Filter Summary Report: TIA,simple,Z1,Z2

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Contents

1 Examined $H(z)$ for TIA simple Z1 Z2: $Z_1\left(Z_2 g_m + 1\right)$

$$H(z) = Z_1\left(Z_2 g_m + 1\right)$$

2 HP

3 BP

4 LP

5 BS

6 GE

7 AP

8 INVALID-NUMER

9 INVALID-WZ

10 INVALID-ORDER

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

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.2 INVALID-ORDER-2 $Z(s) = \left(R_1,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.3 INVALID-ORDER-3 $Z(s) = \left(R_1,\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.4 INVALID-ORDER-4 $Z(s) = \left(R_1,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.5 INVALID-ORDER-5 $Z(s) = \left(R_1,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.6 INVALID-ORDER-6 $Z(s) = \left(R_1,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.7 INVALID-ORDER-7 $Z(s) = \left(R_1,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.8 INVALID-ORDER-8 $Z(s) = \left(R_1,\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.9 INVALID-ORDER-9 $Z(s) = \left(L_1 s,\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.10 INVALID-ORDER-10 $Z(s) = \left(L_1 s,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.11 INVALID-ORDER-11 $Z(s) = \left(L_1 s,\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.12 INVALID-ORDER-12 $Z(s) = \left(L_1 s,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.13 INVALID-ORDER-13 $Z(s) = \left(L_1 s,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.14 INVALID-ORDER-14 $Z(s) = \left(L_1 s,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.15 INVALID-ORDER-15 $Z(s) = \left(L_1 s,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.16 INVALID-ORDER-16 $Z(s) = \left(L_1 s,\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.17 INVALID-ORDER-17 $Z(s) = \left(\frac{1}{C_1 s},\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.18 INVALID-ORDER-18 $Z(s) = \left(\frac{1}{C_1 s},\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.19 INVALID-ORDER-19 $Z(s) = \left(\frac{1}{C_1 s},\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.20 INVALID-ORDER-20 $Z(s) = \left(\frac{1}{C_1 s},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.21 INVALID-ORDER-21 $Z(s) = \left(\frac{1}{C_1 s},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.22 INVALID-ORDER-22 $Z(s) = \left(\frac{1}{C_1 s},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.23 INVALID-ORDER-23 $Z(s) = \left(\frac{1}{C_1 s},\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.24 INVALID-ORDER-24 $Z(s) = \left(\frac{1}{C_1 s},\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.25 INVALID-ORDER-25 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.26 INVALID-ORDER-26 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.27 INVALID-ORDER-27 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.28 INVALID-ORDER-28 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.29 INVALID-ORDER-29 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.30 INVALID-ORDER-30 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.31 INVALID-ORDER-31 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.32 INVALID-ORDER-32 $Z(s) = \left(\frac{R_1}{C_1 R_1 s+1},\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.33 INVALID-ORDER-33 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.34 INVALID-ORDER-34 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.35 INVALID-ORDER-35 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.36 INVALID-ORDER-36 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.37 INVALID-ORDER-37 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.38 INVALID-ORDER-38 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.39 INVALID-ORDER-39 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.40 INVALID-ORDER-40 $Z(s) = \left(R_1 + \frac{1}{C_1 s},\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.41 INVALID-ORDER-41 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.42 INVALID-ORDER-42 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.43 INVALID-ORDER-43 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.44 INVALID-ORDER-44 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.45 INVALID-ORDER-45 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.46 INVALID-ORDER-46 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.47 INVALID-ORDER-47 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.48 INVALID-ORDER-48 $Z(s) = \left(L_1 s + \frac{1}{C_1 s},\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.49 INVALID-ORDER-49 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.50 INVALID-ORDER-50 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.51 INVALID-ORDER-51 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.52 INVALID-ORDER-52 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.53 INVALID-ORDER-53 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.54 INVALID-ORDER-54 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.55 INVALID-ORDER-55 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.56 INVALID-ORDER-56 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1},\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.57 INVALID-ORDER-57 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.58 INVALID-ORDER-58 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.59 INVALID-ORDER-59 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.60 INVALID-ORDER-60 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.61 INVALID-ORDER-61 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.62 INVALID-ORDER-62 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.63 INVALID-ORDER-63 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.64 INVALID-ORDER-64 $Z(s) = \left(L_1 s + R_1 + \frac{1}{C_1 s},\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.65 INVALID-ORDER-65 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.66 INVALID-ORDER-66 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.67 INVALID-ORDER-67 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \frac{R_2}{C_2 R_2 s + 1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.68 INVALID-ORDER-68 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.69 INVALID-ORDER-69 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.70 INVALID-ORDER-70 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.71 INVALID-ORDER-71 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \frac{L_2 s}{C_2 L_2 s^2 + 1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.72 INVALID-ORDER-72 $Z(s) = \left(\frac{L_1 R_1 s}{C_1 L_1 R_1 s^2 + L_1 s + R_1},\ \frac{R_2\left(C_2 L_2 s^2 + 1\right)}{C_2 L_2 s^2 + C_2 R_2 s + 1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.73 INVALID-ORDER-73 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1,\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.74 INVALID-ORDER-74 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2 + 1} + R_1,\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.75 INVALID-ORDER-75 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1} + R_1,\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.76 INVALID-ORDER-76 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1} + R_1,\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.77 INVALID-ORDER-77 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1} + R_1,\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.78 INVALID-ORDER-78 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1} + R_1,\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.79 INVALID-ORDER-79 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1} + R_1,\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.80 INVALID-ORDER-80 $Z(s) = \left(\frac{L_1 s}{C_1 L_1 s^2+1} + R_1,\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.81 INVALID-ORDER-81 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ R_2,\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.82 INVALID-ORDER-82 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.83 INVALID-ORDER-83 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \frac{R_2}{C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.84 INVALID-ORDER-84 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty\right)$

$$H(s) = Z_1\left(Z_2 g_m + 1\right)$$

10.85 INVALID-ORDER-85 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ L_2 s + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty \right)$

$$H(s) = Z_1 \left(Z_2 g_m + 1 \right)$$

10.86 INVALID-ORDER-86 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ L_2 s + R_2 + \frac{1}{C_2 s},\ \infty,\ \infty,\ \infty,\ \infty \right)$

$$H(s) = Z_1 \left(Z_2 g_m + 1 \right)$$

10.87 INVALID-ORDER-87 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \frac{L_2 s}{C_2 L_2 s^2+1} + R_2,\ \infty,\ \infty,\ \infty,\ \infty \right)$

$$H(s) = Z_1 \left(Z_2 g_m + 1 \right)$$

10.88 INVALID-ORDER-88 $Z(s) = \left(\frac{R_1\left(C_1 L_1 s^2+1\right)}{C_1 L_1 s^2+C_1 R_1 s+1},\ \frac{R_2\left(C_2 L_2 s^2+1\right)}{C_2 L_2 s^2+C_2 R_2 s+1},\ \infty,\ \infty,\ \infty,\ \infty \right)$

$$H(s) = Z_1 \left(Z_2 g_m + 1 \right)$$