}\left(C_{1}L_{1} + C_{2}L_{1}R_{2}g_{m} + C_{2}L_{1} + C_{2}L_{3} + C_{3}L_{3}\right) + s\left(C_{2}R_{2} + L_{1}g_{m}\right) + 1
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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                            H(s) = \frac{L_1 g_m + s^3 \left(C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3\right) + s^2 \left(C_2 C_3 L_1 R_2 R_3 g_m + C_2 C_3 L_1 R_3 + C_3 L_1 L_3 g_m\right) + s \left(C_2 L_1 R_2 g_m + C_2 L_1 + C_3 L_1 R_3 g_m\right)}{C_1 C_2 C_3 L_1 L_3 s^4 + C_2 + C_3 + s^3 \left(C_1 C_2 C_3 L_1 R_2 + C_1 C_2 C_3 L_1 R_3\right) + s^2 \left(C_1 C_2 L_1 + C_1 C_3 L_1 + C_2 C_3 L_1 R_2 g_m + C_2 C_3 L_1 + C_2 C_3 L_3\right) + s \left(C_2 C_3 R_2 + C_2 C_3 R_3 + C_3 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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
H(s) = \frac{L_1 L_3 R_3 g_m s^2 + s^3 \left(C_2 L_1 L_3 R_2 R_3 g_m + C_2 L_1 L_3 R_3\right)}{C_1 C_2 C_3 L_1 L_3 R_2 R_3 s^5 + R_3 + s^4 \left(C_1 C_2 L_1 L_3 R_2 + C_1 C_2 L_1 L_3 R_3 + C_2 C_3 L_1 L_3 R_3 g_m + C_2 C_3 L_1 L_3 R_3\right) + s^3 \left(C_1 C_2 L_1 R_2 R_3 + C_1 L_1 L_3 + C_2 C_3 L_1 L_3 R_2 g_m + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 R_3 R_3 g_m + C_2 L_1 R_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 + C_2 L_1 L_3 R_3 g_m\right) + s^2 \left(C_1 L_1 R_3 R_3
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 $H(s) = \frac{L_1 R_3 g_m s + s^4 \left(C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3 R_3 g_m + C_2 L_1 L_3 + C_3 L_1 L_3 R_3 g_m + S^2 \left(C_2 L_1 R_2 R_3 g_m + C_2 L_1 R_3 + L_1 L_3 g_m\right)}{s^5 \left(C_1 C_2 C_3 L_1 L_3 R_2 + C_1 C_2 C_3 L_1 L_3 R_3 + C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3 R_3 + C_2 C_3 L_1 L_3$

10.472 INVALID-ORDER-472 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

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10.473 INVALID-ORDER-473 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, R_2 + \frac{1}{C_2 s}, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_3L_1L_3R_3g_ms^3 + L_1R_3g_ms + s^4\left(C_2C_3L_1L_3R_2g_m + C_2C_3L_1L_3R_3\right) + s^2\left(C_2L_1R_2R_3g_m + C_2L_1R_3\right)}{s^5\left(C_1C_2C_3L_1L_3R_2 + C_1C_2C_3L_1L_3R_3\right) + s^4\left(C_1C_2C_3L_1L_3R_2 + C_1C_3L_1L_3R_2 + C_1C_3L_1R_3 + C_2C_3L_1R_3 + C_2C_3L_1R_
10.474 INVALID-ORDER-474 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                    H(s) = \frac{C_2 L_1 L_2 R_3 g_m s^3 + C_2 L_1 R_3 s^2 + L_1 R_3 g_m s}{C_1 C_2 L_1 L_2 s^4 + s^3 \left( C_1 C_2 L_1 R_3 + C_2 L_1 L_2 q_m \right) + s^2 \left( C_1 L_1 + C_2 L_1 + C_2 L_2 \right) + s \left( C_2 R_3 + L_1 q_m \right) + 1}
10.475 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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                        H(s) = \frac{C_2L_1L_2g_ms^2 + C_2L_1s + L_1g_m}{C_1C_2C_3L_1L_2s^4 + C_2C_3L_1L_2g_ms^3 + C_2 + C_3L_1g_ms + C_3 + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1 + C_2C_3L_2\right)}
10.476 INVALID-ORDER-476 Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)
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$$H(s) = \frac{C_2L_1L_2R_3g_ms^3 + C_2L_1R_3s^2 + L_1R_3g_ms}{C_1C_2C_3L_1L_2R_3s^5 + s^4\left(C_1C_2L_1L_2 + C_2C_3L_1L_2R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_1C_3L_1R_3 + C_2C_3L_1R_3 + C_2C_3L_2R_3 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1 + C_2L_1 + C_2L_2 + C_3L_1R_3g_m\right) + s\left(C_2R_3 + C_3R_3 + L_1g_m\right) + 1}$$

$$\textbf{10.477} \quad \textbf{INVALID-ORDER-477} \ Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \ L_2s + \frac{1}{C_2s}, \ R_3 + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_2C_3L_1L_2R_3g_ms^3 + L_1g_m + s^2\left(C_2C_3L_1R_3 + C_2L_1L_2g_m\right) + s\left(C_2L_1 + C_3L_1R_3g_m\right)}{C_1C_2C_3L_1L_2s^4 + C_2 + C_3 + s^3\left(C_1C_2C_3L_1R_3 + C_2C_3L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1 + C_2C_3L_2\right) + s\left(C_2C_3R_3 + C_3L_1g_m\right)}$$

$$\begin{aligned} \textbf{10.478} \quad \textbf{INVALID-ORDER-478} \ \ Z(s) &= \left(\frac{L_{1s}}{C_1L_1s^2+1}, \ L_2s + \frac{1}{C_2s}, \ L_3s + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right) \\ & H(s) &= \frac{C_2C_3L_1L_2L_3g_ms^4 + C_2C_3L_1L_3s^3 + C_2L_1s + L_1g_m + s^2\left(C_2L_1L_2g_m + C_3L_1L_3g_m\right)}{C_2C_3L_1L_2g_ms^3 + C_2 + C_3L_1g_ms + C_3 + s^4\left(C_1C_2C_3L_1L_2 + C_1C_2C_3L_1L_3\right) + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1 + C_2C_3L_2 + C_2C_3L_3\right)} \end{aligned}$$

$$\begin{aligned} \textbf{10.480} \quad \textbf{INVALID-ORDER-480} \ \ Z(s) &= \left(\frac{L_{1s}}{C_{1}L_{1}s^{2}+1}, \ L_{2}s + \frac{1}{C_{2}s}, \ L_{3}s + R_{3} + \frac{1}{C_{3}s}, \ \infty, \ \infty, \ \infty\right) \\ & H(s) &= \frac{C_{2}C_{3}L_{1}L_{2}L_{3}g_{m}s^{4} + L_{1}g_{m} + s^{3}\left(C_{2}C_{3}L_{1}L_{2}R_{3}g_{m} + C_{2}C_{3}L_{1}L_{3}\right) + s^{2}\left(C_{2}C_{3}L_{1}R_{3} + C_{2}L_{1}L_{2}g_{m} + C_{3}L_{1}L_{3}g_{m}\right) + s\left(C_{2}L_{1} + C_{3}L_{1}R_{3}g_{m}\right)}{C_{2} + C_{3} + s^{4}\left(C_{1}C_{2}C_{3}L_{1}L_{2} + C_{1}C_{2}C_{3}L_{1}L_{3}\right) + s^{3}\left(C_{1}C_{2}C_{3}L_{1}R_{3} + C_{2}C_{3}L_{1}L_{2}g_{m}\right) + s^{2}\left(C_{1}C_{2}L_{1} + C_{1}C_{3}L_{1} + C_{2}C_{3}L_{1} + C_{2}C_{3}L_{2} + C_{2}C_{3}L_{3}\right) + s\left(C_{2}C_{3}R_{3} + C_{3}L_{1}g_{m}\right) \end{aligned}$$

10.481 INVALID-ORDER-481
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, L_2 s + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_2L_1L_2L_3R_3g_ms^4 + C_2L_1L_3R_3s^3 + L_1L_3R_3g_ms^2}{C_1C_2C_3L_1L_2L_3R_3s^6 + R_3 + s^5\left(C_1C_2L_1L_2L_3 + C_2C_3L_1L_2R_3g_m\right) + s^4\left(C_1C_2L_1L_2R_3 + C_1C_2L_1L_3R_3 + C_2C_3L_1L_3R_3 + C_2C_3L_3L_3R_3 + C_2C_3L_3L_3L_3R_3 + C_2C_3L_3L_3R_3 + C_2C_3L_3L_3R_3 + C_2C_3L_3L_3R_3 +$$

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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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_2L_3R_3g_ms^5 + C_2C_3L_1L_3R_3s^4 + C_2L_1R_3s^2 + L_1R_3g_ms + s^3\left(C_2L_1L_2R_3g_m + C_3L_1L_3R_3g_m\right)}{C_1C_2C_3L_1L_2L_3s^6 + s^5\left(C_1C_2C_3L_1L_2R_3 + C_1C_2C_3L_1L_3R_3 + C_2C_3L_1L_3R_3 + C_2C_3L_1L_3R_3 + C_2C_3L_1L_3R_3 + C_2C_3L_1L_3R_3 + C_2C_3L_1L_3R_3 + C_2C_3L_1L_3R_3 + C_2C_3L_1R_3 
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                          H(s) = \frac{C_2L_1L_2R_3g_ms^3 + L_1R_3g_ms + s^2\left(C_2L_1R_2R_3g_m + C_2L_1R_3\right)}{C_1C_2L_1L_2s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_2L_1R_3 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1 + C_2L_1R_2g_m + C_2L_1 + C_2L_2\right) + s\left(C_2R_2 + C_2R_3 + L_1g_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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3L_1L_2s^4 + C_2 + C_3 + s^3\left(C_1C_2C_3L_1R_2 + C_2C_3L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1R_2g_m + C_2C_3L_1 + C_2C_3L_2\right) + s\left(C_2C_3R_2 + C_3L_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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_1L_2R_3g_ms^3 + L_1R_3g_ms + s^2\left(C_2L_1R_2R_3g_m + C_2L_1R_3\right)}{C_1C_2C_3L_1L_2R_3s^5 + s^4\left(C_1C_2C_3L_1R_2R_3 + C_1C_2L_1L_2 + C_2C_3L_1L_2R_3g_m\right) + s^3\left(C_1C_2L_1R_2 + C_1C_2L_1R_3 + C_1C_3L_1R_3 + C_2C_3L_1R_3 + C_2C_3L_1R_3 + C_2C_3L_2R_3 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1 + C_2C_3R_2R_3 + C_2L_1R_2g_m + C_2L_1 + C_2L_2 + C_3L_1R_3g_m\right) + s\left(C_2R_3R_3R_3 + C_2R_3R_3R_3 + C_2R_3R_3R_3R_3 + C_2R_3R_3R_3 + C_2R_3R_3R_3R_3 + C_2R_3R_3R_3 + C_2R_3R_3 + C_2R_3R_3R_3 + C_2R_3R_3R_3 + C_2R_3R_3 + C_2R_3R_3R_3 + C_2
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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                  H(s) = \frac{C_2C_3L_1L_2R_3g_ms^3 + L_1g_m + s^2\left(C_2C_3L_1R_2R_3g_m + C_2C_3L_1R_3 + C_2L_1L_2g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 + C_3L_1R_3g_m\right)}{C_1C_2C_3L_1L_2s^4 + C_2 + C_3 + s^3\left(C_1C_2C_3L_1R_2 + C_1C_2C_3L_1R_3 + C_2C_3L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1R_2g_m + C_2C_3L_1 + C_2C_3L_1\right) + s\left(C_2C_3R_2 + C_2C_3R_3 + C_3L_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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                               H(s) = \frac{C_2C_3L_1L_2L_3g_ms^4 + L_1g_m + s^3\left(C_2C_3L_1L_3R_2g_m + C_2C_3L_1L_3\right) + s^2\left(C_2L_1L_2g_m + C_3L_1L_3g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1\right)}{C_2 + C_3 + s^4\left(C_1C_2C_3L_1L_2 + C_1C_2C_3L_1L_3\right) + s^3\left(C_1C_2C_3L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1R_2g_m + C_2C_3L_1 + C_2C_3L_2 + C_2C_3L_3\right) + s\left(C_2C_3R_2 + C_3L_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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_1L_2L_3g_ms^4 + L_1L_3g_ms^2 + s^3\left(C_2L_1L_3R_2g_m + C_2L_1L_3\right)}{C_1C_2C_3L_1L_2L_3s^6 + s^5\left(C_1C_2C_3L_1L_3R_2 + C_2C_3L_1L_2L_3g_m\right) + s^4\left(C_1C_2L_1L_2 + C_1C_2L_1L_3 + C_1C_3L_1L_3 + C_2C_3L_1L_3 + C_2C_3L_1L
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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                            H(s) = \frac{C_2C_3L_1L_2L_3g_ms^4 + L_1g_m + s^3\left(C_2C_3L_1L_2R_3g_m + C_2C_3L_1L_3R_2g_m + C_2C_3L_1L_3\right) + s^2\left(C_2C_3L_1R_2R_3g_m + C_2C_3L_1R_3 + C_2L_1L_2g_m + C_3L_1L_3g_m\right) + s\left(C_2L_1R_2g_m + C_2L_1 + C_3L_1R_3g_m\right)}{C_2 + C_3 + s^4\left(C_1C_2C_3L_1L_2 + C_1C_2C_3L_1L_3\right) + s^3\left(C_1C_2C_3L_1R_3 + C_2C_3L_1L_2g_m\right) + s^2\left(C_1C_2L_1 + C_1C_3L_1 + C_2C_3L_1R_2g_m + C_2C_3L_1 + C_2C_3L_1\right) + s\left(C_2C_3R_2 + C_2C_3R_3 + C_3L_1g_m\right)}
10.491 INVALID-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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_2L_1L_2L_3R_3g_ms^4 + L_1L_3R_3g_ms^2 + s^3(C_2L_1L_3R_2R_3g_ms^2)
H(s) = \frac{C_2 L_1 L_2 L_3 R_3 g_m s + L_1 L_3 R_3 g_m s + L_1 L_3 R_3 g_m s + L_1 L_3 R_3 g_m s + L_2 L_3 R_3 g_m s + L_3 L_3 R_3 g_m s + L_4 L_4 R_4 g_m s + L_4 L_4
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
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 $\frac{C_2C_3L_1L_2L_3R_3g_ms^5 + L_1R_3g_ms + s^4\left(C_2C_3L_1L_3R_2g_m + C_2L_1L_2R_3g_m + C_2L_1L_3R_2g_m + C_2L_1L_3R_2g_m + C_2L_1L_3R_3g_m \right) + s^2\left(C_2L_1R_2R_3g_m + C_2L_1L_3R_3g_m + C_2L_3L_3R_3g_m + C_2L_3$

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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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{C_2C_3L_1L_2L_3R_3g_ms^5 + L_1R_3g_ms + s^4\left(C_2C_3L_1L_3R_2R_3g_m + C_2C_3L_1L_3R_3\right) + s^3\left(C_2L_1L_2R_3\right)}{C_1C_2C_3L_1L_2L_3s^6 + s^5\left(C_1C_2C_3L_1L_2R_3 + C_1C_2C_3L_1L_3R_2 + C_1C_2C_3L_1L_3R_3 + C_2C_3L_1L_3R_2\right) + s^4\left(C_1C_2C_3L_1L_2R_3 + C_1C_2L_1L_2 + C_1C_3L_1L_3 + C_2C_3L_1L_3R_2g_m + C_2C_3L_1L_3R_2g_m + C_2C_3L_1L_3R_3 + C_1C_2L_1R_3 + 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, R_3, \infty, \infty, \infty\right)
                                                                                                                  H(s) = \frac{L_1 L_2 R_3 g_m s^2 + s^3 \left(C_2 L_1 L_2 R_2 R_3 g_m + C_2 L_1 L_2 R_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3\right)}{R_2 + R_3 + s^4 \left(C_1 C_2 L_1 L_2 R_2 + C_1 C_2 L_1 L_2 R_3\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_3 + C_2 L_2 R_2 + C_2 L_2 R_3 + 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, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3 L_1 L_2 R_2 s^5 + C_3 R_2 s + s^4 \left(C_1 C_2 L_1 L_2 + C_1 C_3 L_1 L_2 R_2 g_m + C_2 C_3 L_1 L_2\right) + s^3 \left(C_1 C_3 L_1 R_2 + C_2 C_3 L_2 R_2 + C_3 L_1 L_2 g_m\right) + s^2 \left(C_1 L_1 + C_2 L_2 + C_3 L_1 R_2 g_m + C_3 L_1 + C_3 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, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{L_1 L_2 R_3 g_m s^2 + s^3 \left(C_2 L_1 L_2 R_3 g_m + C_2 L_1 L_2 R_3\right) + s \left(L_1 R_2 R_3 g_m + L_1 R_3\right)}{C_1 C_2 C_3 L_1 L_2 R_3 s^5 + R_2 + R_3 + s^4 \left(C_1 C_2 L_1 L_2 R_3 + C_1 C_3 L_1 L_2 R_3 + C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_2 L_2 L_2 R_3 g_m + C_2 L_2 R_3 g_m 
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, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
 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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
      H(s) = \frac{C_3L_1L_2L_3g_ms^4 + L_1L_2g_ms^2 + s^5\left(C_2C_3L_1L_2L_3R_2g_m + C_2C_3L_1L_2L_3\right) + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_3L_1L_2L_3s^6 + C_1C_2C_3L_1L_2R_2s^5 + C_3R_2s + s^4\left(C_1C_2L_1L_2 + C_1C_3L_1L_3 + C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2 + C_2C_3L_2L_3\right) + s^3\left(C_1C_3L_1L_2 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s\left(L_1R_2g_m + L_1\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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
10.500 INVALID-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, L_3 s + R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
                       \frac{s^5 \left(C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 C_3 L_1 L_2 L_3\right) + s^4 \left(C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_2 R_3 g_m + C_3 L_1 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, \frac{L_3 R_3 s}{C_2 L_2 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
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 $\frac{s^5 \left(C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 L_1 L_2 L_3 R_2 g_m + C_2 L_1 L_2 L_3 R_2 g_m + C_2 L_1 L_2 L_3 R_3 g_m \right) + s^3 \left(C_2 L_1 L_2 R_2 R_3 g_m + C_2 L_1 L_2 R_3 + C_3 L_1 L_2 R_3 g_m + C_2 L_1 L_2 R_3 g_m$

10.502 INVALID-ORDER-502 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

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10.503 INVALID-ORDER-503 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
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}, R_3, \infty, \infty, \infty\right)
                                                                                                           H(s) = \frac{C_2L_1R_2R_3s^2 + s^3\left(C_2L_1L_2R_2R_3g_m + C_2L_1L_2R_3\right) + s\left(L_1R_2R_3g_m + L_1R_3\right)}{R_2 + R_3 + s^4\left(C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_3\right) + s^3\left(C_1C_2L_1R_2R_3 + C_2L_1L_2R_2g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_2 + C_1L_1R_3 + C_2L_1R_2 + C_2L_2R_3\right) + s\left(C_2R_2R_3 + 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}(C_{2}L_{2}s^{2}+1)}{C_{2}L_{2}s^{2}+C_{2}R_{2}s+1}, \frac{1}{C_{3}s}, \infty, \infty, \infty\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_3L_1L_2R_2s^5 + s^4\left(C_1C_2L_1L_2 + C_2C_3L_1L_2R_2g_m + C_2C_3L_1L_2\right) + s^3\left(C_1C_2L_1R_2 + C_1C_3L_1R_2 + C_2C_3L_1R_2 + C_2C_3L_2R_2\right) + s^2\left(C_1L_1 + C_2L_2 + C_3L_1R_2g_m + C_3L_1\right) + s\left(C_2R_2 + C_3R_2\right) + 1}
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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                          \frac{C_{2}L_{1}R_{2}R_{3}s^{2}+s^{3}\left(C_{2}L_{1}L_{2}R_{2}g_{3}g_{m}+C_{2}L_{1}L_{2}R_{3}\right)+s\left(L_{1}R_{2}R_{3}g_{m}+L_{1}R_{3}\right)}{C_{1}C_{2}C_{3}L_{1}L_{2}R_{2}+R_{3}+s^{4}\left(C_{1}C_{2}L_{1}L_{2}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{3}+C_{2}C_{3}L_{1}R_{2}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{3}+C_{2}C_{3}L_{1}R_{2}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_{2}+C_{2}L_{1}L_{2}R_
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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_3R_2s^4 + C_2L_1R_2s^2 + s^5\left(C_2C_3L_1L_2L_3R_2g_m + C_2C_3L_1L_2\right) + s^3\left(C_2L_1L_2R_2g_m + C_2L_1L_2 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s\left(L_1R_2g_m + L_1\right)}{C_1C_2C_3L_1L_2L_3s^6 + s^5\left(C_1C_2C_3L_1L_2R_2 + C_1C_3L_1L_3 + C_2C_3L_1L_2 + C_2C_3L_1L_2 + C_2C_3L_1L_2\right) + s^3\left(C_1C_2L_1R_2 + C_1C_3L_1L_2 + C_2C_3L_1R_2 + C_2C_3L
10.509 INVALID-ORDER-509 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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_1L_3R_2s^3 + s^4\left(C_2L_1L_2L_3R_2g_m + C_2L_1L_2L_3\right) + s^2\left(L_1L_3R_2g_m + L_1L_3\right)}{C_1C_2C_3L_1L_2L_3R_2s^6 + R_2 + s^5\left(C_1C_2L_1L_2L_3 + C_2C_3L_1L_2L_3\right) + s^4\left(C_1C_2L_1L_2R_2 + C_1C_2L_1L_3R_2 + C_1C_3L_1L_3R_2 + C_2C_3L_1L_3R_2 + C_2C_3L_3R_2 + C_2C_3
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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
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 $H(s) = \frac{s^5 \left(C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 + C_2 C_3 L_1 L_2 R_3 + C_2 L_1 L_2 R_2 g_m + C_2 L_1 L_2 + C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3 + s^2 \left(C_2 L_1 R_2 + C_2 C_3 L_1 L_2 R_3 + C_2 C_3 L_1 L_2 R_2 g_m + C_2 C_3 L_1 L_2 + C_2 C_3 L_2 L_3 \right) + s^3 \left(C_1 C_2 L_1 R_2 + C_1 C_3 L_1 R_3 + C_2 C_3 L_1 R_2 + C_2 C_3 L_2 L_3 \right) + s^3 \left(C_1 C_2 L_1 R_2 + C_1 C_3 L_1 R_3 + C_2 C_3 L_1 R_2 + C_2 C_3 L_2 L_3 \right) + s^3 \left(C_1 C_2 L_1 R_2 + C_1 C_3 L_1 R_3 + C_2 C_3 L_1 R_2 + C_2 C_3 L_2 R_2 + C_2 C_$

 $H(s) = \frac{C_2L_1L_3R_2R_3s^3 + s^4\left(C_2L_1L_2L_3R_2R_3g_m + C_2C_3L_1L_2L_3R_2R_3s^3 + s^4\left(C_2L_1L_2L_3R_2R_3g_m + C_2C_3L_1L_2L_3R_2R_3s^4 + C_2C_3L_1L_2L_3R_2R_3s^4 + C_2C_3L_1L_2L_3R_2R_3 + C_2C_3L_1L_3R_2R_3 + C_2C_3L_3R_2R_3 + C_2C_3L_3R_3R_3 + C_2C_3L_3R_3 + C_2C_3L_3R_3 + C_2C_3L_3R_3$

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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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
10.513 INVALID-ORDER-513 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}, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C_2C_3L_1L_3R_2R_3s^4 + C_2L_1R_2R_3s^2 + s^5(C_2C_3L_1L_2L_3)
H(s) = \frac{\sum_{2 \leq 3} \sum_{1} \sum_{3} \sum_{1} \sum_{2} \sum_{3} \sum_{1} \sum_{2} \sum_{1} \sum_{3} \sum_{2} \sum_{1} \sum_{2} \sum_{3} \sum_{1} \sum_{2} \sum_{3} \sum_{1} \sum_{2} \sum_{3} \sum_{1} \sum_{2} \sum_{3} \sum_{1} \sum_{2} \sum_{1} \sum_{1} \sum_{2} \sum_{1} \sum_{1} \sum_{2} \sum_{1} \sum_{1} \sum_{2} \sum_{1} \sum_{1} \sum_{2} \sum_{1} \sum_{2} \sum_{1} \sum_{2} \sum_{1} \sum_{2} \sum_{1} \sum_{2} \sum_{1} \sum_{1} \sum_{1} \sum_{2} \sum_{1} \sum_{
10.514 INVALID-ORDER-514 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3 L_1 R_2 g_m + C_1 C_3 L_1 \right) + s^2 \left( C_1 C_3 R_1 R_2 g_m + C_1 C_3 R_1 + C_1 C_3 R_2 \right) + s \left( C_1 + C_3 R_2 g_m + C_3 \right)}
10.515 INVALID-ORDER-515 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                     H(s) = \frac{R_2R_3g_m + R_3 + s^2\left(C_1L_1R_2R_3g_m + C_1L_1R_3\right) + s\left(C_1R_1R_2R_3g_m + C_1R_1R_3\right)}{R_2g_m + s^3\left(C_1C_3L_1R_2R_3g_m + C_1C_3L_1R_3\right) + s^2\left(C_1C_3R_1R_2R_3g_m + C_1C_3R_1R_3 + C_1C_3R_2R_3 + C_1L_1R_2g_m + C_1L_1\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_1R_3 + C_3R_2R_3g_m + C_3R_3\right) + 1}
10.516 INVALID-ORDER-516 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                  H(s) = \frac{R_2g_m + s^3\left(C_1C_3L_1R_2R_3g_m + C_1C_3L_1R_3\right) + s^2\left(C_1C_3R_1R_2R_3g_m + C_1C_3R_1R_3 + C_1L_1R_2g_m + C_1L_1\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_3R_2R_3g_m + C_3R_3\right) + 1}{s^3\left(C_1C_3L_1R_2g_m + C_1C_3L_1\right) + s^2\left(C_1C_3R_1R_2g_m + C_1C_3R_1 + C_1C_3R_2 + C_1C_3R_3\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_2g_m + C_3R_3\right) + s\left(C_1+C_3R_3g_m + C_3R_3g_m + C_3R_3\right) + s\left(C_1+C_3R_3g_m + C_3R_3g_m + C_3R_3g_m
10.517 INVALID-ORDER-517 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                          10.518 INVALID-ORDER-518 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                                                                                                                H(s) = \frac{s^3 \left(C_1 L_1 L_3 R_2 g_m + C_1 L_1 L_3\right) + s^2 \left(C_1 L_3 R_1 R_2 g_m + C_1 L_3 R_1\right) + s \left(L_3 R_2 g_m + L_3\right)}{R_2 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_3 R_1 R_2 g_m + C_1 C_3 L_3 R_1\right) + s^2 \left(C_1 L_1 R_2 g_m + C_1 L_1 + C_1 L_3 + C_3 L_3 R_2 g_m + C_3 L_3\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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
          H(s) = \frac{R_2 g_m + s^4 \left(C_1 C_3 L_1 L_3 R_2 g_m + C_1 C_3 L_1 L_3\right) + s^3 \left(C_1 C_3 L_1 R_2 R_3 g_m + C_1 C_3 L_1 R_3 + C_1 C_3 L_3 R_1 R_2 g_m + C_1 C_3 L_1 R_3 + C_1 C_3 R_1 R_2 R_3 g_m + C_1 C_3 R_1 R_3 + C_1 L_1 R_2 g_m + C_1 L_1 + C_3 L_3 R_2 g_m + C_1 R_1 R_2 g_m + C_1 R_1 R_2 R_3 g_m + C_1 R_3 R_3 g_m + C_1
10.520 INVALID-ORDER-520 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
                               s^{3}\left(C_{1}L_{1}L_{3}R_{2}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{3}\right)+s^{2}\left(C_{1}L_{3}R_{1}R_{2}R_{3}g_{m}+C_{1}L_{3}R_{1}R_{3}\right)+s\left(L_{3}R_{2}R_{3}g_{m}+L_{3}R_{3}\right)\\ -R_{2}R_{3}g_{m}+R_{3}+s^{4}\left(C_{1}C_{3}L_{1}L_{3}R_{2}R_{3}g_{m}+C_{1}C_{3}L_{1}L_{3}R_{3}\right)+s^{3}\left(C_{1}C_{3}L_{3}R_{1}R_{2}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{2}g_{m}+C_{1}L_{1}L_{3}\right)+s^{2}\left(C_{1}L_{1}R_{2}R_{3}g_{m}+C_{1}L_{3}R_{1}+C_{1}L_{3}R_{2}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L_{3}R_{3}+C_{1}L
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10.521 INVALID-ORDER-521 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

10.522 INVALID-ORDER-522 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

10.523 INVALID-ORDER-523 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1 C_2 L_1 R_3 s^3 + R_3 g_m + s^2 \left(C_1 C_2 R_1 R_3 + C_1 L_1 R_3 g_m \right) + s \left(C_1 R_1 R_3 g_m + C_2 R_3 \right)}{C_1 C_2 L_1 s^3 + g_m + s^2 \left(C_1 C_2 R_1 + C_1 C_2 R_3 + C_1 L_1 g_m \right) + s \left(C_1 R_1 g_m + C_1 + C_2 \right)}$$

10.524 INVALID-ORDER-524 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_1s^3 + g_m + s^2\left(C_1C_2R_1 + C_1L_1g_m\right) + s\left(C_1R_1g_m + C_2\right)}{C_1C_2C_3L_1s^4 + C_3g_ms + s^3\left(C_1C_2C_3R_1 + C_1C_3L_1g_m\right) + s^2\left(C_1C_2 + C_1C_3R_1g_m + C_1C_3 + C_2C_3\right)}$$

10.525 INVALID-ORDER-525 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_1R_3s^3 + R_3g_m + s^2\left(C_1C_2R_1R_3 + C_1L_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3\right)}{C_1C_2C_3L_1R_3s^4 + g_m + s^3\left(C_1C_2C_3R_1R_3 + C_1C_2L_1 + C_1C_3L_1R_3g_m\right) + s^2\left(C_1C_2R_1 + C_1C_2R_3 + C_1C_3R_1R_3g_m + C_1C_3R_3 + C_1L_1g_m + C_2C_3R_3\right) + s\left(C_1R_1g_m + C_1 + C_2 + C_3R_3g_m\right)}$$

10.526 INVALID-ORDER-526 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

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

10.527 INVALID-ORDER-527 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2C_3L_1L_3s^5 + g_m + s^4\left(C_1C_2C_3L_3R_1 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_2L_1 + C_1C_3L_3R_1g_m + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_2\right)}{C_3g_ms + s^4\left(C_1C_2C_3L_1 + C_1C_2C_3L_3\right) + s^3\left(C_1C_2C_3R_1 + C_1C_3L_1g_m\right) + s^2\left(C_1C_2 + C_1C_3R_1g_m + C_2C_3\right)}$$

10.528 INVALID-ORDER-528 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

$$H(s) = \frac{C_1C_2L_1L_3s^4 + L_3g_ms + s^3\left(C_1C_2L_3R_1 + C_1L_1L_3g_m\right) + s^2\left(C_1L_3R_1g_m + C_2L_3\right)}{C_1C_2C_3L_1L_3s^5 + g_m + s^4\left(C_1C_2C_3L_3R_1 + C_1C_3L_1L_3g_m\right) + s^3\left(C_1C_2L_1 + C_1C_2L_3 + C_1C_3L_3R_1g_m + C_1C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1L_1g_m + C_3L_3g_m\right) + s\left(C_1R_1g_m + C_1 + C_2\right)}$$

10.529 INVALID-ORDER-529 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

10.532 INVALID-ORDER-532
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2C_3L_1L_3R_3s^5 + R_3g_m + s^4\left(C_1C_2C_3L_3R_1R_3 + C_1C_3L_1L_3R_3g_m\right) + s^3\left(C_1C_2L_1R_3 + C_1C_3L_3R_1g_m + C_2C_3L_3R_3\right) + s^2\left(C_1C_2R_1R_3 + C_1L_1R_3g_m + C_3L_3R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3\right)}{C_1C_2C_3L_1L_3s^5 + g_m + s^4\left(C_1C_2C_3L_1R_3 + C_1C_2L_1R_3 + C_1C_3L_1R_3g_m + C_1C_3L_3R_3g_m\right) + s^3\left(C_1C_2R_1R_3 + C_1C_3L_1R_3g_m + C_2C_3L_3R_3\right) + s^2\left(C_1C_2R_1R_3 + C_1L_1R_3g_m + C_3L_3R_3g_m\right) + s^2\left(C_1C_2R_1R_3 + C_1L_1R_3g_m + C_2C_3L_3R_3\right) + s^2\left(C_1C_2R_1R_3 + C_1C_2R_1R_3 + C_1C_3L_3R_3g_m\right) + s^2\left(C_1C_2R_1R_3 + C_1C_3R_3R_3 + C_1C_3L_3R_3g_m\right) + s^2\left(C_1C_2R_1R_3 + C_1C_3R_3R_3 + C_1C_3R_3R_3 + C_1C_3R_3R_3\right) + s^2\left(C_1C_2R_1R_3 + C_1C_3R_3R_3\right) +$

10.533 INVALID-ORDER-533
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1R_2R_3s^3 + R_2R_3g_m + R_3 + s^2\left(C_1C_2R_1R_2R_3 + C_1L_1R_2R_3g_m + C_1L_1R_3\right) + s\left(C_1R_1R_2R_3g_m + C_1R_1R_3 + C_2R_2R_3\right)}{C_1C_2L_1R_2s^3 + R_2g_m + s^2\left(C_1C_2R_1R_2 + C_1C_2R_2R_3 + C_1L_1R_2g_m + C_1L_1\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_1R_3 + C_2R_2\right) + 1}$$

10.534 INVALID-ORDER-534
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

10.535 INVALID-ORDER-535
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1R_2R_3s^3 + R_2R_3g_m + R_3 + s^2\left(C_1C_2R_1R_2R_3 + C_1L_1R_2R_3g_m + C_1L_1R_3\right) + s\left(C_1R_1R_2R_3g_m + C_1R_1R_3 + C_2R_2R_3\right)}{C_1C_2C_3L_1R_2R_3s^4 + R_2g_m + s^3\left(C_1C_2R_1R_2 + C_1C_3L_1R_2 + C_1C_3L_1R_3\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_1C_3R_1R_3 + C_1C_3R_1R_3 + C_1L_1R_2g_m + C_1L_1 + C_2C_3R_2R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_1R_2 + C_1R_3 + C_1$$

10.536 INVALID-ORDER-536
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1R_2R_3s^4 + R_2g_m + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2L_1R_2 + C_1C_3L_1R_2R_3g_m + C_1C_3L_1R_2 + C_1C_3R_1R_2R_3g_m + C_1C_3R_1R_2 + C_1C_3R_1R_3 + C_1L_1R_2g_m + C_1L_1 + C_2C_3R_2R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2 + C_3R_2R_3g_m + C_3R_3\right) + s\left(C_1R_1R_2g_m + C_3R_3\right) + s\left($$

10.537 INVALID-ORDER-537
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1L_3R_2s^5 + R_2g_m + s^4\left(C_1C_2C_3L_3R_1R_2 + C_1C_3L_1L_3R_2g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_2L_1R_2 + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}{s^4\left(C_1C_2C_3L_1R_2 + C_1C_2C_3L_3R_2\right) + s^3\left(C_1C_2C_3R_1R_2 + C_1C_3L_1R_2g_m + C_1C_3L_3\right) + s^2\left(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}{s^4\left(C_1C_2C_3L_1R_2 + C_1C_3C_3L_3R_2\right) + s^3\left(C_1C_2C_3R_1R_2 + C_1C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_3L_3R_2g_m + C_3L_3\right) + s\left(C_1R_1R_2g_m + C_1R_1 + C_2R_2\right) + 1}{s^4\left(C_1C_2C_3L_1R_2 + C_1C_3L_3R_2\right) + s^3\left(C_1C_2C_3R_1R_2 + C_1C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_1C_3R_1R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2\right) + s^2\left(C_1C_2R_1R_2\right) + s^2\left(C_1C_2R_$$

10.538 INVALID-ORDER-538
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1L_3R_2s^4 + s^3\left(C_1C_2L_3R_1R_2 + C_1L_1L_3R_2g_m + C_1L_1L_3\right) + s^2\left(C_1L_3R_1R_2g_m + C_1L_3R_1 + C_2L_3R_2\right) + s\left(L_3R_2g_m + L_3\right)}{C_1C_2C_3L_1L_3R_2s^5 + R_2g_m + s^4\left(C_1C_2C_3L_3R_1R_2 + C_1C_3L_1L_3R_2g_m + C_1C_3L_1R_2 + C_1C_3L_3R_1R_2g_m + C_1C_3L_3R_1 + C_2C_3L_3R_2\right) + s^2\left(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_1L_3 + C_3L_3R_2g_m + C_3L_3\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3L_3R_2 + C_1C_3L_3R_3 + C_1C_3$$

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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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
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 $H(s) = \frac{C_1C_2C_3L_1L_3R_2s^5 + R_2g_m + s^4\left(C_1C_2C_3L_1R_2R_3 + C_1C_2C_3L_3R_1R_2 + C_1C_3L_1L_3R_2g_m + C_1C_3L_1R_2 +$

10.540 INVALID-ORDER-540 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2L_1L_3R_2R_3s^4 + s^3\left(C_1C_2L_3R_1R_2R_3 + C_1L_1L_3R_2R_3g_m + C_1L_1L_3R_2\right) + s^2\left(C_1L_3R_1R_2R_3g_m + C_1L_1L_3R_2\right) + s^2\left(C_1L_3R_1R_2R_3g_m + C_1L_2L_3R_2R_3s^5 + R_2R_3g_m + R_3 + s^4\left(C_1C_2C_3L_3R_1R_2R_3 + C_1C_3L_1L_3R_2\right) + s^3\left(C_1C_2L_1R_2R_3 + C_1C_2L_3R_1R_2 + C_1C_2L_3R_1R_2 + C_1C_3L_3R_1R_3 + C_1C_3L_3R_3R_3 + C_1C_3L_3R_3 + C_1C_3L_3R_3R_3 + C_1C_3L_3R_3R_3 + C_1C_3L_3R_3R_3 + C_1C_3$

10.541 INVALID-ORDER-541 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_3R_2R_3s^5 + R_2R_3g_m + R_3 + s^4\left(C_1C_2C_3L_3R_1R_2R_3 + C_1C_2L_1L_3R_2 + C_1C_3L_1L_3R_2R_3g_m + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_3 + C_1L_1L_3R_2g_m + C_1L_1L_3 + C_2C_3L_3R_2R_3 \right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1 + C_1C_3$

10.542 INVALID-ORDER-542 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_3R_2R_3s^5 + R_2R_3g_m + R_3 + s^4\left(C_1C_2C_3L_3R_1R_2R_3 + C_1C_3L_1L_3R_2\right) + s^3\left(C_1C_2L_1R_2R_3 + C_1C_3L_3R_1R_2R_3g_m + C_1C_3L_3R_1R_2R_3 + C_1C_3L_3R_1R_2R_3 + C_1C_3L_3R_3R_3 + C_1C_3L_3R_3R_3$

10.543 INVALID-ORDER-543 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_3 g_m + s^3 \left(C_1 C_2 L_1 R_2 R_3 g_m + C_1 C_2 L_1 R_3\right) + s^2 \left(C_1 C_2 R_1 R_2 R_3 g_m + C_1 C_2 R_1 R_3 + C_1 L_1 R_3 g_m\right) + s \left(C_1 R_1 R_3 g_m + C_2 R_2 R_3 g_m + C_2 R_3\right)}{q_m + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 C_2 R_2 + C_1 C_2 R_3 + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m + C_1 + C_2 R_2 g_m + C_2\right)}$

10.544 INVALID-ORDER-544 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{g_m + s^3 \left(C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1\right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 + C_1 L_1 g_m\right) + s \left(C_1 R_1 g_m + C_2 R_2 g_m + C_2\right)}{C_3 g_m s + s^4 \left(C_1 C_2 C_3 L_1 R_2 g_m + C_1 C_2 C_3 L_1\right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 g_m + C_1 C_2 C_3 R_1 + C_1 C_2 C_3 R_2 + C_1 C_3 L_1 g_m\right) + s^2 \left(C_1 C_2 + C_1 C_3 R_1 g_m + C_1 C_3 + C_2 C_3 R_2 g_m + C_2 C_3\right)}$

10.545 INVALID-ORDER-545 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_3g_m + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3\right) + s^2\left(C_1C_2R_1R_2R_3g_m + C_1L_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_2R_3g_m + C_2R_3\right)}{g_m + s^4\left(C_1C_2C_3L_1R_2R_3g_m + C_1C_2C_3L_1R_3\right) + s^3\left(C_1C_2C_3R_1R_2R_3g_m + C_1C_2C_3R_1R_3 + C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_3L_1R_3g_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_3 + C_1C_2R_3 + C_1C_3R_3 + C_1C_3$

10.546 INVALID-ORDER-546 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{g_m + s^4 \left(C_1 C_2 C_3 L_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_3 \right) + s^3 \left(C_1 C_2 C_3 R_1 R_2 R_3 g_m + C_1 C_2 L_1 R_2 g_m + C_1 C_2 L_1 + C_1 C_3 L_1 R_3 g_m \right) + s^2 \left(C_1 C_2 R_1 R_2 g_m + C_1 C_2 R_1 R_3 g_m + C_1 L_1 g_m + C_2 C_3 R_2 R_3 g_m + C_2 C_3 R_3 \right) + s \left(C_1 R_1 g_m + C_2 R_2 g_m + C_2 C_3 R_1 R_3 g_m + C_1 C_2 C_3 R_1 R_2 g_m + C_1 C_2 C_3 R_2 g_m + C_1 C_2 C_$

10.547 INVALID-ORDER-547 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

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10.548 INVALID-ORDER-548 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{L_3g_ms + s^4\left(C_1C_2L_1L_3R_2g_m + C_1C_2L_1L_3\right) + s^3\left(C_1C_2L_3R_1R_2g_m + C_1L_2L_3R_1 + C_1L_1L_3g_m\right) + s^2\left(C_1L_3R_1g_m + C_2L_3R_2g_m + C_2L_3\right)}{g_m + s^5\left(C_1C_2C_3L_1L_3R_2g_m + C_1C_2L_3L_1L_3\right) + s^4\left(C_1C_2C_3L_3R_1R_2g_m + C_1C_2L_3L_3R_2g_m + C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_2g_m + C_1C_3L_3R_2g_m + C_1C_3L_3R_3R_2g_m + C_1C_3L_3R_3R_2g_m + C_1C_3L_3R_3R_3g_m + C_1C_3L_3R_3g_m + C_1C_3L_3R_3g
10.549 INVALID-ORDER-549 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{g_m + s^5 \left(C_1 C_2 C_3 L_1 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_3\right) + s^4 \left(C_1 C_2 C_3 L_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_3 g_m + C_1 C_2 C_3 R_1 R_2 g
10.550 INVALID-ORDER-550 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      L_3R_3g_ms + s^4(C_1C_2L_1L_3R_2R_3g_m + C_1C_2L_1L_3R_3) + s^3(C_1C_2L_3R_1R_2R_3g_m)
10.551 INVALID-ORDER-551 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                            \frac{R_{3}g_{m}+s^{5}\left(C_{1}C_{2}C_{3}L_{1}L_{3}R_{2}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{3}R_{3}g_{m}+C_{1}C_{2}C_{3}L_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}L_{3}R_{1}R_{3}+C_{1}C_{2}L_{1}L_{3}R_{3}g_{m}+s^{3}\left(C_{1}C_{2}L_{1}R_{2}R_{3}g_{m}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{2}R_{3}g_{m}+C_{1}C_{2}C_{3}L_{1}R_{2}R_{3}g_{m}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}R_{3}+C_{1}C_
10.553 INVALID-ORDER-553 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty, \ \infty\right)
                                                                                                                                                                                                                    H(s) = \frac{C_1C_2L_1L_2R_3g_ms^4 + R_3g_m + s^3\left(C_1C_2L_1R_3 + C_1C_2L_2R_1R_3g_m\right) + s^2\left(C_1C_2R_1R_3 + C_1L_1R_3g_m + C_2L_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3\right)}{C_1C_2L_1L_2g_ms^4 + g_m + s^3\left(C_1C_2L_1 + C_1C_2L_2R_1g_m + C_1C_2L_2\right) + s^2\left(C_1C_2R_1 + C_1C_2R_3 + C_1L_1g_m + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_1 + C_2\right)}
10.554 INVALID-ORDER-554 Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)
                                                                                                                                                             H(s) = \frac{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}\right) + s^{2}\left(C_{1}C_{2}R_{1} + C_{1}L_{1}g_{m} + C_{2}L_{2}g_{m}\right) + s\left(C_{1}R_{1}g_{m} + C_{2}\right)}{C_{1}C_{2}C_{3}L_{1}L_{2}g_{m}s^{5} + C_{3}g_{m}s + s^{4}\left(C_{1}C_{2}C_{3}L_{1} + C_{1}C_{2}C_{3}L_{2}R_{1}g_{m} + C_{1}C_{2}C_{3}L_{2}\right) + s^{3}\left(C_{1}C_{2}C_{3}R_{1} + C_{1}C_{3}L_{1}g_{m} + C_{2}C_{3}L_{2}g_{m}\right) + s^{2}\left(C_{1}C_{2} + C_{1}C_{3}R_{1}g_{m} + C_{1}C_{3} + C_{2}C_{3}\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}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)
H(s) = \frac{C_1C_2L_1L_2R_3g_ms^4 + R_3g_m + s^3\left(C_1C_2L_1R_3 + C_1C_2L_2R_1R_3g_m\right) + s^2\left(C_1C_2R_1R_3 + C_1L_1R_3g_m + C_2L_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_1R_3g_m\right) + s\left(C_1R_1R_3g_m + C
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 $\mathbf{10.556} \quad \mathbf{INVALID\text{-}ORDER\text{-}556} \ Z(s) = \left(L_{1}s + R_{1} + \frac{1}{C_{1}s}, \ L_{2}s + \frac{1}{C_{2}s}, \ R_{3} + \frac{1}{C_{3}s}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2R_3g_ms^5 + g_m + s^4\left(C_1C_2C_3L_1R_3 + C_1C_2C_3L_2R_1R_3g_m + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2C_3R_1R_3 + C_1C_2L_1 + C_1C_2L_2R_1g_m + C_1C_3L_1R_3g_m + C_2C_3L_2R_3g_m\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1R_3g_m + C_1L_1g_m + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2C_3R_3 + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2C_3R_3 +$

10.560 INVALID-ORDER-560 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2L_1L_2L_3R_3g_ms^5 + L_3R_3g_ms + s^4\left(C_1C_2L_1L_3R_3 + C_1C_2L_2L_3R_1R_3g_m\right)}{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_3 + C_1C_2L_2L_3R_1R_3g_m\right) + s^4\left(C_1C_2C_3L_2L_3R_1R_3 + C_1C_2L_1L_2R_3g_m\right) + s^4\left(C_1C_2L_1L_3R_3g_m + C_1C_2L_1L_3R_3g_m + C_1C_2L_2L_3R_1g_m + C_1C_2L_2L_3R_1g_m\right) + s^4\left(C_1C_2C_3L_2L_3R_3g_m + C_1C_2L_2L_3R_3g_m + C_1C_2L_3L_3R_3g_m + C_1C$

10.561 INVALID-ORDER-561 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_3 + C_1C_2L_2L_3R_1g_m + C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_3R_3g_m + C_1C_2L_1L_3R_3g_m + C_1C_2L_1L_3R_3g_m + C_1C_2L_1L_3R_3g_m + C_1C_2L_1L_3R_3g_m + C_1C_2L_1R_3R_3g_m + C_1C_2L_1R_3g_m + C_1C_2L_$

10.562 INVALID-ORDER-562 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_3 + C_1C_2C_3L_2L_3R_1R_3g_m\right) + s^4\left(C_1C_2C_3L_3R_1R_3 + C_1C_2L_1L_2R_3g_m + C_1C_3L_1L_3R_3g_m + C_2C_3L_2L_3R_3g_m\right) + s^4\left(C_1C_2C_3L_1L_2L_3g_ms^6 + g_m + s^5\left(C_1C_2C_3L_1L_2R_3g_m + C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_2g_m + C_1C_3L_1L_3R_3g_m\right) + s^4\left(C_1C_2C_3L_1L_2R_3g_m + C_1C_2L_1L_2R_3g_m + C_1C_3L_1L_3R_3g_m + C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_2$

10.563 INVALID-ORDER-563 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ R_3, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2L_1L_2R_3g_ms^4 + R_3g_m + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3 + C_1C_2L_2R_1R_3g_m\right) + s^2\left(C_1C_2R_1R_2R_3g_m + C_1C_2R_1R_3 + C_1L_1R_3g_m + C_2L_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_2R_3g_m + C_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3g_m + C_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_2R_3g_m + C_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3g_m + C_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3g_m + C_2R_3g_m\right) + s\left(C_1R_1R_3g_m + C_2R_3g_m\right) + s\left(C_1R_1R$

10.564 INVALID-ORDER-564 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2L_1L_2g_ms^4 + g_m + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_2L_2R_1g_m\right) + s^2\left(C_1C_2R_1R_2g_m + C_1C_2R_1 + C_1L_1g_m + C_2L_2g_m\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2C_2g_m\right) + s\left(C_1R_1g_m + C_2R_2g_m + C_2C_2g_m\right) + s\left(C_1C_2C_3L_1L_2g_ms^5 + C_3g_ms + s^4\left(C_1C_2C_3L_1R_2g_m + C_1C_2C_3L_2R_1g_m + C_1C_2C_3R_1R_2g_m + C_1C_2C_3R_1 + C_1C_2C_3R$

10.565 INVALID-ORDER-565 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3}{C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2L_1L_2R_3g_ms^4 + R_3g_m + s^3\left(C_1C_2L_1R_2R_3g_m + C_1C_2L_1R_3 + C_1C_2L_2R_1R_3g_m\right) + s^2\left(C_1C_2R_1R_2R_3g_m + C_1C_2R_1R_3 + C_1L_2R_3g_m + C_1C_2R_1R_3g_m\right) + s^2\left(C_1C_2R_1R_2R_3g_m + C_1C_2R_1R_3g_m +$

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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}, \ R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)
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 $H(s) = \frac{C_1C_2C_3L_1L_2R_3g_ms^5 + g_m + s^4\left(C_1C_2C_3L_1R_2R_3g_m + C_1C_2C_3L_1R_3 + C_1C_2C_3L_1R_3g_m + C_1C_2L_1L_2g_m\right) + s^3\left(C_1C_2C_3R_1R_2R_3g_m + C_1C_2L_1R_2g_m + C_1C_2L_1R_2g_m + C_1C_2L_1R_2g_m + C_1C_2L_1R_3g_m + C_1C_2L_1R_3g_m + C_1C_2L_1R_2g_m + C_1C_2L_1R_2g$

10.567 INVALID-ORDER-567 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ L_3 s + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3g_ms^6 + g_m + s^5\left(C_1C_2C_3L_1L_3R_2g_m + C_1C_2C_3L_2L_3R_1g_m\right) + s^4\left(C_1C_2C_3L_3R_1R_2g_m + C_1C_2L_1L_2g_m + C_1C_3L_1L_3g_m + C_2C_3L_2L_3g_m\right) + s^3\left(C_1C_2L_1R_2g_m + C_1C_2L_1 + C_1C_2L_2R_1g_m + C_1C_3L_3R_1g_m + C_2C_3L_3R_1R_2g_m + C_1C_2C_3L_1R_2g_m + C_1C_2$

10.568 INVALID-ORDER-568 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2L_1L_2L_3g_ms^5 + L_3g_ms + s^4\left(C_1C_2L_1L_3R_2g_m + C_1C_2L_2L_3R_1g_m\right) + s^3\left(C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_2$

10.569 INVALID-ORDER-569 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ L_3 s + R_3 + \frac{1}{C_3 s}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3g_ms^6 + g_m + s^5\left(C_1C_2C_3L_1L_2R_3g_m + C_1C_2C_3L_1L_3R_2g_m + C_1C_2C_3L_1R_3g_m + C_1C_2C_3L_2R_1R_3g_m + C_1C_2C_3L_3R_1R_2g_m + C_1C_2C_3L_3R_1R_2g_m + C_1C_2C_3L_3R_1R_2g_m + C_1C_2C_3L_3R_1R_2g_m + C_1C_2C_3L_1R_2g_m + C_$

10.570 INVALID-ORDER-570 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{1}{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_2R_3g_m + C_1C_2C_3L_2L_3R_1R_3g_m + C_1C_2C_3L_2L_3R_3 + C_1C_2L_1L_2L_3g_m\right) + s^4\left(C_1C_2C_3L_3R_1R_2R_3g_m + C_1C_2C_3L_3R_1R_3 + C_1C_2C_3L_3R_3 + C_1C_2C_3L_3R_3$

10.571 INVALID-ORDER-571 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_3g_ms^6 + R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_2R_3g_m + C_1C_2C_3L_2L_3R_1R_3g_m + C_1C_2C_3L_2L_3R_1R_3g_m + C_1C_2C_3L_3R_1R_3g_m + C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_3R_2g_m + C_1C_2L_1L_3R_2g_$

10.572 INVALID-ORDER-572 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \ L_2 s + R_2 + \frac{1}{C_2 s}, \ \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \ \infty, \ \infty, \ \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3r_3g_ms + r_0r_3g_m + s_1C_1C_2C_3L_1L_3r_0g_m + s_1C_1C_2C_3L_1L_3r_0g_m + s_1C_1C_2C_3L_1L_3r_0g_m + s_1C_1C_2C_3L_1L_3r_0g_m + s_1C_1C_2C_3L_1L_3r_0g_m + s_1C_1C_2C_3L_1R_3r_0g_m + s_1C_1C_2C_3L_1R_3r_0g_m$

10.573 INVALID-ORDER-573 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^4 \left(C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_2 R_1 R_3 g_m + C_1 L_2 R_3 g_m + C_1 L_2 R_3 g_m + C_1 L_1 R_3 g_m + C_1 L_2 R_3 g_m + C_1 L_2 R_3 g_m + C_2 L_2 R_3 g_m + C_2 L_2 R_3 g_m + C_2 L_2 R_3 g_m + C_1 R_1 R_3 g_m + C_2 L_2 R_3 g_m + C_1 R_1 R_3 g_m + C_2 L_2 R_3 g_m + C_1 R_1 R_3 g_m + C_2 R_2 R_3 g_m$

10.574 INVALID-ORDER-574 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

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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, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
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 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^4 \left(C_1 C_2 L_1 L_2 R_2 R_3 g_m + C_1 C_2 L_1 L_2 R_3\right) + s^3 \left(C_1 C_2 L_2 R_1 R_2 R_3 g_m + C_1 C_2 L_2 R_1 R_3 g_m + C_1 C_2 L_2 R_1 R_2 R_3 g_m + C_1$

10.576 INVALID-ORDER-576 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty\right)$

10.577 INVALID-ORDER-577 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

10.578 INVALID-ORDER-578 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{s^5 \left(C_1 C_2 L_1 L_2 L_3 R_2 g_m + C_1 C_2 L_1 L_2 L_3 \right) + s^4 \left(C_1 C_2 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_2 L_3 R_1 + C_1 L_1 L_2 L_3 g_m \right)}{R_2 g_m + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 + C_1 C_2 C_3 L_2 L_3 R_1 + C_1 C_2 C_3 L_2 L_3 R_1 + C_1 C_2 C_3 L_2 L_3 R_2 + C_1 C_2 L_1 L_2 R_2 g_m + C_1 C_2 L_2 L_3 R_1 R_2 g_m + C_1 C_2$

10.579 INVALID-ORDER-579 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty\right)$

 $H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3\right) + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_2 L_2 R_1 R_3 + C_1 C_2 C_3 L_2 L_2 R_1 R_3 + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_2 R_3 g_m + C_1 C_2 C_3 L_2 L_3 R_3 R_3 g_m + C_1 C_2 C_3 L_2 L_3 R_3 g_m + C_1$

10.580 INVALID-ORDER-580 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

 $H(s) = \frac{1}{R_2 R_3 g_m + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_3 \right) + s^5 \left(C_1 C_2 C_3 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 L_2 L_3 R_1 R_3 + C_1 C_2 L_1 L_2 L_3 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_3 g_m \right) + s^4 \left(C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m \right) + s^4 \left(C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_2 R_3 g_m + C_1 C_2 L_2 R_3 g_m + C$

10.581 INVALID-ORDER-581 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_1 L_2 L_3 R_3 g_m + C_1 C_2 L_1 L_2 L_3 R_3 g_m + C_1 C_2 L_1 L_2 L_3 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L$

10.582 INVALID-ORDER-582 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $R_{2}R_{3}g_{m}+R_{3}+s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{2}R_{3}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3}\right)+s^{5}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3$

 $H(s) = \frac{R_2R_3g_m + R_3 + s \cdot (C_1C_2C_3L_1L_2L_3R_2g_m + C_1C_2C_3L_1L_2L_3R_3g_m + C_1C_2C_3L_1L_2L_3R_3g_m + C_1C_2C_3L_1L_2L_3R_3g_m + C_1C_2C_3L_1L_2L_3R_3g_m + C_1C_2C_3L_1L_2R_3g_m + C_1C_2C_3L_2L_3R_1 + C_1C_2C_3L_2L_3R_1 + C_1C_2C_3L_2L_3R_2 + C_1C_2C_3L_2L_3R_2 + C_1C_2C_3L_2L_3R_3 + C_1C_$

10.583 INVALID-ORDER-583 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3, \infty, \infty\right)$

 $H(s) = \frac{R_2 R_3 g_m + R_3 + s^4 \left(C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 C_2 L_1 R_2 R_3 g_m + C_1 C_2 L_2 R_1 R_2 R_3 g_m + C_1 C_2 L_2 R_1 R_3 g_m + C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_3 + C_2 L_2 R_3 g_m + C_2 L_2 R_3 \right) + s \left(C_1 R_1 R_2 R_3 g_m + C_1 R_1 R_3 + C_2 L_2 R_3 g_m + C_1 L_1 R_2 R_3 g_m + C_1 L_1$

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10.584 INVALID-ORDER-584 Z(s) = \left(L_1s + R_1 + \frac{1}{C_1s}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2s+1}, \frac{1}{C_3s}, \infty, \infty, \infty\right)
II(s) = \frac{R_2g_m + s^4(C_1C_2L_1L_2R_2g_m + C_1C_2L_1L_2) + s^3(C_1C_2L_1R_2 + C_1C_2L_2R_1R_2g_m + C_1C_2L_2R_1) + s^2(C_1C_2R_1R_2 + C_1L_1R_2g_m + C_1L_1 + C_2L_2R_2g_m + C_2L_2) + s(C_1R_1R_2g_m + C_1R_1 + C_2R_2) + 1}{s^5(C_1C_2C_3L_1L_2R_2g_m + C_1C_2C_3L_1R_2 + C_1C_2C_3L_2R_1R_2g_m + C_1C_2C_3L_2R_2) + s^3(C_1C_2C_3R_1R_2 + C_1C_2L_2R_1R_2g_m + C_1C_2L_2R_1R_2g_m + C_1C_2L_2R_2R_2g_m + C_2C_3L_2) + s^2(C_1C_2R_1R_2 + C_1C_2L_2R_1R_2g_m + C_1C_2L_2R_2R_2g_m + C_2C_3L_2) + s^2(C_1C_2R_1R_2g_m + C_1C_2L_2R_2R_2g_m + C_2C_3L_2) + s^2(C_1C_2R_2R_2R_2g_m + C_2C_3L_2R_2) + s^2(C_1C_2R_2R_2R_2g_m + C_1C_2R_2R_2g_m + C_2C_3R_2R_2g_m + C_2C_3R_2R_2g_m + C_1C_3R_1R_2g_m + C_1C_2R_1R_2g_m + C_
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$$\begin{aligned} \mathbf{10.587} \quad \mathbf{INVALID\text{-}ORDER\text{-}587} \ Z(s) &= \left(L_{1}s + R_{1} + \frac{1}{C_{1}s}, \ \frac{R_{2}\left(C_{2}L_{2}s^{2} + 1 \right)}{C_{2}L_{2}s^{2} + C_{2}R_{2}s + 1}, \ L_{3}s + \frac{1}{C_{3}s}, \ \infty, \ \infty, \ \infty \right) \\ H(s) &= \frac{R_{2}g_{m} + s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{2}g_{m} + C_{1}C_{2}C_{3}L_{1}L_{3}R_{2} + C_{1}C_{2}C_{3}L_{2}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}C_{3}L_{2}L_{3}R_{1}R_{2} + C_{1}C_{2}C_{3}L_{2}L_{3}R_{1}R_{2} + C_{1}C_{2}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}R_{2}g_{m} + C_{1}C_{2}C_{3}L_{2}L_{3}R_{2}g_{m} + C_{1}C_{2}C_{3}L_{2}L_{3}R_{2}g_{m} + C_{2}C_{3}L_{2}L_{3}R_{2}g_{m} + C_{2}C_{3}L_{2}L_{3}R_$$

10.588 INVALID-ORDER-588
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

10.589 INVALID-ORDER-589
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 g_m + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3\right) + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m +$$

10.590 INVALID-ORDER-590
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

10.591 INVALID-ORDER-591
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_2 g_m + C_1 C_2 L_1 L_2 R_3 g_m + C_1 L_2 L$$

10.592 INVALID-ORDER-592
$$Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s}, \frac{R_2(C_2 L_2 s^2 + 1)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{R_3(C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_2 R_3 g_m + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_3 \right) + s^5 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 C_3 L_$$

10.505 INVALID-ORDER-593
$$Z(s) = \left(\frac{1.91}{(COLD)^{2} + colored}, R_{S} \cdot \frac{1.91}{Colored}, \infty, \infty, \infty\right)$$

$$R(s) = \frac{(4.5)^{2} R_{S}^{2} R_{S}^{2} + R_{S}^{2} + C_{S}^{2} L_{S}^{2} R_{S}^{2} R_{S}^{2} + R_{S}^{2} + C_{S}^{2} L_{S}^{2} R_{S}^{2} R_{S}^{2} + C_{S}^{2} R_{S}^{2} R_{S}^{2} R_{S}^{2} + C_{S}^{2} R_{S}^{2} R_{S}^{2} R_{S}^{2} + C_{S}^{2} R_{S}^{2} R_{S}^{2} R_{S}^{2} +$$

 $H(s) = \frac{C_2 L_1 R_1 R_3 s^2 + L_1 R_1 R_3 g_m s}{C_1 C_2 L_1 R_1 R_3 s^3 + R_1 + s^2 \left(C_1 L_1 R_1 + C_2 L_1 R_1 + C_2 L_1 R_3 \right) + s \left(C_2 R_1 R_3 + L_1 R_1 g_m + L_1 \right)}$

10.602 INVALID-ORDER-602 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

10.603 INVALID-ORDER-603 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2L_1R_1R_3s^2 + L_1R_1R_3g_ms}{R_1 + s^3\left(C_1C_2L_1R_1R_3 + C_1C_3L_1R_1R_3 + C_2C_3L_1R_1R_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_1R_3 + C_3L_1R_1R_3g_m + C_3L_1R_3\right) + s\left(C_2R_1R_3 + C_3R_1R_3 + L_1R_1g_m + L_1\right)}$ **10.604** INVALID-ORDER-604 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_1R_1R_3s^2 + L_1R_1g_m + s\left(C_2L_1R_1 + C_3L_1R_1g_m\right)}{C_1C_2C_3L_1R_1R_2s^3 + C_2R_1 + C_3R_1 + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_1R_3\right) + s\left(C_2C_3R_1R_3 + C_2L_1 + C_3L_1R_1g_m + C_3L_1\right)}$ 10.605 INVALID-ORDER-605 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_1L_3R_1s^3 + C_2L_1R_1s + C_3L_1L_3R_1g_ms^2 + L_1R_1g_m}{C_1C_2C_3L_1L_3R_1s^4 + C_2C_3L_1L_3s^3 + C_2R_1 + C_3R_1 + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_3R_1\right) + s\left(C_2L_1 + C_3L_1R_1g_m + C_3L_1\right)}$ **10.606** INVALID-ORDER-606 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2L_1L_3R_1s^3 + L_1L_3R_1g_ms^2}{R_1 + s^4\left(C_1C_2L_1L_3R_1 + C_1C_3L_1L_3R_1 + C_2C_3L_1L_3R_1\right) + s^3\left(C_2L_1L_3 + C_3L_1L_3R_1q_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_3R_1 + C_3L_3R_1\right) + s\left(L_1R_1q_m + L_1\right)}$ **10.607** INVALID-ORDER-607 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_1L_3R_1s^3 + L_1R_1g_m + s^2\left(C_2C_3L_1R_1R_3 + C_3L_1L_3R_1g_m\right) + s\left(C_2L_1R_1 + C_3L_1R_1R_3g_m\right)}{C_1C_2C_3L_1L_3R_1s^4 + C_2R_1 + c_3R_1 + s^3\left(C_1C_2C_3L_1R_1R_3 + C_2C_3L_1R_1\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_1R_3 + C_2C_3L_3R_1\right) + s\left(C_2C_3R_1R_3 + C_2L_1 + C_3L_1R_1g_m + C_3L_1\right)}$ **10.608** INVALID-ORDER-608 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2L_1L_3R_1R_3s^3 + L_1L_3R_1R_3g_ms^2}{R_1R_3 + s^4\left(C_1C_2L_1L_3R_1R_3 + C_1C_3L_1L_3R_1R_3 + C_2C_3L_1L_3R_1R_3 + C_2L_1L_3R_1 + C_2L_1L_3R_1 + C_2L_1L_3R_3 + C_3L_1L_3R_1R_3g_m + C_3L_1L_3R_1 + C_2L_1L_3R_1 + C_2L_1$ **10.609** INVALID-ORDER-609 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$ $\frac{C_{2}C_{3}L_{1}L_{3}R_{1}R_{3}s^{4}+L_{1}R_{1}R_{3}g_{m}s+s^{3}\left(C_{2}L_{1}L_{3}R_{1}+C_{3}L_{1}L_{3}R_{1}g_{m}\right)+s^{2}\left(C_{2}L_{1}R_{1}R_{3}+L_{1}L_{3}R_{1}g_{m}\right)}{C_{1}C_{2}C_{3}L_{1}L_{3}R_{1}+C_{3}L_{1}L_{3}R_{1}+C_{3}L_{1}$ 10.610 INVALID-ORDER-610 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$ $H(s) = \frac{C_2C_3L_1L_3R_1R_3s^4 + C_2L_1R_1R_3s^2 + C_3L_1L_3R_1R_3g_ms^3 + L_1R_1R_3g_ms}{C_1C_2C_3L_1L_3R_1R_3s^5 + R_1 + s^4\left(C_1C_3L_1L_3R_1 + C_2C_3L_1L_3R_1 + C_2C_3L_1L_3R_3\right) + s^3\left(C_1C_2L_1R_1R_3 + C_2C_3L_1R_1R_3 + C_2C_3L_1R_1R_3 + C_3L_1L_3R_1g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_1R_3 + C_3L_1R_1R_3g_m + C_3L_1R_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_1R_1 + C_2L_1R_1 + C_3L_1R_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_3L_1R_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_3L_1R_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_3 + C_3L_1R_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_3 + C_3L_1R_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_3\right) +$ **10.611** INVALID-ORDER-611 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_2L_1R_1R_2R_3s^2 + s\left(L_1R_1R_2R_3g_m + L_1R_1R_3\right)}{C_1C_2L_1R_1R_2R_3s^3 + R_1R_2 + R_1R_3 + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_3 + C_2L_1R_1R_2 + C_2L_1R_2R_3\right) + s\left(C_2R_1R_2R_3 + L_1R_1R_2q_m + L_1R_1 + L_1R_2 + L_1R_3\right)}$

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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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                          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_3L_1R_1R_2 + C_2C_3L_1R_1R_2\right) + s^2\left(C_1L_1R_1 + C_2L_1R_2 + C_3L_1R_1R_2g_m + C_3L_1R_1 + C_3L_1R_2\right) + s\left(C_2R_1R_2 + C_3R_1R_2 + L_1\right)}
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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_1R_1R_2R_3s^2 + s\left(L_1R_1R_2R_3g_m + L_1R_1R_3\right)}{R_1R_2 + R_1R_3 + s^3\left(C_1C_2L_1R_1R_2R_3 + C_1C_3L_1R_1R_2R_3 + C_2C_3L_1R_1R_2R_3\right) + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_2 + C_2L_1R_1R_2 + C_3L_1R_1R_2 + C_3L_1R_1R_3 + C_3L_1R_1R_3 + C_3L_1R_1R_3 + C_3L_1R_1R_2R_3 + 
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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
          H(s) = \frac{C_2C_3L_1R_1R_2R_3s^3 + s^2\left(C_2L_1R_1R_2 + C_3L_1R_1R_2R_3g_m + C_3L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_3L_1R_1R_2R_3s^4 + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_2C_3L_1R_1R_2 + C_2C_3L_1R_1R_2 + C_2C_3L_1R_1R_2 + C_3L_1R_1R_2 + C_3L_1R_1R_2 + C_3L_1R_1R_2 + C_3L_1R_1R_2 + C_3L_1R_1 + C_3L_1R_
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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
 H(s) = \frac{C_2C_3L_1L_3R_1R_2s^4 + C_2L_1R_1R_2s^2 + s^3\left(C_3L_1L_3R_1R_2g_m + C_3L_1L_3R_1\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_3L_1L_3R_1R_2s^5 + R_1 + s^4\left(C_1C_3L_1L_3R_1 + C_2C_3L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_2C_3L_1R_1R_2 + C_2C_3L_3R_1R_2 + C_3L_1L_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_2 + C_3L_1R_1R_2g_m + C_3L_1R_1 + C_3L_
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_1L_3R_1R_2s^3 + s^2\left(L_1L_3R_1R_2g_m + L_1L_3R_1\right)}{R_1R_2 + s^4\left(C_1C_2L_1L_3R_1R_2 + C_1C_3L_1L_3R_1R_2 + C_2C_3L_1L_3R_1R_2\right) + s^3\left(C_1L_1L_3R_1 + C_2L_1L_3R_1 + C_3L_1L_3R_1 + C_3L
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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_3R_1R_2s^4 + s^3\left(C_2C_3L_1R_1R_2R_3 + C_3L_1L_3R_1\right) + s^2\left(C_2L_1R_1R_2 + C_3L_1R_1R_2R_3g_m + C_3L_1R_1R_3\right) + s\left(L_1R_1R_2g_m + L_1R_1\right)}{C_1C_2C_3L_1L_3R_1R_2s^5 + R_1 + s^4\left(C_1C_2C_3L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_2C_3L_1R_1R_2 + C_2C_
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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_2L_1L_3R_1R_2R_3s^3 + s^2(L_1L_3R_1R_2R_3g_m + L_1L_3R_1R_3)
                                             \frac{C_2L_1L_3R_1R_2R_3s + s \cdot (L_1L_3R_1R_2R_3s + L_1L_3R_1R_2R_3)}{R_1R_2R_3 + s^4 \cdot (C_1C_2L_1L_3R_1R_2R_3 + C_2C_3L_1L_3R_1R_2R_3 + C_2L_1L_3R_1R_2 + C_2
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_3R_1R_2R_3s^4 + s^3\left(C_2L_1L_3R_1R_2 + C_3L_1L_3R_1R_2 + C_3L_1L_3R_1R_2 + S_4\left(C_2L_1R_1R_2R_3 + L_1L_3R_1R_2 + S_4\left(C_2L_1R_1R_2R_3 + L_1L_3R_1R_2 + C_2C_3L_1L_3R_1R_2 + C_2C
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 $H(s) = \frac{C_2C_3L_1L_3R_1R_2R_3s^2 + C_2L_1R_1R_2R_3s^2 + s^3\left(C_3L_1L_3R_1R_2R_3s_2 + s^3\left(C_3L_1L_3R_1R_2R_3s_2 + s^3\left(C_3L_1L_3R_1R_2R_3s_2 + s^3\left(C_3L_1L_3R_1R_2R_3s_2 + s^3\left(C_3L_1L_3R_1R_2R_3s_2 + s^3\left(C_3L_1L_3R_1R_2R_3s_2 + s^3\left(C_3L_1L_3R_1R_2R_3 + c_3L_1L_3R_1R_2R_3 + c_3L_1L_3R_1R_3R_3 + c_3L_1L_3R_1R_3 +$

10.620 INVALID-ORDER-620 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{R_2}{C_2 R_2 s + 1}, \frac{R_3 (C_3 L_3 s^2 + 1)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

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H(s) = \frac{L_1 R_1 R_3 g_m s + s^2 \left(C_2 L_1 R_1 R_2 R_3 g_m + C_2 L_1 R_1 R_3\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_3\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_3\right) + s \left(C_2 R_1 R_2 + C_2 R_1 R_3 + L_1 R_1 g_m + L_1\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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                               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_3 L_1 R_1 R_2 s^3 + C_2 R_1 + C_3 R_1 + s^2 \left(C_1 C_2 L_1 R_1 + C_1 C_3 L_1 R_1 + C_2 C_3 L_1 R_1 R_2 g_m + C_2 C_3 L_1 R_2\right) + s \left(C_2 C_3 R_1 R_2 + C_2 L_1 + C_3 L_1 R_1 g_m + C_3 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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{L_1 R_1 R_3 g_m s + s^2 \left(C_2 L_1 R_1 R_2 R_3 g_m + C_2 L_1 R_1 R_3\right)}{C_1 C_2 C_3 L_1 R_1 R_2 R_3 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_3 + C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_2 C_3 L_1 R_1 R_3 + C_2 C_3 L_1 R_1 R_3 + C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_2 L_1 R_1 R_2 R_3 g_m + C_2 L_1 R_1 R_2 g_m + C_2 L_1 
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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                         H(s) = \frac{L_1R_1g_m + s^2\left(C_2C_3L_1R_1R_2R_3g_m + C_2C_3L_1R_1R_3\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1 + C_3L_1R_1R_3g_m\right)}{C_2R_1 + C_3R_1 + s^3\left(C_1C_2C_3L_1R_1R_2 + C_1C_2C_3L_1R_1R_3\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_1R_1\right) + s\left(C_2C_3R_1R_2 + C_2C_3R_1R_2 + C_2C_3R_1R_3 + C_2L_1 + C_3L_1R_1g_m + C_3L_1\right)}
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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                      H(s) = \frac{C_3L_1L_3R_1g_ms^2 + L_1R_1g_m + s^3\left(C_2C_3L_1L_3R_1R_2g_m + C_2C_3L_1L_3R_1\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1\right)}{C_1C_2C_3L_1L_3R_1s^4 + C_2R_1 + c_3R_1 + s^3\left(C_1C_2C_3L_1R_1R_2 + C_2C_3L_1L_3\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1R_2g_m + C_2C_3L_1R_1 + C_2C_3L_
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{L_1 L_3 R_1 g_m s^2 + s^3 \left(C_2 L_1 L_3 R_1 R_2 g_m + C_2 L_1 L_3 R_1\right)}{C_1 C_2 C_3 L_1 L_3 R_1 R_2 s^5 + R_1 + s^4 \left(C_1 C_2 L_1 L_3 R_1 + C_2 C_3 L_1 L_3 R_1 + C_2 C_3 L_1 L_3 R_1 + C_2 C_3 L_1 L_3 R_1\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 + C_2 C_3 L_1 L_3 R_1 R_2 + C_2 L_1 L_3 + C_3 L_1 L_3 R_1 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 + C_2 L_1 R_1 R_2 g_m + C_2 L_1 R_1 + C_2 L_1 R_1 R_2 + C_2 L_1 
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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{L_1R_1g_m + s^3\left(C_2C_3L_1L_3R_1R_2g_m + C_2C_3L_1L_3R_1\right) + s^2\left(C_2C_3L_1R_1R_2R_3g_m + C_2C_3L_1R_1R_3 + C_3L_1L_3R_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1 + C_3L_1R_1R_2g_m + C_2L_1R_1 + C_3L_1R_1R_2g_m\right)}{C_1C_2C_3L_1L_3R_1s^4 + C_2R_1 + C_3R_1 + s^3\left(C_1C_2C_3L_1R_1R_2 + C_2C_3L_1R_1 + C_
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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                H(s) = \frac{\sum_{1 L_{3} L_{1} L_{3} R_{1}} \sum_{1 L_{3} R_{1} R_{2} R_{3} S^{5} + R_{1} R_{3} + S^{4} \left(C_{1} C_{2} L_{1} L_{3} R_{1} R_{2} + C_{1} C_{2} L_{1} L_{3} R_{1} R_{3} + C_{2} C_{3} L_{1} L_{3} R_{1} R_{3} + C_{2} C_{3} L_{1} L_{3} R_{1} R_{2} R_{3} + C_{2} L_{1} L_{3} R_{1} R_{2} R_{3} + C_
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \frac{c_3c_1c_3c_1c_3c_3c_1c_3c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_3c_1c_2c_3c_1c_3c_1c_2c_3c_1c_3c_1c_3c_1c_2c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_1c_3c_
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10.621 INVALID-ORDER-621 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

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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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                          H(s) = \frac{C_2L_1L_2R_1R_3g_ms^3 + C_2L_1R_1R_3s^2 + L_1R_1R_3g_ms}{C_1C_2L_1L_2R_1s^4 + R_1 + s^3\left(C_1C_2L_1R_1R_3 + 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_3 + C_2L_2R_1\right) + s\left(C_2R_1R_3 + L_1R_1g_m + L_1\right)}
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}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                         H(s) = \frac{C_2L_1L_2R_1g_ms^2 + C_2L_1R_1s + L_1R_1g_m}{C_1C_2C_3L_1L_2R_1s^4 + C_2R_1 + C_3R_1 + s^3\left(C_2C_3L_1L_2R_1g_m + C_2C_3L_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_2R_1\right) + s\left(C_2L_1 + C_3L_1R_1g_m + C_3L_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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_1L_2R_1R_3g_ms^3 + C_2L_1R_1R_3s^2 + L_1R_1R_3g_ms}{C_1C_2C_3L_1L_2R_1R_3s^5 + R_1 + s^4\left(C_1C_2L_1L_2R_1 + C_2C_3L_1L_2R_1R_3g_m + C_2C_3L_1R_1R_3 + C_2C_3L_1R_1R_3 + C_2C_3L_2R_1R_3 + C_2L_1L_2R_1g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_1 + C_2L_1R_3 + C_2L_2R_1 + C_3L_1R_1R_3g_m + C_3L_1R_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_3 + C_2C_3L_1R_1R_3 + 
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}, R_3 + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
                                                                                       H(s) = \frac{C_2C_3L_1L_2R_1R_3g_ms^3 + L_1R_1g_m + s^2\left(C_2C_3L_1R_1R_3 + C_2L_1L_2R_1g_m\right) + s\left(C_2L_1R_1 + C_3L_1R_1R_3g_m\right)}{C_1C_2C_3L_1L_2R_1s^4 + C_2R_1 + c_3R_1 + s^3\left(C_1C_2C_3L_1R_1R_3 + C_2C_3L_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_2R_1\right) + s\left(C_2C_3R_1R_3 + C_2L_1 + C_3L_1R_1g_m + C_3L_1\right)}
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}, L_3 s + \frac{1}{C_2 s}, \infty, \infty, \infty\right)
                                                                                   H(s) = \frac{C_2C_3L_1L_2L_3R_1g_ms^4 + C_2C_3L_1L_3R_1s^3 + C_2L_1R_1s + L_1R_1g_m + s^2\left(C_2L_1L_2R_1g_m + C_3L_1L_3R_1g_m\right)}{C_2R_1 + C_3R_1 + s^4\left(C_1C_2C_3L_1L_2R_1 + C_1C_2C_3L_1L_3R_1\right) + s^3\left(C_2C_3L_1L_2R_1g_m + C_2C_3L_1L_3\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_2R_1 + C_2C_3L_3R_1\right) + s\left(C_2L_1 + C_3L_1R_1g_m + C_3L_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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_1L_2L_3R_1g_ms^4 + C_2L_1L_3R_1s^3 + L_1L_3R_1g_ms^2}{C_1C_2C_3L_1L_2L_3R_1s^6 + R_1 + s^5\left(C_2C_3L_1L_2L_3R_1g_m + C_2C_3L_1L_2R_1 + C_1C_2L_1L_3R_1 + C_1C_3L_1L_3R_1 + C_2C_3L_2L_3R_1\right) + s^3\left(C_2L_1L_2R_1g_m + C_2L_1L_3 + C_3L_1L_3R_1g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1 + C_2L_1R_1 + C_2L_1R_1\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1\right) + s^2\left(C_1
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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_2L_3R_1g_ms^4 + L_1R_1g_m + s^3\left(C_2C_3L_1L_2R_1R_3g_m + C_2C_3L_1L_3R_1\right) + s^2\left(C_2C_3L_1R_1R_3 + C_2L_1L_2R_1g_m + C_3L_1L_3R_1g_m\right) + s\left(C_2L_1R_1 + C_3L_1R_1R_3g_m\right)}{C_2R_1 + C_3R_1 + s^4\left(C_1C_2C_3L_1L_2R_1 + C_1C_2C_3L_1L_3R_1\right) + s^3\left(C_1C_2C_3L_1R_1R_3 + C_2C_3L_1L_3\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_3 + C_2C_3L_2R_1 + C_2C_3L_3R_1\right) + s\left(C_2C_3R_1R_3 + C_2L_1R_1 + C_3L_1R_1R_3\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2
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}, \frac{L_3 R_3 s}{C_2 L_2 R_2 s^2 + L_2 s + R_2}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_2L_1L_2L_3R_1R_3g_ms^4 + C_2L_1L_3R_1R_3s^3 + L_1L_3
H(s) = \frac{C_2 L_1 L_2 L_3 R_1 R_3 s^6 + R_1 R_3 + s^5 \left(C_1 C_2 L_1 L_2 L_3 R_1 + C_2 C_3 L_1 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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_2L_3R_1R_3g_ms^5 + L_1R_1R_3g_ms + s^4\left(C_2C_3L_1L_2R_1R_3g_m + S^4\left(C_2C_3L_1L_2R_1R_3g_m + C_2L_1L_3R_1 + C_3L_1L_3R_1R_3 + C_2L_1L_3R_1R_3 + C_2L_1L_3R_1R_3 + C_2L_1L_3R_1 + C_3L_1L_3R_1 + C_
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 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1s^6 + R_1 + s^5\left(C_1C_2C_3L_1L_2R_1R_3 + C_1C_2C_3L_1L_2R_1R_3 + C_2C_3L_1L_2R_1R_3 + C_2C_3L_2R_1R_3 + C_2C_3L_2R_1R_3 + C_$

 $C_2C_3L_1L_2L_3R_1R_3g_ms^5 + C_2C_3L_1L_3R_1R_3s^4 + C_2L_1R_1R_3s^2 + L_1$

10.640 INVALID-ORDER-640 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

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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_3L_1L_2R_1s^4 + C_2R_1 + C_3R_1 + s^3\left(C_1C_2C_3L_1R_1R_2 + C_2C_3L_1L_2R_1g_m + C_2C_3L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C_2L_1L_2R_1R_3g_ms^3 + L_1R_1R_3g_ms + s^2(C_2L_1R_1R_2R_3g_m + C_2L_1R_1R_3)
H(s) = \frac{C_2L_1L_2R_1R_3g_ms^5 + L_1R_1R_3g_ms + s^2\left(C_2L_1R_1R_2R_3g_m + C_2L_1R_1R_3\right)}{C_1C_2C_3L_1L_2R_1R_3s^5 + R_1 + s^4\left(C_1C_2C_3L_1R_1R_2R_3 + C_1C_2L_1L_2R_1 + C_2C_3L_1L_2R_1\right) + s^3\left(C_1C_2L_1R_1R_3 + C_1C_3L_1R_1R_3 + C_2C_3L_1R_1R_3 + C_2C_3L_1R_1
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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_2R_1R_3g_ms^3 + L_1R_1g_m + s^2\left(C_2C_3L_1R_1R_2R_3g_m + C_2C_3L_1R_1R_3 + C_2L_1L_2R_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1 + C_3L_1R_1R_3g_m\right)}{C_1C_2C_3L_1L_2R_1s^4 + C_2R_1 + c_3R_1 + s^3\left(C_1C_2C_3L_1R_1R_2 + C_1C_2C_3L_1R_1R_3 + C_2C_3L_1L_2\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_1R_3 + C_2C_3L_1R_
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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_2L_3R_1g_ms^4 + L_1R_1g_m + s^3\left(C_2C_3L_1L_3R_1R_2g_m + C_2C_3L_1L_3R_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1\right)}{C_2R_1 + C_3R_1 + s^4\left(C_1C_2C_3L_1L_2R_1 + C_1C_2C_3L_1L_3R_1\right) + s^3\left(C_1C_2C_3L_1R_1R_2 + C_2C_3L_1L_3\right) + s^2\left(C_1C_2L_1R_1 + C_1C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_1R
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_{2}L_{1}L_{2}L_{3}R_{1}g_{m}s^{4}+L_{1}L_{3}R_{1}g_{m}s^{2}+s^{3}\left(C_{2}L_{1}L_{3}R_{1}R_{2}g_{m}+C_{2}L_{1}L_{3}R_{1}\right)
H(s) = \frac{C_2 L_1 L_2 L_3 I \iota_1 g_m s + L_1 L_3 I \iota_1 g_m s + L_2 L_3 I \iota_1 g_m s + L_3 L_4 g_m + C_2 L_4 L_3 I \iota_1 g_m s + L_4 L_3 I \iota_1 g_m s + L_4 L_3 I \iota_1 g_m s + L_4 L_4 L_4 I \iota_1 g_m + L_4 L_4 I \iota_2 g_m + L_4 L_4 I \iota_3 g_m + L_4 L_4 I \iota_4 g_m + L_4 L_4 I \iota_4
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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_2L_3R_1g_ms^4 + L_1R_1g_m + s^3\left(C_2C_3L_1L_2R_1R_3g_m + C_2C_3L_1L_3R_1\right) + s^2\left(C_2C_3L_1R_1R_2R_3g_m + C_2C_3L_1R_1R_3 + C_2L_1L_2R_1g_m + C_3L_1L_3R_1g_m\right) + s\left(C_2L_1R_1R_2g_m + C_2L_1R_1 + C_3L_1R_1R_2R_1g_m + C_2L_1R_1R_2R_1g_m + C_2L_1R_1R_1R_1g_m + C_2L_1R_1R_2R_1g_m + C_2L_1R_1R_2R_1g_m + C_2L_1R_1R_2R_1g_m + C_2L_1R_1R_2R_1g_m + C_
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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
H(s) = \frac{1}{C_1C_2C_3L_1L_2L_3R_1R_3s^6 + R_1R_3 + s^5\left(C_1C_2C_3L_1L_3R_1R_2R_3 + C_1C_2L_1L_2L_3R_1 + C_2C_3L_1L_2L_3R_1R_3g_m + C_2C_3L_1L_2R_1R_3 + C_1C_2L_1L_3R_1R_3 + C_1C_2L_1L_3R_1R_3 + C_1C_3L_1L_3R_1R_3 + C_1C_3L_1L_3R_1R_3 + C_2C_3L_1L_3R_1R_3 + C_
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{C_2C_3L_1L_2L_3R_1R_3g_ms^5 + L_1R_1R_3g_ms + s^4\left(C_2C_3L_1L_3R_1R_2R_3g_m + C_2C_3L_1L_3R_1R_3 + C_2L_1L_2L_3R_1g_m\right) + s^3\left(C_2C_3L_1L_2L_3R_1s^6 + R_1 + s^5\left(C_1C_2C_3L_1L_3R_1R_2 + C_1C_2C_3L_1L_3R_1R_3 + C_2C_3L_1L_3R_1 + C_2C_3L
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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{1}{C_1C_2C_3L_1L_2L_3R_1s^6 + R_1 + s^5\left(C_1C_2C_3L_1L_2R_1 + C_1C_2C_3L_1L_3R_1R_2 + C_1C_2C_3L_1L_3R_1R_3 + C_2C_3L_1L_2R_3 + C_2C_3L_2R_3 + C_2C_3L_2R_3 + C_2C_
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 $H(s) = \frac{C_2L_1L_2R_1R_3g_ms^3 + L_1R_1R_3g_ms + s^2\left(C_2L_1R_1R_2R_3g_m + C_2L_1R_1R_3\right)}{C_1C_2L_1L_2R_1s^4 + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_1R_3 + C_2L_1L_2R_1g_m + C_2L_1L_2\right) + s^2\left(C_1L_1R_1 + C_2L_1R_1R_2g_m + C_2L_1R_1 + C_2L_1R_3 + C_2L_2R_1\right) + s\left(C_2R_1R_2 + C_2R_1R_3 + L_1R_1g_m + L_1\right)}$

10.641 INVALID-ORDER-641 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$

10.642 INVALID-ORDER-642 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

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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, \frac{1}{C_3 s}, \infty, \infty, \infty\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_{3}L_{1}L_{2}R_{1}+C_{2}C_{3}L_{1}L_{2}R_{1}+C_{2}C_{3}L_{1}L_{2}R_{1}+C_{2}C_{3}L_{1}L_{2}R_{1}+C_{2}C_{3}L_{1}L_{2}R_{1}+C_{2}C_{3}L_{1}L_{2}R_{1}+C_{2}C_{3}L_{1}L_{2}R_{2})+s^{3}\left(C_{1}C_{3}L_{1}R_{1}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{1}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}R_{1}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C_{3}L_{1}L_{2}+C
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, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{L_1L_2R_1R_3g_ms + s^*(C_2L_1L_2R_1R_3+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1R_2+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_1L_2R_1+G_2C_3L_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, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                          \frac{s^4 \left(C_2 C_3 L_1 L_2 R_1 R_2 g_m + C_2 C_3 L_1 L_2 R_1 R_2 g_m + C_2 L_1 L_2 R_1 + C_3 L_1 L_2 R_1 R_3 g_m + s^2 \left(C_3 L_1 R_1 R_2 R_3 g_m + C_3 L_1 R_1 R_3 + L_1 L_2 R_1 g_m \right) + s^2 \left(C_3 L_1 R_1 R_2 R_3 g_m + C_3 L_1 R_1 R_3 + L_1 L_2 R_1 g_m \right) + s^2 \left(C_3 L_1 L_2 R_1 R_2 + C_1 C_3 L_1 L_2 R_1 R_3 + C_2 C_3 L_1 L_2 R_1 
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, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_3L_1L_2L_3R_1g_ms^4 + L_1L_2R_1g_ms^2 + s^5\left(C_2C_3L_1L_2L_3R_1R_2g_m + C_2C_3L_1L_2L_3R_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 + C_3L_1L_3R_1R_2g_m + C_3L_1L_3R_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 + C_3L_1L_3R_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 + C_3L_1L_2R_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 + C_2C_3L_1L_2R_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 + C_2C_3L_1L_2R_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 + C_2C_3L_1L_2R_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2C_3L_1L_2
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, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L_1L_2L_3R_1g_ms^3 + s^4(C_2L_1L_2L_3R_1R_2g_m + C_2L_3R_1R_2g_m)
                                          \frac{-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1-2-3-1
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, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\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, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
H(s) = \frac{1}{C_1C_2C_3L_1L_2L_3R_1R_2R_3s^6 + R_1R_2R_3 + s^5\left(C_1C_2L_1L_2L_3R_1R_2 + C_1C_2L_1L_2L_3R_1R_3 + C_2C_3L_1L_2L_3R_1R_3 + C_2C_3L_2L_3R_1R_3 + C_2C_3L_2L_3R_1R_3 + C_2C_3L_3L_3R_1R_3 + C_2C_3L_3L_3R_1R_
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, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     s^5 \left( C_2 C_3 L_1 L_2 L_3 R_1 R_2 R_3 g_m + C_2 C_3 L_1 L_2 L_3 R_1 R_3 \right)
H(s) = \frac{1}{R_1R_2 + R_1R_3 + s^6 \left( C_1C_2C_3L_1L_2L_3R_1R_2 + C_1C_2C_3L_1L_2L_3R_1 + C_2C_3L_1L_2L_3R_1 + C_2C_3L_2L_2L_3R_1 + C_2C_3L_2L_2L_3R_1 + C_2
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, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                          \overline{R_1R_2 + R_1R_3 + s^6 \left( C_1C_2C_3L_1L_2L_3R_1R_2 + C_1C_2C_3L_1L_2L_3R_1R_3 \right) + s^5 \left( C_1C_2C_3L_1L_2R_1R_2 + C_1C_3L_1L_2L_3R_1 + C_2C_3L_1L_2L_3R_1 + C_2C_3L_1L_2L_3R_1 + C_2C_3L_1L_2L_3R_2 + C_2C_3L_1L_2L_3R_3 \right) + s^4 \left( C_1C_2L_1L_2R_1R_3 + C_1C_3L_1L_2R_1R_3 + C_1C_3L_1L_2L_3R_1 + C_2C_3L_1L_2L_3R_1 + C_2C_3L_3L_2L_3R_1 + C_2C_3L_3L_2L_3R_1 + C_2C_3L_3L_2L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_
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 $H(s) = \frac{L_1L_2R_1R_3g_ms^2 + s^3\left(C_2L_1L_2R_1R_2R_3g_m + C_2L_1L_2R_1R_3\right) + s\left(L_1R_1R_2R_3g_m + L_1R_1R_3\right)}{R_1R_2 + R_1R_3 + s^4\left(C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_3\right) + s^3\left(C_1L_1L_2R_1 + C_2L_1L_2R_1 + C_2L_1L_2R_1 + C_2L_1L_2R_2 + C_2L_1L_2R_3\right) + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_3 + C_2L_2R_1R_3 + L_1L_2R_1g_m + L_1L_2\right) + s\left(L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_3 + C_2L_2R_1R_3 + L_1L_2R_1g_m + L_1L_2\right) + s\left(L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_3 + C_2L_2R_1R_3 + L_1L_2R_1g_m + L_1L_2\right) + s\left(L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_3 + C_2L_2R_1R_3 + L_1L_2R_1g_m + L_1L_2\right) + s\left(L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_3 + C_2L_2R_1R_3 + L_1L_2R_1g_m + L_1L_2\right) + s\left(L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_3 + C_2L_2R_1R_3 + L_1L_2R_1g_m + L_1R_3\right) + s\left(L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_3 + L_1L_2R_1g_m + L_1L_2\right) + s\left(L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_3 + L_1L_2R_1g_m + L_1R_3\right) + s\left(L_1R_1R_2g_m + L_1R_1 + L_1R_2 + L_1R_3 + L_1L_2R_1g_m + L_1R_3\right) + s\left(L_1R_1R_2g_m + L_1R_3\right) + s\left(L_1R_1R_3g_m + L_1R_3 + L_1R_3\right) + s\left(L_1R_1R_3g_m + L_1R_3\right) + s\left(L_1R_1R_$

10.651 INVALID-ORDER-651 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1}, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, R_3, \infty, \infty, \infty\right)$

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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}, R_3, \infty, \infty, \infty\right)
H(s) = \frac{C_2L_1R_1R_2R_3s^2 + s^3\left(C_2L_1L_2R_1R_2R_3g_m + C_2L_1L_2R_1R_3\right) + s\left(L_1R_1R_2R_3g_m + L_1R_1R_3\right)}{R_1R_2 + R_1R_3 + s^4\left(C_1C_2L_1L_2R_1R_2 + C_1C_2L_1L_2R_1R_3\right) + s^3\left(C_1C_2L_1R_1R_2R_3 + 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_1L_2R_1 + C_2L_1R_1R_2 + C_2L_1R_
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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3L_1L_2R_1R_2s^5 + R_1 + s^4\left(C_1C_2L_1L_2R_1 + C_2C_3L_1L_2R_1 + C_2C_3L_1L_2R_1 + C_2C_3L_1L_2R_1 + C_2C_3L_1L_2R_1 + C_2C_3L_1L_2R_1 + C_2C_3L_1L_2R_1 + C_2C_3L_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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_2L_1R_1R_2R_3s^2 + s^3(C_2L_1L_2R_1R_2R_3g_m + C_2L_1L_2R_1R_3)
H(s) = \frac{C_2L_1R_1R_2R_3s^2 + s^3\left(C_2L_1L_2R_1R_2R_3g_m + C_2L_1L_2R_1R_3g_m + C_2L_1L_2R_1g_m + C_2L_1L_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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{s^4 \left(C_2 C_3 L_1 L_2 R_1 R_2 R_3 g_m + C_2 C_3 L_1 L_2 R_1 R_3\right) + s^3 \left(C_2 C_3 L_1 R_1 R_2 R_3 + 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 + C_3 L_1 R_2 R_3 + C_2 L_1 L_2 R_1 R_2 R_3 + C_2 L_2 L_2 R_1 R_2 R_3 + C_2 L_2 L_2 R_1 R_2 R_3 + C
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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_2C_3L_1L_2R_1R_2s^4 + C_2L_1R_1R_2s^2 + s^5\left(C_2C_3L_1L_2L_3R_1R_2g_m + C_2C_3L_1L_2L_3R_1\right) + s^3\left(C_2L_1L_2R_1R_2g_m + C_2L_1L_2R_1 + C_3L_1L_3R_1\right)}{C_1C_2C_3L_1L_2L_3R_1s^6 + R_1 + s^5\left(C_1C_2C_3L_1L_2R_1R_2 + C_1C_3L_1L_2R_1 + C_2C_3L_1L_2R_1 + C
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_2L_1L_3R_1R_2s^3 + s^4\left(C_2L_1L_2L_3R_1R_2g_m + C_2L_1L_2L_3R_1\right)
H(s) = \frac{\frac{C_2L_1L_3I\iota_1\iota_2s - \tau - s - (C_2L_1L_2L_3R_1R_2s - \tau - s - (C_2L_1L_2L_3R_1)\iota_2s - \tau - s - (C_2L_1L_2L_3R_1R_2s - \tau - s - (C_2L_1L_2L_3R_1)\iota_2s - \tau - s - (C_2L_1L_2L_3R_1+C_2L_3L_3R_1+C_2L_3L_3R_1+C_2L_3R_1+C_2L_3L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1+C_2L_3R_1
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}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  s^{5}\left(C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}+C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}\right)+s^{4}\left(C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{2}R_{3}g_{m}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{2}R_{3}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{2}R_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{2}R_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}R_{2}+C_{2}C_{3}L_{1}L_{2}+C_{2}C_{3}L_{1}L_{2}+C_{2}C_{3}L_{1}L_{2}+C_{2}C_{3}L_{1}L_{2}+C_{2}C_{3}L_{1}L_{2}+C_{2}C_{3}L_{1}L_{2}+C_{2}C_{3}L_{1}L_{2}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}+C_{2}C_{3}L_{1}+C_{2}C_{3}+C_{2}C_{3}+C_{2}C_
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}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)
H(s) = \frac{1}{C_1C_2C_3L_1L_2L_3R_1R_2R_3s^6 + R_1R_2R_3 + s^5\left(C_1C_2L_1L_2L_3R_1R_2 + C_1C_2L_1L_2L_3R_1R_3 + C_2C_3L_1L_2L_3R_1R_3 + C_2C_3L_2L_3R_1R_3 + C_2C_3L_2L_3R_1R_3 + C_2C_3L_2L_3R_1R_3 + C_2C_3L_3L_3R_1R_3 + C_2C_3L_3L_3R_1R_3 + C_2C_3L_3L_3R_1R_3 + C_2C_3L_3L_3R_1R_3 + C_2C_3L_3L_3R_1R_3 + C_2C_3L_3L_3R_1R_3 + C_2C_3L_3L_3R_1R_
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{1}{R_1R_2 + R_1R_3 + s^6 \left( C_1C_2C_3L_1L_2L_3R_1R_2 + C_1C_2C_3L_1L_2L_3R_1R_3 \right) + s^5 \left( C_1C_2C_3L_1L_2L_3R_1 + C_2C_3L_1L_2L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_
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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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
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 $H(s) = \frac{1}{R_1R_2 + R_1R_3 + s^6 \left(C_1C_2C_3L_1L_2L_3R_1R_2 + C_1C_2C_3L_1L_2L_3R_1R_3 \right) + s^5 \left(C_1C_2C_3L_1L_2R_1R_2R_3 + C_1C_2C_3L_1L_2L_3R_1R_2R_3 + C_2C_3L_1L_2L_3R_1 + C_2C_3L_3L_2L_3R_1 + C_2C_3L_3L_2L_3R_1 + C_2C_3L_3L_2L_3R_1 + C_2C_3L_3L_2L_3R_1 + C_2C_3L_3L_2L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_1 + C_2C_3L_3L_3L_3R_$

10.671 INVALID-ORDER-671
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 \right) + s \left(L_1 R_2 g_m + L_1 \right)}{s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_3 L_1 R_1 + C_1 C_3 L_1 R_2 \right) + s^2 \left(C_1 L_1 + C_3 L_1 R_2 g_m + C_3 L_1 \right) + s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 \right) + 1}$$

10.672 INVALID-ORDER-672
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1R_2R_3g_m + R_1R_3 + s^2\left(C_1L_1R_1R_2R_3g_m + C_1L_1R_1R_3\right) + s\left(L_1R_2R_3g_m + L_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_3L_1R_1R_2R_3g_m + C_1C_3L_1R_1R_3 + c_1C_3L_1R_2R_3\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_3 + C_3L_1R_2R_3g_m + C_3L_1R_3\right) + s\left(C_3R_1R_2R_3g_m + C_3R_1R_3 + C_3R_2R_3 + L_1R_2g_m + L_1\right)}$$

10.673 INVALID-ORDER-673
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^3 \left(C_1 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_3 L_1 R_1 R_3\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_3 L_1 R_2 R_3 g_m + C_3 L_1 R_3\right) + s \left(C_3 R_1 R_2 R_3 g_m + C_3 R_1 R_3 + L_1 R_2 g_m + L_1\right)}{s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_3 L_1 R_1 + C_1 C_3 L_1 R_2 + C_1 C_3 L_1 R_3\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_2 g_m + C_3 L_1\right) + s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2 + C_3 R_3\right) + 1}$$

10.674 INVALID-ORDER-674
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_3 L_1 L_3 R_1\right) + s^3 \left(C_3 L_1 L_3 R_2 g_m + C_3 L_1 L_3\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_3 L_3 R_1 R_2 g_m + C_3 L_3 R_1\right) + s \left(L_1 R_2 g_m + L_1\right)}{C_1 C_3 L_1 L_3 s^4 + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_3 L_1 R_1 + C_1 C_3 L_1 R_2\right) + s^2 \left(C_1 L_1 + C_3 L_1 R_2 g_m + C_3 L_1 + C_3 L_3\right) + s \left(C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2\right) + 1}$$

10.675 INVALID-ORDER-675
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

10.676 INVALID-ORDER-676
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1R_2g_m + R_1 + s^4\left(C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1\right) + s^3\left(C_1C_3L_1R_1R_2R_3g_m + C_1L_1R_1R_2g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_3L_1R_2g_m + C_3L_1R_3 + C_3L_1R_3$$

10.677 INVALID-ORDER-677
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{s^3 \left(C_1 L_1 L_3 R_1 R_2 R_3 g_m + C_1 L_1 L_3 R_1 R_3 \right) + s^2 \left(L_1 L_3 R_2 R_3 g_m + L_1 L_3 R_3 \right) + s \left(L_3 R_1 R_2 R_3 g_m + L_3 R_1 R_3 \right)}{R_1 R_2 R_3 g_m + R_1 R_3 + R_2 R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 L_1 L_3 R_1 + C_1 L_1 L_3 R_2 + C_1 L_1 L_3 R_3 + C_3 L_1 L_3 R_3 g_m + C_3 L_1 L_3 R_3 g_m + C_1 L_1 R_1 R_3 + C_1 L_1 R_1 R_3 + C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 + C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 + C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 + C_1 L_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 +$$

10.678 INVALID-ORDER-678
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 L_1 L_3 R_1 R_2 g_m + C_1 L_1 L_3 R_1 R_2 g_m + C_1 L_1 L_3 R_1 + C_3 L_1 L_3 R_2 g_m + C_1 L_1 R_1 R_3 + C_3 L_3 R_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 + C_3 L_3 R_1 R_2 g_m + C_1 L_1 R_1 R_3 + C_3 L_3 R_1 R_2 g_m + C_1 L_1 R_3 + C_3 L_3 R_1 R_2 g_m + C_1 L_1 R_3 + C_3 L_1 L_3 R_2 g_m + C_1 L_1 R_1 R_2 g$$

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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, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                 H(s) = \frac{C_1C_2L_1R_1R_3s^3 + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_2L_1R_3\right) + s\left(C_2R_1R_3 + L_1R_3g_m\right)}{R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_2L_1R_3\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_1\right) + s\left(C_2R_1 + C_2R_3 + 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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3L_1R_1s^4 + s^3\left(C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_2C_3L_1\right) + s^2\left(C_2C_3R_1 + C_3L_1g_m\right) + s\left(C_2 + C_3R_1g_m + C_3\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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                                       H(s) = \frac{C_1C_2L_1R_1R_3s^3 + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_2L_1R_3\right) + s\left(C_2R_1R_3 + L_1R_3g_m\right)}{C_1C_2C_3L_1R_1R_3s^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_2L_1R_3 + C_1C_3L_1R_3g_m + C_1C_3L_1R_3\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2C_3R_1R_3 + C_2L_1 + C_3L_1R_3g_m\right) + s\left(C_2R_1 + C_2R_3 + C_3R_1R_3g_m + C_3R_3 + L_1g_m\right) + 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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                              H(s) = \frac{C_1C_2C_3L_1R_1R_3s^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_3L_1R_1g_m + C_2C_3L_1R_3\right) + s^2\left(C_1L_1R_1g_m + C_2C_3R_1R_3 + C_2L_1 + C_3L_1R_3g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m + L_1g_m\right)}{s^4\left(C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_3\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_2C_3L_1\right) + s^2\left(C_2C_3R_1 + C_2C_3R_3 + C_3L_1g_m\right) + s\left(C_2+C_3R_1g_m + C_3C_3R_1g_m\right) + s\left(C_2+C_3R_1g_m + C_3C_3R_1g_m\right) + s\left(C_3+C_3R_1g_m + C_3R_1g_m\right) + s\left(C_3+C_3R_1g_m + C_3C_3R_1g_m\right) + s\left(C_3+C_3R_1
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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
                                                                                                                                                       H(s) = \frac{C_1C_2C_3L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_3L_1L_3R_1g_m + C_2C_3L_1L_3\right) + s^3\left(C_1C_2L_1R_1 + C_2C_3L_3R_1 + C_3L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_2L_1 + C_3L_3R_1g_m\right) + s\left(C_2R_1 + L_1g_m\right)}{C_1C_2C_3L_1L_3s^5 + C_1C_2C_3L_1R_1s^4 + s^3\left(C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_2C_3L_1 + C_2C_3L_3\right) + s^2\left(C_2C_3R_1 + C_3L_1g_m\right) + s\left(C_2+C_3R_1g_m + C_3L_1g_m\right)} + s\left(C_2+C_3R_1g_m + C_3R_1g_m\right) + s\left(C_3+C_3R_1g_m\right) + s\left(C_3+C_
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
                                                  H(s) = \frac{C_1C_2L_1L_3R_1s^4 + L_3R_1g_ms + s^3\left(C_1L_1L_3R_1g_m + C_2L_1L_3\right) + s^2\left(C_2L_3R_1 + L_1L_3g_m\right)}{C_1C_2C_3L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2L_1L_3 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_2L_1R_1 + C_2C_3L_3R_1 + C_3L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_1 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_2R_1 + L_1g_m\right) + 1}
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$$\begin{aligned} \textbf{10.686} \quad \textbf{INVALID-ORDER-686} \ \ Z(s) &= \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \ \ \frac{1}{C_2s}, \ L_3s + R_3 + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty \right) \\ H(s) &= \frac{C_1C_2C_3L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2C_3L_1R_1R_3 + C_1C_3L_1L_3R_1g_m + C_2C_3L_1R_1 + C_1C_3L_1R_1R_3g_m + C_2C_3L_1R_3 + C_2C_3L_3R_1 + C_3L_1L_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_3R_1R_3 + C_2L_1 + C_3L_1R_3g_m + C_3L_3R_1g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m + L_1g_m + C_2C_3L_1L_3s^5 + s^4\left(C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_3\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_2C_3L_1\right) + s^2\left(C_2C_3R_1 + C_2C_3R_3 + C_3L_1g_m\right) + s\left(C_2C_3R_1g_m + C_3C_3R_1g_m + C_3C_3R_1g_m\right) + s\left(C_2C_3R_1R_3 + C_2C_3R_1R_3 + C_2C_3R_1R_3 + C_2C_3R_1R_3 + C_2C_3R_1R_3 + C_2C_3R_1R_3\right) + s^2\left(C_2C_3R_1 + C_2C_3R_1R_3 + C_2C_3R_1R_3\right) + s^2\left(C_2C_3R_1 + C_2C_3R_1R_3 + C_2C_3R_1R_3 + C_2C_3R_1R_3\right) + s^2\left(C_2C_3R_1 + C_2C_3R_1 + C_2C_3R_1 + C_2C_3R_1 + C_2C_3R_1R_3\right) + s^2\left(C_2C_3R_1 + C_2C_3R_1 + C_2C_3R_1 + C_2C_3R_1 + C_2C_3R_1R_3\right) + s^2\left(C_2C_3R_1 + C_2C_3R_1 +$$

10.687 INVALID-ORDER-687
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1L_3R_1R_3s^4 + L_3R_1R_3g_ms + s^3\left(C_1L_1L_3R_1R_3g_m + C_2L_1L_3R_3\right) + s^2\left(C_2L_3R_1R_3 + L_1L_3R_3g_m\right)}{C_1C_2C_3L_1L_3R_1R_3s^5 + R_1R_3g_m + R_3 + s^4\left(C_1C_2L_1L_3R_1 + C_1C_2L_1L_3R_3 + C_1C_3L_1L_3R_3 + C_2C_3L_1L_3R_3\right) + s^3\left(C_1C_2L_1R_1R_3 + C_1L_1L_3R_1g_m + C_1L_1L_3 + C_2C_3L_3R_1R_3 + C_2L_1L_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3g_m\right) + s^2\left(C_1L$$

10.688 INVALID-ORDER-688
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1L_3R_1R_3s^5 + R_1R_3g_m + s^4\left(C_1C_2L_1L_3R_1 + C_1C_3L_1L_3R_1g_m + C_2C_3L_1L_3R_3\right) + s^3\left(C_1C_2L_1R_1R_3 + C_1L_1L_3R_1g_m + C_2C_3L_3R_1R_3 + C_2L_1L_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_2L_1R_3 + C_2L_1$$

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H(s) = \frac{C_1C_2C_3L_1L_3R_1R_3s^5 + R_1R_3g_m + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_2C_3L_1R_1R_3 + C_2C_3L_3R_1R_3 + C_3L_1L_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_2L_1R_3 + C_3L_3R_1R_3 + C_3L_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_2L_1R_3 + C_3L_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_2L_1R_3 + C_3L_3R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_3L_3R_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_3g_m\right) + s^2\left(C
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                           H(s) = \frac{C_1C_2L_1R_1R_2R_3s^3 + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_1L_1R_1R_2R_3g_m + C_1L_1R_1R_3 + C_2L_1R_2R_3\right) + s\left(C_2R_1R_2R_3 + L_1R_2R_3g_m + L_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_2R_3\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_3 + C_2L_1R_2\right) + s\left(C_2R_1R_2 + C_2R_2R_3 + L_1R_2g_m + L_1R_3\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}, \frac{1}{C_3 s}, \infty, \infty, \infty\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_3L_1R_1R_2s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_3L_1R_1R_2g_m + C_1C_3L_1R_1 + C_1C_3L_1R_2 + C_2C_3L_1R_2\right) + s^2\left(C_1L_1 + C_2C_3R_1R_2 + C_3L_1R_2g_m + C_3L_1\right) + s\left(C_2R_2 + C_3R_1R_2g_m + C_3R_1 + C_3R_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}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)
                                            \frac{C_{1}C_{2}L_{1}R_{1}R_{2}R_{3}s^{3}+R_{1}R_{2}R_{3}g_{m}+R_{1}R_{3}+s^{2}\left(C_{1}L_{1}R_{1}R_{2}R_{3}g_{m}+C_{1}L_{1}R_{1}R_{3}+C_{2}L_{1}R_{2}R_{3}\right)+s\left(C_{2}R_{1}R_{2}R_{3}+L_{1}R_{2}R_{3}g_{m}+L_{1}R_{3}\right)}{C_{1}C_{2}C_{3}L_{1}R_{1}R_{2}R_{3}s^{4}+R_{1}R_{2}g_{m}+R_{1}+R_{2}+R_{3}+s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}+C_{1}C_{2}L_{1}R_{2}R_{3}+C_{1}C_{3}L_{1}R_{1}R_{3}+C_{1}C_{3}L_{1}R_{1}R_{3}+C_{2}C_{3}L_{1}R_{2}R_{3}\right)+s^{2}\left(C_{1}L_{1}R_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{3}+C_{2}C_{3}R_{1}R_{2}R_{3}+C_{2}C_{3}L_{1}R_{2}R_{3}+C_{2}C_{3}L_{1}R_{2}R_{3}+C_{2}C_{3}L_{1}R_{2}R_{3}\right)+s^{2}\left(C_{1}L_{1}R_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C_{1}L_{1}R_{2}+C
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}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1R_1R_2R_3s^4 + R_1R_2g_m + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_3L_1R_1R_2R_3g_m + C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2C_3R_1R_2R_3 + C_2L_1R_2 + C_3L_1R_2R_3g_m + C_3L_1R_3\right) + s\left(C_2R_1R_2 + C_3R_1R_2R_3g_m + C_3R_1R_3g_m + 
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}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_3R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1 + C_2C_3L_1L_3R_2\right) + s^3\left(C_1C_2L_1R_1R_2 + C_2C_3L_3R_1R_2 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_1R_2 + C_3L_3R_1R_2g_m + C_3L_3R_1\right) + s\left(C_2R_1R_2 + L_1R_2g_m + C_3L_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_1R_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_3L_1R_2 + C_3L_1R_2 + C_3L_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_3L_1R_2\right) + s^2\left(C_1L_1R
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}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2L_1L_3R_1R_2s^4 + s^3\left(C_1L_1L_3R_1R_2g_m + C_1L_1L_3R_2 + C_2L_1L_3R_2\right) + s^2\left(C_2L_3R_1R_2 + L_1L_3R_2g_m + L_1L_3\right) + s\left(L_3R_1R_2g_m + L_3R_1\right)}{C_1C_2C_3L_1L_3R_1R_2s^5 + R_1R_2g_m + R_1 + R_2 + s^4\left(C_1C_2L_1L_3R_2 + C_1C_3L_1L_3R_1 + C_2C_3L_1L_3R_2\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1L_1L_3 + C_2C_3L_3R_1R_2 + C_3L_1L_3\right) + s^2\left(C_1L_1R_1R_2g_m + L_1L_3\right) + 
10.696 INVALID-ORDER-696 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2}{C_2R_2s+1}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_3R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2C_3L_1R_1R_2R_3 + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_2\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_1R_1R_3 + C_2C_3L_1R_2R_3 + C_2C_3L_3R_1R_2 + C_3L_1L_3R_2g_m + C_3L_1L_3\right) + s^2\left(C_1L_1R_1R_2g_m + C_1C_3L_1R_1R_2 + C_1
10.697 INVALID-ORDER-697 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2}{C_2R_2s+1}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             H(s) = \frac{1}{C_1C_2C_3L_1L_3R_1R_2R_3s^5 + R_1R_2R_3g_m + R_1R_3 + R_2R_3 + s^4\left(C_1C_2L_1L_3R_1R_2 + C_1C_2L_1L_3R_1R_2R_3 + C_1C_3L_1L_3R_1R_2R_3 + C_1C_3L_1L_3R_1R_3 + C_1C_
10.698 INVALID-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}, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \infty, \infty\right)
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10.689 INVALID-ORDER-689 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

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

10.702 INVALID-ORDER-702 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

10.703 INVALID-ORDER-703 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 g_m + s^4 \left(C_1 C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_1 R_3 \right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 + C_1 C_3 L_1 R_3 g_m + C_2 C_3 L_1 R_3 \right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 C_3 R_1 R_3 + C_2 L_1 R_2 g_m + C_2 L_1 + C_3 L_1 R_3 g_m \right) + s \left(C_2 R_1 R_2 g_m + C_2 R_1 R_3 g_m + C_2 C_3 L_1 R_3 \right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 C_3 L_1 R_3 + C_2 L_1 R_2 g_m + C_2 L_1 R_3 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_3 g_m \right) + s \left(C_2 R_1 R_2 g_m + C_2 C_3 L_1 R_3 + C_2 L_1 R_2 g_m + C_2 C_3 L_1 R_3 \right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 C_3 L_1 R_3 + C_2 L_1 R_2 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_3 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_3 g_m \right) + s \left(C_2 R_1 R_2 g_m + C_2 C_3 L_1 R_1 R_2 g_m + C_2 C_3 L_1 R_3 + C_2 L_1 R_2 g_m +$

10.704 INVALID-ORDER-704 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_1\right) + s^4 \left(C_1 C_3 L_1 L_3 R_1 g_m + C_2 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 + C_2 C_3 L_3 R_1 R_2 g_m + C_2 C_3 L_1 L_3 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_2 g_m\right) + s \left(C_2 R_1 R_2 g_m + C_2 C_3 L_1 L_3 S^5 + s^4 \left(C_1 C_2 C_3 L_1 R_1 R_2 g_m + C_1 C_2 C_3 L_1 R_1\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_2 C_3 L_1 R_2 g_m + C_2 C_3 L_1 R_2 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 L_1 R_2 g_m + C_2 C_3 L_1 R_2 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_2 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_2 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_2 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_2 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 L_1 R_2 g_m + C_2 L_1 R_2 g_m\right) + s^2 \left(C_1 L_1 R_1 g_m + C_2 L_1 R_2 g_m\right)$

10.705 INVALID-ORDER-705 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{L_3R_1g_ms + s^4\left(C_1C_2L_1L_3R_1g_m + C_1C_2L_1L_3R_1g_m + C_2L_1L_3R_2g_m + C_2L_1L_3\right) + s^2\left(C_2L_3R_1R_2g_m + C_2L_3R_1 + L_2R_2g_m + C_2L_3R_1R_2g_m + C_2L_3$

10.706 INVALID-ORDER-706 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, R_2 + \frac{1}{C_2s}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 g_m + s^5 \left(C_1 C_2 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_1 \right) + s^4 \left(C_1 C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_1 R_3 + C_1 C_3 L_1 L_3 R_2 g_m + C_2 C_3 L_1 L_3 \right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 g_m + C_1 C_2 L_1 R_1 + C_1 C_3 L_1 R_1 R_3 g_m + C_2 C_3 L_1 R_3 + C_2$

10.707 INVALID-ORDER-707 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, R_2 + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$

 $H(s) = \frac{L_3 R_1 R_3 g_m s + s^4 \left(C_1 C_2 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_3 R_1 R_3 + s^4 \left(C_1 C_2 L_1 L_3 R_1 R_2 G_m + C_1 C_2 L_1 L_3 R_1 + C_1 C_2 L_1 L_3 R_3 + C_1 C_2 L_1 L_3 R_3 + C_1 C_2 L_1 L_3 R_3 + C_2 C_3 L_1 L_3 R_3 g_m + C_2 C_3 L_1 L_3 R_3 g_m$

10.708 INVALID-ORDER-708 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, R_2 + \frac{1}{C_2s}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 R_3 g_m + s^5 \left(C_1 C_2 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_3 R_1 R_3\right) + s^4 \left(C_1 C_2 L_1 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_3 R_1 R_2 g_m + C_2 C_3 L_1 L_3 R_3 g_m + C_2 C_3 L_1 L_3 R_3 g_m + C_2 C_3 L_1 L_3 R_1 R_2 g_m$

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10.709 INVALID-ORDER-709 Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, R_2 + \frac{1}{C_2s}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty\right)
\frac{R_1R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_2R_3g_m + C_1C_2C_3L_1L_3R_1R_3\right) + s^4\left(C_1C_3L_1L_3R_1R_3g_m + C_2C_3L_1L_3R_2R_3g_m + C_2C_3L_1L_3R_1R_2R_3g_m + C_2C_3L_1R_2R_3 + C_2C_3L_1R_2R_3g_m + C_2C_3L_1R_3R_2R_3g_m + C_2C_3L_1R_2R_3g_m + C_2C_3L_1R_3R_3g_m + C_2C_3
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10.711 INVALID-ORDER-711
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1L_2R_1g_ms^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1R_1g_m + C_2L_1 + C_2L_2R_1g_m\right) + s\left(C_2R_1 + L_1g_m\right)}{s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2C_3L_1L_2\right) + s^4\left(C_1C_2C_3L_1R_1 + C_2C_3L_1L_2g_m\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_2C_3L_1R_1g_m + C_2C_3L_2\right) + s^2\left(C_2C_3R_1 + C_3L_1g_m\right) + s\left(C_2C_3R_1 + C_3R_1g_m + C_3R_1g_m + C_3R_1g_m\right)}$$

10.712 INVALID-ORDER-712
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1L_2R_1R_3g_m s^4 + R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_3 + C_2L_1L_2R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_2L_1R_3 + C_2L_2R_1R_3g_m\right) + s\left(C_2R_1R_3 + L_2R_3g_m\right) + s\left(C_2R_1R_3$$

10.713 INVALID-ORDER-713
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1L_2R_1R_3g_ms^5 + R_1g_m + s^4\left(C_1C_2C_3L_1R_1R_3 + C_1C_2L_1L_2R_1g_m + C_2C_3L_1L_2R_3g_m\right) + s^3\left(C_1C_2L_1R_1 + C_1C_3L_1R_1R_3g_m + C_2C_3L_1R_3 + C_2C_3L_2R_1R_3g_m + C_2L_1L_2g_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_3R_1R_3 + C_2L_1 + C_2L_2R_1g_m + C_3L_1R_3g_m\right) + s\left(C_2R_1 + C_2C_3L_1R_3 + C_2C$$

10.714 INVALID-ORDER-714
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_3L_1L_3R_1 + C_2C_3L_1L_2R_1g_m + C_1C_3L_1L_3R_1g_m + C_2C_3L_1L_3R_1g_m + C_2C_3L_1L_3R_1g_m + C_2C_3L_1L_3R_1g_m + C_2C_3L_1R_1 + C_2C_3L_2R_1g_m + C_3L_1L_3g_m\right) + s^3\left(C_1C_2L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_1R$$

10.715 INVALID-ORDER-715
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2L_1L_2R_3g_ms^5 + L_3R_1g_ms + s^4\left(C_1C_2L_1L_3R_1 + C_2L_1L_2R_3g_m\right) + s^3\left(C_1L_1L_3R_1g_m + C_2L_1L_3 + C_2L_2L_3R_1g_m\right) + s^2\left(C_2L_3R_1 + C_2L_3R_1g_m + C_3L_3R_1g_m + C_3L_3R_$$

10.716 INVALID-ORDER-716
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_3L_1L_2R_1R_3g_m + C_1C_2C_3L_1L_3R_1 + C_2C_3L_1L_2R_1g_m + C_1C_3L_1L_2R_1g_m + C_1C_3L_1L_2R_1g_m + C_1C_3L_1L_2R_1g_m + C_1C_3L_1L_2R_1g_m + C_2C_3L_1L_3R_1g_m + C_2C_3L_1L_2R_1g_m + C_2C_3L_1L_$$

10.717 INVALID-ORDER-717
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + \frac{1}{C_2 s}, \frac{L_3 R_3 s}{C_3 L_3 R_3 s^2 + L_3 s + R_3}, \infty, \infty, \infty\right)$$

10.718 INVALID-ORDER-718
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \ L_2 s + \frac{1}{C_2 s}, \ \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \ \infty, \ \infty, \ \infty\right)$$

$$H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1R_3g_ms^6 + R_1R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_3 + C_1C_2L_1L_2L_3R_1g_m + C_2C_3L_1L_3R_1g_m + C_1C_2L_1L_3R_1g_m + C_1C_$$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1R_3g_ms^6 + R_1R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_3 + C_2C_3L_1L_2L_3R_3g_m\right) + s^4\left(C_1C_2L_1L_2R_1R_3g_m + s^6\left(C_1C_2C_3L_1L_2L_3R_1g_m + C_1C_2L_1L_2R_1g_m + C_1C_$

- **10.720** INVALID-ORDER-720 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, R_3, \infty, \infty, \infty\right)$
- $H(s) = \frac{C_1C_2L_1L_2R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_2R_3g_m + C_1C_2L_1R_1R_3 + C_2L_1L_2R_3g_m\right) + s^2\left(C_1L_1R_1R_3g_m + C_2L_1R_3 + C_2L_1R_3 + C_2L_2R_1R_3g_m\right) + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3 + L_1R_3g_m\right)}{R_1g_m + s^4\left(C_1C_2L_1L_2R_1g_m + C_1C_2L_1R_1 + C_1C_2L_1R_1 + C_1C_2L_1R_3 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_1R_2g_m + C_2L_1 + C_2L_2R_1g_m + C_2L_1\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_3 + L_1g_m\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_1R_2g_m + C_2L_1 + C_2L_2R_1g_m + C_2L_1\right) + s\left(C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_3 + L_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_3 + L_1R_3g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_3g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_3g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1R_3g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1$
- 10.721 INVALID-ORDER-721 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, L_2s + R_2 + \frac{1}{C_2s}, \frac{1}{C_3s}, \infty, \infty, \infty\right)$
- $H(s) = \frac{C_1C_2L_1L_2R_1g_ms^4 + R_1g_m + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_2L_1L_2g_m\right) + s^2\left(C_1L_1R_1g_m + C_2L_1R_2g_m + C_2L_1 + C_2L_2R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1 + L_1g_m\right)}{s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_2 + C_2C_3L_1R_2g_m\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_2g_m + C_2C_3L_1 + C_2C_3L_1R_2g_m + C_2C_3L_1\right) + s^2\left(C_2C_3R_1R_2g_m + C_2C_3L_1R_2g_m + C_2$
- 10.722 INVALID-ORDER-722 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, L_2s + R_2 + \frac{1}{C_2s}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)$
- $H(s) = \frac{C_1C_2L_1L_2R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_2R_3g_m + C_1C_2L_1R_1R_3 + C_2R_3g_m + C_1C_2L_1R_1R_3 + C_2R_3g_m + C_1C_2L_1R_1R_3 + C_2R_3g_m + C_1C_2L_1R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_3g_m + C_1C_2L_1R_1R_2R_3g_m + C_1C_2L_1R_1R_3g_m + C_1C_2L_1R_3g_m + C_1C_2L_1R_3$
- 10.723 INVALID-ORDER-723 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, L_2s + R_2 + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$
- $H(s) = \frac{C_1C_2C_3L_1L_2R_1R_3g_ms^5 + R_1g_m + s^4\left(C_1C_2C_3L_1R_1R_2R_3g_m + C_1C_2C_3L_1R_1R_3 + C_1C_2L_1L_2R_1g_m + C_2C_3L_1R_1R_2g_m + C_1C_2L_1R_1 + C_1C_3L_1R_1R_3g_m + C_2C_3L_1R_2R_3g_m + C_2C_3L_1R_3 + C_2C_3L_2R_1R_3g_m + C_2L_1L_2g_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_3L_1R_1R_2g_m + C_1C_2L_1R_1 + C_1C_3L_1R_1R_2g_m + C_2C_3L_1R_3 + C_2C$
- 10.724 INVALID-ORDER-724 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
- $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_2g_m + C_1C_2C_3L_1L_3R_1 + C_2C_3L_1L_3R_1g_m + C_1C_3L_1L_3R_1g_m + C_2C_3L_1L_3R_1g_m + C_2C_3L_1L_3R_2g_m + C_2C_3L_1R_2g_m + C_2C_3L_$
- 10.725 INVALID-ORDER-725 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty\right)$
- $H(s) = \frac{C_1C_2L_1L_2L_3R_1g_ms^5 + L_3R_1g_ms + s^4\left(C_1C_2L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1 + C_2C_3L_1L_3R_1 + C_2C_3L_1L_3R_1$
- 10.726 INVALID-ORDER-726 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$
- $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_3L_1L_2R_1R_3g_m + C_1C_2C_3L_1L_3R_1R_2g_m + C_1C_2C_3L_1L_2R_3g_m + C_1C_2C_3L_1R_3R_3g_m + C_1C_2C_3L_1R_3g_m + C_1C_2C_3L_1R_3g_$
- 10.727 INVALID-ORDER-727 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, L_2s + R_2 + \frac{1}{C_2s}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)$
- 10.728 INVALID-ORDER-728 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, L_2s + R_2 + \frac{1}{C_2s}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$
- $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1R_3g_ms^6 + R_1R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_2R_3g_m + C_1C_2L_1L_3R_1g_m + C_2C_3L_1L_2R_3g_m + C_1C_2L_1L_3R_1g_m + C_2C_3L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1g_m + C_1C_2L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1g_m + C_2C_3L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1g_m + C_2C_3L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1g_m + C_2C_3L_1L_3R_1g_m + C_2C_3L_1L_$

10.729 INVALID-ORDER-729 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, L_2 s + R_2 + \frac{1}{C_2 s}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $C_1C_2C_3L_1L_2L_3R_1R_3g_ms^6 + R_1R_3g_m +$

 $H(s) = \frac{1}{R_1 g_m + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 g_m + C_1 C_2 C_3 L_1 L_2 L_3 \right) + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 g_m + C_1 C_2 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_1 + C_1 C_2 C_3 L_1 L_3 R_3 + C_2 C_3 L_1 L_3 R_3 + C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_2 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_3 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_3 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_3 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_3 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_3 R_2 g_m + C_1 C_2 C_3 L$

10.730 INVALID-ORDER-730 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, R_3, \infty, \infty, \infty\right)$

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

10.731 INVALID-ORDER-731 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

10.732 INVALID-ORDER-732 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$

 $R_1R_2R_3g_m + R_1R_3 + s^4(C_1C_2L_1L_2R_1R_1R_2R_1R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2R_1R_2$ $\frac{1c_{1}1c_{2}1c_{3}g_{m}+1c_{1}1c_{3}+s-(c_{1}c_{2}L_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_{m}+1c_{1}L_{2}R_{3}g_$

10.733 INVALID-ORDER-733 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_1 R_3 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_1 C_3 L_1 R_1 R_3 + C_1 L_1 L_2 R_1 g_m + C_2 C_3 L_2 R_1 R_2 R_3 g_m + C_2 C_3 L_1 L_2 R_3 g_m + C_2 C$

10.734 INVALID-ORDER-734 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_3 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_3 L_1 L$

10.735 INVALID-ORDER-735 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$

 $s^5 \left(C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 \right)$ $\frac{s - (C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 g_m + C_1 C_2 L_1 L_2 L_3 R_1 g_m + C_1 C_3 L_1 L_2 L_3 R_2 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m +$

10.736 INVALID-ORDER-736 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 \right) + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_2 R_1 R_2 g_m + C_1 C_2 L_2$ $C_1C_2C_3L_1L_2L_3s^6 + s^5\left(C_1C_2C_3L_1L_2R_1R_2q_m + C_1C_2C_3L_1L_2R_1 + C_1C_2C_3L_1L_2R_2 + C_1C_2C_3L_1L_2R_3\right) + s^4\left(C_1C_2C_3L_1L_2R_3s^6 + s^5\left(C_1C_2C_3L_1L_2R_1R_2q_m + C_1C_2C_3L_1L_2R_1 + C_1C_2C_3L_1L_2R_2 + C_1C_2C_3L_1L_2R_3\right)\right) + s^4\left(C_1C_2C_3L_1L_2R_1R_2q_m + C_1C_2C_3L_1L_2R_1 + C_1C_2C_3L_1L_2R_2 + C_1C_2C_3L_1L_2R_3\right) + s^4\left(C_1C_2C_3L_1L_2R_1R_2q_m + C_1C_2C_3L_1L_2R_1 + C_1C_2C_3L_1L_2R_2 + C_1C_2C_3L_1L_2R_3\right)$

10.737 INVALID-ORDER-737 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)$

 $\overline{R_{1}R_{2}R_{3}g_{m}+R_{1}R_{3}+R_{2}R_{3}+s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}R_{3}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}+C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{3}R_{2}+C_{1}C_{2}L_{1}L_{2}L_{3}R_{3}+C_{1}C_{3}L_{1}L_{2}L_{3}$

10.738 INVALID-ORDER-738 $Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$

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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, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
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 $H(s) = \frac{1}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 + C_1 C_2 C_3 L_1 L_2 L_3 R_2 + C_1 C_2 C_3 L_1 L_2 L_3 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 R_1 R_1 R_2 R_1 R_3 \right) \\ + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1$

10.740 INVALID-ORDER-740
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, R_3, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^4 \left(C_1 C_2 L_1 L_2 R_1 R_2 R_3 g_m + C_1 C_2 L_1 L_2 R_1 R_3\right) + s^3 \left(C_1 C_2 L_1 R_1 R_2 R_3 g_m + C_2 L_1 L_2 R_3 g_m + C_1 L_1 R_1 R_3 + C_2 L_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 + C_2 L_1 R_2 R_3 g_m + C_2 L_2 R_1 R_2 R_3 g_m + C_2 L_2 R_2 R_3$

10.741 INVALID-ORDER-741
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

10.742 INVALID-ORDER-742
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \infty\right)$$

 $R_1R_2R_3g_m + R_1R_3 + s^4\left(C_1C_2L_1L_2R_1R_2R_3g_m + s^4\right)$ $\frac{n_1n_2n_3g_m + n_1n_3 + s + (C_1C_2L_1L_2R_3g_m + C_1C_2L_1L_2R_1R_3 + s + (C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_3 + c_1C_2L_2L_2R_3 + c_1C_2L_2L_2R_3 + c_1C_2L_2L_2R_3$

10.743 INVALID-ORDER-743
$$Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_2 g_m +$

10.744 INVALID-ORDER-744
$$Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)$$

10.745 INVALID-ORDER-745
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \infty\right)$$

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

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

10.746 INVALID-ORDER-746
$$Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1, \frac{R_2 \left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1}, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_1 R_2 g_m + R_1 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_2 R_1 R_2 g$

10.747 INVALID-ORDER-747
$$Z(s) = \left(\frac{L_1s}{C_1L_1s^2+1} + R_1, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)$$

 $\overline{R_{1}R_{2}R_{3}g_{m}+R_{1}R_{3}+R_{2}R_{3}+s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}R_{3}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{2}R_{3}\right)+s^{5}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}+C_{1}C_{2}L_{1}L_{2}L_{3}R_{2}+C_{1}C_{2}L_{1}L_{2}L_{3}R_{3}+C_{2}C_{3}L_{1}L_{2}L_{3}R_{2}+C_{1}C_{2}L_{1}L_{2}L_{2}R_{2}+C_{1}C_{2}L_{1}L_{2}L_{2}R_{2}+C_{1}C_{2}L_{1}L_{2}L_{2}R_{2}+C_{1}C_{2}L_{1}L_{2}L_{2}R_{2}+C_{1}C_{2}L_{2}L_{2}L_{2}+C_{1}C_{2}L_{2}L_{2}L_{2}+C_{1}C_{2}L_{2}L_{2}+C_{1}$

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10.748 INVALID-ORDER-748 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}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_3 g_m + C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_2 C_3 L_1 L_2 L_3 R_3 g_m + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_2 R_3 g_m + C_2 C_3 L_1 L_2 L_3 R_2 g_m + C_2 C_3 L_1 L_2
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}, \frac{R_3 \left(C_3 L_3 s^2 + 1\right)}{C_3 L_3 s^2 + C_3 R_3 s + 1}, \infty, \infty, \infty\right)
H(s) = \frac{1}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s^6 \left( C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 + C_1 C_2 C_3 L_1 L_2 L_3 R_2 + C_1 C_2 C_3 L_1 L_2 L_3 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_1 R_2 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 C_3 L_1 L_2 R_3 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 R_3 R_3 + C_1 C_2 R_3 R_3 \right) \\ + s^5 \left( C_1 C_2 C_3 L_1 L_2 R_3 R_3 + C_1 C_2 R
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, \frac{1}{C_3s}, \infty, \infty, \infty\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_3 L_1 R_1 R_2 g_m + C_1 C_3 L_1 R_1 + C_1 C_3 L_1 R_2 \right) + s^2 \left( C_1 C_3 R_1 R_2 + C_1 L_1 \right) + s \left( C_1 R_1 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 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, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\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, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                                                                                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, \ L_3s+\frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right)
                                                                                                               H(s) = \frac{R_1 R_2 g_m + R_1 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_3 L_1 L_3 R_1\right) + s^2 \left(C_1 L_1 R_1 R_2 g_m + C_1 L_1 R_1 + C_3 L_3 R_1 R_2 g_m + C_3 L_3 R_1\right)}{C_1 C_3 L_1 L_3 s^4 + s^3 \left(C_1 C_3 L_1 R_1 R_2 g_m + C_1 C_3 L_1 R_1 + C_1 C_3 L_1 R_2 + C_1 C_3 L_3 R_1\right) + s^2 \left(C_1 C_3 R_1 R_2 + C_1 L_1 + C_3 L_3\right) + s \left(C_1 R_1 + C_3 R_1 R_2 g_m + C_3 R_1 + C_3 R_2\right) + 1}
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, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)
                                   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, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                                    10.756 INVALID-ORDER-756 Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, R_2, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
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 $s^{3}\left(C_{1}L_{1}L_{3}R_{1}R_{2}R_{3}g_{m}+C_{1}L_{1}L_{3}R_{1}R_{3}\right)+s\left(L_{3}R_{1}R_{2}R_{3}g_{m}+L_{3}R_{1}R_{3}\right)$

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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, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 C_3 L_1 L_3 R_1 R_2 g_m + C_1 L_1 L_3 R_1\right) + s^3 \left(C_1 L_1 L_3 R_1 R_2 g_m + C_1 L_1 L_3 R_1\right) + s^2 \left(C_1 L_1 R_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 + C_3 L_3 R_1 R_2 R_3 g_m + C_3 L_3 R_1 R_3\right) + s \left(L_3 R_1 R_2 g_m + L_3 R_1\right)}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_3 L_1 L_3 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_3 + C_1 L_1 R_
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, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 C_3 L_1 L_3 R_1 R_3\right) + s^2 \left(C_1 L_1 R_1 R_2 R_3 g_m + C_1 L_1 R_1 R_3 + C_3 L_3 R_1 R_2 R_3 g_m + C_3 L_3 R_1 R_3\right)}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s^4 \left(C_1 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_1 + C_1 C_3 L_1 L_3 R_3\right) + s^3 \left(C_1 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_3 L_1 R_1 R_3 + 
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                    H(s) = \frac{C_1C_2L_1R_1R_3s^3 + C_1L_1R_1R_3g_ms^2 + C_2R_1R_3s + R_1R_3g_m}{R_1q_m + s^3\left(C_1C_2L_1R_1 + C_1C_2L_1R_3\right) + s^2\left(C_1C_2R_1R_3 + C_1L_1R_1q_m + C_1L_1\right) + s\left(C_1R_1 + C_2R_1 + C_2R_3\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}, \frac{1}{C_3s}, \infty, \infty, \infty\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_3L_1R_1s^4 + s^3\left(C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1\right) + s\left(C_2 + C_3R_1g_m + C_3\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}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
                                                                    H(s) = \frac{C_1C_2L_1R_1R_3s^3 + C_1L_1R_1R_3g_ms^2 + C_2R_1R_3s + R_1R_3g_m}{C_1C_2C_3L_1R_1R_3s^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_2L_1R_3 + C_1C_3L_1R_1R_3g_m + C_1C_3L_1R_3\right) + s^2\left(C_1C_2R_1R_3 + C_1C_3R_1R_3 + C_1L_1R_1g_m + C_1L_1 + C_2C_3R_1R_3\right) + s\left(C_1R_1 + C_2R_1 + C_2R_3 + C_3R_1R_3g_m + C_3R_3\right) + 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}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                                                                                                                          H(s) = \frac{C_1C_2C_3L_1R_1R_3s^4 + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_1C_3L_1R_1R_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_3R_1R_3\right) + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{s^4\left(C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_3\right) + s^3\left(C_1C_2C_3R_1R_3 + C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1 + C_2C_3R_3\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}
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}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                                                                                                                       H(s) = \frac{C_1C_2C_3L_1L_3R_1s^5 + C_1C_3L_1L_3R_1g_ms^4 + C_2R_1s + R_1g_m + s^3\left(C_1C_2L_1R_1 + C_2C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m\right)}{C_1C_2C_3L_1L_3s^5 + s^4\left(C_1C_2C_3L_1R_1 + C_1C_2C_3L_3R_1\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1\right) + s\left(C_2 + C_3R_1g_m + C_3\right)}
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}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)
                                                                 H(s) = \frac{C_1C_2L_1L_3R_1s^4 + C_1L_1L_3R_1g_ms^3 + C_2L_3R_1s^2 + L_3R_1g_ms}{C_1C_2C_3L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2L_1L_3 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3\right) + s^3\left(C_1C_2L_1R_1 + C_1C_2L_3R_1 + C_1C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_2R_1\right) + 1}{c_1C_2C_3L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2L_1L_3 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1R_1\right) + s^3\left(C_1C_2L_1R_1 + C_1C_3L_3R_1 + C_1C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s\left(C_1R_1 + C_2R_1\right) + 1}{c_1C_2C_3L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2L_1L_3 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1R_1\right) + s^3\left(C_1C_2L_1R_1 + C_1C_3L_3R_1 + C_1C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_3 + C_3L_3R_1g_m + C_3L_3\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_3 + C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_1\right) + s^2\left(C_1L_1R_1g_m + C_1L_1 + C_2L_1\right) + s^2\left(C_1L_1R_1g_m
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}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
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 $H(s) = \frac{C_1C_2C_3L_1L_3R_1s^5 + R_1g_m + s^4\left(C_1C_2C_3L_1R_1R_3 + C_1C_3L_1L_3R_1g_m\right) + s^3\left(C_1C_2L_1R_1 + C_1C_3L_1R_1g_m + C_2C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_2C_3R_1R_3 + C_3L_3R_1g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{C_1C_2C_3L_1L_3s^5 + s^4\left(C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_3 + C_1C_2C_3R_1R_3 + C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_1C_3L_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1 + C_2C_3R_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1\right) + s^2\left(C_1C_2R_1 + C_1C_3$

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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}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2L_1L_3R_1R_3s^4 + C_1L_1L_3R_1R_3g_ms^3 + C_2L_3R_1R_3s^2 + L_3R_1R_3g_ms}{C_1C_2C_3L_1L_3R_1R_3s^5 + R_1R_3g_m + R_3 + s^4\left(C_1C_2L_1L_3R_1 + C_1C_2L_1L_3R_3 + C_1C_3L_1L_3R_3\right) + s^3\left(C_1C_2L_1R_1R_3 + C_1C_3L_3R_1R_3 + C_1L_1L_3R_1g_m + C_1L_1L_3 + C_2C_3L_3R_1R_3\right) + s^2\left(C_1L_1R_1R_3g_m + C_1L_1R_3g_m + C_1L_1R_3
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}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_3R_1R_3s^5 + R_1R_3g_m + s^4\left(C_1C_2L_1L_3R_1 + C_1C_3L_1L_3R_1R_3g_m\right) + s^3\left(C_1C_2L_1R_1R_3 + C_1L_1L_3R_1g_m + C_2C_3L_3R_1R_3\right) + s^2\left(C_1L_1R_1R_3g_m + C_2L_3R_1 + C_3L_3R_1R_3g_m\right) + s\left(C_2R_1R_3 + L_3R_1g_m\right)}{R_1g_m + s^5\left(C_1C_2C_3L_1L_3R_1 + C_1C_2L_1L_3 + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3\right) + s^3\left(C_1C_2L_1R_1 + C_1C_2L_1R_3 + C_1
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}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_3R_1R_3s^5 + C_1C_3L_1L_3R_1R_3g_ms^4 + C_2R_1R_3s + R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_3 + C_2C_3L_3R_1R_3\right) + s^2\left(C_1L_1R_1R_3g_m + C_3L_3R_1R_3g_m\right)}{R_1g_m + s^5\left(C_1C_2C_3L_1L_3R_1 + C_1C_2L_3L_1R_3 + C_1C_3L_1R_3 + C_1
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                   H(s) = \frac{C_1C_2L_1R_1R_2R_3s^3 + C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_1L_1R_1R_2R_3g_m + C_1L_1R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_3\right) + s\left(C_1R_1R_2 + C_1R_1R_3 + C_2R_1R_2 + C_2R_2R_3\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}, \frac{1}{C_3s}, \infty, \infty, \infty\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_3L_1R_1R_2s^4 + s^3\left(C_1C_2L_1R_2 + C_1C_3L_1R_1R_2g_m + C_1C_3L_1R_1 + C_1C_3L_1R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_1L_1 + C_2C_3R_1R_2\right) + s\left(C_1R_1 + C_2R_2 + C_3R_1R_2g_m + C_3R_1 + C_3R_2\right) + 1}
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}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2L_1R_1R_2R_3s^3 + C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^2\left(C_1L_1R_1R_2R_3g_m + C_1L_1R_1R_3\right)}{C_1C_2C_3L_1R_1R_2R_3s^4 + R_1R_2g_m + R_1 + R_2 + R_3 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_2R_3 + C_1C_3L_1R_1R_3 + C_1C_3L_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_1R_3 + C_2C_3R_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3 + C_1C_3R_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_3\right) + s^2\left(C_1C_2R_1R_2R_3 + C_1C_2R_1R_2R_3\right) + 
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}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1R_1R_2R_3s^4 + R_1R_2g_m + R_1 + s^3\left(C_1C_2L_1R_1R_2 + C_1C_3L_1R_1R_2R_3g_m + C_1L_1R_1 + C_2C_3R_1R_2R_3\right) + s\left(C_2R_1R_2 + C_3R_1R_2R_3g_m + C_3R_1R_3\right)}{s^4\left(C_1C_2C_3L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_1R_1 + C_1C_3L_1R_1 + C_1C_3L_1R_3\right) + s^2\left(C_1C_2R_1R_2 + C_1C_3R_1R_2 + C_1C_3R_1R_2 + C_1C_3R_1R_3 + C_1L_1 + C_2C_3R_1R_2 + C_1C_3R_1R_2 + C_1C_3R_1R_3 + C_1C_3R_
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}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_3R_1R_2s^5 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^4\left(C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_2C_3L_3R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1\right)}{C_1C_2C_3L_1L_3R_2s^5 + s^4\left(C_1C_2C_3L_1R_1R_2 + C_1C_3L_1R_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_3L_3R_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_3L_3R_1R_2g_m + C_3L_3R_1\right)} + s^3\left(C_1C_2L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_1R_1 + C_1C_3L_1R_1
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 $H(s) = \frac{C_1C_2L_1L_3R_1R_2s^4 + C_2L_3R_1R_2s^2 + s^3\left(C_1L_1L_3R_1R_2g_m + C_1L_1L_3R_1\right) + s\left(L_3R_1R_2g_m + L_3R_1\right)}{C_1C_2C_3L_1L_3R_1R_2s^5 + R_1R_2g_m + R_1 + R_2 + s^4\left(C_1C_2L_1L_3R_2 + C_1C_3L_1L_3R_1 + C_1C_3L_1L_3R_2\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_3L_3R_1R_2 + C_1C_3L_3R_1R_2 + C_1L_1L_3 + C_2C_3L_3R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_3R_1 + C_2L_3R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_3R_1 + C_2L_3R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_1 + C_1L_1R_1 + C_1L_1R_1 + C_1L_1R_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1R_2 + C_1L_1R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1R_2 + C_1L_1R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_1 + C_1L_1R_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_1 + C_1L_1R_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1R_2 + C_1L_1R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1R_2\right) + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_2\right) + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1 + C_1L_1R_1\right) + s^2\left(C_1L_1R_1R_2 + C_1L_1R_1R_2\right) +$

10.774 INVALID-ORDER-774 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2}{C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$

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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}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
 H(s) = \frac{C_1C_2C_3L_1L_3R_1R_2s^5 + R_1R_2g_m + R_1 + s^4\left(C_1C_2C_3L_1R_1R_2R_3 + C_1C_3L_1L_3R_1\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_1R_1R_3 + C_2C_3L_3R_1R_2\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2C_3R_1R_2\right)}{C_1C_2C_3L_1L_3R_2s^5 + s^4\left(C_1C_2C_3L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_1R_1R_2 + C_1C_3L_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}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   H(s) = \frac{C_1C_2L_1L_3R_1R_2R_3s^5 + C_2L_3R_1R_2R_3s^5 + C_2L_3R_1R_2R_3s^5 + C_2L_3R_1R_2R_3s^5 + C_2L_3R_1R_2R_3s^5 + C_1L_1L_3R_1R_2R_3s^5 + C_1C_2L_1L_3R_1R_2R_3s^5 + C_1C_2L_1L
 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}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
 H(s) = \frac{C_1C_2C_3L_1L_3R_1R_2R_3s^5 + R_1R_2R_3g_m + R_1R_3 + s^4\left(C_1C_2L_1L_3R_1R_2 + C_1C_3L_1L_3R_1R_2R_3g_m + C_1C_3L_1L_3R_1R_3\right) + s^3\left(C_1C_2L_1R_1R_2R_3 + C_1L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1R_2 + C_1C_3L_1L_3R_1R_2 + C_1C_3L_1L_3R_1R_2 + C_1C_3L_1L_3R_1 + C_1C_3L_3R_1 + C
 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}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C_{1}C_{2}C_{3}L_{1}L_{3}R_{1}R_{2}R_{3}s^{5} + C_{2}R_{1}R_{2}R_{3}s + R_{1}R_{2}R_{3}g_{m} + R_{1}R_{3} + s^{4}\left(C_{1}C_{3}L_{1}R_{2}R_{3}s^{5} + C_{2}R_{1}R_{2}R_{3}s^{5} + C_{2}R_{1}R_{2}R_{3}
                                                  \frac{C_1C_2C_3L_1L_3n_1n_2n_3s^2 + C_2n_1n_2n_3s + n_1n_2n_3y_m + n_1n_3 + s + C_1C_3L_1L_3n_1n_2n_3s^2 + C_2n_1n_2n_3s + n_1n_2n_3y_m + n_1n_3 + s + C_1C_3L_1L_3n_1n_2n_3s^2 + C_2n_1n_2n_3s + n_1n_2n_3y_m + n_1n_3 + s + C_1C_3L_1L_3n_1n_2n_3s^2 + C_2n_1n_2n_3s^2 + C_2n_1n_2n_3s + n_1n_2n_3y_m + n_1n_3 + s + C_1C_3L_1L_3n_1n_2n_3s^2 + C_2n_1n_2n_3s^2 + C_2n_1n_2n_3s^2 + C_2n_1n_2n_3s + n_1n_2n_3y_m + n_1n_3 + s + C_1C_3L_1L_3n_1n_2n_3s^2 + C_1C_2L_1L_3n_1n_2n_3s^2 + C_2n_1n_2n_3s^2 + C_2n_1n_2n
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                                                    H(s) = \frac{C_1L_1R_1R_3g_ms^2 + R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_2R_3g_m + C_1C_2L_1R_1R_3\right) + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3\right)}{R_1g_m + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_1C_2L_1R_3\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_1L_1R_1g_m + C_1L_1\right) + s\left(C_1R_1 + C_2R_1R_2g_m + C_2R_1 + C_2R_2 + C_2R_3\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}, \frac{1}{C_3s}, \infty, \infty, \infty\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_3L_1R_1R_2g_m + C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_2\right) + s^3\left(C_1C_2C_3R_1R_2 + C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1R_2g_m + C_2C_3R_1R_2g_m + C_2C_3R_1 + C_2C_3R_1\right) + s\left(C_2R_1R_2g_m + C_2C_3R_1R_2g_m + C_2C_3R_1R_2g_
 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}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C_{1}L_{1}R_{1}R_{3}g_{m}s^{2} + R_{1}R_{3}g_{m} + s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}R_{3}g_{m} + C_{1}C_{2}L_{1}R_{1}R_{3}\right) + s\left(C_{2}R_{1}R_{2}R_{3}g_{m} + C_{2}R_{1}R_{3}\right)
 H(s) = \frac{C_1L_1R_1R_3g_ms^2 + R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_2R_3g_m + C_1C_2L_1R_1R_3\right) + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3\right)}{R_1g_m + s^4\left(C_1C_2C_3L_1R_1R_2R_3g_m + C_1C_2L_1R_1R_3\right) + s^3\left(C_1C_2C_3R_1R_2R_3 + C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_1C_2L_1R_3 + C_1C_3L_1R_3\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_1C
 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}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
                                                      \frac{R_{1}g_{m}+s^{4}\left(C_{1}C_{2}C_{3}L_{1}R_{1}R_{2}R_{3}g_{m}+C_{1}C_{2}C_{3}L_{1}R_{1}R_{3}\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_{3}L_{1}R_{1}R_{3}g_{m}\right)+s^{2}\left(C_{1}L_{1}R_{1}g_{m}+C_{2}C_{3}R_{1}R_{2}\right)+s\left(C_{2}R_{1}R_{2}g_{m}+C_{2}R_{1}+C_{3}R_{1}R_{3}g_{m}\right)}{s^{4}\left(C_{1}C_{2}C_{3}L_{1}R_{1}+C_{1}C_{2}C_{3}L_{1}R_{1}+C_{1}C_{2}C_{3}L_{1}R_{3}\right)+s^{3}\left(C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R_{1}R_{2}+C_{1}C_{2}C_{3}R
 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}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)
   H(s) = \frac{C_1C_3L_1L_3R_1g_ms^4 + R_1g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_2g_m + C_1C_2C_3L_1L_3R_1\right) + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_2C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_3L_3R_1g_m\right) + s\left(C_2R_1R_2g_m + C_2R_1\right)}{C_1C_2C_3L_1R_1R_2g_m + C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_2 + C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_2C_3L_3\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2 + C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2 + C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_2 + C_1C_3R_1 + C_2C_3R_1R_2 + C_1C_3R_1 + C_2C_3R_1R_2 + C_1C_3R_1 + C_2C_3R_1R_2 + C_1C_3R_1 + C_2C_3R_1 +
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10.784 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}, \ \frac{L_3s}{C_3L_3s^2+1}, \ \infty, \ \infty, \ \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C_{1}L_{1}L_{3}R_{1}g_{m}s^{3} + L_{3}R_{1}g_{m}s + s^{4}\left(C_{1}C_{2}L_{1}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{3}R_{1}\right) + s^{2}\left(C_{2}L_{3}R_{1}R_{2}g_{m} + C_{2}L_{3}R_{1}\right) + s^{2}\left(C_{2}L_{3}R_{1}R_{2}g_{m} + C_{2}L_{3}R_
H(s) = \frac{C_1L_1L_3R_1g_ms^3 + L_3R_1g_ms + s^4\left(C_1C_2L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1\right) + s^2\left(C_2L_3R_1R_2g_m + C_2L_3R_1\right)}{R_1g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_2g_m + C_1C_2L_1L_3 + C_1C_3L_1L_3R_1g_m + C_1C_3L_1L_3\right) + s^4\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_1C_2L_1R_1 + C_1C_2L_1R_1 + C_1C_2L_3R_1 + C_1C_3L_3R_1 + C_2C_3L_3R_1 + C_2C_3L_3R_
10.785 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}, \ L_3s + R_3 + \frac{1}{C_3s}, \ \infty, \ \infty, \ \infty\right)
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}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
H(s) = \frac{C_1 L_1 L_3}{R_1 R_3 g_m + R_3 + s^5 \left(C_1 C_2 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_3 R_1 R_3 + C_1 C_2 C_3 L_1 L_3 R_1 R_2 R_3 + C_1 C_2 L_1 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_3 R_1 + C_1 C_2 L_1 L_3 R_2 + C_1 C_2 L_1 L_3 R_3 + C_1 C_2 L_1 L_3 
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}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
                                         R_{1}R_{3}g_{m} + s^{5}\left(C_{1}C_{2}C_{3}L_{1}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}C_{3}L_{1}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{3}R_{1}R_{3}g_{m}\right) + s^{3}\left(C_{1}C_{2}L_{1}R_{1}R_{2}R_{3}g_{m} + C_{1}C_{2}L_{1}R_{1}R_{3} + C_{1}L_{1}L_{3}R_{1}g_{m} + C_{2}L_{1}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}R_{1}R_{2}g_{m} + C_{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}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C_1C_3L_1L_3R_1R_3g_ms^4 + R_1R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_2R_3g_m\right)
H(s) = \frac{\frac{C_1 C_3 L_1 L_3 I_4 I_4 I_3 g_m s - + I_6 I_4 I_6 g_m + s^5 \left(C_1 C_2 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_1 + C_1 C_2 C_3 L_1 L_3 R_2 + C_1 C_2 C_3 L_1 L_3 R_3 + C_1 C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_1 R_3 + C_1 C
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}, R_3, \infty, \infty, \infty\right)
                                                                                                                                                                                       H(s) = \frac{C_1C_2L_1L_2R_1R_3g_ms^4 + C_1C_2L_1R_1R_3s^3 + C_2R_1R_3s + R_1R_3g_m + s^2\left(C_1L_1R_1R_3g_m + C_2L_2R_1R_3g_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_3 + C_1C_2L_2R_1\right) + s^2\left(C_1C_2R_1R_3 + 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_3\right) + 1}
10.790 INVALID-ORDER-790 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}, \frac{1}{C_3s}, \infty, \infty, \infty\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_3L_1L_2R_1g_m + C_1C_2C_3L_1L_2\right) + s^4\left(C_1C_2C_3L_1R_1 + C_1C_2C_3L_2R_1\right) + s^3\left(C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1 + C_2C_3L_2R_1g_m + C_2C_3L_2\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1\right) + s\left(C_1C_2C_3L_1R_1 + C_1C_3R_1 + C_2C_3R_1\right) + s\left(C_1C_2C_3R_1 + C_1C_3R_1 + C_2C_3R_1\right) + s\left(C_1C_2R_1 + C_1C_2R_1 + C_1C_2R_1\right) + s\left(C_1C_2R_1 + C_1C_2R_1 + C_1C_2R_1\right) + s\left(C_1C_2R_1 + C_1C_2R_1 + C_1C_2R_1
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}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C_{1}C_{2}L_{1}L_{2}R_{1}R_{3}g_{m}s^{4} + C_{1}C_{2}L_{1}R_{1}R_{3}s^{3} + C_{2}R_{1}R_{3}s + R_{1}R_{3}g_{m} + s^{2}\left(C_{1}L_{1}R_{1}R_{3}g_{m} + C_{2}L_{2}R_{1}R_{3}g_{m}\right)
                                           \frac{C_1C_2L_1L_2R_1R_3g_ms^2 + C_1C_2L_1R_1R_3s^2 + C_2R_1R_3s + R_1R_3g_m + s^2(C_1L_2R_1R_3g_m + s^2(C_1L_2R_1R_3g_m + s^2(C_1L_2R_1R_3g_m + C_1L_2R_1R_3g_m + C_2L_2R_1R_3g_m + C_2L_2R_1R_3g
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 $H(s) = \frac{C_1C_2C_3L_1L_2R_1R_3g_ms^5 + R_1g_m + s^4\left(C_1C_2C_3L_1R_1R_3 + C_1C_2L_1L_2R_1g_m\right) + s^3\left(C_1C_2L_1R_1 + C_1C_3L_1R_1R_3g_m + C_2C_3L_2R_1R_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_3R_1R_3 + C_2L_2R_1g_m\right) + s\left(C_2R_1 + C_3R_1R_3g_m\right)}{s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2C_3L_1R_1 + C_1C_2C_3L_1R_3 + C_1C_2C_3L_1R_3 + C_1C_2L_1 + C_1C_3L_1R_1g_m + C_1C_3L_1R_1g_m + C_2C_3L_2R_1g_m + C_2C_3L_2\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1 + C_2C_3R_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1 + C_2C_3R_1R_3 + C_2C_3R_1R_$

10.792 INVALID-ORDER-792 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + \frac{1}{C_2s}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

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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}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1g_ms^6 + C_1C_2C_3L_1L_3R_1s^5 + C_2R_1s + R_1g_m + s^4\left(C_1C_2L_1L_2R_1g_m + C_1C_3L_1L_3R_1g_m\right) + s^3\left(C_1C_2L_1R_1 + C_2C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_2L_2R_1g_m + C_3L_3R_1g_m\right)}{s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2C_3L_1L_3\right) + s^4\left(C_1C_2C_3L_1R_1 + C_1C_2C_3L_2R_1\right) + s^3\left(C_1C_2L_1R_1 + C_2C_3L_2R_1g_m + C_2C_3L_2R_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1R_1g_m + C_2C_3L_2R_1g_m + C_2C_3L_2R_1g_m + C_2C_3L_2R_1\right) + s^2\left(C_1C_2R_1 + C_1C_3R_1R_1g_m + C_2C_3L_2R_1g_m + C_2C_3L
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}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}g_{m}s^{5} + C_{1}C_{2}L_{1}L_{3}R_{1}s^{4} + C_{2}L_{3}R_{1}s^{2} + L_{3}R_{1}g_{m}s + s^{3}\left(C_{1}L_{1}L_{3}R_{1}g_{m} + C_{2}L_{2}L_{3}R_{1}g_{m}\right)
H(s) = \frac{C_1C_2L_1L_2R_3g_ms^5 + C_1C_2L_1L_3R_1s^4 + C_2L_3R_1s^2 + L_3R_1g_ms + s^3\left(C_1L_1L_3R_1g_m + C_2L_2L_3R_1g_m\right)}{R_1g_m + s^6\left(C_1C_2C_3L_1L_2L_3R_1g_m + C_1C_2L_1L_2 + C_1C_2L_1L_2 + C_1C_2L_1L_3 + C_1C_3L_1L_3 + C_2C_3L_2L_3R_1g_m + C_2C_3L_2L_3\right) + s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2L_1L_2 + C_1C_2L_1L_2 + C_1C_2L_1L_3 + C_1C_3L_1L_3 + C_2C_3L_2L_3R_1g_m + C_2C_3L_2L_3\right) + s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2L_1L_2 + C_1C_2L_1L_2 + C_1C_2L_1L_3 + C_1C_3L_1L_3 + C_2C_3L_2L_3R_1g_m + C_2C_3L_2L_3\right) + s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2L_1L_2 + C_1C_2L_1L_2 + C_1C_3L_1L_3 + C_2C_3L_2L_3R_1g_m + C_2C_3L_2L_3\right) + s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2L_1L_2 + C_1C_3L_1L_3 + C_1C_3L_1L_3 + C_2C_3L_2L_3\right) + s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2L_1L_2 + C_1C_3L_1L_3 + C_1C_3L_1L_3 + C_1C_3L_1L_3\right) + s^5\left(C_1C_2C_3L_1L_3R_1 + C_1C_2L_3R_1g_m + C_1C_3L_1L_3 + C_1C_3L_1L_3\right) + s^5\left(C_1C_2C_3L_1L_3R_1 + C_1C_3L_1L_3 + C_1C_3L_1L_3\right) + s^5\left(C_1C_2C_3L_1L_3R_1 + C_1C_3L_1L_3 + C_1C_3L_1L_3\right) + s^5\left(C_1C_2C_3L_1L_3R_1 + C_1C_3L_1L_3\right) + s^5\left(C_1C_3L_1L_3R_1 + 
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}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_3L_1L_2R_1R_3g_m + C_1C_2C_3L_1L_3R_1\right) + s^4\left(C_1C_2C_3L_1R_1R_3 + C_1C_2L_1L_2R_1g_m + C_1C_3L_1R_1g_m + C_2C_3L_2R_1R_3g_m + C_2C_3L
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}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)
                                               \frac{-c_1c_2L}{R_1R_3g_m + R_3 + s^6\left(C_1C_2C_3L_1L_2L_3R_1R_3g_m + C_1C_2C_3L_1L_2L_3R_3\right) + s^5\left(C_1C_2C_3L_1L_3R_1R_3 + C_1C_2L_1L_2R_3R_1R_3 + C_1C_2L_1L_2R_3R_3R_3 + C_1C_2L_1L_2R_3R_3R_3 + C_1C_2L_1L_2R_3R_3R_3 + C_1C_2L_1L_3R_3 + C_1C_2L_1L
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}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1R_3g_ms^6 + R_1R_3g_m + s^5\left(C_1C_2C_3L_1L_2R_1R_3g_m + C_1C_2L_1L_2R_1R_3g_m + C_1C_2L_1L_3R_1 + C_1C_3L_1L_3R_1R_3g_m + C_2C_3L_2L_3R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_3g_m + C_1C_2L_1L_2R_1R_3g_m + C_1C_2L_1L_3R_1 + C_1C_2L_1L_3R_1R_3g_m + C_1C_2L_1L_3R_1g_m + C_1C_2L_1L_3R_1R_3g_m + C_1
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}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1R_3g_ms + C_1C_2C_3L_1L_3R_1R_3g_ms + C_1C_2C_3L_1L_3R_1R_3g_ms + C_1C_2C_3L_1L_3R_1R_3s + C_2R_1R_3s + C_1C_2C_3L_1L_3R_1R_3s + C_1C_2C_3L_1L_3R_1 + C_1C_2C_3L_1L_3R_3 + C_1C_2C_3L_1L_3R
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}, R_3, \infty, \infty, \infty\right)
H(s) = \frac{C_1C_2L_1L_2R_1R_3g_ms^4 + R_1R_3g_m + s^3\left(C_1C_2L_1R_1R_2R_3g_m + C_1C_2L_1R_1R_3\right) + s^2\left(C_1L_1R_1R_3g_m + C_2L_2R_1R_3g_m\right) + s\left(C_2R_1R_2R_3g_m + C_2R_1R_3\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_1R_2g_m + C_1C_2L_1R_1 + C_1C_2L_1R_3 + C_1C_2L_2R_1\right) + s^2\left(C_1C_2R_1R_2 + C_1C_2R_1R_3 + C_1L_1R_1g_m + C_1L_1 + C_2L_2R_1g_m + C_2L_2\right) + s\left(C_1R_1 + C_2R_1R_2g_m + C_2R_1 + C_2R_1R_3 + C_2R_1R_3\right) + s^2\left(C_1R_1R_2R_3g_m + C_2R_1R_3g_m + C_2R_1R_3g_m + C_2R_1R_3\right) + s^2\left(C_1R_1R_2R_3g_m + C_2R_1R_3g_m + C_2R_1R_
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}, \frac{1}{C_3s}, \infty, \infty, \infty\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_{3}L_{1}L_{2}R_{1}g_{m}+C_{1}C_{2}C_{3}L_{1}R_{1}+C_{1}C_{2}C_{3}L_{1}R_{1}+C_{1}C_{2}C_{3}L_{2}R_{1}\right)+s^{3}\left(C_{1}C_{2}C_{3}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}g_{m}+C_{1}C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}R_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+C_{2}C_{3}L_{1}+
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}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)
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 $H(s) = \frac{C_1 C_2 L_1 L_2 R_1 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_1 R_3 g_m + C_1 C_2 C_3 L_1 R_2 R_3 + C_1 C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 R_2 R_3 + C_1 C_2 C_3 L_1 R_2 R_3 + C_1 C_2 L_1 R_2 R_3 + C_1 C_2 L_1 R_1 R_2 R_3 g_m + C_1 C_2 L_1 R_1 R_2 R_3 g_m + C_1 C_2 L_1 R_2 R_3 + C_1 C_2 L_1 R_1 R_2 R_3 g_m + C_1 C_2 L_1 R_2 R_3 g_m + C_1 C_2 L$

 $C_1C_2L_1L_2R_1R_3g_ms^4 + R_1R_3g_m + s^3(C_1C_2L_1R_1R_2R_3g_m)$

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10.802 INVALID-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}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)
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 $H(s) = \frac{C_1C_2C_3L_1L_2R_1R_3g_ms^5 + R_1g_m + s^4\left(C_1C_2C_3L_1R_1R_2R_3g_m + C_1C_2L_1L_2R_1g_m\right) + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_1C_3L_1R_1R_3g_m + C_2C_3L_2R_1R_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_3R_1R_2R_3g_m + C_2C_3R_1R_3 + C_2R_2R_1R_3g_m\right) + s^2\left(C_1L_1R_1g_m + C_2C_3R_1R_3 + C_$

10.803 INVALID-ORDER-803
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_2g_m + C_1C_2C_3L_1L_3R_1\right) + s^4\left(C_1C_2L_1L_2R_1g_m + C_1C_3L_1L_3R_1g_m + C_2C_3L_2L_3R_1g_m\right) + s^3\left(C_1C_2L_1R_1R_2g_m + C_1C_2L_1R_1 + C_2C_3L_3R_1R_2g_m + C_2C_3L_3R_1\right) + s^2\left(C_1L_1R_1g_m + C_2C_3L_1L_2R_1g_m + C_1C_2C_3L_1R_1 + C_2C_3L_1R_1 + C_2C_3L_$

10.804 INVALID-ORDER-804
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2L_1L_2L_3R_1g_ms^5 + L_3R_1g_ms + s^4\left(C_1C_2L_1L_3R_1g_ms + s^4\left(C_1C_2L_1L_3R_1g_ms + s^4\left(C_1C_2L_1L_3R_1R_2g_m + C_1C_2C_3L_1L_3R_1g_m + C_1C_2L_1L_3R_1g_m + s^4\left(C_1C_2C_3L_1L_3R_1g_m + C_1C_2L_1L_3R_1g_m + C_1C_2L_1L_$

10.805 INVALID-ORDER-805
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1g_ms^6 + R_1g_m + s^5\left(C_1C_2C_3L_1L_2R_1R_3g_m + C_1C_2C_3L_1L_3R_1R_2g_m + C_1C_2C_3L_1R_1R_2g_m + C_1C_2C_3L_1R_1R_2R_3g_m + C_1C_2C_3L_1R_1R_2R_3g_m + C_1C_2C_3L_1R_1R_3 + C_1C_2C_3L_1R_1R_3 + C_1C_2C_3L_1R_1R_3 + C_1C_2C_3L_1R_1R_2g_m + C_1C_2C_3L_1R_1R_2g_m + C_1C_2C_3L_1R_1R_2g_m + C_1C_2C_3L_1R_1R_2g_m + C_1C_2C_3L_1R_1 + C_1C_2C_$

10.806 INVALID-ORDER-806
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \ L_2s + R_2 + \frac{1}{C_2s}, \ \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \ \infty, \ \infty, \ \infty\right)$$

 $H(s) = \frac{1}{R_1 R_3 g_m + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_3 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_3 \right) + s^5 \left(C_1 C_2 C_3 L_1 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_3 R_1 R_3 + C_1 C_2 C_3 L_1 L_3 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 L_3$

10.807 INVALID-ORDER-807
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2C_3L_1L_2L_3R_1R_3g_ms^6 + R_1R_3g_m + s^5\left(C_1C_2C_3L_1L_3R_1R_3 + C_1C_2L_1L_2R_1R_3g_m + C_1C_2L_1L_2R_1R_3g_m + C_1C_2L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1R_2g_m + C_1C_2L_1L_3R_1R_2g_m + C_1C_2C_3L_1L_3R_1 + C_1C_2C_$

10.808 INVALID-ORDER-808
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, L_2s + R_2 + \frac{1}{C_2s}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{1}{R_1 g_m + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 g_m + C_1 C_2 C_3 L_1 L_2 L_3 \right) + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_3 g_m + C_1 C_2 C_3 L_1 L_3 R_1 R_2 g_m + C_1 C_2 C_3 L_1 L_3 R_1 + C_1 C_2 C_3 L_1 L_3 R_3 + C_1 C$

10.809 INVALID-ORDER-809
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, R_3, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1L_1L_2R_1R_3g_ms^3 + L_2R_1R_3g_ms + R_1R_2R_3g_m + R_1R_3 + s^4\left(C_1C_2L_1L_2R_1R_3g_m + C_1L_2R_1R_3g_m + C_1L_1R_1R_3 + C_2L_2R_1R_2R_3g_m + C_1L_1R_1R_3 + C_2L_2R_1R_3g_m + C_2L_2R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1L_2R_1R_2g_m + C_1L_1R_1R_2g_m + C_1L_1R_1R_2g_m + C_1L_1R_1 + C_1L_1R_2 + C_1L_2R_1R_2g_m + C_2L_2R_1R_3\right)}$

10.810 INVALID-ORDER-810
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{1}{C_3s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1L_1L_2R_1g_ms^3 + L_2R_1g_ms + R_1R_2g_m + R_1 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_2R_1R_2g_m + C_2L_2R_1\right)}{s^5\left(C_1C_2C_3L_1L_2R_1g_m + C_1C_2L_1L_2 + C_1C_3L_1R_2g_m + C_1C_3L_1R_1 + C_1C_3L_1R_2 + C_1C_3L_1R_1 + C_1C_3$

10.811 INVALID-ORDER-811
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{1}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s^5 \left(C_1 C_2 C_3 L_1 L_2 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 R_1 R_3 + C_1 C_2 L_1 L_2 R_3 + C_1 C_2 L_1 L_2 R_1 R_2 g_m + C_1 C_2 L_1 L_2 R_1 + C_1 C_2 L_1 L_2 R_2 + C_1 C_2 L_1 L_2 R_3 + C_1 C_3 L_1 L_2 R_1 R_3 g_m + C_1 C_3 L_1 L_2 R_3 + C_1 C_2 L_1 L_2 R_$

10.812 INVALID-ORDER-812
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, R_3 + \frac{1}{C_3s}, \infty, \infty\right)$$

10.813 INVALID-ORDER-813
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_3L_1L_2L_3R_1g_ms^5 + L_2R_1g_ms + R_1R_2g_m + R_1 + s^6\left(C_1C_2C_3L_1L_2L_3R_1R_2g_m + C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_2R_1R_2g_m + C_1C_3L_1R_1R_2g_m + C$

10.814 INVALID-ORDER-814
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$$

 $\frac{C_1L_1L_2L_3R_1g_m}{R_1R_2g_m + R_1 + R_2 + s^6\left(C_1C_2C_3L_1L_2L_3R_1R_2g_m + C_1C_2C_3L_1L_2L_3R_1 + C_1C_2C_3L_1L_2L_3R_1\right) + s^5\left(C_1C_2C_3L_2L_3R_1R_2 + C_1C_2L_1L_2L_3 + C_1C_3L_1L_2L_3\right) + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 +$

10.815 INVALID-ORDER-815
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$$

10.816 INVALID-ORDER-816
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)$$

10.817 INVALID-ORDER-817
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$$

 $H(s) = \frac{R_1 R_2 R_3 g_m + R_1 R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_3\right) + s^5 \left(C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 g_m + C_1 C_2 L_1 L_2 L_3 R_1 R_2 + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_3 + C_1 C_2 L_1$ $R_{1}R_{2}R_{3}g_{m} + R_{1}R_{3} + s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}R_{3}g_{m} + C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{3}\right) + s^{5}\left(C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}\right) + s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}\right) + s^{6}\left(C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m} + C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}\right) + s^{6}\left(C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}\right) + s^{6}\left(C_{1}C_{2}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}\right) + s^{6}\left(C_{1}C_{2}L_{1}L_{2}L_{2}R_{1}R_{2}g_{m}\right) + s^{6}\left(C_{1}C_{2}L_{1}L_{2}L_{2}R_{1}R_{2}R_{2}g_{m}\right) + s^{6}\left(C_{1}C_{2}L_{1}L_{2}L_{2}R_{1}R_{2}R_{2}g_{$

10.818 INVALID-ORDER-818
$$Z(s) = \left(\frac{R_1\left(C_1L_1s^2+1\right)}{C_1L_1s^2+C_1R_1s+1}, \frac{L_2s}{C_2L_2s^2+1} + R_2, \frac{R_3\left(C_3L_3s^2+1\right)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$$

 $\overline{R_{1}R_{2}g_{m}+R_{1}+R_{2}+R_{3}+s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{2}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3}\right)+s^{5}\left(C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{3}R_{2}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{3}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}+C_{1}C_{2}C_{$

10.819 INVALID-ORDER-819
$$Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, R_3, \infty, \infty, \infty\right)$$

 $H(s) = \frac{C_1C_2L_1R_1R_2R_3s^3 + C_2R_1R_2R_3s + R_1R_2R_3g_m + R_1R_3 + s^4\left(C_1C_2L_1L_2R_1R_3\right) + s^2\left(C_1L_1R_1R_2R_3g_m + C_1L_1R_1R_3 + C_2L_2R_1R_2R_3g_m + C_2L_2R_1R_3\right)}{R_1R_2g_m + R_1 + R_2 + R_3 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_3\right) + s^3\left(C_1C_2L_1R_1R_2 + C_1C_2L_1R_2R_3 + C_1C_2L_1R_2R_3 + C_1L_1R_1R_2R_3g_m + C_1L_1R_1R_3R_3g_m + C_1L_1R_3R_3g_m + C_1L_1R_1R_3R_3g_m + C_1L_1R_1R_3R_3g_m + C_1L_1R_1R_$

10.820 INVALID-ORDER-820 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{1}{C_3s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2L_1R_1R_2s^3 + C_2R_1R_2s + R_1R_2g_m + R_1 + s^4\left(C_1C_2L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1\right) + s^2\left(C_1L_1R_1R_2g_m + C_1L_1R_1 + C_2L_2R_1R_2g_m + C_2L_2R_1\right)}{s^5\left(C_1C_2C_3L_1L_2R_1R_2g_m + C_1C_2L_2R_1 + C_1C_2$

10.821 INVALID-ORDER-821 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3}{C_3R_3s+1}, \infty, \infty, \infty\right)$

10.822 INVALID-ORDER-822 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

10.823 INVALID-ORDER-823 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, L_3s + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2C_3L_1L_2R_1R_2s + R_1R_2g_m + R_1 + s^6\left(C_1C_2C_3L_1L_2L_3R_1R_2g_m + C_1C_2C_3L_1L_2R_1R_2g_m + C_1C_2L_1L_2R_1 + C_1C_3L_1L_3R_1R_2g_m + C_1C_3L_1L_3R_1R_2g_m + C_1C_2L_3R_1R_2g_m + C_1C_2L_3R_1R_2g$

10.824 INVALID-ORDER-824 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1}, \infty, \infty, \infty\right)$

 $H(s) = \frac{C_1C_2L_1L_3R_1R_2s^4 + C_2L_3R_1}{R_1R_2g_m + R_1 + R_2 + s^6\left(C_1C_2C_3L_1L_2L_3R_1R_2g_m + C_1C_2C_3L_1L_2L_3R_1 + C_1C_2C_3L_1L_2L_3R_1 + C_1C_2C_3L_1L_2R_2 + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_2 + C_1C_2L_1L_2R_1 + C_1C_2L_1L_2R_2 +$

10.825 INVALID-ORDER-825 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, L_3s + R_3 + \frac{1}{C_3s}, \infty, \infty, \infty\right)$

 $\frac{R_{1}R_{2}g_{m}+R_{1}+s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{2}+C_{1}C_{2}C_{3}L$

10.826 INVALID-ORDER-826 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3R_3s}{C_3L_3R_3s^2+L_3s+R_3}, \infty, \infty, \infty\right)$

 $H(s) = \frac{1}{R_1 R_2 R_3 g_m + R_1 R_3 + R_2 R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 R_3 g_m + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_3 + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 R_3 + C_1 C_2 C_3 L_1 L_2 L_3 R_1 R_2 R_3 + C_1 C_2 L_1 L_2 L_2 R_1 R_2 R_3 + C_1 C_2 L_1 L_2 L_2 R_1 R_2 R_3 + C_1 C_2 L_2 L_2 L_2 R_2 R_3 + C_1$

10.827 INVALID-ORDER-827 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{L_3s}{C_3L_3s^2+1} + R_3, \infty, \infty, \infty\right)$

 $H(s) = \frac{1}{R_1 R_2 g_m + R_1 + R_2 + R_3 + s^6 \left(C_1 C_2 C_3 L_1 L_2 L_3 R_1 + C_1 C_2 C_3 L_$

10.828 INVALID-ORDER-828 $Z(s) = \left(\frac{R_1(C_1L_1s^2+1)}{C_1L_1s^2+C_1R_1s+1}, \frac{R_2(C_2L_2s^2+1)}{C_2L_2s^2+C_2R_2s+1}, \frac{R_3(C_3L_3s^2+1)}{C_3L_3s^2+C_3R_3s+1}, \infty, \infty, \infty\right)$

 $\overline{R_{1}R_{2}g_{m}+R_{1}+R_{2}+R_{3}+s^{6}\left(C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}R_{2}g_{m}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{1}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{2}+C_{1}C_{2}C_{3}L_{1}L_{2}L_{3}R_{3}\right)+s^{5}\left(C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{3}+C_{1}C_{2}C_{3}L_{1}L_{2}R_{1}R_{2}+C_$

11 PolynomialError