

Filter Summary Report: TIA,full,parasitic,Z4,ZL

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10.27	INVALID-ORDER-27 $Z(s) = (\infty, \infty, \infty, \frac{R_4}{C_{Ls} R_L s + 1}, \infty, L_L s + R_L + \frac{1}{C_{Ls}})$		4
10.28	INVALID-ORDER-28 $Z(s) = (\infty, \infty, \infty, \frac{R_4}{C_{Ls} R_L s + 1}, \infty, \frac{L_L s}{C_{Ls} s + \frac{1}{R_L} + \frac{1}{L_L s}})$		4
10.29	INVALID-ORDER-29 $Z(s) = (\infty, \infty, \infty, \frac{R_4}{C_{Ls} R_L s + 1}, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1} + R_L)$		4
10.30	INVALID-ORDER-30 $Z(s) = (\infty, \infty, \infty, \frac{R_4}{C_{Ls} R_L s + 1}, \infty, \frac{R_L (L_L s + \frac{1}{C_{Ls}})}{L_L s + R_L + \frac{1}{C_{Ls}}})$		4
10.31	INVALID-ORDER-31 $Z(s) = (\infty, \infty, \infty, R_4 + \frac{1}{C_{Ls}}, \infty, R_L)$		4
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10.34	INVALID-ORDER-34 $Z(s) = (\infty, \infty, \infty, R_4 + \frac{1}{C_{Ls}}, \infty, R_L + \frac{1}{C_{Ls}})$		5
10.35	INVALID-ORDER-35 $Z(s) = (\infty, \infty, \infty, R_4 + \frac{1}{C_{Ls}}, \infty, L_L s + \frac{1}{C_{Ls}})$		5
10.36	INVALID-ORDER-36 $Z(s) = (\infty, \infty, \infty, R_4 + \frac{1}{C_{Ls}}, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1})$		5
10.37	INVALID-ORDER-37 $Z(s) = (\infty, \infty, \infty, R_4 + \frac{1}{C_{Ls}}, \infty, L_L s + R_L + \frac{1}{C_{Ls}})$		5
10.38	INVALID-ORDER-38 $Z(s) = (\infty, \infty, \infty, R_4 + \frac{1}{C_{Ls}}, \infty, \frac{L_L s}{C_{Ls} s + \frac{1}{R_L} + \frac{1}{L_L s}})$		5
10.39	INVALID-ORDER-39 $Z(s) = (\infty, \infty, \infty, R_4 + \frac{1}{C_{Ls}}, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1} + R_L)$		5
10.40	INVALID-ORDER-40 $Z(s) = (\infty, \infty, \infty, R_4 + \frac{1}{C_{Ls}}, \infty, \frac{R_L (L_L s + \frac{1}{C_{Ls}})}{L_L s + R_L + \frac{1}{C_{Ls}}})$		5
10.41	INVALID-ORDER-41 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, R_L)$		5
10.42	INVALID-ORDER-42 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, \frac{1}{C_{Ls}})$		5
10.43	INVALID-ORDER-43 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, \frac{R_L}{C_{Ls} R_L s + 1})$		5
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10.45	INVALID-ORDER-45 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, L_L s + \frac{1}{C_{Ls}})$		5
10.46	INVALID-ORDER-46 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1})$		5
10.47	INVALID-ORDER-47 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, L_L s + R_L + \frac{1}{C_{Ls}})$		5
10.48	INVALID-ORDER-48 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, \frac{L_L s}{C_{Ls} s + \frac{1}{R_L} + \frac{1}{L_L s}})$		5
10.49	INVALID-ORDER-49 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1} + R_L)$		5
10.50	INVALID-ORDER-50 $Z(s) = (\infty, \infty, \infty, L_L s + \frac{1}{C_{Ls}}, \infty, \frac{R_L (L_L s + \frac{1}{C_{Ls}})}{L_L s + R_L + \frac{1}{C_{Ls}}})$		5
10.51	INVALID-ORDER-51 $Z(s) = (\infty, \infty, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1}, \infty, R_L)$		6
10.52	INVALID-ORDER-52 $Z(s) = (\infty, \infty, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1}, \infty, \frac{1}{C_{Ls}})$		6
10.53	INVALID-ORDER-53 $Z(s) = (\infty, \infty, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1}, \infty, \frac{R_L}{C_{Ls} R_L s + 1})$		6
10.54	INVALID-ORDER-54 $Z(s) = (\infty, \infty, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1}, \infty, R_L + \frac{1}{C_{Ls}})$		6
10.55	INVALID-ORDER-55 $Z(s) = (\infty, \infty, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1}, \infty, L_L s + \frac{1}{C_{Ls}})$		6
10.56	INVALID-ORDER-56 $Z(s) = (\infty, \infty, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1}, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1})$		6
10.57	INVALID-ORDER-57 $Z(s) = (\infty, \infty, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1}, \infty, L_L s + R_L + \frac{1}{C_{Ls}})$		6
10.58	INVALID-ORDER-58 $Z(s) = (\infty, \infty, \infty, \frac{L_L s}{C_{Ls} L_L s^2 + 1}, \infty, \frac{L_L s}{C_{Ls} s + \frac{1}{R_L} + \frac{1}{L_L s}})$		6

$$1 \quad \text{Examined } H(z) \text{ for TIA full parasitic Z4 ZL: } \frac{Z_4 Z_L (C_{g4}s - g_m)(g_m r_o + 1)}{C_{g4}^2 C_{gs} Z_4 Z_L r_o^2 s^3 + C_{g4}^2 Z_4 Z_L g_m r_o^2 s^2 + C_{g4}^2 Z_4 Z_L r_o s^2 - C_{g4} C_{gs} Z_4 Z_L g_m r_o^2 s^2 + C_{g4} C_{gs} Z_4 Z_L r_o s^2 + C_{g4} C_{gs} Z_L r_o^2 s^2 + 2 C_{g4} C_{gs} Z_L r_o^2 s^2 - C_{g4} Z_4 Z_L g_m^2 r_o^2 s - C_{g4} Z_4 Z_L g_m r_o s + C_{g4} Z_4 g_m r_o^2 s + 2 C_{g4} Z_4 g_m r_o s + 2 C_{g4} Z_L r_o s + 4 C_{g4} Z_L g_m r_o s + 2 C_{gs} Z_4 g_m r_o s + 2 C_{gs} Z_L r_o s + 2 C_{gs} Z_L s - Z_4 g_m^2 r_o - Z_4 g_m - 2 Z_L g_m^2 r_o - 2 Z_L g_m} \\ H(z) = \frac{Z_4 Z_L (C_{g4}s - g_m)(g_m r_o + 1)}{C_{g4}^2 C_{gs} Z_4 Z_L r_o^2 s^3 + C_{g4}^2 Z_4 Z_L g_m r_o^2 s^2 + C_{g4}^2 Z_4 Z_L r_o s^2 - C_{g4} C_{gs} Z_4 Z_L g_m r_o^2 s^2 + C_{g4} C_{gs} Z_4 Z_L r_o s^2 + C_{g4} C_{gs} Z_L r_o^2 s^2 + 2 C_{g4} C_{gs} Z_L r_o^2 s^2 - C_{g4} Z_4 Z_L g_m^2 r_o^2 s - C_{g4} Z_4 Z_L g_m r_o s + C_{g4} Z_4 g_m r_o^2 s + 2 C_{g4} Z_4 g_m r_o s + 2 C_{g4} Z_L r_o s + 4 C_{g4} Z_L g_m r_o s + 2 C_{gs} Z_4 g_m r_o s + 2 C_{gs} Z_L r_o s + 2 C_{gs} Z_L s - Z_4 g_m^2 r_o - Z_4 g_m - 2 Z_L g_m^2 r_o - 2 Z_L g_m}$$

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 $Z(s) = (\infty, \infty, \infty, R_4, \infty, R_L)$

[illegible]

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

[illegible]

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

[illegible]

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

[illegible]

10.5 INVALID-ORDER-5 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, L_L s + \frac{1}{C_L s} \right)$

[illegible]

10.6 INVALID-ORDER-6 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

[illegible]

10.7 INVALID-ORDER-7 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.8 INVALID-ORDER-8 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

[illegible]

10.9 INVALID-ORDER-9 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

[illegible]

10.10 INVALID-ORDER-10 $Z(s) = \left(\infty, \infty, \infty, R_4, \infty, \frac{R_L(L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.11 INVALID-ORDER-11 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_{4s}}, \infty, R_L \right)$

$$H(s) = \frac{R_L(C_{gss} - g_m)(g_{m,r} + 1)}{2C_L C_{gd} C_{gs} R_L R_{Lg,m}^2 s^3 + 2C_L C_{gd} R_L g_{m,r} s^2 s^2 + 4C_L C_{gd} R_L g_{m,r} s^2 s + 2C_L C_{gd} R_L r_L s^2 + 4C_L C_{gd} R_L r_L s^2 + 2C_L C_{gs} R_L g_{m,r} s^2 + 2C_L C_{gs} R_L r_L s^2 - 2C_L R_L g_{m,r} s - 2C_L R_L g_{m,r} s + C_{gs}^2 C_{gd} R_L r_L s^2 + C_{gs}^2 R_L g_{m,r} r_L s^2 + C_{gs}^2 R_L g_{m,r} r_L s^2 - C_{gd} C_{gs} R_L g_{m,r} s^2 + C_{gd} C_{gs} R_L r_L s^2 + C_{gd} C_{gs} r_L r_L s^2 + C_{gd} R_L g_{m,r} s^2 + C_{gd} R_L g_{m,r} s^2 + 2C_{gd} g_{m,r} s + C_{gd} r_L s + 2C_{gs} - C_{gs} R_L g_{m,r} s - C_{gs} g_{m,r} s + C_{gs} r_L s + C_{gs} - g_{m,r} s - g_m}$$

10.12 INVALID-ORDER-12 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_{4s}}, \infty, \frac{1}{C_{Ls}} \right)$

[illegible]

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

[illegible]

10.70 INVALID-ORDER-70 $Z(s) = \left(\infty, \infty, \infty, L_4 s + R_4 + \frac{1}{C_4 s}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.71 INVALID-ORDER-71 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4 + \frac{1}{L_4 s}}}, \infty, R_L \right)$

[illegible]

10.72 INVALID-ORDER-72 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4 + \frac{1}{L_4 s}}}, \infty, \frac{1}{C_L s} \right)$

[illegible]

10.73 INVALID-ORDER-73 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_4 s + \frac{1}{R_4 + \frac{1}{L_4 s}}}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

[illegible]

10.74 INVALID-ORDER-74 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_{4s + \frac{1}{R_2} + \frac{1}{L_{eq}}}}, \infty, R_L + \frac{1}{C_{Ls}} \right)$

[illegible]

10.75 INVALID-ORDER-75 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_{48+\frac{1}{n}+\frac{1}{L}}}, \infty, L_L s + \frac{1}{C_L s} \right)$

10.76 INVALID-ORDER-76 $Z(s) = \left(\infty, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L}}, \infty, \frac{L_L s}{C_L s^2 + 1} \right)$

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

10.78 INVALID-ORDER-78 $Z(s) = \left(\infty \quad \infty \quad \infty \quad \frac{1}{s} \quad \infty \quad \frac{1}{s} \right)$

10.79 INVALID-ORDER-79 $Z(\varphi) = \left(\infty \quad \infty \quad \infty \quad \frac{1}{\infty} \quad \infty \quad \frac{L_\ell s}{\infty} + R_s \right)$

$$H(s) = \frac{2C_4C_lC_{ad}C_{os}L_4L_lR_4R_lr^2s^6 + 2C_4C_lC_{ad}L_4L_lR_4R_lq_mr^2s^5 + 4C_4C_lC_{ad}L_4L_lR_4R_lq_mr_0s^5 +$$

$$H(s) = \frac{C_4 C_{ad}^2 C_{qs} L_4 R_4 R_L r_o^2 s^5 + C_4 C_{ad}^2 L_4 R_4 R_L g_m r_o^2 s^4 + C_4 C_{ad}^2 L_4 R_4 R_L r_o s^4 - C_4 C_{qd} C_{qs} L_4 R_3}{C_4 C_{ad}^2 C_{qs} L_4 R_4 R_L r_o^2 s^5 + C_4 C_{ad}^2 L_4 R_4 R_L g_m r_o^2 s^4 + C_4 C_{ad}^2 L_4 R_4 R_L r_o s^4 - C_4 C_{qd} C_{qs} L_4 R_3}$$

$$H(s) = \frac{C_4 C_L C_{gd} C_{gs} L_4 R_4 r_o^2 s^5 + C_4 C_L C_{gd} L_4 R_4 g_m r_o^2 s^4 + 2 C_4 C_L C_{gd} L_4 R_4 g_m r_o s^4 + C_4 C_L C_{gd} L_4 R_4 s^3}{C_4 C_L C_{gd} C_{gs} L_4 R_4 r_o^2 s^5 + C_4 C_L C_{gd} L_4 R_4 g_m r_o^2 s^4 + 2 C_4 C_L C_{gd} L_4 R_4 g_m r_o s^4 + C_4 C_L C_{gd} L_4 R_4 s^3}$$

[illegible]

$$H(s) = \frac{C_4 C_L C_{gd}^2 C_{gs} L_4 R_4 R_L r_o^2 s^6 + C_4 C_L C_{gd}^2 L_4 R_4 R_L g_m r_o^2 s^5 + C_4 C_L C_{gd}^2 L_4 R_4 R_L r_o s^5 - C_4 C_L C_{gd} C_{gs}}{C_4 C_L C_{gd}^2 C_{gs} L_4 R_4 R_L r_o^2 s^6 + C_4 C_L C_{gd}^2 L_4 R_4 R_L g_m r_o^2 s^5 + C_4 C_L C_{gd}^2 L_4 R_4 R_L r_o s^5 - C_4 C_L C_{gd} C_{gs}}$$

$$H(s) = \frac{C_4 C_L C_{gd}^2 C_{gs} L_4 L_L R_4 r_o^2 s^7 + C_4 C_L C_{gd}^2 L_4 L_L R_4 g_m r_o^2 s^6 + C_4 C_L C_{gd}^2 L_4 L_L R_4 r_o s^6 - C_4 C_L C_{gd} C_{gs}}{C_4 C_L C_{gd}^2 C_{gs} L_4 L_L R_4 r_o^2 s^7 + C_4 C_L C_{gd}^2 L_4 L_L R_4 g_m r_o^2 s^6 + C_4 C_L C_{gd}^2 L_4 L_L R_4 r_o s^6 - C_4 C_L C_{gd} C_{gs}}$$

10.86 INVALID-ORDER-86 $Z(s) = \left(\infty, \infty, \infty, \frac{L_1 s}{2C_1 + L_1 s + 1} + R_4, \infty, \frac{L_2 s}{2C_2 + L_2 s + 1} \right)$

$$H(s) = \overline{C_4 C_L C_{gd} C_{gs} L_4 L_L R_4 r_o^2 s^6 + C_4 C_L C_{gd} L_4 L_L R_4 g_m r_o^2 s^5 + 2 C_4 C_L C_{gd} L_4 L_L R_4 g_m r_o s^5 + C_4 C_L C_{gs}}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4(L_4 s^2 + 1)} + R_4, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.88 INVALID-ORDER-88 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

[illegible]

10.89 INVALID-ORDER-89 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

[illegible]

10.90 INVALID-ORDER-90 $Z(s) = \left(\infty, \infty, \infty, \frac{L_4 s}{C_4 L_4 s^2 + 1} + R_4, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.91 INVALID-ORDER-91 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, R_L \right)$

[illegible]

10.92 INVALID-ORDER-92 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{1}{C_L s} \right)$

[illegible]

10.93 INVALID-ORDER-93 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

[illegible]

10.94 INVALID-ORDER-94 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, R_L + \frac{1}{C_L s} \right)$

$$H(s) = C_{41}C_{42}C_{43}C_{44}C_{45}C_{46}C_{47}C_{48}C_{49}C_{50}C_{51}C_{52}C_{53}C_{54}C_{55}C_{56}C_{57}C_{58}C_{59}C_{60}C_{61}C_{62}C_{63}C_{64}C_{65}C_{66}C_{67}C_{68}C_{69}C_{70}C_{71}C_{72}C_{73}C_{74}C_{75}C_{76}C_{77}C_{78}C_{79}C_{80}C_{81}C_{82}C_{83}C_{84}C_{85}C_{86}C_{87}C_{88}C_{89}C_{90}C_{91}C_{92}C_{93}C_{94}C_{95}C_{96}C_{97}C_{98}C_{99}C_{100}C_{101}C_{102}C_{103}C_{104}C_{105}C_{106}C_{107}C_{108}C_{109}C_{110}C_{111}C_{112}C_{113}C_{114}C_{115}C_{116}C_{117}C_{118}C_{119}C_{120}C_{121}C_{122}C_{123}C_{124}C_{125}C_{126}C_{127}C_{128}C_{129}C_{130}C_{131}C_{132}C_{133}C_{134}C_{135}C_{136}C_{137}C_{138}C_{139}C_{140}C_{141}C_{142}C_{143}C_{144}C_{145}C_{146}C_{147}C_{148}C_{149}C_{150}C_{151}C_{152}C_{153}C_{154}C_{155}C_{156}C_{157}C_{158}C_{159}C_{160}C_{161}C_{162}C_{163}C_{164}C_{165}C_{166}C_{167}C_{168}C_{169}C_{170}C_{171}C_{172}C_{173}C_{174}C_{175}C_{176}C_{177}C_{178}C_{179}C_{180}C_{181}C_{182}C_{183}C_{184}C_{185}C_{186}C_{187}C_{188}C_{189}C_{190}C_{191}C_{192}C_{193}C_{194}C_{195}C_{196}C_{197}C_{198}C_{199}C_{200}C_{201}C_{202}C_{203}C_{204}C_{205}C_{206}C_{207}C_{208}C_{209}C_{210}C_{211}C_{212}C_{213}C_{214}C_{215}C_{216}C_{217}C_{218}C_{219}C_{220}C_{221}C_{222}C_{223}C_{224}C_{225}C_{226}C_{227}C_{228}C_{229}C_{230}C_{231}C_{232}C_{233}C_{234}C_{235}C_{236}C_{237}C_{238}C_{239}C_{240}C_{241}C_{242}C_{243}C_{244}C_{245}C_{246}C_{247}C_{248}C_{249}C_{250}C_{251}C_{252}C_{253}C_{254}C_{255}C_{256}C_{257}C_{258}C_{259}C_{260}C_{261}C_{262}C_{263}C_{264}C_{265}C_{266}C_{267}C_{268}C_{269}C_{270}C_{271}C_{272}C_{273}C_{274}C_{275}C_{276}C_{277}C_{278}C_{279}C_{280}C_{281}C_{282}C_{283}C_{284}C_{285}C_{286}C_{287}C_{288}C_{289}C_{290}C_{291}C_{292}C_{293}C_{294}C_{295}C_{296}C_{297}C_{298}C_{299}C_{300}C_{301}C_{302}C_{303}C_{304}C_{305}C_{306}C_{307}C_{308}C_{309}C_{310}C_{311}C_{312}C_{313}C_{314}C_{315}C_{316}C_{317}C_{318}C_{319}C_{320}C_{321}C_{322}C_{323}C_{324}C_{325}C_{326}C_{327}C_{328}C_{329}C_{330}C_{331}C_{332}C_{333}C_{334}C_{335}C_{336}C_{337}C_{338}C_{339}C_{340}C_{341}C_{342}C_{343}C_{344}C_{345}C_{346}C_{347}C_{348}C_{349}C_{350}C_{351}C_{352}C_{353}C_{354}C_{355}C_{356}C_{357}C_{358}C_{359}C_{360}C_{361}C_{362}C_{363}C_{364}C_{365}C_{366}C_{367}C_{368}C_{369}C_{370}C_{371}C_{372}C_{373}C_{374}C_{375}C_{376}C_{377}C_{378}C_{379}C_{380}C_{381}C_{382}C_{383}C_{384}C_{385}C_{386}C_{387}C_{388}C_{389}C_{390}C_{391}C_{392}C_{393}C_{394}C_{395}C_{396}C_{397}C_{398}C_{399}C_{400}C_{401}C_{402}C_{403}C_{404}C_{405}C_{406}C_{407}C_{408}C_{409}C_{410}C_{411}C_{412}C_{413}C_{414}C_{415}C_{416}C_{417}C_{418}C_{419}C_{420}C_{421}C_{422}C_{423}C_{424}C_{425}C_{426}C_{427}C_{428}C_{429}C_{430}C_{431}C_{432}C_{433}C_{434}C_{435}C_{436}C_{437}C_{438}C_{439}C_{440}C_{441}C_{442}C_{443}C_{444}C_{445}C_{446}C_{447}C_{448}C_{449}C_{450}C_{451}C_{452}C_{453}C_{454}C_{455}C_{456}C_{457}C_{458}C_{459}C_{460}C_{461}C_{462}C_{463}C_{464}C_{465}C_{466}C_{467}C_{468}C_{469}C_{470}C_{471}C_{472}C_{473}C_{474}C_{475}C_{476}C_{477}C_{478}C_{479}C_{480}C_{481}C_{482}C_{483}C_{484}C_{485}C_{486}C_{487}C_{488}C_{489}C_{490}C_{491}C_{492}C_{493}C_{494}C_{495}C_{496}C_{497}C_{498}C_{499}C_{500}C_{501}C_{502}C_{503}C_{504}C_{505}C_{506}C_{507}C_{508}C_{509}C_{510}C_{511}C_{512}C_{513}C_{514}C_{515}C_{516}C_{517}C_{518}C_{519}C_{520}C_{521}C_{522}C_{523}C_{524}C_{525}C_{526}C_{527}C_{528}C_{529}C_{530}C_{531}C_{532}C_{533}C_{534}C_{535}C_{536}C_{537}C_{538}C_{539}C_{540}C_{541}C_{542}C_{543}C_{544}C_{545}C_{546}C_{547}C_{548}C_{549}C_{550}C_{551}C_{552}C_{553}C_{554}C_{555}C_{556}C_{557}C_{558}C_{559}C_{560}C_{561}C_{562}C_{563}C_{564}C_{565}C_{566}C_{567}C_{568}C_{569}C_{570}C_{571}C_{572}C_{573}C_{574}C_{575}C_{576}C_{577}C_{578}C_{579}C_{580}C_{581}C_{582}C_{583}C_{584}C_{585}C_{586}C_{587}C_{588}C_{589}C_{590}C_{591}C_{592}C_{593}C_{594}C_{595}C_{596}C_{597}C_{598}C_{599}C_{600}C_{601}C_{602}C_{603}C_{604}C_{605}C_{606}C_{607}C_{608}C_{609}C_{610}C_{611}C_{612}C_{613}C_{614}C_{615}C_{616}C_{617}C_{618}C_{619}C_{620}C_{621}C_{622}C_{623}C_{624}C_{625}C_{626}C_{627}C_{628}C_{629}C_{630}C_{631}C_{632}C_{633}C_{634}C_{635}C_{636}C_{637}C_{638}C_{639}C_{640}C_{641}C_{642}C_{643}C_{644}C_{645}C_{646}C_{647}C_{648}C_{649}C_{650}C_{651}C_{652}C_{653}C_{654}C_{655}C_{656}C_{657}C_{658}C_{659}C_{660}C_{661}C_{662}C_{663}C_{664}C_{665}C_{666}C_{667}C_{668}C_{669}C_{670}C_{671}C_{672}C_{673}C_{674}C_{675}C_{676}C_{677}C_{678}C_{679}C_{680}C_{681}C_{682}C_{683}C_{684}C_{685}C_{686}C_{687}C_{688}C_{689}C_{690}C_{691}C_{692}C_{693}C_{694}C_{695}C_{696}C_{697}C_{698}C_{699}C_{700}C_{701}C_{702}C_{703}C_{704}C_{705}C_{706}C_{707}C_{708}C_{709}C_{710}C_{711}C_{712}C_{713}C_{714}C_{715}C_{716}C_{717}C_{718}C_{719}C_{720}C_{721}C_{722}C_{723}C_{724}C_{725}C_{726}C_{727}C_{728}C_{729}C_{730}C_{731$$

10.95 INVALID-ORDER-95 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, L_L s + \frac{1}{C_L s} \right)$

[illegible]

10.96 INVALID-ORDER-96 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4(L_4s + \frac{1}{C_4s})}{L_4s + R_4 + \frac{1}{C_4s}}, \infty, \frac{L_Ls}{C_L L_L s^2 + 1} \right)$

[illegible]

10.97 INVALID-ORDER-97 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.98 INVALID-ORDER-98 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

[illegible]

10.99 INVALID-ORDER-99 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

[illegible]

10.100 INVALID-ORDER-100 $Z(s) = \left(\infty, \infty, \infty, \frac{R_4 \left(L_4 s + \frac{1}{C_4 s} \right)}{L_4 s + R_4 + \frac{1}{C_4 s}}, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]