

Filter Summary Report: TIA,full,parasitic,Z1,Z3,ZL

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Contents

1	Examined $H(z)$ for TIA full parasitic Z1 Z3 ZL:	$C_{gd}^2 C_{gs} C_{gs} Z_1 Z_3 Z_L r_o^2 s^3 + C_{gd}^2 Z_1 Z_3 Z_L g_m r_o^2 s^2 + C_{gd}^2 Z_1 Z_3 Z_L r_o s^2 + C_{gd}^2 Z_3 Z_L r_o s^2 - C_{gd} C_{gs} Z_1 Z_3 Z_L g_m r_o^2 s^2 + C_{gd} C_{gs} Z_1 Z_3 Z_L r_o s^2 + C_{gd} C_{gs} Z_1 Z_3 r_o^2 s^2 + C_{gd} C_{gs} Z_1 Z_L r_o^2 s^2 - C_{gd} Z_1 Z_3 Z_L g_m^2 r_o^2 s - C_{gd} Z_1 Z_3 Z_L g_m r_o s + C_{gd} Z_1 Z_3 g_m r_o^2 s + 2 C_{gd} Z_1 Z_3 g_m r_o s + C_{gd} Z_1 Z_3 r_o s + 2 C_{gd} Z_1 Z_3 s + C_{gd} Z_1 Z_L g_m r_o^2 s + 2 C_{gd} Z_1 Z_L g_m r_o s + C_{gd} Z_1 Z_3 r_o s + 2 C_{gd} Z_1 Z_3 s + C_{gd} Z_1 Z_L g_m r_o s + 2 C_{gd} Z_1 Z_L s + Z_1 Z_3 Z_L (C_{gd} s - g_m)(g_m r_o + 1)$	
18			
2	HP		18
3	BP		18
4	LP		18
5	BS		18
6	GE		18
7	AP		18
8	INVALID-NUMER		18
9	INVALID-WZ		18
10	INVALID-ORDER		18
10.1	INVALID-ORDER-1 $Z(s) = (R_1, \infty, R_3, \infty, \infty, R_L)$		18
10.2	INVALID-ORDER-2 $Z(s) = (R_1, \infty, R_3, \infty, \infty, \frac{1}{C_L s})$		18
10.3	INVALID-ORDER-3 $Z(s) = (R_1, \infty, R_3, \infty, \infty, \frac{R_L}{C_L R_L s + 1})$		18
10.4	INVALID-ORDER-4 $Z(s) = (R_1, \infty, R_3, \infty, \infty, R_L + \frac{1}{C_L s})$		18
10.5	INVALID-ORDER-5 $Z(s) = (R_1, \infty, R_3, \infty, \infty, L_L s + \frac{1}{C_L s})$		18
10.6	INVALID-ORDER-6 $Z(s) = (R_1, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$		18
10.7	INVALID-ORDER-7 $Z(s) = (R_1, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s})$		18
10.8	INVALID-ORDER-8 $Z(s) = (R_1, \infty, R_3, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}})$		18
10.9	INVALID-ORDER-9 $Z(s) = (R_1, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L)$		18
10.10	INVALID-ORDER-10 $Z(s) = (R_1, \infty, R_3, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}})$		18
10.11	INVALID-ORDER-11 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L)$		18
10.12	INVALID-ORDER-12 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s})$		18
10.13	INVALID-ORDER-13 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1})$		18
10.14	INVALID-ORDER-14 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s})$		19
10.15	INVALID-ORDER-15 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s})$		19
10.16	INVALID-ORDER-16 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$		19
10.17	INVALID-ORDER-17 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s})$		19
10.18	INVALID-ORDER-18 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}})$		19
10.19	INVALID-ORDER-19 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L)$		19
10.20	INVALID-ORDER-20 $Z(s) = (R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}})$		19
10.21	INVALID-ORDER-21 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L)$		19
10.22	INVALID-ORDER-22 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s})$		19
10.23	INVALID-ORDER-23 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1})$		19
10.24	INVALID-ORDER-24 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s})$		19
10.25	INVALID-ORDER-25 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s})$		19
10.26	INVALID-ORDER-26 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$		19
10.27	INVALID-ORDER-27 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s})$		19
10.28	INVALID-ORDER-28 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}})$		19
10.29	INVALID-ORDER-29 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L)$		19
10.30	INVALID-ORDER-30 $Z(s) = (R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}})$		19
10.31	INVALID-ORDER-31 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L)$		19
10.32	INVALID-ORDER-32 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s})$		19
10.33	INVALID-ORDER-33 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1})$		20
10.34	INVALID-ORDER-34 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s})$		20
10.35	INVALID-ORDER-35 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s})$		20
10.36	INVALID-ORDER-36 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$		20
10.37	INVALID-ORDER-37 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s})$		20
10.38	INVALID-ORDER-38 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}})$		20
10.39	INVALID-ORDER-39 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L)$		20
10.40	INVALID-ORDER-40 $Z(s) = (R_1, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}})$		20
10.41	INVALID-ORDER-41 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L)$		20
10.42	INVALID-ORDER-42 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s})$		20
10.43	INVALID-ORDER-43 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1})$		20
10.44	INVALID-ORDER-44 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s})$		20
10.45	INVALID-ORDER-45 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s})$		20
10.46	INVALID-ORDER-46 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$		20
10.47	INVALID-ORDER-47 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s})$		20
10.48	INVALID-ORDER-48 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}})$		20
10.49	INVALID-ORDER-49 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L)$		20
10.50	INVALID-ORDER-50 $Z(s) = (R_1, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}})$		20
10.51	INVALID-ORDER-51 $Z(s) = (R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L)$		20
10.52	INVALID-ORDER-52 $Z(s) = (R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s})$		21
10.53	INVALID-ORDER-53 $Z(s) = (R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1})$		21
10.54	INVALID-ORDER-54 $Z(s) = (R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s})$		21
10.55	INVALID-ORDER-55 $Z(s) = (R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s})$		21
10.56	INVALID-ORDER-56 $Z(s) = (R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1})$		21
10.57	INVALID-ORDER-57 $Z(s) = (R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s})$		21
10.58	INVALID-ORDER-58 $Z(s) = (R_1, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}})$		21

10.130	INVALID-ORDER-130	$Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_{L^3 s^2+1}}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L^2})}{L_L s + R_L + \frac{1}{C_L^2}} \right)$	25
10.131	INVALID-ORDER-131	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L \right)$	25
10.132	INVALID-ORDER-132	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$	25
10.133	INVALID-ORDER-133	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	25
10.134	INVALID-ORDER-134	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	25
10.135	INVALID-ORDER-135	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	25
10.136	INVALID-ORDER-136	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L}{C_L L_L s^2 + 1} \right)$	25
10.137	INVALID-ORDER-137	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	25
10.138	INVALID-ORDER-138	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L}}} \right)$	25
10.139	INVALID-ORDER-139	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L}{C_L L_L s^2 + 1} + R_L \right)$	25
10.140	INVALID-ORDER-140	$Z(s) = \left(L_1 s, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L^2})}{L_L s + R_L + \frac{1}{C_L^2}} \right)$	25
10.141	INVALID-ORDER-141	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L \right)$	25
10.142	INVALID-ORDER-142	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$	25
10.143	INVALID-ORDER-143	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	25
10.144	INVALID-ORDER-144	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	25
10.145	INVALID-ORDER-145	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	26
10.146	INVALID-ORDER-146	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L}{C_L L_L s^2 + 1} \right)$	26
10.147	INVALID-ORDER-147	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	26
10.148	INVALID-ORDER-148	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L}}} \right)$	26
10.149	INVALID-ORDER-149	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L}{C_L L_L s^2 + 1} + R_L \right)$	26
10.150	INVALID-ORDER-150	$Z(s) = \left(L_1 s, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L^2})}{L_L s + R_L + \frac{1}{C_L^2}} \right)$	26
10.151	INVALID-ORDER-151	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L \right)$	26
10.152	INVALID-ORDER-152	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s} \right)$	26
10.153	INVALID-ORDER-153	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	26
10.154	INVALID-ORDER-154	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	26
10.155	INVALID-ORDER-155	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	26
10.156	INVALID-ORDER-156	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L}{C_L L_L s^2 + 1} \right)$	26
10.157	INVALID-ORDER-157	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	26
10.158	INVALID-ORDER-158	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L}}} \right)$	26
10.159	INVALID-ORDER-159	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{L_L}{C_L L_L s^2 + 1} + R_L \right)$	26
10.160	INVALID-ORDER-160	$Z(s) = \left(L_1 s, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L (L_L s + \frac{1}{C_L^2})}{L_L s + R_L + \frac{1}{C_L^2}} \right)$	26
10.161	INVALID-ORDER-161	$Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L \right)$	26
10.162	INVALID-ORDER-162	$Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$	26
10.163	INVALID-ORDER-163	$Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$	26
10.164	INVALID-ORDER-164	$Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$	27
10.165	INVALID-ORDER-165	$Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$	27
10.166	INVALID-ORDER-166	$Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	27
10.167	INVALID-ORDER-167	$Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$	27
10.168	INVALID-ORDER-168	$Z(s) = \left(L_1 s, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L}}} \right)$	27
10.169			

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

10.10.1098	INVALID-ORDER-1098	$Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1^s} \right)}{L_1 s + R_1 + \frac{1}{C_1^s}}, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3^s} \right)}{L_3 s + R_3 + \frac{1}{C_3^s}}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + L s} \right)$	78
10.10.1099	INVALID-ORDER-1099	$Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1^s} \right)}{L_1 s + R_1 + \frac{1}{C_1^s}}, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3^s} \right)}{L_3 s + R_3 + \frac{1}{C_3^s}}, \infty, \infty, \frac{L s}{C_L L s^2 + 1} + R_L \right)$	78
10.11.1100	INVALID-ORDER-1100	$Z(s) = \left(\frac{R_1 \left(L_1 s + \frac{1}{C_1^s} \right)}{L_1 s + R_1 + \frac{1}{C_1^s}}, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3^s} \right)}{L_3 s + R_3 + \frac{1}{C_3^s}}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L^s} \right)}{L_L s + R_L + \frac{1}{C_L^s}} \right)$	78

10.14 INVALID-ORDER-14 $Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

[illegible]

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

$$H(s) = \frac{R_1(C_{g0}g - gm_0)}{C_{C1}C_{g0}C_{g2}L_1L_1R_1r_v^2s^6 + C_{C2}C_1C_{g0}L_1L_1R_1gm_vr_v^2s^4 + 2C_2C_3C_{g0}L_1L_1R_1gm_vr_v^2s^4 + C_{C3}C_1C_{g0}L_1R_1r_v^2s^4 + 2C_2C_3C_1C_{g0}L_1R_1s^4 + C_2C_1C_{g0}L_1L_1R_1s^4 + C_{C3}C_1C_{g0}L_1R_1r_v^2s^4 + C_{C3}C_1C_{g0}L_1R_1s^4 + C_{C3}C_1C_{g0}L_1R_1r_v^2s^4 + C_{C3}C_1C_{g0}L_1R_1s^4 - C_2C_1L_1R_1g_v^2r_v^2s^6 - C_2C_1L_1R_1gm_v^2s^3 - C_2C_1L_1gm_vr_v^2s^3 + C_2C_1C_{g0}C_{g2}R_1r_v^2s^3 + C_2C_1C_{g0}R_1gm_v^2s^2 + 2C_2C_{g0}R_1gm_vr_v^2s^2 + 2C_2C_{g0}R_1gm_v^2s^2 + C_2C_{g0}r_v^2s^2 + C_2C_{g0}R_1r_v^2s^2 + C_2C_{g0}R_1gm_v^2s^2 + C_2C_{g0}R_1gm_vr_v^2s^2 + C_2C_{g0}R_1r_v^2s^2 + C_2C_{g0}R_1s^2 + C_2C_{g0}r_v^2s^2 + C_2C_{g0}R_1s^2 - C_2R_1g_v^2r_v^2s^2 - C_2R_1gm_v^2s - C_2gm_vr_v^2s + C_1C_2C_{g0}L_1R_1r_v^2s^5 + C_1C_2C_{g0}L_1L_1R_1gm_v^2s^4 + C_1C_2C_{g0}L_1L_1R_1r_v^2s^4 + C_1C_2C_{g0}L_1L_1R_1s^4}$$

10.16 INVALID-ORDER-16 $Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

[illegible]

10.17 INVALID-ORDER-17 $Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.18 INVALID-ORDER-18 $Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

[illegible]

10.19 INVALID-ORDER-19 $Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L\right)$

[illegible]

$$\text{10.20 INVALID-ORDER-20 } Z(s) = \left(R_1, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

[illegible]

10.21 INVALID-ORDER-21 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L \right)$

[illegible]

10.22 INVALID-ORDER-22 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s} \right)$

[illegible]

10.23 INVALID-ORDER-23 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_{3s+1}}, \infty, \infty, \frac{R_L}{C_L R_{Ls+1}} \right)$

$$H(s) = C_{3Cg}C_{gR}R_1R_3R_3LrL^2s^3 + C_{3Cg}C_{gR}R_1R_3R_3Lg\eta_{r\sigma}s^2 + 2C_{3Cg}C_{gR}R_1R_3R_3Lg\eta_{r\sigma}s^2 + C_{3Cg}C_{gR}R_1R_3R_3Lr_{\sigma}s^2 + 2C_{3Cg}C_{gR}R_1R_3R_3R_3Ls^2 + C_{3Cg}C_{gR}R_1R_3R_3Lr_{\sigma}s^2 + C_{3Cg}C_{gR}R_1R_3R_3Lr_{\sigma}s^2 + C_{3Cg}C_{gR}R_1R_3R_3Lr_{\sigma}s^2 - C_{3R}R_1R_3R_1r_{\sigma}^2s^3 - C_{3R}R_1R_3R_3Lg\eta_{\sigma}s^3 - C_{3R}R_3R_3Lg\eta_{\sigma}s^3 - C_{3R}R_3R_3Lg\eta_{\sigma}s^3 + C_{1C}C_{gR}C_{gR}R_1R_3R_3LrL^2s^3 + C_{1C}C_{gR}R_1R_3R_3Lg\eta_{r\sigma}s^2 + 2C_{1C}C_{gR}R_1R_3R_3Lg\eta_{r\sigma}s^2 + C_{1C}C_{gR}R_1R_3R_3Lr_{\sigma}s^2 + 2C_{1C}C_{gR}R_1R_3R_3Lr_{\sigma}s^2 + C_{1C}C_{gR}R_1R_3R_3Lr_{\sigma}s^2 + C_{1C}C_{gR}R_1R_3R_3Lr_{\sigma}s^2 - C_{1R}R_1R_3R_1r_{\sigma}^2s^3 - C_{1R}R_1R_3R_3Lg\eta_{\sigma}s^3 - C_{1R}R_3R_3Lg\eta_{\sigma}s^3 - C_{1R}R_3R_3Lg\eta_{\sigma}s^3$$

10.24 INVALID-ORDER-24 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

[illegible]

10.25 INVALID-ORDER-25 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

[illegible]

10.26 INVALID-ORDER-26 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = C_{32}C_{94}C_{94}L_1L_1R_3R_3r_{\sigma}^2s^4 + C_{32}C_{94}L_1L_1R_3q_{9m}r_{\sigma}^2s^3 + 2C_2C_3C_{94}L_1L_1R_3q_{9m}r_{\sigma}s^3 + C_2C_{94}L_1L_1R_3r_{\sigma}s^3 + C_2C_3C_{94}L_1L_1R_3r_{\sigma}s^3 + 2C_2C_3C_{94}L_1L_1R_3r_{\sigma}s^3 + C_2C_{94}L_1L_1R_3r_{\sigma}s^3 - C_3L_1L_1R_3q_{9m}^2r_{\sigma}s^2 - C_3L_1L_1R_3q_{9m}r_{\sigma}s^2 - C_3L_1L_1R_3q_{9m}r_{\sigma}s^2 + C_1C_{94}C_{94}L_1L_1R_3r_{\sigma}^2s^4 + C_1C_{94}L_1L_1R_3q_{9m}r_{\sigma}^2s^3 + 2C_1C_{94}L_1L_1R_3q_{9m}r_{\sigma}s^3 + C_1C_{94}L_1L_1R_3r_{\sigma}s^3 + 2C_1C_{94}L_1L_1R_3r_{\sigma}s^3 + C_1C_{94}L_1L_1R_3r_{\sigma}s^3 - C_1L_1L_1R_3q_{9m}^2r_{\sigma}s^2 - C_1L_1L_1R_3q_{9m}r_{\sigma}s^2 - C_1L_1L_1R_3q_{9m}r_{\sigma}s^2 + C_1C_{94}C_{94}L_1L_1R_3r_{\sigma}^2s^4 + C_1C_{94}L_1L_1R_3q_{9m}r_{\sigma}^2s^3 + 2C_1C_{94}L_1L_1R_3q_{9m}r_{\sigma}s^3 + C_1C_{94}L_1L_1R_3r_{\sigma}s^3 + 2C_1C_{94}L_1L_1R_3r_{\sigma}s^3 + C_1C_{94}L_1L_1R_3r_{\sigma}s^3 - C_1L_1L_1R_3q_{9m}^2r_{\sigma}s^2 - C_1L_1L_1R_3q_{9m}r_{\sigma}s^2 - C_1L_1L_1R_3q_{9m}r_{\sigma}s^2$$

10.27 INVALID-ORDER-27 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.28 INVALID-ORDER-28 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

[illegible]

10.29 INVALID-ORDER-29 $Z(s) = \left(R_{l1}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

[illegible]

10.30 INVALID-ORDER-30 $Z(s) = \left(R_1, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L (L_L s + C_L s)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.31 INVALID-ORDER-31 $Z(s) = \left(R_1, \infty, R_3 + \frac{1}{C_{3s}}, \infty, \infty, R_L \right)$

[illegible]

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

[illegible]

10.107 INVALID-ORDER-107 $Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.108 INVALID-ORDER-108 $Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

[illegible]

10.109 INVALID-ORDER-109 $Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

10.110 INVALID-ORDER-110 $Z(s) = \left(L_1 s, \infty, R_3, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.111 INVALID-ORDER-111 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_{3s}}, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_1 L_{R_2} (C_{q_0} g_m - g_m)(g_{m_0} + 1)}{C_{q_0} C_{q_2} L_1 R_1 R_2 s^4 + C_{q_0} C_{q_2} L_1 R_1 g_{m_0} r_o s^3 + 2 C_{q_0} C_{q_2} L_1 R_1 g_{m_0} r_o s^3 + 2 C_{q_0} C_{q_2} L_1 R_1 R_2 s^3 + C_{q_0} C_{q_2} L_1 R_1 R_2 s^3 + 2 C_{q_0} C_{q_2} L_1 R_1 g_{m_0} r_o s^3 + C_{q_0} C_{q_2} L_1 R_1 R_2 s^3 - C_3 L_1 R_1 R_2 g_{m_0}^2 r_o s^2 + C_3 L_1 R_1 g_{m_0} r_o + C_2 C_{q_0} L_1 R_1 R_2 s^4 + C_2^2 L_1 R_1 g_{m_0}^2 r_o s^3 + C_2^2 L_1 R_1 R_2 s^3 - C_{q_0} C_{q_2} L_1 R_1 R_2 r_o s^2 + C_{q_0} C_{q_2} L_1 R_1 R_2 s^2 - C_{q_0} L_1 R_1 g_{m_0}^2 r_o s^2 - C_{q_0} L_1 R_1 g_{m_0} r_o s^2 + C_{q_0} L_1 g_{m_0} r_o s^2 + 2 C_{q_0} L_1 g_{m_0} r_o s^2 + C_{q_0} L_1 R_2 s^2 + 2 C_{q_0} L_1 s^2 - C_{q_0} R_1 g_{m_0} r_o s + C_{q_0} R_1 s + C_{q_0} R_2 s + C_{q_0} L_1 g_{m_0} r_o s^2 +$$

10.112 INVALID-ORDER-112 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_1 s (C_{g0} s^4 - g_{m1} (9m_7 + 1))}{C_{g0} C_{g2} L_1 \tau_1^2 s^8 + C_{g0} C_{g4} L_1 g_{m7} \tau_1^2 s^7 + 2 C_3 C_{g4} L_1 g_{m7} \tau_1 s^6 + C_3 C_{g4} L_1 \tau_1 s^5 + 2 C_3 C_{g4} C_{g1} L_1 s^4 + C_3 C_{g4} \tau_1 s^3 + C_3 C_{g4} L_1 g_{m7} \tau_1 s^2 + C_3 C_{g4} L_1 \tau_1 s + C_3 C_{g4} L_1 s^3 - C_3 L_1 g_{m7}^2 \tau_1^2 s^2 - C_3 L_1 g_{m7} s^2 - C_3 g_{m7} \tau_1 s + C_1 C_{g6} C_{g4} L_1 \tau_1^2 s^4 + C_1 C_{g4} L_1 g_{m7} \tau_1 s^3 + 2 C_1 C_{g4} L_1 g_{m7} \tau_1 s^2 + 2 C_1 C_{g4} L_1 g_{m7} \tau_1 s + C_1 C_{g4} L_1 \tau_1 s^3 + C_1 C_{g4} L_1 s^3 - C_1 L_1 g_{m7}^2 \tau_1^2 s^2 - C_1 L_1 g_{m7} s^2 - C_1 g_{m7} \tau_1 s + C_2^2 C_{g9} L_1 \tau_1^2 s^4 + C_2^2 L_1 g_{m7} \tau_1^2 s^3 + C_2^2 L_1 g_{m7} \tau_1 s^2 + C_2^2 L_1 \tau_1 s^3 + C_2^2 g_{m7} \tau_1 s^2 - C_{g2} C_{g4} L_1 g_{m7} \tau_1^2 s^3 + C_{g2} C_{g4} L_1 \tau_1 s^3 - C_{g2} L_1 g_{m7}^2 \tau_1^2 s^2 - C_{g2} L_1 g_{m7} \tau_1 s^2 - C_{g2} g_{m7} \tau_1 s + C_2^2 g_{m7} \tau_1 s^2 + C_2^2 g_{m7} \tau_1 s}$$

10.113 INVALID-ORDER-113 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

[illegible]

10.114 INVALID-ORDER-114 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

[illegible]

10.115 INVALID-ORDER-115 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_{3s}}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

10.116 INVALID-ORDER-116 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

10.117 INVALID-ORDER-117 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

10.118 INVALID-ORDER-118 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

10.119 INVALID-ORDER-119 $Z(s) = \left(L_1 s, \infty, \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = C_{31}C_{a0}C_{a0}L_1L_1L_1R_1R_1R_1s^6 + C_{32}C_{a0}C_{a0}L_1L_1L_1R_1R_1R_1s^6 + 2C_{33}C_{a0}C_{a0}L_1L_1L_1R_1R_1R_1s^6 + C_{34}C_{a0}C_{a0}L_1L_1L_1R_1R_1R_1s^6 + 2C_{35}C_{a0}C_{a0}L_1L_1L_1R_1R_1s^6 + C_{36}C_{a0}C_{a0}L_1L_1L_1R_1R_1s^6 + C_{37}C_{a0}C_{a0}L_1L_1L_1R_1R_1s^6 + C_{38}C_{a0}C_{a0}L_1L_1L_1R_1R_1s^6 + C_{39}C_{a0}C_{a0}L_1L_1L_1R_1R_1s^6 - C_{31}C_{a0}L_1L_1L_1R_1R_1R_1s^6 - C_{32}C_{a0}L_1L_1L_1R_1R_1R_1s^6 - C_{33}C_{a0}L_1L_1L_1R_1R_1R_1s^6 - C_{34}C_{a0}L_1L_1L_1R_1R_1R_1s^6 - C_{35}C_{a0}L_1L_1L_1R_1R_1R_1s^6 - C_{36}C_{a0}L_1L_1L_1R_1R_1R_1s^6 - C_{37}C_{a0}L_1L_1L_1R_1R_1R_1s^6 - C_{38}C_{a0}L_1L_1L_1R_1R_1R_1s^6 - C_{39}C_{a0}L_1L_1L_1R_1R_1R_1s^6$$

$$10.120 \quad \text{INVALID-ORDER-120} \quad Z(s) = \left(L_1 s, \infty, \frac{1}{C_{3s}}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_{Ls}} \right)}{L_L s + R_L + \frac{1}{C_{Ls}}} \right)$$

$$H(s) = C_3C_1C_{gd}C_{gs}L_1L_1L_1R_{lr}^2s^6 + C_3C_3C_1C_{gd}L_1L_1L_1R_{lgm}^2s^5 + 2C_3C_1C_{gd}L_1L_1L_1R_{lgm}^2s^5 + C_3C_1C_{gd}L_1L_1L_1R_{lr}^2s^5 + 2C_3C_1C_{gd}L_1L_1L_1R_{lr}^2s^5 + C_3C_1C_{gd}L_1L_1L_1R_{lr}^2s^5 + C_3C_1C_{gs}L_1L_1L_1R_{lr}^2s^5 + C_3C_1C_{gs}L_1L_1L_1R_{lr}^2s^5 - C_3C_1L_1L_1L_1R_{lr}^2s^5 - C_3C_1L_1L_1L_1R_{lgm}^2s^5 - C_3C_1L_1L_1R_{lgm}^2s^5 + C_3C_{gd}C_{gs}L_1L_1R_{lr}^2s^4 + C_3C_{gd}L_1L_1R_{lgm}^2s^4 + 2C_3C_{gd}L_1L_1R_{lgm}^2s^4 + 2C_3C_{gd}L_1L_1R_{lgm}^2s^4 + C_3C_{gd}L_1L_1R_{lr}^2s^4 + 2C_3C_{gd}L_1L_1R_{lr}^2s^4 + C_3C_{gs}L_1L_1R_{lr}^2s^4 + C_3C_{gs}L_1L_1R_{lr}^2s^4 - C_3C_1L_1L_1R_{lr}^2s^4 - C_3C_1L_1R_{lgm}^2s^4 - C_3C_1R_{lgm}^2s^4 + C_3C_{gs}L_1L_1R_{lr}^2s^4 + C_3C_{gs}L_1L_1R_{lr}^2s^4 - C_3C_1L_1L_1R_{lr}^2s^4 - C_3C_1L_1R_{lgm}^2s^4 - C_3C_1R_{lgm}^2s^4$$

10.121 INVALID-ORDER-121 $Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L \right)$

10.122 INVALID-ORDER-122 $Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s} \right)$

10.123 INVALID-ORDER-123 $Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

10.124 INVALID-ORDER-124 $Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

10.125 INVALID-ORDER-125 $Z(s) = \left(L_1 s, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

10.238 INVALID-ORDER-238 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

[illegible]

10.239 INVALID-ORDER-239 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

[illegible]

10.240 INVALID-ORDER-240 $Z(s) = \left(\frac{1}{C_1 s}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.241 INVALID-ORDER-241 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L \right)$

10.242 INVALID-ORDER-242 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s} \right)$

10.243 INVALID-ORDER-243 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

10.244 INVALID-ORDER-244 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

10.245 INVALID-ORDER-245 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

10.246 INVALID-ORDER-246 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L s^2 + 1} \right)$

10.247 INVALID-ORDER-247 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.248 INVALID-ORDER-248 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

$$H(s) = -C_1 C_3 C_4 C_{g0} L_3 L_1 L_1 R_{1\tau} s^6 - C_1 C_3 C_4 L_3 L_1 L_1 R_{1g} m \tau s^5 + C_1 C_3 C_4^2 L_3 L_1 L_1 \tau s^6 - C_1 C_3 C_4 C_{g0} L_3 L_1 L_1 g m \tau s^5 + C_1 C_3 C_{g0} L_3 L_1 L_1 R_1 s^5 + C_1 C_3 C_{g0} L_3 L_1 L_1 \tau s^5 + C_1 C_3 C_{g0} L_3 L_1 L_1 \tau s^5 + C_1 C_3 C_{g0} L_1 L_1 \tau s^4 - C_1 C_3 L_3 L_1 L_1 g m^4 s^4 - C_1 C_3 L_3 L_1 L_1 g m \tau s^4 - C_1 C_3 L_3 L_1 g m \tau s^4 - C_1 C_3 L_3 L_1 g m \tau s^4 - C_1 C_3 L_1 L_1 g m \tau s^4 + C_1 C_1 C_{g0} L_1 L_1 \tau s^4 - C_1 C_1 L_1 L_1 g m \tau s^4 + C_1^2 C_2 L_1 L_1 \tau s^4 - C_1 C_1 C_{g0} L_1 L_1 \tau s^4 + C_1 C_{g0} L_1 R_1 s^3 + C_1 C_{g0} L_1 \tau s^3 + C_1 C_{g0} L_1 \tau s^3 + C_1 C_{g0} L_1 \tau s^3 - C_1 L_1 L_1 g m^2 s^3 - C_1 L_1 g m \tau s^3 + C_3 C_1 C_{g0} C_{g0} L_3 L_1 L_1 \tau s^2 s^3 + C_3 C_1 C_{g0} L_3 L_1 L_1 g m \tau s^2 s^3 + 2 C_3 C_1 L_1$$

10.249 INVALID-ORDER-249 $Z(s) = \left(\frac{1}{C_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

[illegible]

10.250 INVALID-ORDER-250 $Z(s) = \left(\frac{1}{L_1 s}, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.251 INVALID-ORDER-251 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L \right)$

$$H(s) = \frac{L_3 R_{L3} s (C_{p2} s - g_m) (g_m r_{\pi} s + 1)}{C_1 C_3 C_{m2} L_3 R_{1r} r_{\pi} s^4 - C_1 C_3 L_3 R_{1r} g_m r_{\pi} r_{\pi} s^3 + C_1^2 C_2^2 L_3 R_{1r} r_{\pi} s^4 - C_1 C_{m2} L_3 R_{1r} g_m r_{\pi} r_{\pi} s^3 + C_1 C_{m2} L_3 R_{1r} s^3 + C_1 C_{m2} L_3 R_{1r} r_{\pi} s^3 + C_1 C_{m2} L_3 R_{1r} r_{\pi} s^2 - C_1 L_3 R_{1r} g_m r_{\pi} s^2 - C_1 L_3 g_m r_{\pi} s^2 - C_1 R_{1r} g_m r_{\pi} s + C_3 C_{m2} C_{m3} L_3 R_{1r} r_{\pi}^2 s^4 + C_3 C_{m2} L_3 R_{1r} g_m r_{\pi}^2 s^3 + 2 C_3 C_{m2} C_{p2} L_3 R_{1r} g_m r_{\pi} s^3 + C_3 C_{m2} L_3 R_{1r} r_{\pi} s^3 + 2 C_3 C_{m2} C_{p2} L_3 R_{1r} s^3 + C_3 C_{m2} L_3 R_{1r} g_m r_{\pi} s^2 + C_3 C_{m2} L_3 R_{1r} r_{\pi} s^2 + C_3 C_{m2} L_3 R_{1r} s^2 - C_3 L_3 R_{1r} g_m r_{\pi} s^2 - C_3 L_3 R_{1r} g_m r_{\pi} s^2 + C_3^2 C_{m2} L_3 R_{1r} r_{\pi}^2 s^4 + C_3 C_{m2} L_3 R_{1r} g_m r_{\pi}^2 s^3 + C_3 C_{m2} L_3 R_{1r} r_{\pi} s^3 + C_3 C_{m2} L_3 R_{1r} s^3 - C_3 L_3 R_{1r} g_m r_{\pi} s^3 - C_3 L_3 R_{1r} g_m r_{\pi} s^3 + C_{m2} C_{m3} L_3 R_{1r} r_{\pi}^2 s^4 + C_{m2} C_{m3} L_3 R_{1r} g_m r_{\pi}^2 s^3 + C_{m2} C_{m3} L_3 R_{1r} r_{\pi} s^3 + C_{m2} C_{m3} L_3 R_{1r} s^3 - C_{m2} L_3 R_{1r} g_m r_{\pi}^2 s^4 - C_{m2} L_3 R_{1r} g_m r_{\pi}^2 s^4}$$

10.252 INVALID-ORDER-252 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_{\mathcal{S}}(C_{\mathcal{S}}g_{\mathcal{S}} - g_{\mathcal{M}})(C_{\mathcal{M}}g_{\mathcal{M}} + 1)}{C_1C_3C_{\mathcal{S}}C_{\mathcal{M}}L_{\mathcal{S}}r_{\mathcal{S}}s^6 - C_1C_3L_{\mathcal{S}}g_{\mathcal{M}}r_{\mathcal{S}}s^5 + C_1C_1C_{\mathcal{M}}L_{\mathcal{S}}r_{\mathcal{S}}s^4 - C_1C_1L_{\mathcal{S}}g_{\mathcal{M}}r_{\mathcal{S}}s^3 + C_1C_1^2C_{\mathcal{S}}L_{\mathcal{S}}r_{\mathcal{S}}s^4 - C_1C_{\mathcal{M}}L_{\mathcal{S}}g_{\mathcal{M}}r_{\mathcal{S}}s^3 + C_1C_{\mathcal{M}}L_{\mathcal{S}}s^3 + C_1L_{\mathcal{S}}g_{\mathcal{M}}s^2 - C_1g_{\mathcal{M}}r_{\mathcal{S}}s + C_3C_3C_{\mathcal{M}}L_{\mathcal{S}}r_{\mathcal{S}}s^4 + C_3^2C_{\mathcal{M}}L_{\mathcal{S}}g_{\mathcal{M}}r_{\mathcal{S}}s^3 + 2C_3C_{\mathcal{M}}L_{\mathcal{S}}g_{\mathcal{M}}r_{\mathcal{S}}s^3 + C_3^2C_{\mathcal{M}}L_{\mathcal{S}}r_{\mathcal{S}}s^3 + 2C_3C_{\mathcal{M}}L_{\mathcal{S}}s^3 + C_3C_{\mathcal{M}}L_{\mathcal{S}}g_{\mathcal{M}}r_{\mathcal{S}}s^3 + C_3C_{\mathcal{M}}L_{\mathcal{S}}s^3 + C_3^2C_{\mathcal{M}}L_{\mathcal{S}}s^3 - C_3L_{\mathcal{S}}g_{\mathcal{M}}^2r_{\mathcal{S}}s^3 - C_3L_{\mathcal{S}}g_{\mathcal{M}}s^2 + C_1C_1C_{\mathcal{M}}L_{\mathcal{S}}r_{\mathcal{S}}s^3 + C_1C_1C_{\mathcal{M}}L_{\mathcal{S}}s^3 + C_1C_{\mathcal{M}}L_{\mathcal{S}}g_{\mathcal{M}}r_{\mathcal{S}}s^3 + C_1C_{\mathcal{M}}L_{\mathcal{S}}s^3 + C_1C_{\mathcal{M}}L_{\mathcal{S}}s^3 - C_1L_{\mathcal{S}}g_{\mathcal{M}}^2r_{\mathcal{S}}s^2 - C_1L_{\mathcal{S}}g_{\mathcal{M}}s^2 + C_3^2C_{\mathcal{M}}L_{\mathcal{S}}r_{\mathcal{S}}s^3 + C_3^2L_{\mathcal{S}}g_{\mathcal{M}}r_{\mathcal{S}}s^3}$$

10.253 INVALID-ORDER-253 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

[illegible]

10.254 INVALID-ORDER-254 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

[illegible]

10.255 INVALID-ORDER-255 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

10.256 INVALID-ORDER-256 $Z(s) = \left(\frac{1}{C_1 s}, \infty, \frac{L_{3s}}{C_3 L_{3s^2+1}}, \infty, \infty, \frac{L_L s}{C_L L_L s^2+1} \right)$

[illegible]

10.824 INVALID-ORDER-824 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

[illegible]

10.825 INVALID-ORDER-825 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -C_1C_2C_3C_{g4}L_1L_1R_1R_3r_{\sigma}^{s-6} - C_1C_3C_4L_1L_1R_1R_3g_{m}r_{\sigma}^{s-5} + C_1C_3C_{g4}L_1R_1R_3r_{\sigma}^{s-4} - C_1C_3L_1R_1R_3g_{m}r_{\sigma}^{s-3} + C_1C_1C_{g4}^2L_1L_1R_1R_3r_{\sigma}^{s-6} - C_1C_1C_{g4}L_1L_1R_1R_3g_{m}r_{\sigma}^{s-5} + C_1C_1C_{g4}L_1L_1R_1R_3r_{\sigma}^{s-4} - C_1C_1C_{g4}L_1L_1R_1R_3g_{m}r_{\sigma}^{s-3} + C_1C_1C_{g4}L_1L_1R_1r_{\sigma}^{s-3} + C_1C_1C_{g4}L_1R_1R_3r_{\sigma}^{s-4} - C_1C_1C_{g4}L_1L_1R_1R_3g_{m}r_{\sigma}^{s-4} - C_1C_1C_4L_1L_1R_1R_3g_{m}r_{\sigma}^{s-4} - C_1C_1C_4L_1L_1R_1g_{m}r_{\sigma}^{s-4} - C_1C_1C_4L_1R_1R_3g_{m}r_{\sigma}^{s-3} + C_1C_1^2L_1L_1R_1R_3r_{\sigma}^{s-4} - C_1C_1C_{g4}L_1R_1R_3g_{m}r_{\sigma}^{s-3} + C_1C_{g4}L_1R_1R_3r_{\sigma}^{s-3} - C_1L_1R_1R_3g_{m}r_{\sigma}^{s-2} - C_1L_1R_1g_{m}r_{\sigma}^{s-2} + C_2C_4C_{g4}C_{g4}L_1L_1R_1R_3R_3r_{\sigma}^{s-6} + C_2C_4C_{g4}L_1L_1R_1R_3g_{m}r_{\sigma}^{s-5} + 2C_2C_4C_4C_{g4}L_1L_1R_1R_3g_{m}r_{\sigma}^{s-5} +$$

10.826 INVALID-ORDER-826 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

[illegible]

10.827 INVALID-ORDER-827 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

[illegible]

10.828 INVALID-ORDER-828 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

10.829 INVALID-ORDER-829 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

[illegible]

10.830 INVALID-ORDER-830 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \infty, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

10.831 INVALID-ORDER-831 $Z(s) = \left(\frac{1}{C_{1s} + \frac{1}{R_1 + \frac{1}{L_{1s}}}}, \infty, R_3 + \frac{1}{C_{3s}}, \infty, \infty, R_L \right)$

[illegible]

10.832 INVALID-ORDER-832 $Z(s) = \left(\frac{1}{C_{1s} + \frac{1}{R_1 + \frac{1}{L_{1s}}}}, \infty, R_3 + \frac{1}{C_{3s}}, \infty, \infty, \frac{1}{C_{Ls}} \right)$

[illegible]

10.833 INVALID-ORDER-833 $Z(s) = \left(\frac{1}{C_{18}s + \frac{1}{R_1 + \frac{1}{L_{18}s}}}, \infty, R_3 + \frac{1}{C_{38}s}, \infty, \infty, \frac{R_L}{C_L R_L s + 1} \right)$

[illegible]

10.834 INVALID-ORDER-834 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1} + \frac{1}{L_1 s}}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, R_L + \frac{1}{C_L s} \right)$

[illegible]

10.835 INVALID-ORDER-835 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + \frac{1}{C_L s} \right)$

10.836 INVALID-ORDER-836 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_f s}{C_L L_L s^2 + 1} \right)$

10.837 INVALID-ORDER-837 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{L_1 s}}}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, L_L s + R_L + \frac{1}{C_L s} \right)$

10.838 INVALID-ORDER-838 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{C_2 s}}}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{C_4 s}}} \right)$

10.839 INVALID-ORDER-839 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{R_1 + \frac{1}{C_2 s}}}, \infty, R_3 + \frac{1}{C_3 s}, \infty, \infty, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

10.840 INVALID-ORDER-840 $Z(s) = \left(\frac{1}{C_1 s + \frac{1}{1 + \frac{1}{s}}}, \infty, R_3 + \frac{1}{C_2 s}, \infty, \infty, \frac{R_L(L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

10.841 INVALID-ORDER-841 $Z(s) = \left(\frac{1}{C_{s+1+1+1}}, \infty, L_3s + \frac{1}{C_{0s}}, \infty, \infty, R_L \right)$

$$\textbf{10.1098}\quad \textbf{INVALID-ORDER-1098}\quad Z(s)=\left(\frac{R_1\left(L_1s+\frac{1}{C_1^*}\right)}{L_1s+R_1+\frac{1}{C_1^*}},\;\infty,\;\frac{R_3\left(L_3s+\frac{1}{C_3^*}\right)}{L_3s+R_3+\frac{1}{C_3^*}},\;\infty,\;\infty,\;\frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}}\right)$$

$$\frac{\overline{C_1^*}}{L_1s+R_1+\frac{1}{C_1^*}},\;\infty,\;\frac{R_3\left(L_3s+\frac{1}{C_3^*}\right)}{L_3s+R_3+\frac{1}{C_3^*}},\;\infty,\;\infty,\;\frac{L_Ls}{C_LL_Ls^2+1}+R_L\Big)$$

$$\frac{\overline{C_1^*}}{L_1s+R_1+\frac{1}{C_1^*}},\;\infty,\;\frac{R_3\left(L_3s+\frac{1}{C_3^*}\right)}{L_3s+R_3+\frac{1}{C_3^*}},\;\infty,\;\infty,\;\frac{R_L\left(L_Ls+\frac{1}{C_L^*}\right)}{L_Ls+R_L+\frac{1}{C_L^*}}\Big)$$

$$H(s)=\frac{L_LR_1R_3R_Ls\left(C_{gd}s-g_m\right)\left(g_mr_o+1\right)\left(C_1L_1s^2+1\right)\left(C_3L_3s^2+1\right)}{\quad}$$

$$H(s)=\frac{R_1R_3\left(C_{gd}s-g_m\right)\left(g_mr_o+1\right)\left(C_1L_1s^2+1\right)\left(C_3L_3s^2+1\right)\left(C_LL_LR_Ls^2+L_Ls+R_L\right)}{\quad}$$

$$H(s)=\frac{R_1R_3R_L\left(C_{gd}s-g_m\right)\left(g_mr_o+1\right)\left(C_1L_1s^2+1\right)\left(C_3L_3s^2+1\right)\left(C_LL_Ls^2+1\right)}{\quad}$$