

Filter Summary Report: TIA,simple,Z3,Z5,ZL

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10.48INVALID-ORDER-48	$Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_L L_L s^2 + 1} \right)$	94
10.49INVALID-ORDER-49	$Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	94
10.50INVALID-ORDER-50	$Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	94
10.51INVALID-ORDER-51	$Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$	95
10.52INVALID-ORDER-52	$Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	95
10.53INVALID-ORDER-53	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls} \right)$	95

10.54INVALID-ORDER-54	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	95
10.55INVALID-ORDER-55	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$	95
10.56INVALID-ORDER-56	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$	96
10.57INVALID-ORDER-57	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	96
10.58INVALID-ORDER-58	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	96
10.59INVALID-ORDER-59	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	96
10.60INVALID-ORDER-60	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	96
10.61INVALID-ORDER-61	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	97
10.62INVALID-ORDER-62	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$	97
10.63INVALID-ORDER-63	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$	97
10.64INVALID-ORDER-64	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$	97
10.65INVALID-ORDER-65	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$	97
10.66INVALID-ORDER-66	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	98
10.67INVALID-ORDER-67	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	98
10.68INVALID-ORDER-68	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	98
10.69INVALID-ORDER-69	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	98
10.70INVALID-ORDER-70	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	98
10.71INVALID-ORDER-71	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$	99
10.72INVALID-ORDER-72	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	99

10.73INVALID-ORDER-73	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, R_L + \frac{1}{C_Ls} \right)$	99
10.74INVALID-ORDER-74	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, L_Ls + \frac{1}{C_Ls} \right)$	99
10.75INVALID-ORDER-75	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{L_Ls}{C_L L_L s^2 + 1} \right)$	99
10.76INVALID-ORDER-76	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	100
10.77INVALID-ORDER-77	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	100
10.78INVALID-ORDER-78	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$	100
10.79INVALID-ORDER-79	$Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	100
10.80INVALID-ORDER-80	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5, R_L \right)$	100
10.81INVALID-ORDER-81	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5, \frac{1}{C_Ls} \right)$	101
10.82INVALID-ORDER-82	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$	101
10.83INVALID-ORDER-83	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5, L_Ls + \frac{1}{C_Ls} \right)$	101
10.84INVALID-ORDER-84	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$	101
10.85INVALID-ORDER-85	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$	101
10.86INVALID-ORDER-86	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	101
10.87INVALID-ORDER-87	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	102
10.88INVALID-ORDER-88	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	102
10.89INVALID-ORDER-89	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	102
10.90INVALID-ORDER-90	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_L L_L s^2 + 1} \right)$	102
10.91INVALID-ORDER-91	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	102
10.92INVALID-ORDER-92	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	102

10.93INVALID-ORDER-93	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	103
10.94INVALID-ORDER-94	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	103
10.95INVALID-ORDER-95	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, R_L + \frac{1}{C_Ls} \right)$	103
10.96INVALID-ORDER-96	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + \frac{1}{C_Ls} \right)$	103
10.97INVALID-ORDER-97	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	103
10.98INVALID-ORDER-98	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	104
10.99INVALID-ORDER-99	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	104
10.100INVALID-ORDER-100	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	104
10.101INVALID-ORDER-101	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	104
10.102INVALID-ORDER-102	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	104
10.103INVALID-ORDER-103	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	105
10.104INVALID-ORDER-104	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	105
10.105INVALID-ORDER-105	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	105
10.106INVALID-ORDER-106	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	105
10.107INVALID-ORDER-107	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	105
10.108INVALID-ORDER-108	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	105
10.109INVALID-ORDER-109	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	106
10.110INVALID-ORDER-110	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L \right)$	106
10.111INVALID-ORDER-111	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	106
10.112INVALID-ORDER-112	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	106
10.113INVALID-ORDER-113	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	106
10.114INVALID-ORDER-114	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	107

10.111	INVALID-ORDER-115	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	107
10.116	INVALID-ORDER-116	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	107
10.117	INVALID-ORDER-117	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	107
10.118	INVALID-ORDER-118	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	107
10.119	INVALID-ORDER-119	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	108
10.120	INVALID-ORDER-120	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$	108
10.121	INVALID-ORDER-121	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$	108
10.122	INVALID-ORDER-122	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	108
10.123	INVALID-ORDER-123	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$	108
10.124	INVALID-ORDER-124	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$	109
10.125	INVALID-ORDER-125	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	109
10.126	INVALID-ORDER-126	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	109
10.127	INVALID-ORDER-127	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	109
10.128	INVALID-ORDER-128	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	109
10.129	INVALID-ORDER-129	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	110
10.130	INVALID-ORDER-130	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$	110
10.131	INVALID-ORDER-131	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	110
10.132	INVALID-ORDER-132	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	110
10.133	INVALID-ORDER-133	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	110
10.134	INVALID-ORDER-134	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	111
10.135	INVALID-ORDER-135	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	111
10.136	INVALID-ORDER-136	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	111

10.137	INVALID-ORDER-137	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	111
10.138	INVALID-ORDER-138	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{\frac{L_L s}{C_L L_L s^2 + 1} + R_L}{C_L L_L s^2 + 1} \right)$	111
10.139	INVALID-ORDER-139	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	112
10.140	INVALID-ORDER-140	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$	112
10.141	INVALID-ORDER-141	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$	112
10.142	INVALID-ORDER-142	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	112
10.143	INVALID-ORDER-143	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$	112
10.144	INVALID-ORDER-144	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$	113
10.145	INVALID-ORDER-145	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	113
10.146	INVALID-ORDER-146	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	113
10.147	INVALID-ORDER-147	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	113
10.148	INVALID-ORDER-148	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{\frac{L_L s}{C_L L_L s^2 + 1} + R_L}{C_L L_L s^2 + 1} \right)$	113
10.149	INVALID-ORDER-149	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	114
10.150	INVALID-ORDER-150	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{\frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L}{C_5 L_5 s^2 + 1} \right)$	114
10.151	INVALID-ORDER-151	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{\frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s}}{C_5 L_5 s^2 + 1} \right)$	114
10.152	INVALID-ORDER-152	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{\frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1}}{C_5 L_5 s^2 + 1} \right)$	114
10.153	INVALID-ORDER-153	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{\frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s}}{C_5 L_5 s^2 + 1} \right)$	114
10.154	INVALID-ORDER-154	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{\frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s}}{C_5 L_5 s^2 + 1} \right)$	115
10.155	INVALID-ORDER-155	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{\frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1}}{C_5 L_5 s^2 + 1} \right)$	115
10.156	INVALID-ORDER-156	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{\frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s}}{C_5 L_5 s^2 + 1} \right)$	115

10.151INVALID-ORDER-157	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	115
10.152INVALID-ORDER-158	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	115
10.153INVALID-ORDER-159	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	116
10.160INVALID-ORDER-160	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$	116
10.161INVALID-ORDER-161	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$	116
10.162INVALID-ORDER-162	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	116
10.163INVALID-ORDER-163	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$	116
10.164INVALID-ORDER-164	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$	117
10.165INVALID-ORDER-165	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	117
10.166INVALID-ORDER-166	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	117
10.167INVALID-ORDER-167	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	117
10.168INVALID-ORDER-168	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	117
10.169INVALID-ORDER-169	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	118
10.170INVALID-ORDER-170	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, R_L \right)$	118
10.171INVALID-ORDER-171	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{1}{C_L s} \right)$	118
10.172INVALID-ORDER-172	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$	118
10.173INVALID-ORDER-173	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$	118
10.174INVALID-ORDER-174	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	118
10.175INVALID-ORDER-175	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	119

10.176	INVALID-ORDER-176	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	119
10.177	INVALID-ORDER-177	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	119
10.178	INVALID-ORDER-178	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	119
10.179	INVALID-ORDER-179	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	119
10.180	INVALID-ORDER-180	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	120
10.181	INVALID-ORDER-181	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	120
10.182	INVALID-ORDER-182	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	120
10.183	INVALID-ORDER-183	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	120
10.184	INVALID-ORDER-184	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$	120
10.185	INVALID-ORDER-185	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$	121
10.186	INVALID-ORDER-186	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	121
10.187	INVALID-ORDER-187	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	121
10.188	INVALID-ORDER-188	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	121
10.189	INVALID-ORDER-189	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	121
10.190	INVALID-ORDER-190	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	122
10.191	INVALID-ORDER-191	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	122
10.192	INVALID-ORDER-192	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	122
10.193	INVALID-ORDER-193	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	122
10.194	INVALID-ORDER-194	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	122
10.195	INVALID-ORDER-195	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	123
10.196	INVALID-ORDER-196	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	123

10.197INVALID-ORDER-197	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	123
10.198INVALID-ORDER-198	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$	123
10.199INVALID-ORDER-199	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	123
10.200INVALID-ORDER-200	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	124
10.201INVALID-ORDER-201	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	124
10.202INVALID-ORDER-202	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	124
10.203INVALID-ORDER-203	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	124
10.204INVALID-ORDER-204	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	124
10.205INVALID-ORDER-205	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	125
10.206INVALID-ORDER-206	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	125
10.207INVALID-ORDER-207	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	125
10.208INVALID-ORDER-208	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$	125
10.209INVALID-ORDER-209	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$	125
10.210INVALID-ORDER-210	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	126
10.211INVALID-ORDER-211	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$	126
10.212INVALID-ORDER-212	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$	126
10.213INVALID-ORDER-213	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	126
10.214INVALID-ORDER-214	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	126
10.215INVALID-ORDER-215	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	127
10.216INVALID-ORDER-216	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	127
10.217INVALID-ORDER-217	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	127
10.218INVALID-ORDER-218	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$	127

10.21 INVALID-ORDER-219	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	127
10.22 INVALID-ORDER-220	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	128
10.22 INVALID-ORDER-221	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	128
10.22 INVALID-ORDER-222	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	128
10.22 INVALID-ORDER-223	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	128
10.22 INVALID-ORDER-224	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	128
10.22 INVALID-ORDER-225	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	129
10.22 INVALID-ORDER-226	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	129
10.22 INVALID-ORDER-227	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	129
10.22 INVALID-ORDER-228	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$	129
10.22 INVALID-ORDER-229	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$	129
10.23 INVALID-ORDER-230	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	130
10.23 INVALID-ORDER-231	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$	130
10.23 INVALID-ORDER-232	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$	130
10.23 INVALID-ORDER-233	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	130
10.23 INVALID-ORDER-234	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	130
10.23 INVALID-ORDER-235	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	131
10.23 INVALID-ORDER-236	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	131
10.23 INVALID-ORDER-237	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	131
10.23 INVALID-ORDER-238	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$	131

10.23	INVALID-ORDER-239	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$	131
10.24	INVALID-ORDER-240	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$	132
10.24	INVALID-ORDER-241	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$	132
10.24	INVALID-ORDER-242	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$	132
10.24	INVALID-ORDER-243	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	132
10.24	INVALID-ORDER-244	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	132
10.24	INVALID-ORDER-245	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	133
10.24	INVALID-ORDER-246	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	133
10.24	INVALID-ORDER-247	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	133
10.24	INVALID-ORDER-248	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$	133
10.24	INVALID-ORDER-249	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$	133
10.25	INVALID-ORDER-250	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	134
10.25	INVALID-ORDER-251	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$	134
10.25	INVALID-ORDER-252	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$	134
10.25	INVALID-ORDER-253	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	134
10.25	INVALID-ORDER-254	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	134
10.25	INVALID-ORDER-255	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	135
10.25	INVALID-ORDER-256	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	135
10.25	INVALID-ORDER-257	$Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	135

10.25 5 INVALID-ORDER-258	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, R_L \right)$	135
10.25 9 INVALID-ORDER-259	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$	135
10.26 0 INVALID-ORDER-260	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	136
10.26 1 INVALID-ORDER-261	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	136
10.26 2 INVALID-ORDER-262	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	136
10.26 3 INVALID-ORDER-263	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	136
10.26 4 INVALID-ORDER-264	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	136
10.26 5 INVALID-ORDER-265	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	137
10.26 6 INVALID-ORDER-266	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	137
10.26 7 INVALID-ORDER-267	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	137
10.26 8 INVALID-ORDER-268	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	137
10.26 9 INVALID-ORDER-269	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	137
10.27 0 INVALID-ORDER-270	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	137
10.27 1 INVALID-ORDER-271	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	138
10.27 2 INVALID-ORDER-272	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	138
10.27 3 INVALID-ORDER-273	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	138
10.27 4 INVALID-ORDER-274	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$	138
10.27 5 INVALID-ORDER-275	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	138
10.27 6 INVALID-ORDER-276	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$	139
10.27 7 INVALID-ORDER-277	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$	139
10.27 8 INVALID-ORDER-278	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	139
10.27 9 INVALID-ORDER-279	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	139

10.280INVALID-ORDER-280	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	139
10.281INVALID-ORDER-281	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	139
10.282INVALID-ORDER-282	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	140
10.283INVALID-ORDER-283	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	140
10.284INVALID-ORDER-284	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	140
10.285INVALID-ORDER-285	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	140
10.286INVALID-ORDER-286	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	140
10.287INVALID-ORDER-287	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	140
10.288INVALID-ORDER-288	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	141
10.289INVALID-ORDER-289	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	141
10.290INVALID-ORDER-290	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	141
10.291INVALID-ORDER-291	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	141
10.292INVALID-ORDER-292	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$	141
10.293INVALID-ORDER-293	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	142
10.294INVALID-ORDER-294	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	142
10.295INVALID-ORDER-295	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	142
10.296INVALID-ORDER-296	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	142
10.297INVALID-ORDER-297	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	142
10.298INVALID-ORDER-298	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	142
10.299INVALID-ORDER-299	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	143
10.300INVALID-ORDER-300	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	143
10.301INVALID-ORDER-301	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	143

10.302INVALID-ORDER-302	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$	143
10.303INVALID-ORDER-303	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$	143
10.304INVALID-ORDER-304	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	144
10.305INVALID-ORDER-305	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$	144
10.306INVALID-ORDER-306	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$	144
10.307INVALID-ORDER-307	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	144
10.308INVALID-ORDER-308	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	144
10.309INVALID-ORDER-309	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	145
10.310INVALID-ORDER-310	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	145
10.311INVALID-ORDER-311	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	145
10.312INVALID-ORDER-312	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$	145
10.313INVALID-ORDER-313	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	145
10.314INVALID-ORDER-314	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	146
10.315INVALID-ORDER-315	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	146
10.316INVALID-ORDER-316	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	146
10.317INVALID-ORDER-317	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	146
10.318INVALID-ORDER-318	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	146
10.319INVALID-ORDER-319	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	147
10.320INVALID-ORDER-320	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	147
10.321INVALID-ORDER-321	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	147
10.322INVALID-ORDER-322	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$	147
10.323INVALID-ORDER-323	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$	147

10.321INVALID-ORDER-324	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	148
10.325INVALID-ORDER-325	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$	148
10.326INVALID-ORDER-326	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$	148
10.327INVALID-ORDER-327	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	148
10.328INVALID-ORDER-328	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	148
10.329INVALID-ORDER-329	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	149
10.330INVALID-ORDER-330	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	149
10.331INVALID-ORDER-331	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	149
10.332INVALID-ORDER-332	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$	149
10.333INVALID-ORDER-333	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$	149
10.334INVALID-ORDER-334	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$	150
10.335INVALID-ORDER-335	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$	150
10.336INVALID-ORDER-336	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$	150
10.337INVALID-ORDER-337	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	150
10.338INVALID-ORDER-338	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	150
10.339INVALID-ORDER-339	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	151
10.340INVALID-ORDER-340	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	151
10.341INVALID-ORDER-341	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	151
10.342INVALID-ORDER-342	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$	151
10.343INVALID-ORDER-343	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$	151

10.341INVALID-ORDER-344	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	152
10.342INVALID-ORDER-345	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$	152
10.343INVALID-ORDER-346	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$	152
10.344INVALID-ORDER-347	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	152
10.345INVALID-ORDER-348	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	152
10.346INVALID-ORDER-349	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	153
10.350INVALID-ORDER-350	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	153
10.351INVALID-ORDER-351	$Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	153
10.352INVALID-ORDER-352	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s} \right)$	153
10.353INVALID-ORDER-353	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$	153
10.354INVALID-ORDER-354	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$	154
10.355INVALID-ORDER-355	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$	154
10.356INVALID-ORDER-356	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	154
10.357INVALID-ORDER-357	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	154
10.358INVALID-ORDER-358	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	154
10.359INVALID-ORDER-359	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	155
10.360INVALID-ORDER-360	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	155
10.361INVALID-ORDER-361	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, R_L \right)$	155
10.362INVALID-ORDER-362	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	155
10.363INVALID-ORDER-363	$Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	155

10.361	INVALID-ORDER-364	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	156
10.365	INVALID-ORDER-365	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	156
10.366	INVALID-ORDER-366	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	156
10.367	INVALID-ORDER-367	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	156
10.368	INVALID-ORDER-368	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	156
10.369	INVALID-ORDER-369	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	157
10.370	INVALID-ORDER-370	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	157
10.371	INVALID-ORDER-371	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, R_L \right)$	157
10.372	INVALID-ORDER-372	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls} \right)$	157
10.373	INVALID-ORDER-373	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{R_L}{C_LR_Ls+1} \right)$	157
10.374	INVALID-ORDER-374	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, R_L + \frac{1}{C_Ls} \right)$	158
10.375	INVALID-ORDER-375	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + \frac{1}{C_Ls} \right)$	158
10.376	INVALID-ORDER-376	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	158
10.377	INVALID-ORDER-377	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	158
10.378	INVALID-ORDER-378	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	158
10.379	INVALID-ORDER-379	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	159
10.380	INVALID-ORDER-380	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	159
10.381	INVALID-ORDER-381	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, R_L \right)$	159
10.382	INVALID-ORDER-382	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	159
10.383	INVALID-ORDER-383	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	159
10.384	INVALID-ORDER-384	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	160
10.385	INVALID-ORDER-385	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	160

10.386INVALID-ORDER-386	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	160
10.387INVALID-ORDER-387	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	160
10.388INVALID-ORDER-388	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	160
10.389INVALID-ORDER-389	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	161
10.390INVALID-ORDER-390	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	161
10.391INVALID-ORDER-391	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L \right)$	161
10.392INVALID-ORDER-392	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	161
10.393INVALID-ORDER-393	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	161
10.394INVALID-ORDER-394	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	162
10.395INVALID-ORDER-395	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	162
10.396INVALID-ORDER-396	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	162
10.397INVALID-ORDER-397	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	162
10.398INVALID-ORDER-398	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	162
10.399INVALID-ORDER-399	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	163
10.400INVALID-ORDER-400	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	163
10.401INVALID-ORDER-401	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, R_L \right)$	163
10.402INVALID-ORDER-402	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{1}{C_Ls} \right)$	163
10.403INVALID-ORDER-403	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{R_L}{C_LR_Ls+1} \right)$	163
10.404INVALID-ORDER-404	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, R_L + \frac{1}{C_Ls} \right)$	164
10.405INVALID-ORDER-405	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, L_Ls + \frac{1}{C_Ls} \right)$	164
10.406INVALID-ORDER-406	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	164
10.407INVALID-ORDER-407	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	164

10.40 8 INVALID-ORDER-408	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	164
10.40 9 INVALID-ORDER-409	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	165
10.41 0 INVALID-ORDER-410	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	165
10.41 1 INVALID-ORDER-411	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L \right)$	165
10.41 2 INVALID-ORDER-412	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	165
10.41 3 INVALID-ORDER-413	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	165
10.41 4 INVALID-ORDER-414	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	166
10.41 5 INVALID-ORDER-415	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	166
10.41 6 INVALID-ORDER-416	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	166
10.41 7 INVALID-ORDER-417	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	166
10.41 8 INVALID-ORDER-418	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	166
10.41 9 INVALID-ORDER-419	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	167
10.42 0 INVALID-ORDER-420	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	167
10.42 1 INVALID-ORDER-421	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L \right)$	167
10.42 2 INVALID-ORDER-422	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls} \right)$	167
10.42 3 INVALID-ORDER-423	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{R_L}{C_LR_Ls+1} \right)$	167
10.42 4 INVALID-ORDER-424	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L + \frac{1}{C_Ls} \right)$	168
10.42 5 INVALID-ORDER-425	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + \frac{1}{C_Ls} \right)$	168
10.42 6 INVALID-ORDER-426	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	168
10.42 7 INVALID-ORDER-427	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	168

10.42 8 INVALID-ORDER-428	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	168
10.42 9 INVALID-ORDER-429	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	169
10.43 0 INVALID-ORDER-430	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	169
10.43 1 INVALID-ORDER-431	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, R_L \right)$	169
10.43 2 INVALID-ORDER-432	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{1}{C_Ls} \right)$	169
10.43 3 INVALID-ORDER-433	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{R_L}{C_LR_Ls+1} \right)$	169
10.43 4 INVALID-ORDER-434	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, R_L + \frac{1}{C_Ls} \right)$	170
10.43 5 INVALID-ORDER-435	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, L_Ls + \frac{1}{C_Ls} \right)$	170
10.43 6 INVALID-ORDER-436	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	170
10.43 7 INVALID-ORDER-437	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$	170
10.43 8 INVALID-ORDER-438	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	170
10.43 9 INVALID-ORDER-439	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	171
10.44 0 INVALID-ORDER-440	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	171
10.44 1 INVALID-ORDER-441	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, R_L \right)$	171
10.44 2 INVALID-ORDER-442	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{1}{C_Ls} \right)$	171
10.44 3 INVALID-ORDER-443	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{R_L}{C_LR_Ls+1} \right)$	171
10.44 4 INVALID-ORDER-444	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, R_L + \frac{1}{C_Ls} \right)$	172
10.44 5 INVALID-ORDER-445	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, L_Ls + \frac{1}{C_Ls} \right)$	172
10.44 6 INVALID-ORDER-446	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	172

10.447	INVALID-ORDER-447	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	172
10.448	INVALID-ORDER-448	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	172
10.449	INVALID-ORDER-449	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$	173
10.450	INVALID-ORDER-450	$Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	173
10.451	INVALID-ORDER-451	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, R_5, R_L + \frac{1}{C_Ls} \right)$	173
10.452	INVALID-ORDER-452	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, R_5, L_Ls + \frac{1}{C_Ls} \right)$	173
10.453	INVALID-ORDER-453	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$	173
10.454	INVALID-ORDER-454	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, R_5, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$	174
10.455	INVALID-ORDER-455	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, R_5, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	174
10.456	INVALID-ORDER-456	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, R_L \right)$	174
10.457	INVALID-ORDER-457	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	174
10.458	INVALID-ORDER-458	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls + 1} \right)$	174
10.459	INVALID-ORDER-459	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	174
10.460	INVALID-ORDER-460	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	175
10.461	INVALID-ORDER-461	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$	175
10.462	INVALID-ORDER-462	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	175
10.463	INVALID-ORDER-463	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	175
10.464	INVALID-ORDER-464	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2 + 1} + R_L \right)$	175
10.465	INVALID-ORDER-465	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	176
10.466	INVALID-ORDER-466	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{R_5}{C_5R_5s + 1}, R_L \right)$	176
10.467	INVALID-ORDER-467	$Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2 + 1}, \infty, \frac{R_5}{C_5R_5s + 1}, \frac{1}{C_Ls} \right)$	176

10.468INVALID-ORDER-468	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	176
10.469INVALID-ORDER-469	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$	176
10.470INVALID-ORDER-470	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$	176
10.471INVALID-ORDER-471	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	177
10.472INVALID-ORDER-472	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	177
10.473INVALID-ORDER-473	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	177
10.474INVALID-ORDER-474	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	177
10.475INVALID-ORDER-475	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	177
10.476INVALID-ORDER-476	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$	178
10.477INVALID-ORDER-477	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	178
10.478INVALID-ORDER-478	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	178
10.479INVALID-ORDER-479	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	178
10.480INVALID-ORDER-480	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	178
10.481INVALID-ORDER-481	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	178
10.482INVALID-ORDER-482	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	179
10.483INVALID-ORDER-483	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	179
10.484INVALID-ORDER-484	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	179
10.485INVALID-ORDER-485	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	179
10.486INVALID-ORDER-486	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$	179
10.487INVALID-ORDER-487	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	180
10.488INVALID-ORDER-488	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	180
10.489INVALID-ORDER-489	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	180

10.490INVALID-ORDER-490	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	180
10.491INVALID-ORDER-491	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	180
10.492INVALID-ORDER-492	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	180
10.493INVALID-ORDER-493	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$	181
10.494INVALID-ORDER-494	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	181
10.495INVALID-ORDER-495	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	181
10.496INVALID-ORDER-496	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$	181
10.497INVALID-ORDER-497	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$	181
10.498INVALID-ORDER-498	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	182
10.499INVALID-ORDER-499	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$	182
10.500INVALID-ORDER-500	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$	182
10.501INVALID-ORDER-501	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	182
10.502INVALID-ORDER-502	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	182
10.503INVALID-ORDER-503	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$	183
10.504INVALID-ORDER-504	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	183
10.505INVALID-ORDER-505	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	183
10.506INVALID-ORDER-506	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$	183
10.507INVALID-ORDER-507	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	183
10.508INVALID-ORDER-508	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	184
10.509INVALID-ORDER-509	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	184
10.510INVALID-ORDER-510	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	184
10.511INVALID-ORDER-511	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	184

10.512INVALID-ORDER-512	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	184
10.513INVALID-ORDER-513	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	185
10.514INVALID-ORDER-514	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	185
10.515INVALID-ORDER-515	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	185
10.516INVALID-ORDER-516	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$	185
10.517INVALID-ORDER-517	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$	185
10.518INVALID-ORDER-518	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	186
10.519INVALID-ORDER-519	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$	186
10.520INVALID-ORDER-520	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$	186
10.521INVALID-ORDER-521	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	186
10.522INVALID-ORDER-522	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	186
10.523INVALID-ORDER-523	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	187
10.524INVALID-ORDER-524	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	187
10.525INVALID-ORDER-525	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	187
10.526INVALID-ORDER-526	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$	187
10.527INVALID-ORDER-527	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$	187
10.528INVALID-ORDER-528	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$	188
10.529INVALID-ORDER-529	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$	188
10.530INVALID-ORDER-530	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$	188
10.531INVALID-ORDER-531	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	188

10.532	INVALID-ORDER-532	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	188
10.533	INVALID-ORDER-533	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	189
10.534	INVALID-ORDER-534	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	189
10.535	INVALID-ORDER-535	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	189
10.536	INVALID-ORDER-536	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$	189
10.537	INVALID-ORDER-537	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$	189
10.538	INVALID-ORDER-538	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	190
10.539	INVALID-ORDER-539	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$	190
10.540	INVALID-ORDER-540	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$	190
10.541	INVALID-ORDER-541	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	190
10.542	INVALID-ORDER-542	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	190
10.543	INVALID-ORDER-543	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	191
10.544	INVALID-ORDER-544	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	191
10.545	INVALID-ORDER-545	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	191
10.546	INVALID-ORDER-546	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s} \right)$	191
10.547	INVALID-ORDER-547	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$	191
10.548	INVALID-ORDER-548	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$	192
10.549	INVALID-ORDER-549	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$	192
10.550	INVALID-ORDER-550	$Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	192

10.55	INVALID-ORDER-551	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$	192
10.55	INVALID-ORDER-552	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	192
10.55	INVALID-ORDER-553	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	193
10.55	INVALID-ORDER-554	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	193
10.55	INVALID-ORDER-555	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, R_L \right)$	193
10.55	INVALID-ORDER-556	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	193
10.55	INVALID-ORDER-557	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	193
10.55	INVALID-ORDER-558	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	194
10.55	INVALID-ORDER-559	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	194
10.56	INVALID-ORDER-560	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	194
10.56	INVALID-ORDER-561	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	194
10.56	INVALID-ORDER-562	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	194
10.56	INVALID-ORDER-563	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	195
10.56	INVALID-ORDER-564	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	195
10.56	INVALID-ORDER-565	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, R_L \right)$	195
10.56	INVALID-ORDER-566	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls} \right)$	195
10.56	INVALID-ORDER-567	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{R_L}{C_LR_Ls+1} \right)$	195
10.56	INVALID-ORDER-568	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, R_L + \frac{1}{C_Ls} \right)$	196
10.56	INVALID-ORDER-569	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + \frac{1}{C_Ls} \right)$	196
10.57	INVALID-ORDER-570	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	196
10.57	INVALID-ORDER-571	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	196
10.57	INVALID-ORDER-572	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	196

10.573INVALID-ORDER-573	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	197
10.574INVALID-ORDER-574	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	197
10.575INVALID-ORDER-575	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, R_L \right)$	197
10.576INVALID-ORDER-576	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	197
10.577INVALID-ORDER-577	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	197
10.578INVALID-ORDER-578	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	198
10.579INVALID-ORDER-579	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	198
10.580INVALID-ORDER-580	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	198
10.581INVALID-ORDER-581	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	198
10.582INVALID-ORDER-582	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	198
10.583INVALID-ORDER-583	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	199
10.584INVALID-ORDER-584	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	199
10.585INVALID-ORDER-585	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L \right)$	199
10.586INVALID-ORDER-586	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	199
10.587INVALID-ORDER-587	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	199
10.588INVALID-ORDER-588	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	200
10.589INVALID-ORDER-589	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	200
10.590INVALID-ORDER-590	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	200
10.591INVALID-ORDER-591	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	200
10.592INVALID-ORDER-592	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	200
10.593INVALID-ORDER-593	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	201
10.594INVALID-ORDER-594	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	201

10.595	INVALID-ORDER-595	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, R_L \right)$	201
10.596	INVALID-ORDER-596	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{1}{C_Ls} \right)$	201
10.597	INVALID-ORDER-597	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{R_L}{C_LR_Ls+1} \right)$	201
10.598	INVALID-ORDER-598	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, R_L + \frac{1}{C_Ls} \right)$	202
10.599	INVALID-ORDER-599	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, L_Ls + \frac{1}{C_Ls} \right)$	202
10.600	INVALID-ORDER-600	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	202
10.601	INVALID-ORDER-601	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	202
10.602	INVALID-ORDER-602	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	202
10.603	INVALID-ORDER-603	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	203
10.604	INVALID-ORDER-604	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	203
10.605	INVALID-ORDER-605	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L \right)$	203
10.606	INVALID-ORDER-606	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	203
10.607	INVALID-ORDER-607	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	203
10.608	INVALID-ORDER-608	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	204
10.609	INVALID-ORDER-609	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	204
10.610	INVALID-ORDER-610	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	204
10.611	INVALID-ORDER-611	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	204
10.612	INVALID-ORDER-612	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	204
10.613	INVALID-ORDER-613	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	205
10.614	INVALID-ORDER-614	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	205
10.615	INVALID-ORDER-615	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L \right)$	205
10.616	INVALID-ORDER-616	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls} \right)$	205

10.61	INVALID-ORDER-617	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{R_L}{C_LR_Ls+1} \right)$	205
10.61	INVALID-ORDER-618	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L + \frac{1}{C_Ls} \right)$	206
10.61	INVALID-ORDER-619	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + \frac{1}{C_Ls} \right)$	206
10.62	INVALID-ORDER-620	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	206
10.62	INVALID-ORDER-621	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	206
10.62	INVALID-ORDER-622	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	206
10.62	INVALID-ORDER-623	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	207
10.62	INVALID-ORDER-624	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	207
10.62	INVALID-ORDER-625	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, R_L \right)$	207
10.62	INVALID-ORDER-626	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{1}{C_Ls} \right)$	207
10.62	INVALID-ORDER-627	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{R_L}{C_LR_Ls+1} \right)$	207
10.62	INVALID-ORDER-628	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, R_L + \frac{1}{C_Ls} \right)$	208
10.62	INVALID-ORDER-629	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, L_Ls + \frac{1}{C_Ls} \right)$	208
10.63	INVALID-ORDER-630	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	208
10.63	INVALID-ORDER-631	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$	208
10.63	INVALID-ORDER-632	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	208
10.63	INVALID-ORDER-633	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	209
10.63	INVALID-ORDER-634	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	209
10.63	INVALID-ORDER-635	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, R_L \right)$	209
10.63	INVALID-ORDER-636	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{1}{C_Ls} \right)$	209

10.637	INVALID-ORDER-637	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{R_L}{C_L R_L s + 1} \right)$	209
10.638	INVALID-ORDER-638	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, R_L + \frac{1}{C_L s} \right)$	210
10.639	INVALID-ORDER-639	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, L_L s + \frac{1}{C_L s} \right)$	210
10.640	INVALID-ORDER-640	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	210
10.641	INVALID-ORDER-641	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	210
10.642	INVALID-ORDER-642	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	210
10.643	INVALID-ORDER-643	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	211
10.644	INVALID-ORDER-644	$Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5(L_5s + \frac{1}{C_5s})}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{R_L(L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	211
10.645	INVALID-ORDER-645	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$	211
10.646	INVALID-ORDER-646	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$	211
10.647	INVALID-ORDER-647	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	211
10.648	INVALID-ORDER-648	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	212
10.649	INVALID-ORDER-649	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5, \frac{R_L(L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	212
10.650	INVALID-ORDER-650	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, R_L \right)$	212
10.651	INVALID-ORDER-651	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, \frac{1}{C_L s} \right)$	212
10.652	INVALID-ORDER-652	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, \frac{R_L}{C_L R_L s + 1} \right)$	212
10.653	INVALID-ORDER-653	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, R_L + \frac{1}{C_L s} \right)$	213

10.651INVALID-ORDER-654	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	213
10.652INVALID-ORDER-655	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	213
10.653INVALID-ORDER-656	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	213
10.654INVALID-ORDER-657	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	213
10.655INVALID-ORDER-658	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	214
10.656INVALID-ORDER-659	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	214
10.660INVALID-ORDER-660	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, R_L \right)$	214
10.661INVALID-ORDER-661	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls} \right)$	214
10.662INVALID-ORDER-662	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{R_L}{C_LR_Ls+1} \right)$	214
10.663INVALID-ORDER-663	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, R_L + \frac{1}{C_Ls} \right)$	215
10.664INVALID-ORDER-664	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + \frac{1}{C_Ls} \right)$	215
10.665INVALID-ORDER-665	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	215
10.666INVALID-ORDER-666	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	215
10.667INVALID-ORDER-667	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	215
10.668INVALID-ORDER-668	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	216
10.669INVALID-ORDER-669	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	216
10.670INVALID-ORDER-670	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, R_L \right)$	216
10.671INVALID-ORDER-671	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	216

10.672INVALID-ORDER-672	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	216
10.673INVALID-ORDER-673	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	217
10.674INVALID-ORDER-674	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	217
10.675INVALID-ORDER-675	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	217
10.676INVALID-ORDER-676	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	217
10.677INVALID-ORDER-677	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	217
10.678INVALID-ORDER-678	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	218
10.679INVALID-ORDER-679	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	218
10.680INVALID-ORDER-680	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, R_L \right)$	218
10.681INVALID-ORDER-681	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$	218
10.682INVALID-ORDER-682	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$	218
10.683INVALID-ORDER-683	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$	219
10.684INVALID-ORDER-684	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$	219
10.685INVALID-ORDER-685	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	219
10.686INVALID-ORDER-686	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	219
10.687INVALID-ORDER-687	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	219
10.688INVALID-ORDER-688	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	220
10.689INVALID-ORDER-689	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	220

10.690	INVALID-ORDER-690	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$	220
10.691	INVALID-ORDER-691	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$	220
10.692	INVALID-ORDER-692	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	220
10.693	INVALID-ORDER-693	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$	221
10.694	INVALID-ORDER-694	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$	221
10.695	INVALID-ORDER-695	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	221
10.696	INVALID-ORDER-696	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	221
10.697	INVALID-ORDER-697	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	221
10.698	INVALID-ORDER-698	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	222
10.699	INVALID-ORDER-699	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	222
10.700	INVALID-ORDER-700	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$	222
10.701	INVALID-ORDER-701	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	222
10.702	INVALID-ORDER-702	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	222
10.703	INVALID-ORDER-703	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	223
10.704	INVALID-ORDER-704	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	223
10.705	INVALID-ORDER-705	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	223
10.706	INVALID-ORDER-706	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	223
10.707	INVALID-ORDER-707	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	223

10.70 INVALID-ORDER-708	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	224
10.70 INVALID-ORDER-709	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	224
10.71 INVALID-ORDER-710	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L \right)$	224
10.71 INVALID-ORDER-711	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls} \right)$	224
10.71 INVALID-ORDER-712	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{R_L}{C_LR_Ls+1} \right)$	224
10.71 INVALID-ORDER-713	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L + \frac{1}{C_Ls} \right)$	225
10.71 INVALID-ORDER-714	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + \frac{1}{C_Ls} \right)$	225
10.71 INVALID-ORDER-715	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	225
10.71 INVALID-ORDER-716	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$	225
10.71 INVALID-ORDER-717	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$	225
10.71 INVALID-ORDER-718	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$	226
10.71 INVALID-ORDER-719	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$	226
10.72 INVALID-ORDER-720	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, R_L \right)$	226
10.72 INVALID-ORDER-721	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{1}{C_Ls} \right)$	226
10.72 INVALID-ORDER-722	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{R_L}{C_LR_Ls+1} \right)$	226
10.72 INVALID-ORDER-723	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, R_L + \frac{1}{C_Ls} \right)$	227
10.72 INVALID-ORDER-724	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, L_Ls + \frac{1}{C_Ls} \right)$	227
10.72 INVALID-ORDER-725	$Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{L_Ls}{C_LL_Ls^2+1} \right)$	227

10.726	INVALID-ORDER-726	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	227
10.727	INVALID-ORDER-727	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	227
10.728	INVALID-ORDER-728	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	228
10.729	INVALID-ORDER-729	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	228
10.730	INVALID-ORDER-730	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$	228
10.731	INVALID-ORDER-731	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$	228
10.732	INVALID-ORDER-732	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	228
10.733	INVALID-ORDER-733	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$	229
10.734	INVALID-ORDER-734	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$	229
10.735	INVALID-ORDER-735	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	229
10.736	INVALID-ORDER-736	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	229
10.737	INVALID-ORDER-737	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	229
10.738	INVALID-ORDER-738	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	230
10.739	INVALID-ORDER-739	$Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	230
10.740	INVALID-ORDER-740	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{1}{C_L s} \right)$	230
10.741	INVALID-ORDER-741	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$	230
10.742	INVALID-ORDER-742	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, R_L + \frac{1}{C_L s} \right)$	230
10.743	INVALID-ORDER-743	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$	231
10.744	INVALID-ORDER-744	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	231

10.745INVALID-ORDER-745	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	231
10.746INVALID-ORDER-746	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	231
10.747INVALID-ORDER-747	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	231
10.748INVALID-ORDER-748	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	232
10.749INVALID-ORDER-749	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, R_L \right)$	232
10.750INVALID-ORDER-750	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	232
10.751INVALID-ORDER-751	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	232
10.752INVALID-ORDER-752	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	232
10.753INVALID-ORDER-753	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	233
10.754INVALID-ORDER-754	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	233
10.755INVALID-ORDER-755	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	233
10.756INVALID-ORDER-756	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	233
10.757INVALID-ORDER-757	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	233
10.758INVALID-ORDER-758	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	234
10.759INVALID-ORDER-759	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$	234
10.760INVALID-ORDER-760	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$	234
10.761INVALID-ORDER-761	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	234
10.762INVALID-ORDER-762	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$	234
10.763INVALID-ORDER-763	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$	235
10.764INVALID-ORDER-764	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	235
10.765INVALID-ORDER-765	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	235
10.766INVALID-ORDER-766	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	235

10.76INVALID-ORDER-767	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	235
10.76INVALID-ORDER-768	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	236
10.76INVALID-ORDER-769	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$	236
10.77INVALID-ORDER-770	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	236
10.77INVALID-ORDER-771	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	236
10.77INVALID-ORDER-772	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	236
10.77INVALID-ORDER-773	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	237
10.77INVALID-ORDER-774	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	237
10.77INVALID-ORDER-775	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	237
10.77INVALID-ORDER-776	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	237
10.77INVALID-ORDER-777	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	237
10.77INVALID-ORDER-778	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	238
10.77INVALID-ORDER-779	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$	238
10.78INVALID-ORDER-780	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	238
10.78INVALID-ORDER-781	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	238
10.78INVALID-ORDER-782	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	238
10.78INVALID-ORDER-783	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	239
10.78INVALID-ORDER-784	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	239
10.78INVALID-ORDER-785	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	239
10.78INVALID-ORDER-786	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	239
10.78INVALID-ORDER-787	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	239
10.78INVALID-ORDER-788	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	240

10.78	INVALID-ORDER-789	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$	240
10.79	INVALID-ORDER-790	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$	240
10.79	INVALID-ORDER-791	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	240
10.79	INVALID-ORDER-792	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$	240
10.79	INVALID-ORDER-793	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$	241
10.79	INVALID-ORDER-794	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	241
10.79	INVALID-ORDER-795	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	241
10.79	INVALID-ORDER-796	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	241
10.79	INVALID-ORDER-797	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	241
10.79	INVALID-ORDER-798	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	242
10.79	INVALID-ORDER-799	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$	242
10.80	INVALID-ORDER-800	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	242
10.80	INVALID-ORDER-801	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	242
10.80	INVALID-ORDER-802	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	242
10.80	INVALID-ORDER-803	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	243
10.80	INVALID-ORDER-804	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	243
10.80	INVALID-ORDER-805	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	243
10.80	INVALID-ORDER-806	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	243
10.80	INVALID-ORDER-807	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	243
10.80	INVALID-ORDER-808	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	244
10.80	INVALID-ORDER-809	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$	244
10.81	INVALID-ORDER-810	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$	244

10.81	INVALID-ORDER-811	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	244
10.81	INVALID-ORDER-812	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$	244
10.81	INVALID-ORDER-813	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$	245
10.81	INVALID-ORDER-814	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	245
10.81	INVALID-ORDER-815	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	245
10.81	INVALID-ORDER-816	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	245
10.81	INVALID-ORDER-817	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	245
10.81	INVALID-ORDER-818	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	246
10.81	INVALID-ORDER-819	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$	246
10.82	INVALID-ORDER-820	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$	246
10.82	INVALID-ORDER-821	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$	246
10.82	INVALID-ORDER-822	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$	246
10.82	INVALID-ORDER-823	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$	247
10.82	INVALID-ORDER-824	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	247
10.82	INVALID-ORDER-825	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	247
10.82	INVALID-ORDER-826	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	247
10.82	INVALID-ORDER-827	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	247
10.82	INVALID-ORDER-828	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	248
10.82	INVALID-ORDER-829	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$	248
10.83	INVALID-ORDER-830	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$	248

10.83	INVALID-ORDER-831	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	248
10.83	INVALID-ORDER-832	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$	248
10.83	INVALID-ORDER-833	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$	249
10.83	INVALID-ORDER-834	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	249
10.83	INVALID-ORDER-835	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	249
10.83	INVALID-ORDER-836	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	249
10.83	INVALID-ORDER-837	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	249
10.83	INVALID-ORDER-838	$Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	250
10.83	INVALID-ORDER-839	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{1}{C_L s} \right)$	250
10.84	INVALID-ORDER-840	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$	250
10.84	INVALID-ORDER-841	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$	250
10.84	INVALID-ORDER-842	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$	250
10.84	INVALID-ORDER-843	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	251
10.84	INVALID-ORDER-844	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	251
10.84	INVALID-ORDER-845	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	251
10.84	INVALID-ORDER-846	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	251
10.84	INVALID-ORDER-847	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	251

10.848INVALID-ORDER-848	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, R_L \right)$	252
10.849INVALID-ORDER-849	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	252
10.850INVALID-ORDER-850	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	252
10.851INVALID-ORDER-851	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	252
10.852INVALID-ORDER-852	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	252
10.853INVALID-ORDER-853	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	253
10.854INVALID-ORDER-854	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	253
10.855INVALID-ORDER-855	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$	253
10.856INVALID-ORDER-856	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	253
10.857INVALID-ORDER-857	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	253
10.858INVALID-ORDER-858	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$	254
10.859INVALID-ORDER-859	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$	254
10.860INVALID-ORDER-860	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	254
10.861INVALID-ORDER-861	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$	254
10.862INVALID-ORDER-862	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$	254
10.863INVALID-ORDER-863	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	255
10.864INVALID-ORDER-864	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	255

10.865INVALID-ORDER-865	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	255
10.866INVALID-ORDER-866	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	255
10.867INVALID-ORDER-867	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	255
10.868INVALID-ORDER-868	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$	256
10.869INVALID-ORDER-869	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	256
10.870INVALID-ORDER-870	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	256
10.871INVALID-ORDER-871	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	256
10.872INVALID-ORDER-872	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	256
10.873INVALID-ORDER-873	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	257
10.874INVALID-ORDER-874	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	257
10.875INVALID-ORDER-875	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	257
10.876INVALID-ORDER-876	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	257
10.877INVALID-ORDER-877	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	257
10.878INVALID-ORDER-878	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$	258
10.879INVALID-ORDER-879	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	258
10.880INVALID-ORDER-880	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	258
10.881INVALID-ORDER-881	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	258

10.882INVALID-ORDER-882	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	258
10.883INVALID-ORDER-883	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	259
10.884INVALID-ORDER-884	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	259
10.885INVALID-ORDER-885	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	259
10.886INVALID-ORDER-886	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	259
10.887INVALID-ORDER-887	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	259
10.888INVALID-ORDER-888	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$	260
10.889INVALID-ORDER-889	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$	260
10.890INVALID-ORDER-890	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$	260
10.891INVALID-ORDER-891	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$	260
10.892INVALID-ORDER-892	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$	260
10.893INVALID-ORDER-893	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	261
10.894INVALID-ORDER-894	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$	261
10.895INVALID-ORDER-895	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	261
10.896INVALID-ORDER-896	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	261
10.897INVALID-ORDER-897	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	261
10.898INVALID-ORDER-898	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$	262

10.89	INVALID-ORDER-899	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$	. . . . .	262
10.90	INVALID-ORDER-900	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$	. . . . .	262
10.90	INVALID-ORDER-901	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$	. . . . .	262
10.90	INVALID-ORDER-902	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$	. . . . .	262
10.90	INVALID-ORDER-903	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	. . . . .	263
10.90	INVALID-ORDER-904	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$	. . . . .	263
10.90	INVALID-ORDER-905	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	. . . . .	263
10.90	INVALID-ORDER-906	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	. . . . .	263
10.90	INVALID-ORDER-907	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L(L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$	. . . . .	263
10.90	INVALID-ORDER-908	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$	. . . . .	264
10.90	INVALID-ORDER-909	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$	. . . . .	264
10.91	INVALID-ORDER-910	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	. . . . .	264
10.91	INVALID-ORDER-911	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$	. . . . .	264
10.91	INVALID-ORDER-912	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$	. . . . .	264
10.91	INVALID-ORDER-913	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	. . . . .	265
10.91	INVALID-ORDER-914	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	. . . . .	265
10.91	INVALID-ORDER-915	$Z(s) = \left(\infty, \infty, \frac{R_3(L_3 s + \frac{1}{C_3 s})}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	. . . . .	265

10.916INVALID-ORDER-916	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	265
10.917INVALID-ORDER-917	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	265
10.918INVALID-ORDER-918	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$	266
10.919INVALID-ORDER-919	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$	266
10.920INVALID-ORDER-920	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$	266
10.921INVALID-ORDER-921	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$	266
10.922INVALID-ORDER-922	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$	266
10.923INVALID-ORDER-923	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	267
10.924INVALID-ORDER-924	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$	267
10.925INVALID-ORDER-925	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	267
10.926INVALID-ORDER-926	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	267
10.927INVALID-ORDER-927	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	267
10.928INVALID-ORDER-928	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$	268
10.929INVALID-ORDER-929	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$	268
10.930INVALID-ORDER-930	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$	268
10.931INVALID-ORDER-931	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$	268
10.932INVALID-ORDER-932	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$	268

10.933	INVALID-ORDER-933	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$	269
10.934	INVALID-ORDER-934	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$	269
10.935	INVALID-ORDER-935	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$	269
10.936	INVALID-ORDER-936	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$	269
10.937	INVALID-ORDER-937	$Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$	269

1 Examined $H(z)$ for TIA simple Z3 Z5 ZL: $\frac{Z_3 Z_L (Z_5 g_m - 1)}{Z_3 Z_5 g_m + 2 Z_3 Z_L g_m + Z_3 + Z_5 Z_L g_m + Z_L}$

$$H(z) = \frac{Z_3 Z_L (Z_5 g_m - 1)}{Z_3 Z_5 g_m + 2 Z_3 Z_L g_m + Z_3 + Z_5 Z_L g_m + Z_L}$$

2 HP

3 BP

3.1 BP-1 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (R_5 g_m - 1)}{C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + 2 L_L R_3 g_m s + L_L R_5 g_m s + L_L s + R_3 R_5 g_m + R_3}$$

Parameters:

Q: $\frac{C_L R_3 \sqrt{\frac{1}{C_L L_L}} (R_5 g_m + 1)}{2 R_3 g_m + R_5 g_m + 1}$
 wo: $\sqrt{\frac{1}{C_L L_L}}$
 bandwidth: $\frac{2 R_3 g_m + R_5 g_m + 1}{C_L R_3 (R_5 g_m + 1)}$
 K-LP: 0
 K-HP: 0
 K-BP: $\frac{R_3 (R_5 g_m - 1)}{2 R_3 g_m + R_5 g_m + 1}$
 QZ: 0
 Wz: None

3.2 BP-2 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_3 R_L s (R_5 g_m - 1)}{C_L L_L R_3 R_5 R_L g_m s^2 + C_L L_L R_3 R_L s^2 + L_L R_3 R_5 g_m s + 2 L_L R_3 R_L g_m s + L_L R_3 s + L_L R_5 R_L g_m s + L_L R_L s + R_3 R_5 R_L g_m + R_3 R_L}$$

Parameters:

$$\begin{aligned}
Q: & \frac{C_L R_3 R_L \sqrt{\frac{1}{C_L L_L}} (R_5 g_m + 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
wo: & \sqrt{\frac{1}{C_L L_L}} \\
bandwidth: & \frac{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_L R_3 R_L (R_5 g_m + 1)} \\
K-LP: & 0 \\
K-HP: & 0 \\
K-BP: & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
QZ: & 0 \\
Wz: & \text{None}
\end{aligned}$$

$$\mathbf{3.3 \quad BP-3} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L s (R_5 g_m - 1)}{C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + 2 L_L g_m s + R_5 g_m + 1}$$

Parameters:

$$\begin{aligned}
Q: & \frac{\sqrt{\frac{1}{L_L (C_3 + C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{2 g_m} \\
wo: & \sqrt{\frac{1}{L_L (C_3 + C_L)}} \\
bandwidth: & \frac{2 g_m}{C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L} \\
K-LP: & 0 \\
K-HP: & 0 \\
K-BP: & \frac{R_5 g_m - 1}{2 g_m} \\
QZ: & 0 \\
Wz: & \text{None}
\end{aligned}$$

$$\mathbf{3.4 \quad BP-4} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_L s (R_5 g_m - 1)}{C_3 L_L R_5 R_L g_m s^2 + C_3 L_L R_L s^2 + C_L L_L R_5 R_L g_m s^2 + C_L L_L R_L s^2 + L_L R_5 g_m s + 2 L_L R_L g_m s + L_L s + R_5 R_L g_m + R_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{R_L \sqrt{\frac{1}{L_L(C_3+C_L)}}(C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{R_5 g_m + 2 R_L g_m + 1} \\ \text{wo: } & \sqrt{\frac{1}{L_L(C_3+C_L)}} \\ \text{bandwidth: } & \frac{R_5 g_m + 2 R_L g_m + 1}{R_L(C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_L(R_5 g_m - 1)}{R_5 g_m + 2 R_L g_m + 1} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

$$\mathbf{3.5 \quad BP-5} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_3 s (R_5 g_m - 1)}{C_3 L_L R_3 R_5 g_m s^2 + C_3 L_L R_3 s^2 + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + 2 L_L R_3 g_m s + L_L R_5 g_m s + L_L s + R_3 R_5 g_m + R_3}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{R_3 \sqrt{\frac{1}{L_L(C_3+C_L)}}(C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{2 R_3 g_m + R_5 g_m + 1} \\ \text{wo: } & \sqrt{\frac{1}{L_L(C_3+C_L)}} \\ \text{bandwidth: } & \frac{2 R_3 g_m + R_5 g_m + 1}{R_3(C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_3(R_5 g_m - 1)}{2 R_3 g_m + R_5 g_m + 1} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

$$\mathbf{3.6 \quad BP-6} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_3 R_L s (R_5 g_m - 1)}{C_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_L R_3 R_L s^2 + C_L L_L R_3 R_5 R_L g_m s^2 + C_L L_L R_3 R_L s^2 + L_L R_3 R_5 g_m s + 2 L_L R_3 R_L g_m s + L_L R_3 s + L_L R_5 R_L g_m s + L_L R_L s + R_3 R_5 R_L g_m + R_3 R_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{R_3 R_L \sqrt{\frac{1}{L_L(C_3+C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{wo: } & \sqrt{\frac{1}{L_L(C_3+C_L)}} \\ \text{bandwidth: } & \frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{R_3 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

$$\mathbf{3.7 \quad BP-7} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5, R_L \right)$$

$$H(s) = \frac{L_3 R_L s (R_5 g_m - 1)}{C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + L_3 R_5 g_m s + 2L_3 R_L g_m s + L_3 s + R_5 R_L g_m + R_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_3 R_L \sqrt{\frac{1}{C_3 L_3}} (R_5 g_m + 1)}{R_5 g_m + 2R_L g_m + 1} \\ \text{wo: } & \sqrt{\frac{1}{C_3 L_3}} \\ \text{bandwidth: } & \frac{R_5 g_m + 2R_L g_m + 1}{C_3 R_L (R_5 g_m + 1)} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

$$\mathbf{3.8 \quad BP-8} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_3 s (R_5 g_m - 1)}{C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_L L_3 R_5 g_m s^2 + C_L L_3 s^2 + 2L_3 g_m s + R_5 g_m + 1}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{\frac{1}{L_3(C_3+C_L)}}(C_3R_5g_m+C_3+C_LR_5g_m+C_L)}{2g_m} \\ \text{wo: } & \sqrt{\frac{1}{L_3(C_3+C_L)}} \\ \text{bandwidth: } & \frac{2g_m}{C_3R_5g_m+C_3+C_LR_5g_m+C_L} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_5g_m-1}{2g_m} \\ \text{QZ: } & 0 \\ \text{WZ: } & \text{None} \end{aligned}$$

$$\mathbf{3.9 \quad BP-9} \quad Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, R_5, \frac{R_L}{C_LR_Ls+1} \right)$$

$$H(s) = \frac{L_3R_Ls(R_5g_m-1)}{C_3L_3R_5R_Lg_ms^2 + C_3L_3R_Ls^2 + C_LR_5R_Lg_ms^2 + C_LR_5R_Ls^2 + L_3R_5g_ms + 2L_3R_Lg_ms + L_3s + R_5R_Lg_m + R_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{R_L\sqrt{\frac{1}{L_3(C_3+C_L)}}(C_3R_5g_m+C_3+C_LR_5g_m+C_L)}{R_5g_m+2R_Lg_m+1} \\ \text{wo: } & \sqrt{\frac{1}{L_3(C_3+C_L)}} \\ \text{bandwidth: } & \frac{R_5g_m+2R_Lg_m+1}{R_L(C_3R_5g_m+C_3+C_LR_5g_m+C_L)} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_L(R_5g_m-1)}{R_5g_m+2R_Lg_m+1} \\ \text{QZ: } & 0 \\ \text{WZ: } & \text{None} \end{aligned}$$

$$\mathbf{3.10 \quad BP-10} \quad Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, R_5, \frac{L_Ls}{C_LL_Ls^2+1} \right)$$

$$H(s) = \frac{L_3L_Ls(R_5g_m-1)}{C_3L_3L_LR_5g_ms^2 + C_3L_3L_Ls^2 + C_LL_3L_LR_5g_ms^2 + C_LL_3L_Ls^2 + 2L_3L_Lg_ms + L_3R_5g_m + L_3 + L_LR_5g_m + L_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{\frac{L_3+L_L}{L_3L_L(C_3+C_L)}}(C_3R_5g_m+C_3+C_LR_5g_m+C_L)}{2g_m} \\ \text{wo: } & \sqrt{\frac{L_3+L_L}{L_3L_L(C_3+C_L)}} \\ \text{bandwidth: } & \frac{2g_m}{C_3R_5g_m+C_3+C_LR_5g_m+C_L} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_5g_m-1}{2g_m} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

$$\mathbf{3.11 \quad BP-11} \quad Z(s) = \left(\infty, \infty, \frac{L_3s}{C_3L_3s^2+1}, \infty, R_5, \frac{1}{C_Ls+\frac{1}{R_L}+\frac{1}{L_Ls}} \right)$$

$$H(s) = \frac{L_3L_LR_Ls(R_5g_m-1)}{C_3L_3L_LR_5R_Lg_ms^2 + C_3L_3L_LR_Ls^2 + C_LR_3L_LR_5R_Lg_ms^2 + C_LR_3L_LR_Ls^2 + L_3L_LR_5g_ms + 2L_3L_LR_Lg_ms + L_3L_Ls + L_3R_5R_Lg_m + L_3R_L + L_LR_5R_Lg_m + L_LR_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{R_L\sqrt{\frac{L_3+L_L}{L_3L_L(C_3+C_L)}}(C_3R_5g_m+C_3+C_LR_5g_m+C_L)}{R_5g_m+2R_Lg_m+1} \\ \text{wo: } & \sqrt{\frac{L_3+L_L}{L_3L_L(C_3+C_L)}} \\ \text{bandwidth: } & \frac{R_5g_m+2R_Lg_m+1}{R_L(C_3R_5g_m+C_3+C_LR_5g_m+C_L)} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_L(R_5g_m-1)}{R_5g_m+2R_Lg_m+1} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

$$\mathbf{3.12 \quad BP-12} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s+\frac{1}{R_3}+\frac{1}{L_3s}}, \infty, R_5, R_L \right)$$

$$H(s) = \frac{L_3R_3R_Ls(R_5g_m-1)}{C_3L_3R_3R_5R_Lg_ms^2 + C_3L_3R_3R_Ls^2 + L_3R_3R_5g_ms + 2L_3R_3R_Lg_ms + L_3R_3s + L_3R_5R_Lg_ms + L_3R_Ls + R_3R_5R_Lg_m + R_3R_L}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_3 R_3 R_L \sqrt{\frac{1}{C_3 L_3}} (R_5 g_m + 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{wo: } & \sqrt{\frac{1}{C_3 L_3}} \\
\text{bandwidth: } & \frac{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_3 R_3 R_L (R_5 g_m + 1)} \\
\text{K-LP: } & 0 \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

$$\mathbf{3.13 \quad BP-13} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_3 R_3 s (R_5 g_m - 1)}{C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + C_L L_3 R_3 R_5 g_m s^2 + C_L L_3 R_3 s^2 + 2 L_3 R_3 g_m s + L_3 R_5 g_m s + L_3 s + R_3 R_5 g_m + R_3}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{R_3 \sqrt{\frac{1}{L_3 (C_3 + C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{2 R_3 g_m + R_5 g_m + 1} \\
\text{wo: } & \sqrt{\frac{1}{L_3 (C_3 + C_L)}} \\
\text{bandwidth: } & \frac{2 R_3 g_m + R_5 g_m + 1}{R_3 (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)} \\
\text{K-LP: } & 0 \\
\text{K-HP: } & 0 \\
\text{K-BP: } & \frac{R_3 (R_5 g_m - 1)}{2 R_3 g_m + R_5 g_m + 1} \\
\text{QZ: } & 0 \\
\text{Wz: } & \text{None}
\end{aligned}$$

$$\mathbf{3.14 \quad BP-14} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_3 R_3 R_L s (R_5 g_m - 1)}{C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_L L_3 R_3 R_5 R_L g_m s^2 + C_L L_3 R_3 R_L s^2 + L_3 R_3 R_5 g_m s + 2 L_3 R_3 R_L g_m s + L_3 R_3 s + L_3 R_5 R_L g_m s + L_3 R_L s + R_3 R_5 R_L g_m + R_3 R_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{R_3 R_L \sqrt{\frac{1}{L_3(C_3+C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{wo: } & \sqrt{\frac{1}{L_3(C_3+C_L)}} \\ \text{bandwidth: } & \frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{R_3 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

$$\mathbf{3.15 \quad BP-15} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_3 L_L R_3 s (R_5 g_m - 1)}{C_3 L_3 L_L R_3 R_5 g_m s^2 + C_3 L_3 L_L R_3 s^2 + C_L L_3 L_L R_3 R_5 g_m s^2 + C_L L_3 L_L R_3 s^2 + 2L_3 L_L R_3 g_m s + L_3 L_L R_5 g_m s + L_3 L_L s + L_3 R_3 R_5 g_m + L_3 R_3 + L_L R_3 R_5 g_m + L_L R_3}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{R_3 \sqrt{\frac{L_3 + L_L}{L_3 L_L (C_3 + C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{2R_3 g_m + R_5 g_m + 1} \\ \text{wo: } & \sqrt{\frac{L_3 + L_L}{L_3 L_L (C_3 + C_L)}} \\ \text{bandwidth: } & \frac{2R_3 g_m + R_5 g_m + 1}{R_3 (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)} \\ \text{K-LP: } & 0 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{R_3 (R_5 g_m - 1)}{2R_3 g_m + R_5 g_m + 1} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

$$\mathbf{3.16 \quad BP-16} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_3 L_L R_3 R_L s (R_5 g_m - 1)}{C_3 L_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_3 L_L R_3 R_L s^2 + C_L L_3 L_L R_3 R_5 R_L g_m s^2 + C_L L_3 L_L R_3 R_L s^2 + L_3 L_L R_3 R_5 g_m s + 2L_3 L_L R_3 R_L g_m s + L_3 L_L R_3 s + L_3 L_L R_5 R_L g_m s + L_3 L_L R_L s + L_3 R_3 R_5 g_m + L_3 R_3 + L_L R_3 R_5 g_m + L_L R_3}$$

Parameters:

$$\text{Q: } \frac{R_3 R_L \sqrt{\frac{L_3 + L_L}{L_3 L_L (C_3 + C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$\text{wo: } \sqrt{\frac{L_3 + L_L}{L_3 L_L (C_3 + C_L)}}$$

$$\text{bandwidth: } \frac{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{R_3 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}$$

K-LP: 0

K-HP: 0

$$\text{K-BP: } \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

QZ: 0

Wz: None

4 LP

5 BS

$$5.1 \quad \text{BS-1 } Z(s) = \left(\infty, \infty, R_3, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_L L_L s^2 + 1)}{2 C_L L_L R_3 g_m s^2 + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + C_L R_3 R_5 g_m s + C_L R_3 s + 2 R_3 g_m + R_5 g_m + 1}$$

Parameters:

$$\text{Q: } \frac{L_L \sqrt{\frac{1}{C_L L_L}} (2 R_3 g_m + R_5 g_m + 1)}{R_3 (R_5 g_m + 1)}$$

$$\text{wo: } \sqrt{\frac{1}{C_L L_L}}$$

$$\text{bandwidth: } \frac{R_3 (R_5 g_m + 1)}{L_L (2 R_3 g_m + R_5 g_m + 1)}$$

$$\text{K-LP: } \frac{R_3 (R_5 g_m - 1)}{2 R_3 g_m + R_5 g_m + 1}$$

$$\text{K-HP: } \frac{R_3 (R_5 g_m - 1)}{2 R_3 g_m + R_5 g_m + 1}$$

K-BP: 0

QZ: None

$$W_z: \sqrt{\frac{1}{C_L L_L}}$$

$$\mathbf{5.2 \quad BS-2} \quad Z(s) = \left(\infty, \infty, R_3, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_3 R_L (R_5 g_m - 1) (C_L L_L s^2 + 1)}{C_L L_L R_3 R_5 g_m s^2 + 2 C_L L_L R_3 R_L g_m s^2 + C_L L_L R_3 s^2 + C_L L_L R_5 R_L g_m s^2 + C_L L_L R_L s^2 + C_L R_3 R_5 R_L g_m s + C_L R_3 R_L s + R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

Parameters:

$$Q: \frac{L_L \sqrt{\frac{1}{C_L L_L}} (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{R_3 R_L (R_5 g_m + 1)}$$

$$W_O: \sqrt{\frac{1}{C_L L_L}}$$

$$\text{bandwidth: } \frac{R_3 R_L (R_5 g_m + 1)}{L_L (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}$$

$$\text{K-LP: } \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$\text{K-HP: } \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$\text{K-BP: } 0$$

$$Q_z: \text{None}$$

$$W_z: \sqrt{\frac{1}{C_L L_L}}$$

$$\mathbf{5.3 \quad BS-3} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, R_L \right)$$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_3 L_3 s^2 + 1)}{C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_L g_m s^2 + C_3 L_3 s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + R_5 g_m + 2 R_L g_m + 1}$$

Parameters:

$$Q: \frac{L_3 \sqrt{\frac{1}{C_3 L_3}} (R_5 g_m + 2 R_L g_m + 1)}{R_L (R_5 g_m + 1)}$$

$$W_O: \sqrt{\frac{1}{C_3 L_3}}$$

$$\text{bandwidth: } \frac{R_L (R_5 g_m + 1)}{L_3 (R_5 g_m + 2 R_L g_m + 1)}$$

$$\text{K-LP: } \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2 R_L g_m + 1}$$

$$\text{K-HP: } \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2 R_L g_m + 1}$$

K-BP: 0

QZ: None

WZ: $\sqrt{\frac{1}{C_3 L_3}}$

5.4 BS-4 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, R_L \right)$

$$H(s) = \frac{R_3 R_L (R_5 g_m - 1) (C_3 L_3 s^2 + 1)}{C_3 L_3 R_3 R_5 g_m s^2 + 2 C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

Parameters:

Q: $\frac{L_3 \sqrt{\frac{1}{C_3 L_3}} (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{R_3 R_L (R_5 g_m + 1)}$

wo: $\sqrt{\frac{1}{C_3 L_3}}$

bandwidth: $\frac{R_3 R_L (R_5 g_m + 1)}{L_3 (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}$

K-LP: $\frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$

K-HP: $\frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$

K-BP: 0

QZ: None

WZ: $\sqrt{\frac{1}{C_3 L_3}}$

6 GE

6.1 GE-1 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_L L_L s^2 + C_L R_L s + 1)}{2 C_L L_L R_3 g_m s^2 + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + C_L R_3 R_5 g_m s + 2 C_L R_3 R_L g_m s + C_L R_3 s + C_L R_5 R_L g_m s + C_L R_L s + 2 R_3 g_m + R_5 g_m + 1}$$

Parameters:

Q: $\frac{L_L \sqrt{\frac{1}{C_L L_L}} (2 R_3 g_m + R_5 g_m + 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$

$$\begin{aligned}
\text{wo: } & \sqrt{\frac{1}{C_L L_L}} \\
\text{bandwidth: } & \frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{L_L (2R_3 g_m + R_5 g_m + 1)} \\
\text{K-LP: } & \frac{R_3 (R_5 g_m - 1)}{2R_3 g_m + R_5 g_m + 1} \\
\text{K-HP: } & \frac{R_3 (R_5 g_m - 1)}{2R_3 g_m + R_5 g_m + 1} \\
\text{K-BP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{QZ: } & \frac{L_L \sqrt{\frac{1}{C_L L_L}}}{R_L} \\
\text{WZ: } & \sqrt{\frac{1}{C_L L_L}}
\end{aligned}$$

6.2 GE-2 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_L L_L R_L s^2 + L_L s + R_L)}{C_L L_L R_3 R_5 g_m s^2 + 2C_L L_L R_3 R_L g_m s^2 + C_L L_L R_3 s^2 + C_L L_L R_5 R_L g_m s^2 + C_L L_L R_L s^2 + 2L_L R_3 g_m s + L_L R_5 g_m s + L_L s + R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_L \sqrt{\frac{1}{C_L L_L}} (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{2R_3 g_m + R_5 g_m + 1} \\
\text{wo: } & \sqrt{\frac{1}{C_L L_L}} \\
\text{bandwidth: } & \frac{2R_3 g_m + R_5 g_m + 1}{C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)} \\
\text{K-LP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{K-HP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{K-BP: } & \frac{R_3 (R_5 g_m - 1)}{2R_3 g_m + R_5 g_m + 1} \\
\text{QZ: } & C_L R_L \sqrt{\frac{1}{C_L L_L}} \\
\text{WZ: } & \sqrt{\frac{1}{C_L L_L}}
\end{aligned}$$

6.3 GE-3 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_L g_m s^2 + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + R_3 g_m + R_L g_m}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{L_5 g_m \sqrt{\frac{1}{C_5 L_5}} (R_3 + R_L)}{2R_3 R_L g_m + R_3 + R_L} \\
\text{wo: } & \sqrt{\frac{1}{C_5 L_5}} \\
\text{bandwidth: } & \frac{2R_3 R_L g_m + R_3 + R_L}{L_5 g_m (R_3 + R_L)} \\
\text{K-LP: } & \frac{R_3 R_L}{R_3 + R_L} \\
\text{K-HP: } & \frac{R_3 R_L}{R_3 + R_L} \\
\text{K-BP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\
\text{QZ: } & -L_5 g_m \sqrt{\frac{1}{C_5 L_5}} \\
\text{WZ: } & \sqrt{\frac{1}{C_5 L_5}}
\end{aligned}$$

6.4 GE-4 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$

$$H(s) = \frac{R_3 R_L (-C_5 L_5 s^2 + L_5 g_m s - 1)}{2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_L s^2 + L_5 R_3 g_m s + L_5 R_L g_m s + 2R_3 R_L g_m + R_3 + R_L}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_5 \sqrt{\frac{1}{C_5 L_5}} (2R_3 R_L g_m + R_3 + R_L)}{g_m (R_3 + R_L)} \\
\text{wo: } & \sqrt{\frac{1}{C_5 L_5}} \\
\text{bandwidth: } & \frac{g_m (R_3 + R_L)}{C_5 (2R_3 R_L g_m + R_3 + R_L)} \\
\text{K-LP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\
\text{K-HP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\
\text{K-BP: } & \frac{R_3 R_L}{R_3 + R_L} \\
\text{QZ: } & -\frac{C_5 \sqrt{\frac{1}{C_5 L_5}}}{g_m} \\
\text{WZ: } & \sqrt{\frac{1}{C_5 L_5}}
\end{aligned}$$

6.5 GE-5 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_L g_m s^2 + C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_5 R_L g_m s + C_5 R_L s + R_3 g_m + R_L g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{L_5 g_m \sqrt{\frac{1}{C_5 L_5}} (R_3 + R_L)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{wo: } & \sqrt{\frac{1}{C_5 L_5}} \\ \text{bandwidth: } & \frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{L_5 g_m (R_3 + R_L)} \\ \text{K-LP: } & \frac{R_3 R_L}{R_3 + R_L} \\ \text{K-HP: } & \frac{R_3 R_L}{R_3 + R_L} \\ \text{K-BP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{QZ: } & \frac{L_5 g_m \sqrt{\frac{1}{C_5 L_5}}}{R_5 g_m - 1} \\ \text{WZ: } & \sqrt{\frac{1}{C_5 L_5}} \end{aligned}$$

6.6 GE-6 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$

$$H(s) = \frac{R_3 R_L (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5)}{2C_5 L_5 R_3 R_5 R_L g_m s^2 + C_5 L_5 R_3 R_5 s^2 + C_5 L_5 R_5 R_L s^2 + L_5 R_3 R_5 g_m s + 2L_5 R_3 R_L g_m s + L_5 R_3 s + L_5 R_5 R_L g_m s + L_5 R_L s + 2R_3 R_5 R_L g_m + R_3 R_5 + R_5 R_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 R_5 \sqrt{\frac{1}{C_5 L_5}} (2R_3 R_L g_m + R_3 + R_L)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{wo: } & \sqrt{\frac{1}{C_5 L_5}} \\ \text{bandwidth: } & \frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_5 R_5 (2R_3 R_L g_m + R_3 + R_L)} \\ \text{K-LP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\ \text{K-HP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\ \text{K-BP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{QZ: } & -\frac{C_5 R_5 \sqrt{\frac{1}{C_5 L_5}}}{R_5 g_m - 1} \end{aligned}$$

$$\text{Wz: } \sqrt{\frac{1}{C_5 L_5}}$$

$$\mathbf{6.7 \quad GE-7} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_5 L_5 R_3 R_5 g_m s^2 + 2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_L s^2 + L_5 R_3 g_m s + L_5 R_L g_m s + R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

Parameters:

$$\text{Q: } \frac{C_5 \sqrt{\frac{1}{C_5 L_5}} (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{g_m (R_3 + R_L)}$$

$$\text{wo: } \sqrt{\frac{1}{C_5 L_5}}$$

$$\text{bandwidth: } \frac{g_m (R_3 + R_L)}{C_5 (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}$$

$$\text{K-LP: } \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$\text{K-HP: } \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$\text{K-BP: } \frac{R_3 R_L}{R_3 + R_L}$$

$$\text{QZ: } \frac{C_5 \sqrt{\frac{1}{C_5 L_5}} (R_5 g_m - 1)}{g_m}$$

$$\text{Wz: } \sqrt{\frac{1}{C_5 L_5}}$$

$$\mathbf{6.8 \quad GE-8} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 (L_5 s + \frac{1}{C_5 s})}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_5 L_5 R_3 R_5 g_m s^2 + 2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_L s^2 + 2C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5 s + C_5 R_5 R_L s + R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

Parameters:

$$\text{Q: } \frac{L_5 \sqrt{\frac{1}{C_5 L_5}} (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{R_5 (2R_3 R_L g_m + R_3 + R_L)}$$

$$\text{wo: } \sqrt{\frac{1}{C_5 L_5}}$$

$$\text{bandwidth: } \frac{R_5 (2R_3 R_L g_m + R_3 + R_L)}{L_5 (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}$$

$$\text{K-LP: } \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$\begin{aligned}
\text{K-HP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{K-BP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\
\text{QZ: } & \frac{L_5 \sqrt{\frac{1}{C_5 L_5}} (-R_5 g_m + 1)}{R_5} \\
\text{WZ: } & \sqrt{\frac{1}{C_5 L_5}}
\end{aligned}$$

6.9 GE-9 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5, R_L \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_3 L_3 s^2 + C_3 R_3 s + 1)}{C_3 L_3 R_5 g_m s^2 + 2C_3 L_3 R_L g_m s^2 + C_3 L_3 s^2 + C_3 R_3 R_5 g_m s + 2C_3 R_3 R_L g_m s + C_3 R_3 s + C_3 R_5 R_L g_m s + C_3 R_L s + R_5 g_m + 2R_L g_m + 1}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{L_3 \sqrt{\frac{1}{C_3 L_3}} (R_5 g_m + 2R_L g_m + 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{wo: } & \sqrt{\frac{1}{C_3 L_3}} \\
\text{bandwidth: } & \frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{L_3 (R_5 g_m + 2R_L g_m + 1)} \\
\text{K-LP: } & \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1} \\
\text{K-HP: } & \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1} \\
\text{K-BP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{QZ: } & \frac{L_3 \sqrt{\frac{1}{C_3 L_3}}}{R_3} \\
\text{WZ: } & \sqrt{\frac{1}{C_3 L_3}}
\end{aligned}$$

6.10 GE-10 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, R_L \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 L_3 R_3 R_5 g_m s^2 + 2C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + L_3 R_5 g_m s + 2L_3 R_L g_m s + L_3 s + R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

Parameters:

$$\text{Q: } \frac{C_3 \sqrt{\frac{1}{C_3 L_3}} (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{R_5 g_m + 2R_L g_m + 1}$$

$$\begin{aligned}
\text{wo: } & \sqrt{\frac{1}{C_3 L_3}} \\
\text{bandwidth: } & \frac{R_3 R_L (R_5 g_m + 2R_L g_m + 1)}{C_3 (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)} \\
\text{K-LP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{K-HP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{K-BP: } & \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1} \\
\text{QZ: } & C_3 R_3 \sqrt{\frac{1}{C_3 L_3}} \\
\text{WZ: } & \sqrt{\frac{1}{C_3 L_3}}
\end{aligned}$$

7 AP

8 INVALID-NUMER

8.1 INVALID-NUMER-1 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (-C_5 s + g_m)}{C_5 C_L R_3 s^2 + 2C_5 R_3 g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_5 C_L R_3 \sqrt{\frac{g_m}{C_5 C_L R_3}}}{2C_5 R_3 g_m + C_5 + C_L R_3 g_m} \\
\text{wo: } & \sqrt{\frac{g_m}{C_5 C_L R_3}} \\
\text{bandwidth: } & \frac{2C_5 R_3 g_m + C_5 + C_L R_3 g_m}{C_5 C_L R_3} \\
\text{K-LP: } & R_3 \\
\text{K-HP: } & 0 \\
\text{K-BP: } & -\frac{C_5 R_3}{2C_5 R_3 g_m + C_5 + C_L R_3 g_m} \\
\text{QZ: } & 0 \\
\text{WZ: } & \text{None}
\end{aligned}$$

8.2 INVALID-NUMER-2 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (-C_5 s + g_m)}{C_5 C_L R_3 R_L s^2 + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + C_L R_3 R_L g_m s + R_3 g_m + R_L g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 C_L R_3 R_L \sqrt{\frac{g_m(R_3 + R_L)}{C_5 C_L R_3 R_L}}}{2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L + C_L R_3 R_L g_m} \\ \text{wo: } & \sqrt{\frac{g_m(R_3 + R_L)}{C_5 C_L R_3 R_L}} \\ \text{bandwidth: } & \frac{2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L + C_L R_3 R_L g_m}{C_5 C_L R_3 R_L} \\ \text{K-LP: } & \frac{R_3 R_L}{R_3 + R_L} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & -\frac{C_5 R_3 R_L}{2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L + C_L R_3 R_L g_m} \\ \text{Qz: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.3 INVALID-NUMER-3 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (-C_5 R_5 s + R_5 g_m - 1)}{C_5 C_L R_3 R_5 s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2R_3 g_m + R_5 g_m + 1}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 C_L R_3 R_5 \sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_5 C_L R_3 R_5}}}{2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + C_L R_3} \\ \text{wo: } & \sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_5 C_L R_3 R_5}} \\ \text{bandwidth: } & \frac{2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + C_L R_3}{C_5 C_L R_3 R_5} \\ \text{K-LP: } & \frac{R_3 (R_5 g_m - 1)}{2R_3 g_m + R_5 g_m + 1} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & -\frac{C_5 R_3 R_5}{2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + C_L R_3} \\ \text{Qz: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.4 INVALID-NUMER-4 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (-C_5 R_5 s + R_5 g_m - 1)}{C_5 C_L R_3 R_5 R_L s^2 + 2C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5 s + C_5 R_5 R_L s + C_L R_3 R_5 R_L g_m s + C_L R_3 R_L s + R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 C_L R_3 R_5 R_L \sqrt{\frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_5 C_L R_3 R_5 R_L}}}{2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L + C_L R_3 R_5 R_L g_m + C_L R_3 R_L} \\ \text{wo: } & \sqrt{\frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_5 C_L R_3 R_5 R_L}} \\ \text{bandwidth: } & \frac{2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L + C_L R_3 R_5 R_L g_m + C_L R_3 R_L}{C_5 C_L R_3 R_5 R_L} \\ \text{K-LP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & -\frac{C_5 R_3 R_5 R_L}{2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L + C_L R_3 R_5 R_L g_m + C_L R_3 R_L} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.5 INVALID-NUMER-5 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L R_3 R_5 g_m s^2 + C_5 C_L R_3 s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 C_L R_3 \sqrt{\frac{g_m}{C_5 C_L R_3 (R_5 g_m + 1)}} (R_5 g_m + 1)}{2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m} \\ \text{wo: } & \sqrt{\frac{g_m}{C_5 C_L R_3 (R_5 g_m + 1)}} \\ \text{bandwidth: } & \frac{2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m}{C_5 C_L R_3 (R_5 g_m + 1)} \\ \text{K-LP: } & R_3 \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{C_5 R_3 (R_5 g_m - 1)}{2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.6 INVALID-NUMER-6 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_L s^2 + C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_5 R_L g_m s + C_5 R_L s + C_L R_3 R_L g_m s + R_3 g_m + R_L g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 C_L R_3 R_L \sqrt{\frac{g_m (R_3 + R_L)}{C_5 C_L R_3 R_L (R_5 g_m + 1)}} (R_5 g_m + 1)}{C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L + C_L R_3 R_L g_m} \\ \text{wo: } & \sqrt{\frac{g_m (R_3 + R_L)}{C_5 C_L R_3 R_L (R_5 g_m + 1)}} \\ \text{bandwidth: } & \frac{C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L + C_L R_3 R_L g_m}{C_5 C_L R_3 R_L (R_5 g_m + 1)} \\ \text{K-LP: } & \frac{R_3 R_L}{R_3 + R_L} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{C_5 R_3 R_L (R_5 g_m - 1)}{C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L + C_L R_3 R_L g_m} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.7 INVALID-NUMER-7 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1) (C_L R_L s + 1)}{C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_L s^2 + C_3 R_5 g_m s + C_3 s + C_L R_5 g_m s + 2C_L R_L g_m s + C_L s + 2g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{2} C_3 C_L R_L \sqrt{\frac{g_m}{C_3 C_L R_L (R_5 g_m + 1)}} (R_5 g_m + 1)}{C_3 R_5 g_m + C_3 + C_L R_5 g_m + 2C_L R_L g_m + C_L} \\ \text{wo: } & \sqrt{2} \sqrt{\frac{g_m}{C_3 C_L R_L (R_5 g_m + 1)}} \\ \text{bandwidth: } & \frac{C_3 R_5 g_m + C_3 + C_L R_5 g_m + 2C_L R_L g_m + C_L}{C_3 C_L R_L (R_5 g_m + 1)} \\ \text{K-LP: } & \frac{R_5 g_m - 1}{2g_m} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{C_L R_L (R_5 g_m - 1)}{C_3 R_5 g_m + C_3 + C_L R_5 g_m + 2C_L R_L g_m + C_L} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.8 INVALID-NUMER-8 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_L (-C_5 s + g_m)}{C_3 C_5 R_L s^2 + C_3 R_L g_m s + 2C_5 R_L g_m s + C_5 s + g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_3 C_5 R_L \sqrt{\frac{g_m}{C_3 C_5 R_L}}}{C_3 R_L g_m + 2C_5 R_L g_m + C_5} \\ \text{wo: } & \sqrt{\frac{g_m}{C_3 C_5 R_L}} \\ \text{bandwidth: } & \frac{C_3 R_L g_m + 2C_5 R_L g_m + C_5}{C_3 C_5 R_L} \\ \text{K-LP: } & R_L \\ \text{K-HP: } & 0 \\ \text{K-BP: } & -\frac{C_5 R_L}{C_3 R_L g_m + 2C_5 R_L g_m + C_5} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.9 INVALID-NUMER-9 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (-C_5 s + g_m)}{C_3 C_5 R_L s^2 + C_3 R_L g_m s + C_5 C_L R_L s^2 + 2C_5 R_L g_m s + C_5 s + C_L R_L g_m s + g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 R_L \sqrt{\frac{g_m}{C_5 R_L (C_3 + C_L)}} (C_3 + C_L)}{C_3 R_L g_m + 2C_5 R_L g_m + C_5 + C_L R_L g_m} \\ \text{wo: } & \sqrt{\frac{g_m}{C_5 R_L (C_3 + C_L)}} \\ \text{bandwidth: } & \frac{C_3 R_L g_m + 2C_5 R_L g_m + C_5 + C_L R_L g_m}{C_5 R_L (C_3 + C_L)} \\ \text{K-LP: } & R_L \\ \text{K-HP: } & 0 \\ \text{K-BP: } & -\frac{C_5 R_L}{C_3 R_L g_m + 2C_5 R_L g_m + C_5 + C_L R_L g_m} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.10 INVALID-NUMER-10 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$

$$H(s) = \frac{R_L (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 R_5 R_L s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + 2C_5 R_5 R_L g_m s + C_5 R_5 s + R_5 g_m + 2R_L g_m + 1}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_3 C_5 R_5 R_L \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_3 C_5 R_5 R_L}}}{C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5} \\ \text{wo: } & \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_3 C_5 R_5 R_L}} \\ \text{bandwidth: } & \frac{C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5}{C_3 C_5 R_5 R_L} \\ \text{K-LP: } & \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & -\frac{C_5 R_5 R_L}{C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.11 INVALID-NUMER-11 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{-C_5 R_5 s + R_5 g_m - 1}{C_3 C_5 R_5 s^2 + C_3 R_5 g_m s + C_3 s + C_5 C_L R_5 s^2 + 2C_5 R_5 g_m s + C_L R_5 g_m s + C_L s + 2g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{\sqrt{2} C_5 R_5 \sqrt{\frac{g_m}{C_5 R_5 (C_3 + C_L)}} (C_3 + C_L)}{C_3 R_5 g_m + C_3 + 2C_5 R_5 g_m + C_L R_5 g_m + C_L} \\ \text{wo: } & \sqrt{2} \sqrt{\frac{g_m}{C_5 R_5 (C_3 + C_L)}} \\ \text{bandwidth: } & \frac{C_3 R_5 g_m + C_3 + 2C_5 R_5 g_m + C_L R_5 g_m + C_L}{C_5 R_5 (C_3 + C_L)} \\ \text{K-LP: } & \frac{R_5 g_m - 1}{2g_m} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & -\frac{C_5 R_5}{C_3 R_5 g_m + C_3 + 2C_5 R_5 g_m + C_L R_5 g_m + C_L} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.12 INVALID-NUMER-12 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 R_5 R_L s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + C_5 C_L R_5 R_L s^2 + 2C_5 R_5 R_L g_m s + C_5 R_5 s + C_L R_5 R_L g_m s + C_L R_L s + R_5 g_m + 2R_L g_m + 1}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 R_5 R_L \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_5 R_5 R_L (C_3 + C_L)}} (C_3 + C_L)}{C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5 + C_L R_5 R_L g_m + C_L R_L} \\ \text{wo: } & \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_5 R_5 R_L (C_3 + C_L)}} \\ \text{bandwidth: } & \frac{C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5 + C_L R_5 R_L g_m + C_L R_L}{C_5 R_5 R_L (C_3 + C_L)} \\ \text{K-LP: } & \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1} \\ \text{K-HP: } & 0 \\ \text{K-BP: } & -\frac{C_5 R_5 R_L}{C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5 + C_L R_5 R_L g_m + C_L R_L} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.13 INVALID-NUMER-13 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_L (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 R_L g_m s + C_5 R_5 g_m s + 2C_5 R_L g_m s + C_5 s + g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_3 C_5 R_L \sqrt{\frac{g_m}{C_3 C_5 R_L (R_5 g_m + 1)}} (R_5 g_m + 1)}{C_3 R_L g_m + C_5 R_5 g_m + 2C_5 R_L g_m + C_5} \\ \text{wo: } & \sqrt{\frac{g_m}{C_3 C_5 R_L (R_5 g_m + 1)}} \\ \text{bandwidth: } & \frac{C_3 R_L g_m + C_5 R_5 g_m + 2C_5 R_L g_m + C_5}{C_3 C_5 R_L (R_5 g_m + 1)} \\ \text{K-LP: } & R_L \\ \text{K-HP: } & 0 \\ \text{K-BP: } & \frac{C_5 R_L (R_5 g_m - 1)}{C_3 R_L g_m + C_5 R_5 g_m + 2C_5 R_L g_m + C_5} \\ \text{QZ: } & 0 \\ \text{Wz: } & \text{None} \end{aligned}$$

8.14 INVALID-NUMER-14 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 R_L g_m s + C_5 C_L R_5 R_L g_m s^2 + C_5 C_L R_L s^2 + C_5 R_5 g_m s + 2C_5 R_L g_m s + C_5 s + C_L R_L g_m s + g_m}$$

Parameters:

Q: $\frac{C_5 R_L \sqrt{\frac{g_m}{C_5 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{C_3 R_L g_m + C_5 R_5 g_m + 2C_5 R_L g_m + C_5 + C_L R_L g_m}$
 wo: $\sqrt{\frac{g_m}{C_5 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}}$
 bandwidth: $\frac{C_3 R_L g_m + C_5 R_5 g_m + 2C_5 R_L g_m + C_5 + C_L R_L g_m}{C_5 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}$
 K-LP: R_L
 K-HP: 0
 K-BP: $\frac{C_5 R_L (R_5 g_m - 1)}{C_3 R_L g_m + C_5 R_5 g_m + 2C_5 R_L g_m + C_5 + C_L R_L g_m}$
 QZ: 0
 Wz: None

8.15 INVALID-NUMER-15 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_L R_L s + 1)}{C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + C_L R_3 R_5 g_m s + 2C_L R_3 R_L g_m s + C_L R_3 s + C_L R_5 R_L g_m s + C_L R_L s + 2R_3 g_m + R_5 g_m + 1}$$

Parameters:

Q: $\frac{C_3 C_L R_3 R_L \sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_3 C_L R_3 R_L (R_5 g_m + 1)}} (R_5 g_m + 1)}{C_3 R_3 R_5 g_m + C_3 R_3 + C_L R_3 R_5 g_m + 2C_L R_3 R_L g_m + C_L R_3 + C_L R_5 R_L g_m + C_L R_L}$
 wo: $\sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_3 C_L R_3 R_L (R_5 g_m + 1)}}$
 bandwidth: $\frac{C_3 R_3 R_5 g_m + C_3 R_3 + C_L R_3 R_5 g_m + 2C_L R_3 R_L g_m + C_L R_3 + C_L R_5 R_L g_m + C_L R_L}{C_3 C_L R_3 R_L (R_5 g_m + 1)}$
 K-LP: $\frac{R_3 (R_5 g_m - 1)}{2R_3 g_m + R_5 g_m + 1}$
 K-HP: 0
 K-BP: $\frac{C_L R_3 R_L (R_5 g_m - 1)}{C_3 R_3 R_5 g_m + C_3 R_3 + C_L R_3 R_5 g_m + 2C_L R_3 R_L g_m + C_L R_3 + C_L R_5 R_L g_m + C_L R_L}$
 QZ: 0
 Wz: None

8.16 INVALID-NUMER-16 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_3 R_L (-C_5 s + g_m)}{C_3 C_5 R_3 R_L s^2 + C_3 R_3 R_L g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + R_3 g_m + R_L g_m}$$

Parameters:

Q: $\frac{C_3 C_5 R_3 R_L \sqrt{\frac{g_m (R_3 + R_L)}{C_3 C_5 R_3 R_L}}}{C_3 R_3 R_L g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L}$
 wo: $\sqrt{\frac{g_m (R_3 + R_L)}{C_3 C_5 R_3 R_L}}$
 bandwidth: $\frac{C_3 R_3 R_L g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L}{C_3 C_5 R_3 R_L}$
 K-LP: $\frac{R_3 R_L}{R_3 + R_L}$
 K-HP: 0
 K-BP: $-\frac{C_5 R_3 R_L}{C_3 R_3 R_L g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L}$
 QZ: 0
 Wz: None

8.17 INVALID-NUMER-17 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (-C_5 s + g_m)}{C_3 C_5 R_3 s^2 + C_3 R_3 g_m s + C_5 C_L R_3 s^2 + 2C_5 R_3 g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

Parameters:

Q: $\frac{C_5 R_3 \sqrt{\frac{g_m}{C_5 R_3 (C_3 + C_L)}} (C_3 + C_L)}{C_3 R_3 g_m + 2C_5 R_3 g_m + C_5 + C_L R_3 g_m}$
 wo: $\sqrt{\frac{g_m}{C_5 R_3 (C_3 + C_L)}}$
 bandwidth: $\frac{C_3 R_3 g_m + 2C_5 R_3 g_m + C_5 + C_L R_3 g_m}{C_5 R_3 (C_3 + C_L)}$
 K-LP: R_3
 K-HP: 0
 K-BP: $-\frac{C_5 R_3}{C_3 R_3 g_m + 2C_5 R_3 g_m + C_5 + C_L R_3 g_m}$
 QZ: 0
 Wz: None

8.18 INVALID-NUMER-18 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (-C_5 s + g_m)}{C_3 C_5 R_3 R_L s^2 + C_3 R_3 R_L g_m s + C_5 C_L R_3 R_L s^2 + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + C_L R_3 R_L g_m s + R_3 g_m + R_L g_m}$$

Parameters:

Q: $\frac{C_5 R_3 R_L \sqrt{\frac{g_m (R_3 + R_L)}{C_5 R_3 R_L (C_3 + C_L)}} (C_3 + C_L)}{C_3 R_3 R_L g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L + C_L R_3 R_L g_m}$
 wo: $\sqrt{\frac{g_m (R_3 + R_L)}{C_5 R_3 R_L (C_3 + C_L)}}$
 bandwidth: $\frac{C_3 R_3 R_L g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L + C_L R_3 R_L g_m}{C_5 R_3 R_L (C_3 + C_L)}$
 K-LP: $\frac{R_3 R_L}{R_3 + R_L}$
 K-HP: 0
 K-BP: $-\frac{C_5 R_3 R_L}{C_3 R_3 R_L g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_L + C_L R_3 R_L g_m}$
 QZ: 0
 Wz: None

8.19 INVALID-NUMER-19 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$

$$H(s) = \frac{R_3 R_L (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 R_3 R_5 R_L s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + 2C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5 s + C_5 R_5 R_L s + R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

Parameters:

Q: $\frac{C_3 C_5 R_3 R_5 R_L \sqrt{\frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_3 C_5 R_3 R_5 R_L}}}{C_3 R_3 R_5 R_L g_m + C_3 R_3 R_L + 2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L}$
 wo: $\sqrt{\frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_3 C_5 R_3 R_5 R_L}}$
 bandwidth: $\frac{C_3 R_3 R_5 R_L g_m + C_3 R_3 R_L + 2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L}{C_3 C_5 R_3 R_5 R_L}$
 K-LP: $\frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$
 K-HP: 0
 K-BP: $-\frac{C_5 R_3 R_5 R_L}{C_3 R_3 R_5 R_L g_m + C_3 R_3 R_L + 2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L}$
 QZ: 0
 Wz: None

8.20 INVALID-NUMER-20 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 R_3 R_5 s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + C_5 C_L R_3 R_5 s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2R_3 g_m + R_5 g_m + 1}$$

Parameters:

Q: $\frac{C_5 R_3 R_5 \sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_5 R_3 R_5 (C_3 + C_L)}} (C_3 + C_L)}{C_3 R_3 R_5 g_m + C_3 R_3 + 2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + C_L R_3}$
 wo: $\sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_5 R_3 R_5 (C_3 + C_L)}}$
 bandwidth: $\frac{C_3 R_3 R_5 g_m + C_3 R_3 + 2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + C_L R_3}{C_5 R_3 R_5 (C_3 + C_L)}$
 K-LP: $\frac{R_3 (R_5 g_m - 1)}{2R_3 g_m + R_5 g_m + 1}$
 K-HP: 0
 K-BP: $-\frac{C_5 R_3 R_5}{C_3 R_3 R_5 g_m + C_3 R_3 + 2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + C_L R_3}$
 QZ: 0
 Wz: None

8.21 INVALID-NUMER-21 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 R_3 R_5 R_L s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_5 C_L R_3 R_5 R_L s^2 + 2C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5 s + C_5 R_5 R_L s + C_L R_3 R_5 R_L g_m s + C_L R_3 R_L s + R_3 R_5 g_m + 2R_3 R_L g_m + R_5 g_m + 1}$$

Parameters:

Q: $\frac{C_5 R_3 R_5 R_L \sqrt{\frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_5 R_3 R_5 R_L (C_3 + C_L)}} (C_3 + C_L)}{C_3 R_3 R_5 R_L g_m + C_3 R_3 R_L + 2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L + C_L R_3 R_5 R_L g_m + C_L R_3 R_L}$
 wo: $\sqrt{\frac{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_5 R_3 R_5 R_L (C_3 + C_L)}}$
 bandwidth: $\frac{C_3 R_3 R_5 R_L g_m + C_3 R_3 R_L + 2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L + C_L R_3 R_5 R_L g_m + C_L R_3 R_L}{C_5 R_3 R_5 R_L (C_3 + C_L)}$
 K-LP: $\frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$
 K-HP: 0
 K-BP: $-\frac{C_5 R_3 R_5 R_L}{C_3 R_3 R_5 R_L g_m + C_3 R_3 R_L + 2C_5 R_3 R_5 R_L g_m + C_5 R_3 R_5 + C_5 R_5 R_L + C_L R_3 R_5 R_L g_m + C_L R_3 R_L}$
 QZ: 0
 Wz: None

8.22 INVALID-NUMER-22 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_3 R_L (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 R_3 R_L g_m s + C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_5 R_L g_m s + C_5 R_L s + R_3 g_m + R_L g_m}$$

Parameters:

Q: $\frac{C_3 C_5 R_3 R_L \sqrt{\frac{g_m (R_3 + R_L)}{C_3 C_5 R_3 R_L (R_5 g_m + 1)}} (R_5 g_m + 1)}{C_3 R_3 R_L g_m + C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L}$
 wo: $\sqrt{\frac{g_m (R_3 + R_L)}{C_3 C_5 R_3 R_L (R_5 g_m + 1)}}$
 bandwidth: $\frac{C_3 R_3 R_L g_m + C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L}{C_3 C_5 R_3 R_L (R_5 g_m + 1)}$
 K-LP: $\frac{R_3 R_L}{R_3 + R_L}$
 K-HP: 0
 K-BP: $\frac{C_5 R_3 R_L (R_5 g_m - 1)}{C_3 R_3 R_L g_m + C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L}$
 QZ: 0
 Wz: None

8.23 INVALID-NUMER-23 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 R_3 g_m s + C_5 C_L R_3 R_5 g_m s^2 + C_5 C_L R_3 s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

Parameters:

Q: $\frac{C_5 R_3 \sqrt{\frac{g_m}{C_5 R_3 (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{C_3 R_3 g_m + 2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m}$
 wo: $\sqrt{\frac{g_m}{C_5 R_3 (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}}$
 bandwidth: $\frac{C_3 R_3 g_m + 2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m}{C_5 R_3 (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}$
 K-LP: R_3
 K-HP: 0
 K-BP: $\frac{C_5 R_3 (R_5 g_m - 1)}{C_3 R_3 g_m + 2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m}$
 QZ: 0
 Wz: None

8.24 INVALID-NUMER-24 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 R_3 R_L g_m s + C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_L s^2 + C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_5 R_L g_m s + C_5 R_L s + C_L R_3 R_L g_m}$$

Parameters:

Q: $\frac{C_5 R_3 R_L \sqrt{\frac{g_m (R_3 + R_L)}{C_5 R_3 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}} (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}{C_3 R_3 R_L g_m + C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L + C_L R_3 R_L g_m}$

wo: $\sqrt{\frac{g_m (R_3 + R_L)}{C_5 R_3 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}}$

bandwidth: $\frac{C_3 R_3 R_L g_m + C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L + C_L R_3 R_L g_m}{C_5 R_3 R_L (C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L)}$

K-LP: $\frac{R_3 R_L}{R_3 + R_L}$

K-HP: 0

K-BP: $\frac{C_5 R_3 R_L (R_5 g_m - 1)}{C_3 R_3 R_L g_m + C_5 R_3 R_5 g_m + 2C_5 R_3 R_L g_m + C_5 R_3 + C_5 R_5 R_L g_m + C_5 R_L + C_L R_3 R_L g_m}$

QZ: 0

Wz: None

8.25 INVALID-NUMER-25 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1) (C_3 R_3 s + 1)}{C_3 C_L R_3 R_5 g_m s^2 + C_3 C_L R_3 s^2 + 2C_3 R_3 g_m s + C_3 R_5 g_m s + C_3 s + C_L R_5 g_m s + C_L s + 2g_m}$$

Parameters:

Q: $\frac{\sqrt{2} C_3 C_L R_3 \sqrt{\frac{g_m}{C_3 C_L R_3 (R_5 g_m + 1)}} (R_5 g_m + 1)}{2C_3 R_3 g_m + C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L}$

wo: $\sqrt{2} \sqrt{\frac{g_m}{C_3 C_L R_3 (R_5 g_m + 1)}}$

bandwidth: $\frac{2C_3 R_3 g_m + C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L}{C_3 C_L R_3 (R_5 g_m + 1)}$

K-LP: $\frac{R_5 g_m - 1}{2g_m}$

K-HP: 0

K-BP: $\frac{C_3 R_3 (R_5 g_m - 1)}{2C_3 R_3 g_m + C_3 R_5 g_m + C_3 + C_L R_5 g_m + C_L}$

QZ: 0

Wz: None

8.26 INVALID-NUMER-26 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_3 R_3 s + 1)}{C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 g_m s + 2C_3 R_3 R_L g_m s + C_3 R_3 s + C_3 R_5 R_L g_m s + C_3 R_L s + C_L R_5 R_L g_m s + C_L R_L s + R_5 g_m + 2R_L g_m + 1}$$

Parameters:

Q: $\frac{C_3 C_L R_3 R_L \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_3 C_L R_3 R_L (R_5 g_m + 1)}} (R_5 g_m + 1)}{C_3 R_3 R_5 g_m + 2C_3 R_3 R_L g_m + C_3 R_3 + C_3 R_5 R_L g_m + C_3 R_L + C_L R_5 R_L g_m + C_L R_L}$
 wo: $\sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_3 C_L R_3 R_L (R_5 g_m + 1)}}$
 bandwidth: $\frac{C_3 R_3 R_5 g_m + 2C_3 R_3 R_L g_m + C_3 R_3 + C_3 R_5 R_L g_m + C_3 R_L + C_L R_5 R_L g_m + C_L R_L}{C_3 C_L R_3 R_L (R_5 g_m + 1)}$
 K-LP: $\frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1}$
 K-HP: 0
 K-BP: $\frac{C_3 R_3 R_L (R_5 g_m - 1)}{C_3 R_3 R_5 g_m + 2C_3 R_3 R_L g_m + C_3 R_3 + C_3 R_5 R_L g_m + C_3 R_L + C_L R_5 R_L g_m + C_L R_L}$
 QZ: 0
 WZ: None

9 INVALID-WZ

9.1 INVALID-WZ-1 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_L R_L s + 1)}{2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_L s^2 + 2C_5 R_3 g_m s + C_5 s + C_L R_3 g_m s + C_L R_L g_m s + g_m}$$

Parameters:

Q: $\frac{C_5 C_L \sqrt{\frac{g_m}{C_5 C_L (2R_3 R_L g_m + R_3 + R_L)}} (2R_3 R_L g_m + R_3 + R_L)}{2C_5 R_3 g_m + C_5 + C_L R_3 g_m + C_L R_L g_m}$
 wo: $\sqrt{\frac{g_m}{C_5 C_L (2R_3 R_L g_m + R_3 + R_L)}}$
 bandwidth: $\frac{2C_5 R_3 g_m + C_5 + C_L R_3 g_m + C_L R_L g_m}{C_5 C_L (2R_3 R_L g_m + R_3 + R_L)}$
 K-LP: R_3
 K-HP: $-\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L}$
 K-BP: $\frac{R_3 (-C_5 + C_L R_L g_m)}{2C_5 R_3 g_m + C_5 + C_L R_3 g_m + C_L R_L g_m}$

$$\begin{aligned} \text{QZ: } & \frac{C_5 C_L R_L \sqrt{\frac{g_m}{C_5 C_L (2R_3 R_L g_m + R_3 + R_L)}}}{C_5 - C_L R_L g_m} \\ \text{WZ: } & \sqrt{-\frac{g_m}{C_5 C_L R_L}} \end{aligned}$$

9.2 INVALID-WZ-2 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_L R_L s + 1) (C_5 R_5 s - R_5 g_m + 1)}{2C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_5 s^2 + C_5 C_L R_5 R_L s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + C_L R_3 R_5 g_m s + 2C_L R_3 R_L g_m s + C_L R_3 s + C_L R_5 R_L g_m s + C_L R_L s + 2R_3 g_m + R_5 g_m + 1}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 C_L R_5 \sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_5 C_L R_5 (2R_3 R_L g_m + R_3 + R_L)}} (2R_3 R_L g_m + R_3 + R_L)}{2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + 2C_L R_3 R_L g_m + C_L R_3 + C_L R_5 R_L g_m + C_L R_L} \\ \text{wo: } & \sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_5 C_L R_5 (2R_3 R_L g_m + R_3 + R_L)}} \\ \text{bandwidth: } & \frac{2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + 2C_L R_3 R_L g_m + C_L R_3 + C_L R_5 R_L g_m + C_L R_L}{C_5 C_L R_5 (2R_3 R_L g_m + R_3 + R_L)} \\ \text{K-LP: } & \frac{R_3 (R_5 g_m - 1)}{2R_3 g_m + R_5 g_m + 1} \\ \text{K-HP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\ \text{K-BP: } & \frac{R_3 (-C_5 R_5 + C_L R_5 R_L g_m - C_L R_L)}{2C_5 R_3 R_5 g_m + C_5 R_5 + C_L R_3 R_5 g_m + 2C_L R_3 R_L g_m + C_L R_3 + C_L R_5 R_L g_m + C_L R_L} \\ \text{QZ: } & \frac{C_5 C_L R_5 R_L \sqrt{\frac{2R_3 g_m + R_5 g_m + 1}{C_5 C_L R_5 (2R_3 R_L g_m + R_3 + R_L)}}}{C_5 R_5 - C_L R_5 R_L g_m + C_L R_L} \\ \text{WZ: } & \sqrt{\frac{-R_5 g_m + 1}{C_5 C_L R_5 R_L}} \end{aligned}$$

9.3 INVALID-WZ-3 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_L R_L s + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L R_3 R_5 g_m s^2 + 2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_5 R_L g_m s^2 + C_5 C_L R_L s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + C_L R_3 g_m s + C_L R_L g_m s + g_m}$$

Parameters:

$$\begin{aligned} \text{Q: } & \frac{C_5 C_L \sqrt{\frac{g_m}{C_5 C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}} (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m + C_L R_L g_m} \\ \text{wo: } & \sqrt{\frac{g_m}{C_5 C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}} \\ \text{bandwidth: } & \frac{2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m + C_L R_L g_m}{C_5 C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)} \end{aligned}$$

$$\begin{aligned}
\text{K-LP: } & R_3 \\
\text{K-HP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{K-BP: } & \frac{R_3 (C_5 R_5 g_m - C_5 + C_L R_L g_m)}{2C_5 R_3 g_m + C_5 R_5 g_m + C_5 + C_L R_3 g_m + C_L R_L g_m} \\
\text{QZ: } & \frac{C_5 C_L R_L \sqrt{\frac{g_m}{C_5 C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}} (R_5 g_m - 1)}{C_5 R_5 g_m - C_5 + C_L R_L g_m} \\
\text{WZ: } & \sqrt{\frac{g_m}{C_5 C_L R_L (R_5 g_m - 1)}}
\end{aligned}$$

9.4 INVALID-WZ-4 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1)(C_3 R_3 s + 1)(C_L R_L s + 1)}{C_3 C_L R_3 R_5 g_m s^2 + 2C_3 C_L R_3 R_L g_m s^2 + C_3 C_L R_3 s^2 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_L s^2 + 2C_3 R_3 g_m s + C_3 R_5 g_m s + C_3 s + C_L R_5 g_m s + 2C_L R_L g_m s + C_L s + 2g_m}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{\sqrt{2} C_3 C_L \sqrt{\frac{g_m}{C_3 C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}} (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{2C_3 R_3 g_m + C_3 R_5 g_m + C_3 + C_L R_5 g_m + 2C_L R_L g_m + C_L} \\
\text{wo: } & \sqrt{2} \sqrt{\frac{g_m}{C_3 C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}} \\
\text{bandwidth: } & \frac{2C_3 R_3 g_m + C_3 R_5 g_m + C_3 + C_L R_5 g_m + 2C_L R_L g_m + C_L}{C_3 C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)} \\
\text{K-LP: } & \frac{R_5 g_m - 1}{2g_m} \\
\text{K-HP: } & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
\text{K-BP: } & \frac{C_3 R_3 R_5 g_m - C_3 R_3 + C_L R_5 R_L g_m - C_L R_L}{2C_3 R_3 g_m + C_3 R_5 g_m + C_3 + C_L R_5 g_m + 2C_L R_L g_m + C_L} \\
\text{QZ: } & \frac{\sqrt{2} C_3 C_L R_3 R_L \sqrt{\frac{g_m}{C_3 C_L (R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}}}{C_3 R_3 + C_L R_L} \\
\text{WZ: } & \sqrt{\frac{1}{C_3 C_L R_3 R_L}}
\end{aligned}$$

9.5 INVALID-WZ-5 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, R_L \right)$

$$H(s) = -\frac{R_L (C_5 s - g_m)(C_3 R_3 s + 1)}{2C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_L s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + 2C_5 R_L g_m s + C_5 s + g_m}$$

Parameters:

$$\text{Q: } \frac{C_3 C_5 \sqrt{\frac{g_m}{C_3 C_5 (2R_3 R_L g_m + R_3 + R_L)}} (2R_3 R_L g_m + R_3 + R_L)}{C_3 R_3 g_m + C_3 R_L g_m + 2C_5 R_L g_m + C_5}$$

$$\begin{aligned}
\text{wo: } & \sqrt{\frac{g_m}{C_3 C_5 (2R_3 R_L g_m + R_3 + R_L)}} \\
\text{bandwidth: } & \frac{C_3 R_3 g_m + C_3 R_L g_m + 2C_5 R_L g_m + C_5}{C_3 C_5 (2R_3 R_L g_m + R_3 + R_L)} \\
\text{K-LP: } & R_L \\
\text{K-HP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\
\text{K-BP: } & \frac{R_L (C_3 R_3 g_m - C_5)}{C_3 R_3 g_m + C_3 R_L g_m + 2C_5 R_L g_m + C_5} \\
\text{QZ: } & -\frac{C_3 C_5 R_3 \sqrt{\frac{g_m}{C_3 C_5 (2R_3 R_L g_m + R_3 + R_L)}}}{C_3 R_3 g_m - C_5} \\
\text{WZ: } & \sqrt{-\frac{g_m}{C_3 C_5 R_3}}
\end{aligned}$$

9.6 INVALID-WZ-6 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$

$$H(s) = -\frac{R_L (C_3 R_3 s + 1) (C_5 R_5 s - R_5 g_m + 1)}{2C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_5 R_L s^2 + C_3 R_3 R_5 g_m s + 2C_3 R_3 R_L g_m s + C_3 R_3 s + C_3 R_5 R_L g_m s + C_3 R_L s + 2C_5 R_5 R_L g_m s + C_5 R_5 s + R_5 g_m + 2R_L g_m + 1}$$

Parameters:

$$\begin{aligned}
\text{Q: } & \frac{C_3 C_5 R_5 \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_3 C_5 R_5 (2R_3 R_L g_m + R_3 + R_L)}} (2R_3 R_L g_m + R_3 + R_L)}{C_3 R_3 R_5 g_m + 2C_3 R_3 R_L g_m + C_3 R_3 + C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5} \\
\text{wo: } & \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_3 C_5 R_5 (2R_3 R_L g_m + R_3 + R_L)}} \\
\text{bandwidth: } & \frac{C_3 R_3 R_5 g_m + 2C_3 R_3 R_L g_m + C_3 R_3 + C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5}{C_3 C_5 R_5 (2R_3 R_L g_m + R_3 + R_L)} \\
\text{K-LP: } & \frac{R_L (R_5 g_m - 1)}{R_5 g_m + 2R_L g_m + 1} \\
\text{K-HP: } & -\frac{R_3 R_L}{2R_3 R_L g_m + R_3 + R_L} \\
\text{K-BP: } & \frac{R_L (C_3 R_3 R_5 g_m - C_3 R_3 - C_5 R_5)}{C_3 R_3 R_5 g_m + 2C_3 R_3 R_L g_m + C_3 R_3 + C_3 R_5 R_L g_m + C_3 R_L + 2C_5 R_5 R_L g_m + C_5 R_5} \\
\text{QZ: } & \frac{C_3 C_5 R_3 R_5 \sqrt{\frac{R_5 g_m + 2R_L g_m + 1}{C_3 C_5 R_5 (2R_3 R_L g_m + R_3 + R_L)}}}{-C_3 R_3 R_5 g_m + C_3 R_3 + C_5 R_5} \\
\text{WZ: } & \sqrt{\frac{-R_5 g_m + 1}{C_3 C_5 R_3 R_5}}
\end{aligned}$$

9.7 INVALID-WZ-7 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_L (C_3 R_3 s + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 R_3 R_5 g_m s^2 + 2C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_5 R_5 g_m s + 2C_5 R_L g_m s + C_5 s + g_m}$$

Parameters:

$$\begin{aligned}
Q: & \frac{C_3 C_5 \sqrt{\frac{g_m}{C_3 C_5 (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}} (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}{C_3 R_3 g_m + C_3 R_L g_m + C_5 R_5 g_m + 2 C_5 R_L g_m + C_5} \\
wo: & \sqrt{\frac{g_m}{C_3 C_5 (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}} \\
bandwidth: & \frac{C_3 R_3 g_m + C_3 R_L g_m + C_5 R_5 g_m + 2 C_5 R_L g_m + C_5}{C_3 C_5 (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)} \\
K-LP: & R_L \\
K-HP: & \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L} \\
K-BP: & \frac{R_L (C_3 R_3 g_m + C_5 R_5 g_m - C_5)}{C_3 R_3 g_m + C_3 R_L g_m + C_5 R_5 g_m + 2 C_5 R_L g_m + C_5} \\
QZ: & \frac{C_3 C_5 R_3 \sqrt{\frac{g_m}{C_3 C_5 (R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L)}} (R_5 g_m - 1)}{C_3 R_3 g_m + C_5 R_5 g_m - C_5} \\
Wz: & \sqrt{\frac{g_m}{C_3 C_5 R_3 (R_5 g_m - 1)}}
\end{aligned}$$

10 INVALID-ORDER

10.1 INVALID-ORDER-1 $Z(s) = (\infty, \infty, R_3, \infty, R_5, R_L)$

$$H(s) = \frac{R_3 R_L (R_5 g_m - 1)}{R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

10.2 INVALID-ORDER-2 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5, \frac{1}{C_L s}\right)$

$$H(s) = \frac{R_3 (R_5 g_m - 1)}{C_L R_3 R_5 g_m s + C_L R_3 s + 2 R_3 g_m + R_5 g_m + 1}$$

10.3 INVALID-ORDER-3 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5, \frac{R_L}{C_L R_L s + 1}\right)$

$$H(s) = \frac{R_3 R_L (R_5 g_m - 1)}{C_L R_3 R_5 R_L g_m s + C_L R_3 R_L s + R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

10.4 INVALID-ORDER-4 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_L R_L s + 1)}{C_L R_3 R_5 g_m s + 2C_L R_3 R_L g_m s + C_L R_3 s + C_L R_5 R_L g_m s + C_L R_L s + 2R_3 g_m + R_5 g_m + 1}$$

10.5 INVALID-ORDER-5 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_3 R_L (-C_5 s + g_m)}{2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + R_3 g_m + R_L g_m}$$

10.6 INVALID-ORDER-6 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_L L_L s^2 + 1)}{2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_3 s^2 + 2C_5 R_3 g_m s + C_5 s + C_L L_L g_m s^2 + C_L R_3 g_m s + g_m}$$

10.7 INVALID-ORDER-7 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (-C_5 s + g_m)}{C_5 C_L L_L R_3 s^3 + 2C_5 L_L R_3 g_m s^2 + C_5 L_L s^2 + C_5 R_3 s + C_L L_L R_3 g_m s^2 + L_L g_m s + R_3 g_m}$$

10.8 INVALID-ORDER-8 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_L L_L s^2 + C_L R_L s + 1)}{2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L s^3 + 2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_L s^2 + 2C_5 R_3 g_m s + C_5 s + C_L L_L g_m s^2 + C_L R_3 g_m s + C_L R_L g_m s + g_m}$$

10.9 INVALID-ORDER-9 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_3 R_L s (-C_5 s + g_m)}{C_5 C_L L_L R_3 R_L s^3 + 2C_5 L_L R_3 R_L g_m s^2 + C_5 L_L R_3 s^2 + C_5 L_L R_L s^2 + C_5 R_3 R_L s + C_L L_L R_3 R_L g_m s^2 + L_L R_3 g_m s + L_L R_L g_m s + R_3 R_L g_m}$$

10.10 INVALID-ORDER-10 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_L L_L R_L s^2 + L_L s + R_L)}{2C_5 C_L L_L R_3 R_L g_m s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_L s^3 + 2C_5 L_L R_3 g_m s^2 + C_5 L_L s^2 + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + C_L L_L R_3 g_m s^2 + C_L L_L R_L g_m s^2 + L_L g_m s + R_3 g_m}$$

10.11 INVALID-ORDER-11 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{R_3 R_L (C_5 s - g_m) (C_L L_L s^2 + 1)}{2C_5 C_L L_L R_3 R_L g_m s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_L s^3 + C_5 C_L R_3 R_L s^2 + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + C_L L_L R_3 g_m s^2 + C_L L_L R_L g_m s^2 + C_L R_3 R_L g_m s + R_3 g_m + R_L}$$

10.12 INVALID-ORDER-12 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$

$$H(s) = \frac{R_3 R_L (-C_5 R_5 s + R_5 g_m - 1)}{2C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5 s + C_5 R_5 R_L s + R_3 R_5 g_m + 2R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

10.13 INVALID-ORDER-13 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (C_5 R_5 s - R_5 g_m + 1)}{2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_5 s^3 + C_5 C_L R_3 R_5 s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + 2C_L L_L R_3 g_m s^2 + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + C_L R_3 R_5 g_m s + C_L R_3 s + 2R_3 g_m + R_5 g_m}$$

10.14 INVALID-ORDER-14 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (-C_5 R_5 s + R_5 g_m - 1)}{C_5 C_L L_L R_3 R_5 s^3 + 2C_5 L_L R_3 R_5 g_m s^2 + C_5 L_L R_5 s^2 + C_5 R_3 R_5 s + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + 2L_L R_3 g_m s + L_L R_5 g_m s + L_L s + R_3 R_5 g_m + R_3}$$

10.15 INVALID-ORDER-15 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_5 R_5 s - R_5 g_m + 1) (C_L L_L s^2 + C_L R_L s + 1)}{2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_5 s^3 + 2C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_5 s^2 + C_5 C_L R_5 R_L s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + 2C_L L_L R_3 g_m s^2 + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + C_L R_L s + 1}$$

10.16 INVALID-ORDER-16 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_3 R_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_5 C_L L_L R_3 R_5 R_L s^3 + 2C_5 L_L R_3 R_5 R_L g_m s^2 + C_5 L_L R_3 R_5 s^2 + C_5 L_L R_5 R_L s^2 + C_5 R_3 R_5 R_L s + C_L L_L R_3 R_5 R_L g_m s^2 + C_L L_L R_3 R_L s^2 + L_L R_3 R_5 g_m s + 2L_L R_3 R_L g_m s + L_L R_3 R_L s + 1}$$

10.17 INVALID-ORDER-17 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{R_3 (C_5 R_5 s - R_5 g_m + 1) (C_L L_L R_L s^2 + C_L R_L s + 1)}{2C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_5 s^3 + C_5 C_L L_L R_5 R_L s^3 + 2C_5 L_L R_3 R_5 g_m s^2 + C_5 L_L R_5 s^2 + 2C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5 s + C_5 R_5 R_L s + C_L L_L R_3 R_5 g_m s^2 + 2C_L L_L R_3 R_L g_m s^2 + C_L L_L R_3 R_L s^2 + C_L R_L s + 1}$$

10.18 INVALID-ORDER-18 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{R_3 R_L (C_L L_L s^2 + 1) (C_5 R_5 s - R_5 g_m + 1)}{2C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_5 s^3 + C_5 C_L L_L R_5 R_L s^3 + C_5 C_L R_3 R_5 R_L s^2 + 2C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5 s + C_5 R_5 R_L s + C_L L_L R_3 R_5 g_m s^2 + 2C_L L_L R_3 R_L g_m s^2 + C_L L_L R_3 R_L s^2 + C_L R_L s + 1}$$

10.19 INVALID-ORDER-19 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_3 R_L (C_5 R_5 g_m s - C_5 s + g_m)}{C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_5 R_L g_m s + C_5 R_L s + R_3 g_m + R_L g_m}$$

10.20 INVALID-ORDER-20 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_L L_L s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_3 R_5 g_m s^2 + C_5 C_L R_3 s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + C_L L_L g_m s^2 + C_L R_3 g_m s + g_m}$$

10.21 INVALID-ORDER-21 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 s^3 + 2C_5 L_L R_3 g_m s^2 + C_5 L_L R_5 g_m s^2 + C_5 L_L s^2 + C_5 R_3 R_5 g_m s + C_5 R_3 s + C_L L_L R_3 g_m s^2 + L_L g_m s + R_3 g_m}$$

10.22 INVALID-ORDER-22 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_L L_L s^2 + C_L R_L s + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_3 R_5 g_m s^2 + 2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_5 R_L g_m s^2 + C_5 C_L R_L s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s}$$

10.23 INVALID-ORDER-23 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_3 R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + C_5 L_L R_3 R_5 g_m s^2 + 2C_5 L_L R_3 R_L g_m s^2 + C_5 L_L R_3 s^2 + C_5 L_L R_5 R_L g_m s^2 + C_5 L_L R_L s^2 + C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_L s + C_L L_L R_3}$$

10.24 INVALID-ORDER-24 $Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{R_3 (C_5 R_5 g_m s - C_5 s + g_m) (C_L L_L R_L s^2 + L_L s + R_L)}{C_5 C_L L_L R_3 R_5 g_m s^3 + 2C_5 C_L L_L R_3 R_L g_m s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + 2C_5 L_L R_3 g_m s^2 + C_5 L_L R_5 g_m s^2 + C_5 L_L s^2 + C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L}$$

$$10.25 \quad \text{INVALID-ORDER-25} \quad Z(s) = \left(\infty, \infty, R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_3 R_L (C_L L_L s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_L R_3 R_5 g_m s^3 + 2C_5 C_L L_L R_3 R_L g_m s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_L s^2 + C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L g_m s + g_m}$$

$$10.26 \quad \text{INVALID-ORDER-26} \quad Z(s) = \left(\infty, \infty, R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_5 C_L L_5 R_3 g_m s^3 + C_5 C_L R_3 s^2 + C_5 L_5 g_m s^2 + 2C_5 R_3 g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

$$10.27 \quad \text{INVALID-ORDER-27} \quad Z(s) = \left(\infty, \infty, R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L R_3 R_L s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_L g_m s^2 + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + C_L R_3 R_L g_m s + R_3 g_m + R_L g_m}$$

$$10.28 \quad \text{INVALID-ORDER-28} \quad Z(s) = \left(\infty, \infty, R_3, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_L R_L s + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_5 C_L L_5 R_3 g_m s^3 + C_5 C_L L_5 R_L g_m s^3 + 2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_L s^2 + C_5 L_5 g_m s^2 + 2C_5 R_3 g_m s + C_5 s + C_L R_3 g_m s + C_L R_L g_m s + g_m}$$

$$10.29 \quad \text{INVALID-ORDER-29} \quad Z(s) = \left(\infty, \infty, R_3, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_3 g_m s^3 + 2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_3 s^2 + C_5 L_5 g_m s^2 + 2C_5 R_3 g_m s + C_5 s + C_L L_L g_m s^2 + C_L R_3 g_m s + g_m}$$

10.30 INVALID-ORDER-30 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = \frac{L_LR_3s(C_5L_5g_ms^2 - C_5s + g_m)}{C_5C_LL_5L_LR_3g_ms^4 + C_5C_LL_LR_3s^3 + C_5L_5L_Lg_ms^3 + C_5L_5R_3g_ms^2 + 2C_5L_LR_3g_ms^2 + C_5L_Ls^2 + C_5R_3s + C_LL_LR_3g_ms^2 + L_Lg_ms + R_3g_m}$$

10.31 INVALID-ORDER-31 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_3(C_LL_Ls^2 + C_LR_Ls + 1)(C_5L_5g_ms^2 - C_5s + g_m)}{C_5C_LL_5L_Lg_ms^4 + C_5C_LL_5R_3g_ms^3 + C_5C_LL_5R_Lg_ms^3 + 2C_5C_LL_LR_3g_ms^3 + C_5C_LL_Ls^3 + 2C_5C_LR_3R_Lg_ms^2 + C_5C_LR_3s^2 + C_5C_LR_Ls^2 + C_5L_5g_ms^2 + 2C_5R_3g_ms + C_5s}$$

10.32 INVALID-ORDER-32 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_3R_Ls(C_5L_5g_ms^2 - C_5s + g_m)}{C_5C_LL_5L_LR_3R_Lg_ms^4 + C_5C_LL_LR_3R_Ls^3 + C_5L_5L_LR_3g_ms^3 + C_5L_5L_LR_Lg_ms^3 + C_5L_5R_3R_Lg_ms^2 + 2C_5L_LR_3R_Lg_ms^2 + C_5L_LR_3s^2 + C_5L_LR_Ls^2 + C_5R_3R_Ls + C_LL_LR_3s}$$

10.33 INVALID-ORDER-33 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{R_3(C_5L_5g_ms^2 - C_5s + g_m)(C_LL_LR_Ls^2 + L_Ls + R_L)}{C_5C_LL_5L_LR_3g_ms^4 + C_5C_LL_5L_LR_Lg_ms^4 + 2C_5C_LL_LR_3R_Lg_ms^3 + C_5C_LL_LR_3s^3 + C_5C_LL_LR_Ls^3 + C_5L_5L_Lg_ms^3 + C_5L_5R_3g_ms^2 + C_5L_5R_Lg_ms^2 + 2C_5L_LR_3g_ms^2 + C_5L_LR_3s^2 + C_5L_LR_Ls^2 + C_5R_3R_Ls + C_LL_LR_3s}$$

10.34 INVALID-ORDER-34 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{R_3R_L(C_LL_Ls^2 + 1)(C_5L_5g_ms^2 - C_5s + g_m)}{C_5C_LL_5L_LR_3g_ms^4 + C_5C_LL_5L_LR_Lg_ms^4 + C_5C_LL_5R_3R_Lg_ms^3 + 2C_5C_LL_LR_3R_Lg_ms^3 + C_5C_LL_LR_3s^3 + C_5C_LL_LR_Ls^3 + C_5C_LR_3R_Ls^2 + C_5L_5R_3g_ms^2 + C_5L_5R_Lg_ms^2 + C_5L_LR_3g_ms^2 + C_5L_LR_3s^2 + C_5L_LR_Ls^2 + C_5R_3R_Ls + C_LL_LR_3s}$$

10.35 INVALID-ORDER-35 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_5 C_L L_5 R_3 s^3 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_3 g_m s^2 + C_L R_3 s + L_5 g_m s + 2R_3 g_m + 1}$$

10.36 INVALID-ORDER-36 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_5 C_L L_5 R_3 R_L s^3 + 2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_L s^2 + C_L L_5 R_3 R_L g_m s^2 + C_L R_3 R_L s + L_5 R_3 g_m s + L_5 R_L g_m s + 2R_3 R_L g_m + R_3 + R_L}$$

10.37 INVALID-ORDER-37 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_L R_L s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{2C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_3 g_m s^2 + C_L L_5 R_L g_m s^2 + 2C_L R_3 R_L g_m s + C_L R_3 s + C_L R_L s + L_5 g_m s + 2R_3 g_m}$$

10.38 INVALID-ORDER-38 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{2C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_3 s^3 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + C_L L_5 L_L g_m s^3 + C_L L_5 R_3 g_m s^2 + 2C_L L_L R_3 g_m s^2 + C_L L_L s^2 + C_L R_3 s + L_5 g_m s + 2R_3 g_m}$$

10.39 INVALID-ORDER-39 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_5 C_L L_5 L_L R_3 s^4 + 2C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_3 s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_L R_3 s^2 + L_5 L_L g_m s^2 + L_5 R_3 g_m s + 2L_L R_3 g_m s + L_L s + R_3}$$

10.40 INVALID-ORDER-40 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_5 L_5 s^2 - L_5 g_m s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{2C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L s^4 + 2C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + C_L L_5 L_L g_m s^3 + C_L L_5 R_3 g_m s^2 + C_L L_5 R_L g_m s^2}$$

$$10.41 \quad \text{INVALID-ORDER-41} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_3 R_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_5 C_L L_5 L_L R_3 R_L s^4 + 2C_5 L_5 L_L R_3 R_L g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_L s^3 + C_5 L_5 R_3 R_L s^2 + C_L L_5 L_L R_3 R_L g_m s^3 + C_L L_L R_3 R_L s^2 + L_5 L_L R_3 g_m s^2 + L_5 L_L R_L g_m s^2 + L_5 R_3 g_m s^2 + L_5 R_L g_m s^2 + L_5 g_m s^2}$$

$$10.42 \quad \text{INVALID-ORDER-42} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{R_3 (C_5 L_5 s^2 - L_5 g_m s + 1) (C_L L_L R_L s^2 + L_L R_L g_m s + R_L)}{2C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_L s^4 + 2C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L s^3 + 2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_L s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_L R_3 g_m s^3 + C_L L_L R_L g_m s^3 + C_L R_3 g_m s^3 + C_L R_L g_m s^3 + C_L g_m s^3}$$

$$10.43 \quad \text{INVALID-ORDER-43} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{R_3 R_L (C_L L_L s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{2C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_L s^4 + C_5 C_L L_5 R_3 R_L s^3 + 2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_L s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_5 L_L R_L g_m s^3 + C_L R_3 g_m s^3 + C_L R_L g_m s^3 + C_L g_m s^3}$$

$$10.44 \quad \text{INVALID-ORDER-44} \quad Z(s) = \left(\infty, \infty, R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_5 R_3 g_m s^3 + C_5 C_L R_3 R_5 g_m s^2 + C_5 C_L R_3 s^2 + C_5 L_5 g_m s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

$$10.45 \quad \text{INVALID-ORDER-45} \quad Z(s) = \left(\infty, \infty, R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_L s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_L g_m s^2 + C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_5 R_L g_m s + C_5 R_L s + C_L R_3 R_L g_m s + g_m}$$

10.46 INVALID-ORDER-46 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_3 (C_L R_L s + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_5 R_3 g_m s^3 + C_5 C_L L_5 R_L g_m s^3 + C_5 C_L R_3 R_5 g_m s^2 + 2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_5 R_L g_m s^2 + C_5 C_L R_L s^2 + C_5 L_5 g_m s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + g_m}$$

10.47 INVALID-ORDER-47 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_3 g_m s^3 + 2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_3 R_5 g_m s^2 + C_5 C_L R_3 s^2 + C_5 L_5 g_m s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + g_m}$$

10.48 INVALID-ORDER-48 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 s^3 + C_5 L_5 L_L g_m s^3 + C_5 L_5 R_3 g_m s^2 + 2C_5 L_L R_3 g_m s^2 + C_5 L_L R_5 g_m s^2 + C_5 L_L s^2 + C_5 R_3 R_5 g_m s + C_5 R_3 s + C_L L_L R_3 s}$$

10.49 INVALID-ORDER-49 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{R_3 (C_L L_L s^2 + C_L R_L s + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_3 g_m s^3 + C_5 C_L L_5 R_L g_m s^3 + 2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_3 R_5 g_m s^2 + 2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_5 g_m s + C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + g_m}$$

10.50 INVALID-ORDER-50 $Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_3 R_L s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L R_L g_m s^3 + C_5 L_5 R_3 R_L g_m s^2 + C_5 L_L R_3 R_5 g_m s^2 + 2C_5 L_L R_3 R_L g_m s^2 + C_5 L_L R_3 s^2 + C_5 L_L R_5 g_m s + C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + g_m}$$

$$\mathbf{10.51 \quad INVALID-ORDER-51} \quad Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$$

$$H(s) = \frac{R_3 (C_LL_LR_Ls^2 + L_Ls)}{C_5C_LL_5L_LR_3g_ms^4 + C_5C_LL_5L_LR_Lg_ms^4 + C_5C_LL_LR_3R_5g_ms^3 + 2C_5C_LL_LR_3R_Lg_ms^3 + C_5C_LL_LR_3s^3 + C_5C_LL_R_5R_Lg_ms^3 + C_5C_LL_LR_Ls^3 + C_5L_5L_Lg_ms^3 + C_5L_5R_3g_ms^3 + C_5L_5R_3s^3 + C_5L_5R_5g_ms^3 + C_5L_5R_5s^3 + C_5L_5R_Lg_ms^3 + C_5L_5R_Ls^3 + C_5L_5R_s^3 + C_5L_5s^3 + C_5L_s^3 + C_5s^3}$$

$$\mathbf{10.52 \quad INVALID-ORDER-52} \quad Z(s) = \left(\infty, \infty, R_3, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$$

$$H(s) = \frac{R_3R_L (C_LL_Ls^2)}{C_5C_LL_5L_LR_3g_ms^4 + C_5C_LL_5L_LR_Lg_ms^4 + C_5C_LL_5R_3R_Lg_ms^3 + C_5C_LL_LR_3R_5g_ms^3 + 2C_5C_LL_LR_3R_Lg_ms^3 + C_5C_LL_LR_3s^3 + C_5C_LL_R_5R_Lg_ms^3 + C_5C_LL_LR_Ls^3 + C_5L_5L_Lg_ms^3 + C_5L_5R_3g_ms^3 + C_5L_5R_3s^3 + C_5L_5R_5g_ms^3 + C_5L_5R_5s^3 + C_5L_5R_Lg_ms^3 + C_5L_5R_Ls^3 + C_5L_5R_s^3 + C_5L_5s^3 + C_5L_s^3 + C_5s^3}$$

$$\mathbf{10.53 \quad INVALID-ORDER-53} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{R_3 (-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5)}{C_5C_LL_5R_3R_5s^3 + 2C_5L_5R_3R_5g_ms^2 + C_5L_5R_5s^2 + C_LL_5R_3R_5g_ms^2 + C_LL_5R_3s^2 + C_LR_3R_5s + 2L_5R_3g_ms + L_5R_5g_ms + L_5s + 2R_3R_5g_ms + R_5}$$

$$\mathbf{10.54 \quad INVALID-ORDER-54} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{R_L}{C_LR_Ls+1} \right)$$

$$H(s) = \frac{R_3R_L (-C_5L_5R_5s^2 + L_5R_5g_ms - L_5s - R_5)}{C_5C_LL_5R_3R_5R_Ls^3 + 2C_5L_5R_3R_5R_Lg_ms^2 + C_5L_5R_3R_5s^2 + C_5L_5R_5R_Ls^2 + C_LL_5R_3R_5R_Lg_ms^2 + C_LL_5R_3R_Ls^2 + C_LR_3R_5R_Ls + L_5R_3R_5g_ms + 2L_5R_3R_Lg_ms + L_5R_3s + L_5R_5g_ms + L_5s + 2R_3R_5g_ms + R_5}$$

$$\mathbf{10.55 \quad INVALID-ORDER-55} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{R_3 (C_LR_Ls + 1) (C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5)}{2C_5C_LL_5R_3R_5R_Lg_ms^3 + C_5C_LL_5R_3R_5s^3 + C_5C_LL_5R_5R_Ls^3 + 2C_5L_5R_3R_5g_ms^2 + C_5L_5R_5s^2 + C_LL_5R_3R_5g_ms^2 + 2C_LL_5R_3R_Lg_ms^2 + C_LL_5R_3s^2 + C_LL_5R_5R_Lg_ms^2 + C_LL_5R_5s^2 + C_LR_3R_5R_Ls + L_5R_3R_5g_ms + 2L_5R_3R_Lg_ms + L_5R_3s + L_5R_5g_ms + L_5s + 2R_3R_5g_ms + R_5}$$

10.56 INVALID-ORDER-56 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)}{2C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_5 L_L R_5 s^4 + C_5 C_L L_5 R_3 R_5 s^3 + 2C_5 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_5 s^2 + 2C_L L_5 L_L R_3 g_m s^3 + C_L L_5 L_L R_5 g_m s^3 + C_L L_5 L_L s^3 + C_L L_5 R_3 R_5 g_m s^2 +}$$

10.57 INVALID-ORDER-57 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5)}{C_5 C_L L_5 L_L R_3 R_5 s^4 + 2C_5 L_5 L_L R_3 R_5 g_m s^3 + C_5 L_5 L_L R_5 s^3 + C_5 L_5 R_3 R_5 s^2 + C_L L_5 L_L R_3 R_5 g_m s^3 + C_L L_5 L_L R_3 s^3 + C_L L_L R_3 R_5 s^2 + 2L_5 L_L R_3 g_m s^2 + L_5 L_L R_5 g_m s^2 + L_5 L_L$$

10.58 INVALID-ORDER-58 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_5C_LL_5L_LR_3R_5g_ms^4 + C_5C_LL_5L_LR_5s^4 + 2C_5C_LL_5R_3R_5R_Lg_ms^3 + C_5C_LL_5R_3R_5s^3 + C_5C_LL_5R_5R_Ls^3 + 2C_5L_5R_3R_5g_ms^2 + C_5L_5R_5s^2 + 2C_LL_5L_LR_3g_ms^3 + C_LL_5L_LR_5g_ms^3}{2C_5C_LL_5L_LR_3R_5g_ms^4 + C_5C_LL_5L_LR_5s^4 + 2C_5C_LL_5R_3R_5R_Lg_ms^3 + C_5C_LL_5R_3R_5s^3 + C_5C_LL_5R_5R_Ls^3 + 2C_5L_5R_3R_5g_ms^2 + C_5L_5R_5s^2 + 2C_LL_5L_LR_3g_ms^3 + C_LL_5L_LR_5g_ms^3}.$$

10.59 INVALID-ORDER-59 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_3 R_L s (-C_5 L_5 R_5 s^2 + C_5 C_L L_5 L_L R_3 R_5 R_L s^4 + 2C_5 L_5 L_L R_3 R_5 R_L q_m s^3 + C_5 L_5 L_L R_3 R_5 s^3 + C_5 L_5 L_L R_5 R_L s^3 + C_5 L_5 R_3 R_5 R_L s^2 + C_L L_5 L_L R_3 R_5 R_L q_m s^3 + C_L L_5 L_L R_3 R_L s^3 + C_L L_L R_3 R_5 R_L s^2 -$$

$$10.60 \quad \text{INVALID-ORDER-60} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{2C_5C_LL_5L_LR_3R_5R_LR_Lg_ms^4 + C_5C_LL_5L_LR_3R_5s^4 + C_5C_LL_5L_LR_5R_Ls^4 + 2C_5L_5L_LR_3R_5g_ms^3 + C_5L_5L_LR_5s^3 + 2C_5L_5R_3R_5R_Lg_ms^2 + C_5L_5R_3R_5s^2 + C_5L_5R_5R_Ls^2 + C_5L_5R_5s^2}{2C_5C_LL_5L_LR_3R_5R_LR_Lg_ms^4 + C_5C_LL_5L_LR_3R_5s^4 + C_5C_LL_5L_LR_5R_Ls^4 + 2C_5L_5L_LR_3R_5g_ms^3 + C_5L_5L_LR_5s^3 + 2C_5L_5R_3R_5R_Lg_ms^2 + C_5L_5R_3R_5s^2 + C_5L_5R_5R_Ls^2 + C_5L_5R_5s^2}.$$

$$10.61 \quad \text{INVALID-ORDER-61} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = - \frac{2C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_5 s^4 + C_5 C_L L_5 L_L R_5 R_L s^4 + C_5 C_L L_5 R_3 R_5 R_L s^3 + 2C_5 L_5 R_3 R_5 R_L g_m s^2 + C_5 L_5 R_3 R_5 s^2 + C_5 L_5 R_5 R_L s^2 + C_L L_5 L_L R_3 R_5 g_m s^2}{2C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_5 s^4 + C_5 C_L L_5 L_L R_5 R_L s^4 + C_5 C_L L_5 R_3 R_5 R_L s^3 + 2C_5 L_5 R_3 R_5 R_L g_m s^2 + C_5 L_5 R_3 R_5 s^2 + C_5 L_5 R_5 R_L s^2 + C_L L_5 L_L R_3 R_5 g_m s^2}$$

$$10.62 \quad \text{INVALID-ORDER-62} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 s^3 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_3 g_m s^2 + C_L R_3 R_5 g_m s + C_L R_3 s + L_5 g_m s + 2R_3 g_m + R_5 g_m + 1}$$

$$10.63 \quad \text{INVALID-ORDER-63} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_5 C_L L_5 R_3 R_5 R_L g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 L_5 R_3 R_5 g_m s^2 + 2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_L s^2 + C_L L_5 R_3 R_L g_m s^2 + C_L R_3 R_5 R_L g_m s + C_L R_3 s}$$

$$10.64 \quad \text{INVALID-ORDER-64} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_L R_L s + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_5 C_L L_5 R_3 R_5 g_m s^3 + 2C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_3 g_m s^2 + C_L L_5 R_L g_m s^2}$$

$$10.65 \quad \text{INVALID-ORDER-65} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{2C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 s^3 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_L L_5 L_L g_m s^3 + C_L L_5 R_3 g_m s^3}$$

10.66 INVALID-ORDER-66 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + 2C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L R_5 g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_3 s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + C_L L_L s^2 + 1}$$

10.67 INVALID-ORDER-67 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_L L_L s^2 + 1)}{2C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_3 R_5 g_m s^3 + 2C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_3 s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + C_L L_L s^2 + 1}$$

10.68 INVALID-ORDER-68 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_3 s^2}{C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_L s^4 + C_5 L_5 L_L R_3 R_5 g_m s^3 + 2C_5 L_5 L_L R_3 R_L g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_5 R_L g_m s^3 + C_5 L_5 L_L R_L s^3 + C_5 L_5 R_3 R_5 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + C_L L_L s^2 + 1}$$

10.69 INVALID-ORDER-69 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_L R_3 s^2}{C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + 2C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + 2C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L R_5 g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_3 s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + C_L L_L s^2 + 1}$$

10.70 INVALID-ORDER-70 $Z(s) = \left(\infty, \infty, R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L (L_L s + \frac{1}{C_L s})}{C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + 2C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + C_5 C_L L_5 R_3 R_5 R_L g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_3 s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + C_L L_L s^2 + 1}$$

$$\mathbf{10.71 \quad INVALID-ORDER-71} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L R_3 R_5 s^2 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2R_3 g_m + R_5 g_m + 1}$$

$$\mathbf{10.72 \quad INVALID-ORDER-72} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_5 C_L L_5 R_3 R_5 R_L g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L R_3 R_5 R_L s^2 + C_5 L_5 R_3 R_5 g_m s^2 + 2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_L s^2 + 2C_5 R_3 R_5 R_L g_m s + C_5 R_5 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2R_3 g_m + R_5 g_m + 1}$$

$$\mathbf{10.73 \quad INVALID-ORDER-73} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 (C_L R_L s + 1) (-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m - 1)}{C_5 C_L L_5 R_3 R_5 g_m s^3 + 2C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_5 s^2 + C_5 C_L R_5 R_L s^2 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2R_3 g_m + R_5 g_m + 1}$$

$$\mathbf{10.74 \quad INVALID-ORDER-74} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m - 1)}{2C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 s^3 + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_5 s^3 + C_5 C_L R_3 R_5 s^2 + 2C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2R_3 g_m + R_5 g_m + 1}$$

$$\mathbf{10.75 \quad INVALID-ORDER-75} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_3 s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_L R_3 R_5 s^3 + 2C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L R_5 g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_3 R_5 g_m s^2 + C_5 L_5 R_3 s^2 + 2C_5 L_L R_3 R_5 g_m s^2 + C_5 L_L R_5 g_m s^2 + C_5 L_L s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_5 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2R_3 g_m + R_5 g_m + 1}$$

$$10.76 \quad \text{INVALID-ORDER-76} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{2C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_3 R_5 g_m s^3 + 2C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + 2C_5 C_L L_L s^3 + C_5 C_L s^3}{C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_L s^4 + C_5 C_L L_L R_3 R_5 R_L s^3 + C_5 L_5 L_L R_3 R_5 g_m s^3 + 2C_5 L_5 L_L R_3 R_L g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_5 R_L g_m s^3 + C_5 L_5 L_L R_L s^3 + 2C_5 L_5 L_L s^3 + C_5 L_5 s^3 + C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + 2C_5 C_L L_L s^3 + C_5 C_L s^3}$$

$$10.77 \quad \text{INVALID-ORDER-77} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_L s^4 + C_5 C_L L_L R_3 R_5 R_L s^3 + C_5 L_5 L_L R_3 R_5 g_m s^3 + 2C_5 L_5 L_L R_3 R_L g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_5 R_L g_m s^3 + C_5 L_5 L_L R_L s^3 + 2C_5 L_5 L_L s^3 + C_5 L_5 s^3 + C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + 2C_5 C_L L_L s^3 + C_5 C_L s^3}{C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_L s^4 + C_5 C_L L_L R_3 R_5 R_L s^3 + C_5 L_5 L_L R_3 R_5 g_m s^3 + 2C_5 L_5 L_L R_3 R_L g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_5 R_L g_m s^3 + C_5 L_5 L_L R_L s^3 + 2C_5 L_5 L_L s^3 + C_5 L_5 s^3 + C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + 2C_5 C_L L_L s^3 + C_5 C_L s^3}$$

$$10.78 \quad \text{INVALID-ORDER-78} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = - \frac{C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + 2C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + 2C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_5 s^3 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + 2C_5 C_L L_L s^3 + C_5 C_L s^3}{C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + 2C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + 2C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_5 s^3 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + 2C_5 C_L L_L s^3 + C_5 C_L s^3}$$

$$10.79 \quad \text{INVALID-ORDER-79} \quad Z(s) = \left(\infty, \infty, R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = - \frac{C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + 2C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + C_5 C_L L_5 R_3 R_5 R_L g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + 2C_5 C_L L_L s^3 + C_5 C_L s^3}{C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + 2C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + C_5 C_L L_5 R_3 R_5 R_L g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + 2C_5 C_L L_L s^3 + C_5 C_L s^3}$$

$$10.80 \quad \text{INVALID-ORDER-80} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, R_L \right)$$

$$H(s) = \frac{R_L (R_5 g_m - 1)}{C_3 R_5 R_L g_m s + C_3 R_L s + R_5 g_m + 2R_L g_m + 1}$$

10.81 INVALID-ORDER-81 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_5 g_m - 1}{C_3 R_5 g_m s + C_3 s + C_L R_5 g_m s + C_L s + 2g_m}$$

10.82 INVALID-ORDER-82 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1)}{C_3 R_5 R_L g_m s + C_3 R_L s + C_L R_5 R_L g_m s + C_L R_L s + R_5 g_m + 2R_L g_m + 1}$$

10.83 INVALID-ORDER-83 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1) (C_L L_L s^2 + 1)}{C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 R_5 g_m s + C_3 s + 2C_L L_L g_m s^2 + C_L R_5 g_m s + C_L s + 2g_m}$$

10.84 INVALID-ORDER-84 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1) (C_L L_L s^2 + C_L R_L s + 1)}{C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_L s^2 + C_3 R_5 g_m s + C_3 s + 2C_L L_L g_m s^2 + C_L R_5 g_m s + 2C_L R_L g_m s + C_L s + 2g_m}$$

10.85 INVALID-ORDER-85 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{(R_5 g_m - 1) (C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + C_L L_L R_5 g_m s^2 + 2C_L L_L R_L g_m s^2 + C_L L_L s^2 + 2L_L g_m s + R_5 g_m + 2R_L g_m + 1}$$

10.86 INVALID-ORDER-86 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_L L_L s^2 + 1)}{C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 R_5 R_L g_m s + C_3 R_L s + C_L L_L R_5 g_m s^2 + 2C_L L_L R_L g_m s^2 + C_L L_L s^2 + C_L R_5 R_L g_m s + C_L R_L s + R_5 g_m + 2R_L g_m + 1}$$

10.87 INVALID-ORDER-87 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{-C_5 s + g_m}{s(C_3 C_5 s + C_3 g_m + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.88 INVALID-ORDER-88 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_L R_L s + 1)}{s(C_3 C_5 C_L R_L s^2 + C_3 C_5 s + C_3 C_L R_L g_m s + C_3 g_m + 2C_5 C_L R_L g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.89 INVALID-ORDER-89 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_L L_L s^2 + 1)}{s(C_3 C_5 C_L L_L s^3 + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 g_m + 2C_5 C_L L_L g_m s^2 + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.90 INVALID-ORDER-90 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s(-C_5 s + g_m)}{C_3 C_5 L_L s^3 + C_3 L_L g_m s^2 + C_5 C_L L_L s^3 + 2C_5 L_L g_m s^2 + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.91 INVALID-ORDER-91 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_L L_L s^2 + C_L R_L s + 1)}{s(C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_L s^2 + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 C_L R_L g_m s + C_3 g_m + 2C_5 C_L L_L g_m s^2 + 2C_5 C_L R_L g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.92 INVALID-ORDER-92 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L s(-C_5 s + g_m)}{C_3 C_5 L_L R_L s^3 + C_3 L_L R_L g_m s^2 + C_5 C_L L_L R_L s^3 + 2C_5 L_L R_L g_m s^2 + C_5 L_L s^2 + C_5 R_L s + C_L L_L R_L g_m s^2 + L_L g_m s + R_L g_m}$$

10.93 INVALID-ORDER-93 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_L s^3 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_L g_m s^3 + C_3 L_L g_m s^2 + C_3 R_L g_m s + 2C_5 C_L L_L R_L g_m s^3 + C_5 C_L L_L s^3 + 2C_5 L_L g_m s^2 + 2C_5 R_L g_m s + C_5 s + C_L L_L g_m s^2 + C_L R_L g_m s + g_m}$$

10.94 INVALID-ORDER-94 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{R_L(L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{R_L(C_5 s - g_m)(C_L L_L s^2 + 1)}{C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_L g_m s^3 + C_3 R_L g_m s + 2C_5 C_L L_L R_L g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_L s^2 + 2C_5 R_L g_m s + C_5 s + C_L L_L g_m s^2 + C_L R_L g_m s + g_m}$$

10.95 INVALID-ORDER-95 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_L R_L s + 1)(C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L R_5 R_L s^3 + C_3 C_5 R_5 s^2 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_L s^2 + C_3 R_5 g_m s + C_3 s + 2C_5 C_L R_5 R_L g_m s^2 + C_5 C_L R_5 s^2 + 2C_5 R_5 g_m s + C_L R_5 g_m s + 2C_L R_L g_m s + C_L s + 2g_m}$$

10.96 INVALID-ORDER-96 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_L L_L s^2 + 1)(C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 R_5 s^2 + C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 R_5 g_m s + C_3 s + 2C_5 C_L L_L R_5 g_m s^3 + C_5 C_L R_5 s^2 + 2C_5 R_5 g_m s + 2C_L L_L g_m s^2 + C_L R_5 g_m s + C_L s + 2g_m}$$

10.97 INVALID-ORDER-97 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s(-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_L R_5 s^3 + C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_5 C_L L_L R_5 s^3 + 2C_5 L_L R_5 g_m s^2 + C_5 R_5 s + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + 2L_L g_m s + R_5 g_m + 1}$$

10.98 INVALID-ORDER-98 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 R_5 s - R_5 g_m + 1)(C_L L_L s^2 + C_L R_L s + 1)}{C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L R_5 R_L s^3 + C_3 C_5 R_5 s^2 + C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_L s^2 + C_3 R_5 g_m s + C_3 s + 2C_5 C_L L_L R_5 g_m s^3 + 2C_5 C_L R_5 R_L s^2 + 2C_5 C_L R_5 s + 2C_5 R_5 g_m s + 2C_5 R_5 s + 2C_5 s}$$

10.99 INVALID-ORDER-99 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_L R_5 R_L s^3 + C_3 L_L R_5 R_L g_m s^2 + C_3 L_L R_L s^2 + C_5 C_L L_L R_5 R_L s^3 + 2C_5 L_L R_5 R_L g_m s^2 + C_5 L_L R_5 s^2 + C_5 R_5 R_L s + C_L L_L R_5 R_L g_m s^2 + C_L L_L R_L s^2 + L_L R_5 g_m s + 2L_L R_5 s + 2L_L s}$$

10.100 INVALID-ORDER-100 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{(C_5 R_5 s - R_5 g_m + 1)(C_L L_L R_L s^2 + L_L R_L s + 1)}{C_3 C_5 C_L L_L R_5 R_L s^4 + C_3 C_5 L_L R_5 s^3 + C_3 C_5 R_5 R_L s^2 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + 2C_5 C_L L_L R_5 R_L g_m s^3 + 2C_5 C_L L_L R_5 s^2 + 2C_5 C_L R_5 R_L s + 2C_5 R_5 g_m s + 2C_5 R_5 s + 2C_5 s}$$

10.101 INVALID-ORDER-101 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{R_L (C_L L_L s^2 + 1)(C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_L R_5 R_L s^4 + C_3 C_5 R_5 R_L s^2 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 R_5 R_L g_m s + C_3 R_L s + 2C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_5 s^3 + C_5 C_L R_5 R_L s^2 + 2C_5 R_5 R_L s + 2C_5 R_5 s + 2C_5 s}$$

10.102 INVALID-ORDER-102 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_5 R_5 g_m s - C_5 s + g_m}{s (C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 g_m + C_5 C_L R_5 g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.103 INVALID-ORDER-103 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_L R_L s + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L R_L g_m s + C_3 g_m + C_5 C_L R_5 g_m s + 2C_5 C_L R_L g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.104 INVALID-ORDER-104 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_L L_L s^2 + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 g_m + 2C_5 C_L L_L g_m s^2 + C_5 C_L R_5 g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.105 INVALID-ORDER-105 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 L_L g_m s^2 + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + 2C_5 L_L g_m s^2 + C_5 R_5 g_m s + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.106 INVALID-ORDER-106 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_L L_L s^2 + C_L R_L s + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 C_L R_L g_m s + C_3 g_m + 2C_5 C_L L_L g_m s^2 + C_5 C_L R_5 g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.107 INVALID-ORDER-107 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_L R_5 R_L g_m s^3 + C_3 C_5 L_L R_L s^3 + C_3 L_L R_L g_m s^2 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + C_5 L_L R_5 g_m s^2 + 2C_5 L_L R_L g_m s^2 + C_5 L_L s^2 + C_5 R_5 R_L g_m s + C_5 R_L s + C_L L_L s}$$

10.108 INVALID-ORDER-108 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{(C_5 R_5 g_m s - C_5 s + g_m)(C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_L g_m s^3 + C_3 L_L g_m s^2 + C_3 R_L g_m s + C_5 C_L L_L R_5 g_m s}$$

$$10.109 \quad \text{INVALID-ORDER-109} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L (C_L L_L s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_L g_m s^3 + C_3 R_L g_m s + C_5 C_L L_L R_5 g_m s^3 + 2 C_5 C_L L_L R_L g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_L g_m s}$$

$$10.110 \quad \text{INVALID-ORDER-110} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$$

$$H(s) = \frac{R_L (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_L s^2 + C_3 R_L g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_L g_m s + C_5 s + g_m}$$

$$10.111 \quad \text{INVALID-ORDER-111} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{C_5 L_5 g_m s^2 - C_5 s + g_m}{s (C_3 C_5 L_5 g_m s^2 + C_3 C_5 s + C_3 g_m + C_5 C_L L_5 g_m s^2 + C_5 C_L s + 2 C_5 g_m + C_L g_m)}$$

$$10.112 \quad \text{INVALID-ORDER-112} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_L s^2 + C_3 R_L g_m s + C_5 C_L L_5 R_L g_m s^3 + C_5 C_L R_L s^2 + C_5 L_5 g_m s^2 + 2 C_5 R_L g_m s + C_5 s + C_L R_L g_m s + g_m}$$

$$10.113 \quad \text{INVALID-ORDER-113} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_L R_L s + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{s (C_3 C_5 C_L L_5 R_L g_m s^3 + C_3 C_5 C_L R_L s^2 + C_3 C_5 L_5 g_m s^2 + C_3 C_5 s + C_3 C_L R_L g_m s + C_3 g_m + C_5 C_L L_5 g_m s^2 + 2 C_5 C_L R_L g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m)}$$

10.114 INVALID-ORDER-114 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_L L_L s^2 + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{s(C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_L s^3 + C_3 C_5 L_5 g_m s^2 + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 g_m + C_5 C_L L_5 g_m s^2 + 2C_5 C_L L_L g_m s^2 + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.115 INVALID-ORDER-115 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 L_L g_m s^4 + C_3 C_5 L_L s^3 + C_3 L_L g_m s^2 + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_L s^3 + C_5 L_5 g_m s^2 + 2C_5 L_L g_m s^2 + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.116 INVALID-ORDER-116 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_L L_L s^2 + C_L R_L s + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{s(C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_5 R_L g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_L s^2 + C_3 C_5 L_5 g_m s^2 + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 C_L R_L g_m s + C_3 g_m + C_5 C_L L_5 g_m s^2 + 2C_5 C_L L_L g_m s^2 + C_5 C_L s + C_5 R_L s + C_L L_L g_m s^2 + g_m)}$$

10.117 INVALID-ORDER-117 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 L_L R_L g_m s^4 + C_3 C_5 L_L R_L s^3 + C_3 L_L R_L g_m s^2 + C_5 C_L L_5 L_L R_L g_m s^4 + C_5 C_L L_L R_L s^3 + C_5 L_5 L_L g_m s^3 + C_5 L_5 R_L g_m s^2 + 2C_5 L_L R_L g_m s^2 + C_5 L_L s^2 + C_5 R_L s + C_L L_L g_m s^2 + g_m}$$

10.118 INVALID-ORDER-118 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{(C_5 L_5 g_m s^2 - C_5 s + g_m)(C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_5 L_L g_m s^4 + C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_L g_m s^3 + C_3 L_L g_m s^2 + C_3 R_L g_m s + C_5 C_L L_5 L_L g_m s^4 + g_m}$$

$$10.119 \quad \text{INVALID-ORDER-119} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L (C_L L_L s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_L g_m s^3 + C_3 R_L g_m s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_L g_m s^3 + 2 C_5 C_L L_L R_L g_m s^3 + C_5 C_L L_L R_L s^2 + C_5 C_L L_L g_m s + C_5 C_L L_L s}$$

$$10.120 \quad \text{INVALID-ORDER-120} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$$

$$H(s) = \frac{R_L (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 R_L s^3 + C_3 L_5 R_L g_m s^2 + C_3 R_L s + 2 C_5 L_5 R_L g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + 2 R_L g_m + 1}$$

$$10.121 \quad \text{INVALID-ORDER-121} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{-C_5 L_5 s^2 + L_5 g_m s - 1}{C_3 C_5 L_5 s^3 + C_3 L_5 g_m s^2 + C_3 s + C_5 C_L L_5 s^3 + 2 C_5 L_5 g_m s^2 + C_L L_5 g_m s^2 + C_L s + 2 g_m}$$

$$10.122 \quad \text{INVALID-ORDER-122} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 R_L s^3 + C_3 L_5 R_L g_m s^2 + C_3 R_L s + C_5 C_L L_5 R_L s^3 + 2 C_5 L_5 R_L g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_L g_m s^2 + C_L R_L s + L_5 g_m s + 2 R_L g_m + 1}$$

$$10.123 \quad \text{INVALID-ORDER-123} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{(C_L R_L s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 R_L g_m s^3 + C_3 C_L R_L s^2 + C_3 L_5 g_m s^2 + C_3 s + 2 C_5 C_L L_5 R_L g_m s^3 + C_5 C_L L_5 s^3 + 2 C_5 L_5 g_m s^2 + C_L L_5 g_m s^2 + 2 C_L R_L g_m s + C_L s + 2}$$

10.124 INVALID-ORDER-124 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_L L_L s^2 + 1)(C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 L_L g_m s^4 + C_3 C_L L_L s^3 + C_3 L_5 g_m s^2 + C_3 s + 2C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 s^3 + 2C_5 L_5 g_m s^2 + C_L L_5 g_m s^2 + 2C_L L_L g_m s^2 + C_L s + 2}$$

10.125 INVALID-ORDER-125 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 L_L s^4 + C_3 L_5 L_L g_m s^3 + C_3 L_L s^2 + C_5 C_L L_5 L_L s^4 + 2C_5 L_5 L_L g_m s^3 + C_5 L_5 s^2 + C_L L_5 L_L g_m s^3 + C_L L_L s^2 + L_5 g_m s + 2L_L g_m s + 1}$$

10.126 INVALID-ORDER-126 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 L_5 s^2 - L_5 g_m s + 1)(C_L L_L s^2 + C_L R_L s + 1)}{C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 L_L g_m s^4 + C_3 C_L L_5 R_L g_m s^3 + C_3 C_L L_L s^3 + C_3 C_L R_L s^2 + C_3 L_5 g_m s^2 + C_3 s + 2C_5 C_L L_5 L_L g_m s^4 + 2C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^2 + C_L L_5 R_L s^2 + L_5 g_m s + 2L_L g_m s + 1}$$

10.127 INVALID-ORDER-127 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 L_L R_L s^4 + C_3 L_5 L_L R_L g_m s^3 + C_3 L_L R_L s^2 + C_5 C_L L_5 L_L R_L s^4 + 2C_5 L_5 L_L R_L g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_L s^2 + C_L L_5 L_L R_L g_m s^3 + C_L L_L R_L s^2 + L_5 L_L g_m s^2 + L_5 R_L s + 1}$$

10.128 INVALID-ORDER-128 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{(C_5 L_5 s^2 - L_5 g_m s + 1)(C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_L g_m s^4 + C_3 C_L L_L R_L s^3 + C_3 L_5 L_L g_m s^3 + C_3 L_5 R_L g_m s^2 + C_3 L_L s^2 + C_3 R_L s + 2C_5 C_L L_5 L_L R_L g_m s^4 + 2C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^2 + C_L L_5 R_L s^2 + L_5 L_L g_m s^2 + L_5 R_L s + 1}$$

$$10.129 \quad \text{INVALID-ORDER-129} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = - \frac{R_L (C_L L_L s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_L g_m s^4 + C_3 C_L L_L R_L s^3 + C_3 L_5 R_L g_m s^2 + C_3 R_L s + 2 C_5 C_L L_5 L_L R_L g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_L s^3 + 2 C_5 L_5 R_L}$$

$$10.130 \quad \text{INVALID-ORDER-130} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$$

$$H(s) = \frac{R_L (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 R_L g_m s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s + 2 C_5 R_L g_m s + C_5 s + g_m}$$

$$10.131 \quad \text{INVALID-ORDER-131} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m}{s (C_3 C_5 L_5 g_m s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 g_m + C_5 C_L L_5 g_m s^2 + C_5 C_L R_5 g_m s + C_5 C_L s + 2 C_5 g_m + C_L g_m)}$$

$$10.132 \quad \text{INVALID-ORDER-132} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 R_L g_m s + C_5 C_L L_5 R_L g_m s^3 + C_5 C_L R_5 R_L g_m s^2 + C_5 C_L R_L s^2 + C_5 L_5 g_m s^2 + C_5 R_5 g_m s + 2 C_5 R_L g_m s + C_5 s + C_L R_L g_m}$$

$$10.133 \quad \text{INVALID-ORDER-133} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_L R_L s + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{s (C_3 C_5 C_L L_5 R_L g_m s^3 + C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + C_3 C_5 L_5 g_m s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L R_L g_m s + C_3 g_m + C_5 C_L L_5 g_m s^2 + C_5 C_L R_5 g_m s + 2 C_5 C_L R_L g_m)}$$

$$10.134 \quad \text{INVALID-ORDER-134} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_L L_L s^2 + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{s (C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 L_5 g_m s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 g_m + C_5 C_L L_5 g_m s^2 + 2 C_5 C_L L_L g_m s^2 + C_5 C_L R_5 g_m s + C_5 C_L s + g_m)}$$

$$10.135 \quad \text{INVALID-ORDER-135} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 L_L g_m s^4 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 L_L g_m s^2 + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + C_5 L_5 g_m s^2 + 2 C_5 L_L g_m s^2 + C_5 R_5 g_m s + C_5 s + C_L L_L g_m s + g_m}$$

$$10.136 \quad \text{INVALID-ORDER-136} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_L L_L s^2 + C_L R_L s + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{s (C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_5 R_L g_m s^3 + C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + C_3 C_5 L_5 g_m s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s + C_3 R_L g_m s + C_3 s + g_m)}$$

$$10.137 \quad \text{INVALID-ORDER-137} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_L s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 L_L R_L g_m s^4 + C_3 C_5 L_L R_5 R_L g_m s^3 + C_3 C_5 L_L R_L s^3 + C_3 L_L R_L g_m s^2 + C_5 C_L L_5 L_L R_L g_m s^4 + C_5 C_L L_L R_5 R_L g_m s^3 + C_5 C_L L_L R_L s^3 + C_5 L_5 L_L g_m s^3 + C_5 L_5 R_L g_m s^2 + C_5 R_L g_m s + C_5 s + g_m}$$

$$10.138 \quad \text{INVALID-ORDER-138} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{(C_L L_L R_L s^2 + L_L s + R_L) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_5 L_L g_m s^4 + C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 C_5 s + C_3 C_L L_L g_m s + C_3 R_L g_m s + C_3 s + g_m}$$

$$10.139 \quad \text{INVALID-ORDER-139} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L (C_L L_L s^2 + 1) (C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_L g_m s^3 + C_3 R_L g_m s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 L_L g_m s^3 + C_5 C_L L_5 L_L g_m s^2 + C_5 C_L L_5 L_L g_m s + C_5 C_L L_5 L_L g_m)}{C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_L g_m s^3 + C_3 R_L g_m s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 L_L g_m s^3 + C_5 C_L L_5 L_L g_m s^2 + C_5 C_L L_5 L_L g_m s + C_5 C_L L_5 L_L g_m}$$

$$10.140 \quad \text{INVALID-ORDER-140} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$$

$$H(s) = \frac{R_L (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5)}{C_3 C_5 L_5 R_5 R_L s^3 + C_3 L_5 R_5 R_L g_m s^2 + C_3 L_5 R_L s^2 + C_3 R_5 R_L s + 2C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_5 s^2 + L_5 R_5 g_m s + 2L_5 R_L g_m s + L_5 s + 2R_5 R_L g_m + R_5}$$

$$10.141 \quad \text{INVALID-ORDER-141} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5}{C_3 C_5 L_5 R_5 s^3 + C_3 L_5 R_5 g_m s^2 + C_3 L_5 s^2 + C_3 R_5 s + C_5 C_L L_5 R_5 s^3 + 2C_5 L_5 R_5 g_m s^2 + C_L L_5 R_5 g_m s^2 + C_L L_5 s^2 + C_L R_5 s + 2L_5 g_m s + 2R_5 g_m}$$

$$10.142 \quad \text{INVALID-ORDER-142} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5)}{C_3 C_5 L_5 R_5 R_L s^3 + C_3 L_5 R_5 R_L g_m s^2 + C_3 L_5 R_L s^2 + C_3 R_5 R_L s + C_5 C_L L_5 R_5 R_L s^3 + 2C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_5 s^2 + C_L L_5 R_5 R_L g_m s^2 + C_L L_5 R_L s^2 + C_L R_5 R_L s + L_5 R_5 g_m s + L_5 s + 2R_5 R_L g_m + R_5}$$

$$10.143 \quad \text{INVALID-ORDER-143} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{(C_L R_L s + 1) (C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)}{C_3 C_5 C_L L_5 R_5 R_L s^4 + C_3 C_5 L_5 R_5 s^3 + C_3 C_L L_5 R_5 R_L g_m s^3 + C_3 C_L L_5 R_L s^3 + C_3 C_L R_5 R_L s^2 + C_3 L_5 R_5 g_m s^2 + C_3 L_5 s^2 + C_3 R_5 s + 2C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_5 s^3 + 2C_5 C_L L_5 R_5 R_L g_m s^2 + C_5 C_L L_5 R_5 s^2 + C_5 C_L L_5 R_5 g_m s + C_5 C_L L_5 R_5 s + C_5 C_L L_5 R_5 g_m}$$

$$10.144 \quad \text{INVALID-ORDER-144} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{(C_L L_L s^2 + 1)(C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)}{C_3 C_5 C_L L_5 L_L R_5 s^5 + C_3 C_5 L_5 R_5 s^3 + C_3 C_L L_5 L_L R_5 g_m s^4 + C_3 C_L L_5 L_L s^4 + C_3 C_L L_L R_5 s^3 + C_3 L_5 R_5 g_m s^2 + C_3 L_5 s^2 + C_3 R_5 s + 2C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 R_5 s^3 + 2C_5 L_5 L_L R_5 g_m s^3 + C_5 L_5 R_5 s^2 + C_L L_5 L_L R_5 g_m s^3 + C_L L_5 L_L s^3 + C_L L_L R_5 s^2 + 2L_5 L_L g_m s}$$

$$10.145 \quad \text{INVALID-ORDER-145} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L s (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5)}{C_3 C_5 L_5 L_L R_5 s^4 + C_3 L_5 L_L R_5 g_m s^3 + C_3 L_5 L_L s^3 + C_3 L_L R_5 s^2 + C_5 C_L L_5 L_L R_5 s^4 + 2C_5 L_5 L_L R_5 g_m s^3 + C_5 L_5 R_5 s^2 + C_L L_5 L_L R_5 g_m s^3 + C_L L_5 L_L s^3 + C_L L_L R_5 s^2 + 2L_5 L_L g_m s}$$

$$10.146 \quad \text{INVALID-ORDER-146} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_5 s^5 + C_3 C_5 C_L L_5 R_5 R_L s^4 + C_3 C_5 L_5 R_5 s^3 + C_3 C_L L_5 L_L R_5 g_m s^4 + C_3 C_L L_5 L_L s^4 + C_3 C_L L_5 R_5 R_L g_m s^3 + C_3 C_L L_5 R_L s^3 + C_3 C_L L_L R_5 s^3 + C_3 C_L R_5 R_L s^2 + C_5 C_L L_5 L_L R_5 s^4 + 2C_5 L_5 L_L R_5 g_m s^3 + C_5 L_5 R_5 s^2 + C_L L_5 L_L R_5 g_m s^3 + C_L L_5 L_L s^3 + C_L L_L R_5 s^2 + 2L_5 L_L g_m s}{C_3 C_5 C_L L_5 L_L R_5 s^5 + C_3 C_5 C_L L_5 R_5 R_L s^4 + C_3 C_5 L_5 R_5 s^3 + C_3 C_L L_5 L_L R_5 g_m s^4 + C_3 C_L L_5 L_L s^4 + C_3 C_L L_5 R_5 R_L g_m s^3 + C_3 C_L L_5 R_L s^3 + C_3 C_L L_L R_5 s^3 + C_3 C_L R_5 R_L s^2 + C_5 C_L L_5 L_L R_5 s^4 + 2C_5 L_5 L_L R_5 g_m s^3 + C_5 L_5 R_5 s^2 + C_L L_5 L_L R_5 g_m s^3 + C_L L_5 L_L s^3 + C_L L_L R_5 s^2 + 2L_5 L_L g_m s}$$

$$10.147 \quad \text{INVALID-ORDER-147} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_L s (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5)}{C_3 C_5 L_5 L_L R_5 R_L s^4 + C_3 L_5 L_L R_5 R_L g_m s^3 + C_3 L_5 L_L R_L s^3 + C_3 L_L R_5 R_L s^2 + C_5 C_L L_5 L_L R_5 R_L s^4 + 2C_5 L_5 L_L R_5 R_L g_m s^3 + C_5 L_5 L_L R_5 s^3 + C_5 L_5 R_5 R_L s^2 + C_L L_5 L_L R_5 R_L g_m s^3 + C_L L_5 L_L s^3 + C_L L_L R_5 s^2 + 2L_5 L_L g_m s}$$

$$10.148 \quad \text{INVALID-ORDER-148} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_5 R_L s^5 + C_3 C_5 L_5 L_L R_5 s^4 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_L L_5 L_L R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_L s^4 + C_3 C_L L_L R_5 R_L s^3 + C_3 L_5 L_L R_5 g_m s^3 + C_3 L_5 L_L s^3 + C_3 L_5 R_5 R_L s^2 + C_5 C_L L_5 L_L R_5 R_L s^4 + 2C_5 L_5 L_L R_5 R_L g_m s^3 + C_5 L_5 L_L R_5 s^3 + C_5 L_5 R_5 R_L s^2 + C_L L_5 L_L R_5 R_L g_m s^3 + C_L L_5 L_L s^3 + C_L L_L R_5 s^2 + 2L_5 L_L g_m s}{C_3 C_5 C_L L_5 L_L R_5 R_L s^5 + C_3 C_5 L_5 L_L R_5 s^4 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_L L_5 L_L R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_L s^4 + C_3 C_L L_L R_5 R_L s^3 + C_3 L_5 L_L R_5 g_m s^3 + C_3 L_5 L_L s^3 + C_3 L_5 R_5 R_L s^2 + C_5 C_L L_5 L_L R_5 R_L s^4 + 2C_5 L_5 L_L R_5 R_L g_m s^3 + C_5 L_5 L_L R_5 s^3 + C_5 L_5 R_5 R_L s^2 + C_L L_5 L_L R_5 R_L g_m s^3 + C_L L_5 L_L s^3 + C_L L_L R_5 s^2 + 2L_5 L_L g_m s}$$

$$10.149 \quad \text{INVALID-ORDER-149} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_5 R_L s^5 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_L L_5 L_L R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_L s^4 + C_3 C_L L_L R_5 R_L s^3 + C_3 L_5 R_5 R_L g_m s^2 + C_3 L_5 R_L s^2 + C_3 R_5 R_L s + 2C_5 C_L L_5 L_L R_5 R_L}{C_3 C_5 C_L L_5 L_L R_5 R_L s^5 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_L L_5 L_L R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_L s^4 + C_3 C_L L_L R_5 R_L s^3 + C_3 L_5 R_5 R_L g_m s^2 + C_3 L_5 R_L s^2 + C_3 R_5 R_L s + 2C_5 C_L L_5 L_L R_5 R_L}$$

$$10.150 \quad \text{INVALID-ORDER-150} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$$

$$H(s) = \frac{R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 L_5 R_L g_m s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + C_5 L_5 R_5 g_m s^2 + 2C_5 L_5 R_L g_m s^2 + C_5 L_5 s^2 + L_5 g_m s + R_5 g_m + 2R_L g_m + 1}$$

$$10.151 \quad \text{INVALID-ORDER-151} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1}{C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 L_5 g_m s^2 + C_3 R_5 g_m s + C_3 s + C_5 C_L L_5 R_5 g_m s^3 + C_5 C_L L_5 s^3 + 2C_5 L_5 g_m s^2 + C_L L_5 g_m s^2 + C_L R_5 g_m s + C_L s + 2g_m}$$

$$10.152 \quad \text{INVALID-ORDER-152} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 L_5 R_L g_m s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + C_5 L_5 R_5 g_m s^2 + 2C_5 L_5 R_L g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_L s + R_L}$$

$$10.153 \quad \text{INVALID-ORDER-153} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_L R_L s + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 R_L g_m s^3 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_L s^2 + C_3 L_5 g_m s^2 + C_3 R_5 g_m s + C_3 s + C_5 C_L L_5 R_5 R_L}$$

$$10.154 \quad \text{INVALID-ORDER-154} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_L L_L s^2 + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 C_L L_5 L_L R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 L_L g_m s^4 + C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 L_5 g_m s^2 + C_3 R_5 g_m s + C_3 s + 2 C_5 C_L L_5 L_L}$$

$$10.155 \quad \text{INVALID-ORDER-155} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 L_5 L_L g_m s^3 + C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 L_L s^4 + 2 C_5 L_5 L_L g_m s^3 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_L L_5 L_L}$$

$$10.156 \quad \text{INVALID-ORDER-156} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_L L_L s^2 + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 C_L L_5 L_L R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 L_L g_m s^4 + C_3 C_L L_5 R_L g_m s^3 + C_3 C_L L_L R_5 g_m s^2 + C_3 C_L L_L s^2 + C_3 L_5 g_m s + C_3 R_5 g_m s + C_3 s + 2 C_5 C_L L_5 L_L}$$

$$10.157 \quad \text{INVALID-ORDER-157} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_L s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_5 L_L R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3 L_5 L_L R_L g_m s^3 + C_3 L_L R_5 R_L g_m s^2 + C_3 L_L R_L s^2 + C_5 C_L L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_L s^4 + C_5 L_5 L_L R_5 g_m s^3 + 2 C_5 L_5 L_L R_L g_m s^2 + C_5 L_5 R_5 g_m s + C_5 L_5 s + C_L L_5 L_L}$$

$$10.158 \quad \text{INVALID-ORDER-158} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_L R_L s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_L g_m s^4 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L s^3 + C_3 L_5 g_m s^2 + C_3 R_5 g_m s + C_3 s + 2 C_5 C_L L_5 L_L}$$

$$10.159 \quad \text{INVALID-ORDER-159} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_L g_m s^4 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 L_5 R_L g_m s^2 + C_3 R_5 L_5 s}{C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_L g_m s^4 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 L_5 R_L g_m s^2 + C_3 R_5 L_5 s}$$

$$10.160 \quad \text{INVALID-ORDER-160} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$$

$$H(s) = \frac{R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 R_5 R_L s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + C_5 L_5 R_5 g_m s^2 + 2C_5 L_5 R_L g_m s^2 + C_5 L_5 s^2 + 2C_5 R_5 R_L g_m s + C_5 R_5 s + R_5 g_m + 2R_L g_m + 1}$$

$$10.161 \quad \text{INVALID-ORDER-161} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1}{C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 R_5 s^2 + C_3 R_5 g_m s + C_3 s + C_5 C_L L_5 R_5 g_m s^3 + C_5 C_L L_5 s^3 + C_5 C_L R_5 s^2 + 2C_5 L_5 g_m s^2 + 2C_5 R_5 g_m s + C_L R_5 g_m s + C_L s + 2g_m}$$

$$10.162 \quad \text{INVALID-ORDER-162} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 R_5 R_L s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + C_5 C_L L_5 R_5 R_L g_m s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L R_5 R_L s^2 + C_5 L_5 R_5 g_m s^2 + 2C_5 L_5 R_L g_m s^2 + C_5 R_5 L_5 s}$$

$$10.163 \quad \text{INVALID-ORDER-163} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{(C_L R_L s + 1) (-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s - R_5 g_m)}{C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L R_5 R_L s^3 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 R_5 s^2 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_L s^2 + C_3 R_5 g_m s + C_3 s + C_5 C_L L_5 s}$$

$$\text{10.164} \quad \text{INVALID-ORDER-164} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{(C_L L_L s^2 + 1)(-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 L_5 s + C_5 R_5 s + C_5 R_5)}{C_3 C_5 C_L L_5 L_L R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 R_5 s^2 + C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 R_5 g_m s + C_3 s + 2 C_5 C_L L_5}$$

10.165 INVALID-ORDER-165 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_L R_5 s^3 + C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_5 C_L L_5 L_L R_5 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_L R_5 s^3 + 2 C_5 L_5 L_L g_m s^3 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 R_5 s + C_5 L_5 g_m - 1}$$

$$\textbf{10.166 INVALID-ORDER-166 } Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L R_5 R_L s^3 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 R_5 s^2}{C_3 C_5 C_L L_5 L_L R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L R_5 R_L s^3 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 R_5 s^2}$$

10.167 INVALID-ORDER-167 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L s (C_5}{C_3 C_5 L_5 L_L R_5 R_L q_m s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3 C_5 L_L R_5 R_L s^3 + C_3 L_L R_5 R_L q_m s^2 + C_3 L_L R_L s^2 + C_5 C_L L_5 L_L R_5 R_L q_m s^4 + C_5 C_L L_5 L_L R_L s^4 + C_5 C_L L_L R_5 R_L s^3 + C_5 L_5 L_L R_5 R_L s^2 + C_5 L_5 L_L R_L s}.$$

$$10.168 \quad \text{INVALID-ORDER-168} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_L R_5 R_L s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 L_L R_5 s^3 + C_3 C_5}{C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_L R_5 R_L s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 L_L R_5 s^3 + C_3 C_5}$$

$$10.169 \quad \text{INVALID-ORDER-169} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_L R_5 R_L s^4 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 R_5 R_L s^2 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 R_5 R_L g_m s + C_3 R_3 R_L s + R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}{C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_L R_5 R_L s^4 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 R_5 R_L s^2 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 R_5 R_L g_m s + C_3 R_3 R_L s + R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$10.170 \quad \text{INVALID-ORDER-170} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, R_L \right)$$

$$H(s) = \frac{R_3 R_L (R_5 g_m - 1)}{C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$10.171 \quad \text{INVALID-ORDER-171} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1)}{C_3 R_3 R_5 g_m s + C_3 R_3 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2 R_3 g_m + R_5 g_m + 1}$$

$$10.172 \quad \text{INVALID-ORDER-172} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 R_L (R_5 g_m - 1)}{C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_L R_3 R_5 R_L g_m s + C_L R_3 R_L s + R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$10.173 \quad \text{INVALID-ORDER-173} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_L L_L s^2 + 1)}{C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 R_3 R_5 g_m s + C_3 R_3 s + 2 C_L L_L R_3 g_m s^2 + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + C_L R_3 R_5 g_m s + C_L R_3 s + 2 R_3 g_m + R_5 g_m + 1}$$

$$10.174 \quad \text{INVALID-ORDER-174} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_L L_L s^2 + C_L R_L s + 1)}{C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + 2 C_L L_L R_3 g_m s^2 + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + C_L R_3 R_5 g_m s + 2 C_L R_3 R_L s + R_3 R_5 g_m + 2 R_3 R_L g_m + R_3 + R_5 R_L g_m + R_L}$$

$$10.175 \quad \text{INVALID-ORDER-175} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_L R_3 R_5 g_m s^2 + C_3 L_L R_3 s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_L L_L R_3 R_5 g_m s^2 + 2 C_L L_L R_3 R_L g_m s^2 + C_L L_L R_3 s^2 + C_L L_L R_5 g_m s^2 + C_L L_L R_L s^2 + C_L L_L R_3 g_m s + C_L L_L R_5 g_m s + C_L L_L R_L g_m s + g_m}$$

$$10.176 \quad \text{INVALID-ORDER-176} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_3 R_L (R_5 g_m - 1) (C_L L_L s^2 + 1)}{C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_L L_L R_3 R_5 g_m s^2 + 2 C_L L_L R_3 R_L g_m s^2 + C_L L_L R_3 s^2 + C_L L_L R_5 R_L g_m s^2 + C_L L_L R_L s^2 + C_L R_3 g_m s + C_L R_5 g_m s + C_L R_L g_m s + g_m}$$

$$10.177 \quad \text{INVALID-ORDER-177} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_L R_L s + 1)}{C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 R_3 s^2 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s + 2 C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_L s^2 + 2 C_5 R_3 g_m s + C_5 s + C_L R_3 g_m s + C_L R_L g_m s + g_m}$$

$$10.178 \quad \text{INVALID-ORDER-178} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_L L_L s^2 + 1)}{C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 R_3 g_m s + 2 C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_3 s^2 + 2 C_5 R_3 g_m s + C_5 s + C_L L_L g_m s^2 + C_L R_3 g_m s + g_m}$$

$$10.179 \quad \text{INVALID-ORDER-179} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_3 s (-C_5 s + g_m)}{C_3 C_5 L_L R_3 s^3 + C_3 L_L R_3 g_m s^2 + C_5 C_L L_L R_3 s^3 + 2 C_5 L_L R_3 g_m s^2 + C_5 L_L s^2 + C_5 R_3 s + C_L L_L R_3 g_m s^2 + L_L g_m s + R_3 g_m}$$

$$10.180 \quad \text{INVALID-ORDER-180} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_L L_L s^2 + C_L R_L s + 1)}{C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s + 2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L s^3 + 2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s^2}$$

$$10.181 \quad \text{INVALID-ORDER-181} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_3 R_L s (-C_5 s + g_m)}{C_3 C_5 L_L R_3 R_L s^3 + C_3 L_L R_3 R_L g_m s^2 + C_5 C_L L_L R_3 R_L s^3 + 2C_5 L_L R_3 R_L g_m s^2 + C_5 L_L R_3 s^2 + C_5 L_L R_L s^2 + C_5 R_3 R_L s + C_L L_L R_3 R_L g_m s^2 + L_L R_3 g_m s + L_L R_L g_m s + R_3 R_L g_m s}$$

$$10.182 \quad \text{INVALID-ORDER-182} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{R_3 (C_5 s - g_m) (C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_L R_3 R_L g_m s^3 + C_3 L_L R_3 g_m s^2 + C_3 R_3 R_L g_m s + 2C_5 C_L L_L R_3 R_L g_m s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_L s^3 + 2C_5 C_L R_3 R_L s^2}$$

$$10.183 \quad \text{INVALID-ORDER-183} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{R_3 R_L (C_5 s - g_m) (C_L L_L s^2 + 1)}{C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_L R_3 R_L g_m s^3 + C_3 R_3 R_L g_m s + 2C_5 C_L L_L R_3 R_L g_m s^3 + C_5 C_L L_L R_3 s^3 + C_5 C_L L_L R_L s^3 + C_5 C_L R_3 R_L s^2 + 2C_5 R_3 R_L g_m s + C_5 R_3 R_L s}$$

$$10.184 \quad \text{INVALID-ORDER-184} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 (C_L R_L s + 1) (C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + 2C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_5 s^2 + C_5 C_L R_5 R_L s^2 + 2C_5 R_3 R_5 g_m s + C_5 R_3 R_5 s}$$

$$10.185 \quad \text{INVALID-ORDER-185} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_L R_3 R_5 s^4 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 R_3 R_5 g_m s + C_3 R_3 s + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_5 s^3 + C_5 C_L R_3 R_5 s^2 + 2C_5 R_3 R_5 g_m s}$$

$$10.186 \quad \text{INVALID-ORDER-186} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_3 s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_L R_3 R_5 s^3 + C_3 L_L R_3 R_5 g_m s^2 + C_3 L_L R_3 s^2 + C_5 C_L L_L R_3 R_5 s^3 + 2C_5 L_L R_3 R_5 g_m s^2 + C_5 L_L R_5 s^2 + C_5 R_3 R_5 s + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + 2L_L R_3 g_m s + L_L R_5 g_m s}$$

$$10.187 \quad \text{INVALID-ORDER-187} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + 2C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_5 s^3 + C_5 C_L R_3 R_5 s^2 + 2C_5 R_3 R_5 g_m s}$$

$$10.188 \quad \text{INVALID-ORDER-188} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_3 R_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_L R_3 R_5 R_L s^3 + C_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_L R_3 R_L s^2 + C_5 C_L L_L R_3 R_5 R_L s^3 + 2C_5 L_L R_3 R_5 R_L g_m s^2 + C_5 L_L R_3 R_5 s^2 + C_5 L_L R_5 R_L s^2 + C_5 R_3 R_5 R_L s + C_L L_L R_3 R_5 R_L g_m s}$$

$$10.189 \quad \text{INVALID-ORDER-189} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 L_L R_3 R_5 s^3 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_L R_3 R_5 g_m s^2 + C_3 L_L R_3 s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s}$$

10.190 INVALID-ORDER-190 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + 2C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_5 s^3 + C_5 C_L L_L R_3 R_5 R_L g_m s^2 + C_5 C_L L_L R_3 R_5 R_L s^2 + C_5 C_L L_L R_3 R_5 R_L g_m s + C_5 C_L L_L R_3 R_5 R_L s}{C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + 2C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_5 s^3 + C_5 C_L L_L R_3 R_5 R_L g_m s^2 + C_5 C_L L_L R_3 R_5 R_L s^2 + C_5 C_L L_L R_3 R_5 R_L g_m s + C_5 C_L L_L R_3 R_5 R_L s}$$

10.191 INVALID-ORDER-191 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_L R_L s + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L R_3 R_5 R_L q_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 R_3 R_5 q_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_L R_3 R_L q_m s^2 + C_3 R_3 q_m s + C_5 C_L R_3 R_5 q_m s^2 + 2 C_5 C_L R_3 R_L q_m s^2 + C_5 C_L R_3 s^2 + C_5 C_L R_5 q_m s^2}$$

10.192 INVALID-ORDER-192 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_L L_L s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 R_3 g_m s + 2 C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L R_5 g_m s^3 + C_5 C_L L_L s^3 + C_5 C_L R_3 I}$$

10.193 INVALID-ORDER-193 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 L_L R_3 g_m s^2 + C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 s^3 + 2 C_5 L_L R_3 g_m s^2 + C_5 L_L R_5 g_m s^2 + C_5 L_L s^2 + C_5 R_3 R_5 g_m s + C_5 R_3 s + C_L L_L R_3}$$

10.194 INVALID-ORDER-194 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_{3s+1}}, \infty, R_5 + \frac{1}{C_{5s}}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3}{C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s +}$$

$$10.195 \quad \text{INVALID-ORDER-195} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_3 R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_L R_3 R_5 R_L g_m s^3 + C_3 C_5 L_L R_3 R_L s^3 + C_3 L_L R_3 R_L g_m s^2 + C_5 C_L L_L R_3 R_5 R_L g_m s^3 + C_5 C_L L_L R_3 R_L s^3 + C_5 L_L R_3 R_5 g_m s^2 + 2 C_5 L_L R_3 R_L g_m s^2 + C_5 L_L R_3 s^2 + C_5 L_L R_5 s^2}$$

$$10.196 \quad \text{INVALID-ORDER-196} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_L R_3 R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_L R_3 R_L g_m s^3 + C_3 L_L R_3 g_m s^2 + C_3 R_3 s^2}$$

$$10.197 \quad \text{INVALID-ORDER-197} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L (C_5 L_L g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_L R_3 R_L g_m s^3 + C_3 R_3 R_L g_m s + C_5 C_L L_L R_3 R_5 g_m s^3 + 2 C_5 C_L L_L R_3 R_L g_m s^3 - C_5 L_L R_3 s^2}$$

$$10.198 \quad \text{INVALID-ORDER-198} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_L s^2 + C_3 R_3 R_L g_m s + C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_L g_m s^2 + 2 C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + R_3 g_m + R_L g_m}$$

$$10.199 \quad \text{INVALID-ORDER-199} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 s^2 + C_3 R_3 g_m s + C_5 C_L L_5 R_3 g_m s^3 + C_5 C_L R_3 s^2 + C_5 L_5 g_m s^2 + 2 C_5 R_3 g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

$$10.200 \quad \text{INVALID-ORDER-200} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_L s^2 + C_3 R_3 R_L g_m s + C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L R_3 R_L s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_L g_m s^2 + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + C_L R_3 R_L g_m s}$$

$$10.201 \quad \text{INVALID-ORDER-201} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_L R_L s + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 s^2 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s + C_5 C_L L_5 R_3 g_m s^3 + C_5 C_L L_5 R_L g_m s^3 + 2C_5 C_L R_3 R_L g_m s^2 + C_5 C_L R_3 s + C_5 R_L s + C_L R_3 R_L g_m s}$$

$$10.202 \quad \text{INVALID-ORDER-202} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 R_3 g_m s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_3 g_m s^3 + 2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L R_3 s + C_5 R_L s + C_L R_3 R_L g_m s}$$

$$10.203 \quad \text{INVALID-ORDER-203} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_3 s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_L R_3 s^3 + C_3 L_L R_3 g_m s^2 + C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_L R_3 s^3 + C_5 L_5 L_L g_m s^3 + C_5 L_5 R_3 g_m s^2 + 2C_5 L_L R_3 g_m s^2 + C_5 L_L s^2 + C_5 R_3 s + C_L L_L R_3 s}$$

$$10.204 \quad \text{INVALID-ORDER-204} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s + C_5 C_L L_5 L_L g_m s^4 + C_5 C_L L_5 R_3 g_m s^3 + 2C_5 C_L L_L R_3 g_m s^3 + C_5 C_L L_L R_3 s + C_5 R_L s + C_L R_3 R_L g_m s}$$

$$10.205 \quad \text{INVALID-ORDER-205} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_L R_3 R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 L_L R_3 R_L g_m s^4 + C_3 C_5 L_L R_3 R_L s^3 + C_3 L_L R_3 R_L g_m s^2 + C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_L R_3 R_L s^3 + C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L R_L g_m s^3 + C_5 L_5 R_3 R_L g_m s^2 + 2 C_5 L_5 R_3 R_L g_m s + C_5 L_5 R_3 R_L g_m}$$

$$10.206 \quad \text{INVALID-ORDER-206} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_L R_3 R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_L R_3 R_L g_m s^3 + C_3 L_L R_3 g_m s^2 + C_3 R_3 R_L g_m s + C_3 R_3 R_L g_m}$$

$$10.207 \quad \text{INVALID-ORDER-207} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{R_L (L_L s + \frac{1}{C_L s}) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_L R_3 R_L g_m s^3 + C_3 R_3 R_L g_m s + C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L R_L g_m s^4 + C_5 L_5 R_3 R_L g_m s^2 + 2 C_5 L_5 R_3 R_L g_m s + C_5 L_5 R_3 R_L g_m}$$

$$10.208 \quad \text{INVALID-ORDER-208} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$$

$$H(s) = \frac{R_3 R_L (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 R_3 R_L s^3 + C_3 L_5 R_3 R_L g_m s^2 + C_3 R_3 R_L s + 2 C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_L s^2 + L_5 R_3 g_m s + L_5 R_L g_m s + 2 R_3 R_L g_m + R_3 + R_L}$$

$$10.209 \quad \text{INVALID-ORDER-209} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 R_3 s^3 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 s + C_5 C_L L_5 R_3 s^3 + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_3 g_m s^2 + C_L R_3 s + L_5 g_m s + 2 R_3 g_m + 1}$$

10.210 INVALID-ORDER-210 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 R_3 R_L s^3 + C_3 L_5 R_3 R_L g_m s^2 + C_3 R_3 R_L s + C_5 C_L L_5 R_3 R_L s^3 + 2C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_L s^2 + C_L L_5 R_3 R_L g_m s^2 + C_L R_3 R_L s + L_5 R_3 g_m s + L_5 R_L g_m s}$$

10.211 INVALID-ORDER-211 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_L R_L s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 R_3 R_L g_m s^3 + C_3 C_L R_3 R_L s^2 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 s + 2C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + 2C_5 L_5 R_3 g_m s^3}$$

10.212 INVALID-ORDER-212 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 L_L R_3 g_m s^4 + C_3 C_L L_L R_3 s^3 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 s + 2C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_3 s^3 + 2C_5 L_5 R_3 g_m s^3}$$

10.213 INVALID-ORDER-213 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 L_L R_3 s^4 + C_3 L_5 L_L R_3 g_m s^3 + C_3 L_L R_3 s^2 + C_5 C_L L_5 L_L R_3 s^4 + 2C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L s^3 + C_5 L_5 R_3 s^2 + C_L L_5 L_L R_3 g_m s^3 + C_L L_L R_3 s^2 + L_5 L_L g_m s^2 + L_5 R_3 g_m s}$$

10.214 INVALID-ORDER-214 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_L L_L s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 L_L R_3 g_m s^4 + C_3 C_L L_5 R_3 R_L g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 C_L R_3 R_L s^2 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 s + 2C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_5 L_L s^4 + C_5 C_L L_5 R_3 s^3 + 2C_5 L_5 R_3 g_m s^3}$$

$$H(s) = \frac{L_L R_3 R_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_5 L_L R_3 R_L s^4 + C_3 L_5 L_L R_3 R_L g_m s^3 + C_3 L_L R_3 R_L s^2 + C_5 C_L L_5 L_L R_3 R_L s^4 + 2C_5 L_5 L_L R_3 R_L g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_L s^3 + C_5 L_5 R_3 R_L s^2 + C_L L_5 L_L R_3 R_L g_m}$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_5 L_L R_3 g_m s^3 + C_3 L_5 R_3 R_L g_m s^2 + C_3 L_L R_3 s^2 + C_3 R_3 R_L s}{C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_5 L_L R_3 g_m s^3 + C_3 L_5 R_3 R_L g_m s^2 + C_3 L_L R_3 s^2 + C_3 R_3 R_L s}$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_5 R_3 R_L g_m s^2 + C_3 R_3 R_L s + 2 C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_3 s^4}{C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_5 R_3 R_L g_m s^2 + C_3 R_3 R_L s + 2 C_5 C_L L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_5 L_L R_3 s^4}$$

$$H(s) = \frac{R_3 R_L (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 R_3 R_L g_m s + C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_L g_m s^2 + C_5 R_3 R_5 g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_5 R_L g_m s + C_5 R_L s}$$

$$H(s) = \frac{R_3 (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 R_3 g_m s + C_5 C_L L_5 R_3 g_m s^3 + C_5 C_L R_3 R_5 g_m s^2 + C_5 C_L R_3 s^2 + C_5 L_5 g_m s^2 + 2C_5 R_3 g_m s + C_5 R_5 g_m s + C_5 s + C_L R_3 g_m s}$$

10.220 INVALID-ORDER-220 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 R_3 R_L g_m s + C_5 C_L L_5 R_3 R_L g_m s^3 + C_5 C_L R_3 R_5 R_L g_m s^2 + C_5 C_L R_3 R_L s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_L s^2 + C_5 L_5 g_m s + C_5 R_3 g_m s - C_5 s + g_m}$$

10.221 INVALID-ORDER-221 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_{3s+1}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_L R_L s + 1) (C_5 L_5 s + 1)}{C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s + C_5 C_L L_5 R_3 g_m s^3 +}$$

10.222 INVALID-ORDER-222 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3(C_L L s^2 + 1)(C_5 L}{C_3 C_5 C_L L_5 L L R_3 g_m s^5 + C_3 C_5 C_L L L R_3 R_5 g_m s^4 + C_3 C_5 C_L L L R_3 s^4 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_L L L R_3 g_m s^3 + C_3 R_3 g_m s + C_5 C_L L_5 L L g_m s^4 + C}$$

10.223 INVALID-ORDER-223 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 L_L R_3 g_m s^2 + C_5 C_L L_5 L_L R_3 g_m s^4 + C_5 C_L L_L R_3 R_5 g_m s^3 + C_5 C_L L_L R_3 s^3 + C_5 L_5 L_L g_m s^3 + C_5 L_5 R_3 g_m s^2 + 2C_5 L_5 R_3 s + C_5 g_m}$$

10.224 INVALID-ORDER-224 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^3}{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^3}$$

$$\mathbf{10.230 \quad INVALID-ORDER-230} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 R_L (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - L_5)}{C_3 C_5 L_5 R_3 R_5 R_L s^3 + C_3 L_5 R_3 R_5 R_L g_m s^2 + C_3 L_5 R_3 R_L s^2 + C_3 R_3 R_5 R_L s + C_5 C_L L_5 R_3 R_5 R_L s^3 + 2C_5 L_5 R_3 R_5 R_L g_m s^2 + C_5 L_5 R_3 R_5 s^2 + C_5 L_5 R_5 R_L s^2 + C_L L_5 R_3 R_5 R_L g_m s}$$

$$\mathbf{10.231 \quad INVALID-ORDER-231} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 R_L (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - L_5)}{C_3 C_5 C_L L_5 R_3 R_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_L L_5 R_3 R_5 R_L g_m s^3 + C_3 C_L L_5 R_3 R_L s^3 + C_3 C_L R_3 R_5 R_L s^2 + C_3 L_5 R_3 R_5 g_m s^2 + C_3 L_5 R_3 s^2 + C_3 R_3 R_5 s + 2C_5 C_L L_5 R_3 R_5 R_L s^3}$$

$$\mathbf{10.232 \quad INVALID-ORDER-232} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 R_L (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - L_5)}{C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_L L_5 L_L R_3 R_5 g_m s^4 + C_3 C_L L_5 L_L R_3 s^4 + C_3 C_L L_L R_3 R_5 s^3 + C_3 L_5 R_3 R_5 g_m s^2 + C_3 L_5 R_3 s^2 + C_3 R_3 R_5 s + 2C_5 C_L L_5 L_L R_3 R_5 R_L s^3}$$

$$\mathbf{10.233 \quad INVALID-ORDER-233} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L R_3 s (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - L_5)}{C_3 C_5 L_5 L_L R_3 R_5 s^4 + C_3 L_5 L_L R_3 R_5 g_m s^3 + C_3 L_5 L_L R_3 s^3 + C_3 L_L R_3 R_5 s^2 + C_5 C_L L_5 L_L R_3 R_5 s^4 + 2C_5 L_5 L_L R_3 R_5 g_m s^3 + C_5 L_5 L_L R_5 s^3 + C_5 L_5 R_3 R_5 s^2 + C_L L_5 L_L R_3 R_5 g_m s}$$

$$\mathbf{10.234 \quad INVALID-ORDER-234} \quad Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{R_3 R_L (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - L_5)}{C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_L L_5 L_L R_3 R_5 g_m s^4 + C_3 C_L L_5 L_L R_3 s^4 + C_3 C_L L_5 R_3 R_5 R_L g_m s^3 + C_3 C_L L_5 R_3 R_L s^3 + C_3 C_L L_L R_3 R_5 s^3}$$

10.235 INVALID-ORDER-235 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 L_5 L_L R_3 R_5 R_L s^4 + C_3 L_5 L_L R_3 R_5 R_L g_m s^3 + C_3 L_5 L_L R_3 R_L s^3 + C_3 L_L R_3 R_5 R_L s^2 + C_5 C_L L_5 L_L R_3 R_5 R_L s^4 + 2 C_5 L_5 L_L R_3 R_5 R_L g_m s^3 + C_5 L_5 L_L R_3 R_5 s^3 + C_5 L_5 L_L R_5 R_L s^2}{C_3 C_5 L_5 L_L R_3 R_5 R_L s^4 + C_3 L_5 L_L R_3 R_5 R_L g_m s^3 + C_3 L_5 L_L R_3 R_L s^3 + C_3 L_L R_3 R_5 R_L s^2 + C_5 C_L L_5 L_L R_3 R_5 R_L s^4 + 2 C_5 L_5 L_L R_3 R_5 R_L g_m s^3 + C_5 L_5 L_L R_3 R_5 s^3 + C_5 L_5 L_L R_5 R_L s^2}$$

10.236 INVALID-ORDER-236 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_5 L_L R_3 R_5 s^4 + C_3 C_5 L_5 R_3 R_5 R_L s^3 + C_3 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^4 + C_3 C_L L_L R_3 R_5 R_L s^3 + C_3 L_5 L_L R_3 R_5 g_m s^3 + C_3 L_5 L_L R_3 R_5 s^2 + C_3 L_5 L_L R_3 R_L s^2 + C_3 L_5 L_L R_3 s^2 + C_3 L_5 L_L R_L s^2 + C_3 L_5 L_L s^2 + C_3 L_5 L s^2 + C_3 L_5 s^2 + C_3 L s^2 + C_3 s^2}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_5 L_L R_3 R_5 s^4 + C_3 C_5 L_5 R_3 R_5 R_L s^3 + C_3 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^4 + C_3 C_L L_L R_3 R_5 R_L s^3 + C_3 L_5 L_L R_3 R_5 g_m s^3 + C_3 L_5 L_L R_3 R_5 s^2 + C_3 L_5 L_L R_3 R_L s^2 + C_3 L_5 L_L R_3 s^2 + C_3 L_5 L_L R_L s^2 + C_3 L_5 L_L s^2 + C_3 L_5 L s^2 + C_3 L_5 s^2 + C_3 L s^2 + C_3 s^2}$$

10.237 INVALID-ORDER-237 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_5 R_3 R_5 R_L s^3 + C_3 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^4 + C_3 C_L L_L R_3 R_5 R_L s^3 + C_3 L_5 R_3 R_5 R_L g_m s^2 + C_3 L_5 R_3 R_L s^2 + C_3 R_3 R_5}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_5 R_3 R_5 R_L s^3 + C_3 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^4 + C_3 C_L L_L R_3 R_5 R_L s^3 + C_3 L_5 R_3 R_5 R_L g_m s^2 + C_3 L_5 R_3 R_L s^2 + C_3 R_3 R_5}$$

10.238 INVALID-ORDER-238 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 L_5 R_3 R_L g_m s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_5 L_5 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_5 s^2 + C_5 R_5 R_L g_m s + C_5 R_5 s + R_5 g_m - 1}$$

10.239 INVALID-ORDER-239 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 s^3 + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_L L_5 R_3 g_m s}$$

10.240 INVALID-ORDER-240 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s + C_5 L_5 R_5 g_m)}{C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 L_5 R_3 R_L g_m s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_5 C_L L_5 R_3 R_5 R_L g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 L_5 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_3 R_L g_m s + C_5 L_5 R_3 R_5 g_m}$$

10.241 INVALID-ORDER-241 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s + C_5 L_5 R_5 g_m)}{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 R_3 R_L g_m s^3 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 R_L s + C_5 C_L L_5 R_3 R_5 R_L g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 L_5 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_3 R_L g_m s + C_5 L_5 R_3 R_5 g_m}$$

10.242 INVALID-ORDER-242 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s + C_5 L_5 R_5 g_m)}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 L_L R_3 g_m s^4 + C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 R_L s + C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_3 g_m s^2 + C_5 L_5 L_L R_3 s^2 + C_5 L_5 L_L R_3 g_m s + C_5 L_5 L_L R_3 s}$$

10.243 INVALID-ORDER-243 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s + C_5 L_5 R_5 g_m)}{C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 L_5 L_L R_3 g_m s^3 + C_3 L_L R_3 R_5 g_m s^2 + C_3 L_L R_3 s^2 + C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + 2 C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_3 g_m s^2 + C_5 L_5 L_L R_3 s^2 + C_5 L_5 L_L R_3 g_m s + C_5 L_5 L_L R_3 s}$$

10.244 INVALID-ORDER-244 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m s + C_5 L_5 R_5 g_m)}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 L_L R_3 g_m s^4 + C_3 C_L L_5 R_3 R_5 g_m s^3 + C_3 C_L L_5 R_3 s^3 + C_3 L_5 R_3 g_m s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 R_L s + C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 L_5 L_L R_3 g_m s^3 + C_5 L_5 L_L R_3 s^3 + C_5 L_5 L_L R_3 g_m s^2 + C_5 L_5 L_L R_3 s^2 + C_5 L_5 L_L R_3 g_m s + C_5 L_5 L_L R_3 s}$$

10.245 INVALID-ORDER-245 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 R_L s^4 + C_3 L_5 L_L R_3 R_L g_m s^3 + C_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_L R_3 R_L s^2 + C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_L s^4 + C_5 L_5 L_L R_3 R_5 R_L g_m s^3 + C_5 L_5 L_L R_3 R_L s^3 + C_5 L_L R_3 R_5 R_L g_m s^2 + C_5 L_L R_3 R_L s^2}{C_3 C_5 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 R_L s^4 + C_3 L_5 L_L R_3 R_L g_m s^3 + C_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_L R_3 R_L s^2 + C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_L s^4 + C_5 L_5 L_L R_3 R_5 R_L g_m s^3 + C_5 L_5 L_L R_3 R_L s^3 + C_5 L_L R_3 R_5 R_L g_m s^2 + C_5 L_L R_3 R_L s^2}$$

10.246 INVALID-ORDER-246 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^4 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^4}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^4 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^4}$$

10.247 INVALID-ORDER-247 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L q_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 R_3 R_5 R_L q_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L q_m s^4 + C_3 C_L L_L R_3 R_5 R_L q_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 C_L L_L R_3 R_5 R_L q_m s^2 + C_3 C_L L_L R_3 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L q_m s + C_3 C_L L_L R_3 R_L s + C_3 C_L L_L R_3 R_5 R_L q_m}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L q_m s^6 + C_3 C_5 C_L L_5 L_L R_3 R_L s^6 + C_3 C_5 L_5 R_3 R_5 R_L q_m s^4 + C_3 C_5 L_5 R_3 R_L s^4 + C_3 C_L L_5 L_L R_3 R_L q_m s^5 + C_3 C_L L_L R_3 R_5 R_L q_m s^4 + C_3 C_L L_L R_3 R_L s^4 + C_3 C_L L_L R_3 R_5 R_L q_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 C_L L_L R_3 R_5 R_L q_m s^2 + C_3 C_L L_L R_3 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L q_m s + C_3 C_L L_L R_3 R_L s + C_3 C_L L_L R_3 R_5 R_L q_m}.$$

10.248 INVALID-ORDER-248 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_5 L_5 R_3 R_5 g_m s^2 + 2 C_5 L_5 R_3 R_L g_m s^2 + C_5 L_5 R_3 s^2 + C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_5 s^2 + C_5 R_5 g_m s - R_5 g_m - 1}$$

10.249 INVALID-ORDER-249 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{R_3 (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + C_5 C_L L_5 R_3 R_5 g_m s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L R_3 R_5 s^2 + 2 C_5 L_5 R_3 g_m s^2 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 R_5 s^2 + C_5 L_5 R_5 s + C_5 R_5 g_m - 1}$$

10.250 INVALID-ORDER-250 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_3 R_L (C_5 L_5 R_5 g_m)}{C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_5 C_L L_5 R_3 R_5 R_L g_m s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L R_3 R_5 R_L s^2 + C_5 L_5 R_3 R_5 g_m}$$

10.251 INVALID-ORDER-251 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 s^2}{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 s^2}$$

10.252 INVALID-ORDER-252 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_L R_3 R_5 s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 R_3 s^2}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_L R_3 R_5 s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 R_3 s^2}$$

10.253 INVALID-ORDER-253 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (C_5 L_5 s^4 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_L R_3 R_5 s^3 + C_3 L_L R_3 R_5 g_m s^2 + C_3 L_L R_3 s^2 + C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_L R_3 R_5 s^3 + 2 C_5 L_5 L_L R_3 g_m s^2 + C_5 L_5 L_L R_3 s^2 + C_5 L_L R_3 R_5 s^3 + C_5 L_L R_3 s^2 + C_5 L_L R_3 s)}{C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_L R_3 R_5 s^3 + C_3 L_L R_3 R_5 g_m s^2 + C_3 L_L R_3 s^2 + C_5 C_L L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_5 L_L R_3 s^4 + C_5 C_L L_L R_3 R_5 s^3 + 2 C_5 L_5 L_L R_3 g_m s^2 + C_5 L_5 L_L R_3 s^2 + C_5 L_L R_3 R_5 s^3 + C_5 L_L R_3 s^2 + C_5 L_L R_3 s}$$

10.254 INVALID-ORDER-254 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L L_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L L_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3}$$

10.255 INVALID-ORDER-255 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 R_L s^4 + C_3 C_5 L_L R_3 R_5 R_L s^3 + C_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_L R_3 R_L s^2 + C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_L s^4 + C_5 C_L L_L R_3 R_5 R_L s^3 + C_5 C_L L_L R_3 R_L s^2 + C_5 C_L L_L R_3 R_5 R_L g_m s^2}{C_3 C_5 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 R_L s^4 + C_3 C_5 L_L R_3 R_5 R_L s^3 + C_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_L R_3 R_L s^2 + C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_5 L_L R_3 R_L s^4 + C_5 C_L L_L R_3 R_5 R_L s^3 + C_5 C_L L_L R_3 R_L s^2 + C_5 C_L L_L R_3 R_5 R_L g_m s^2}$$

10.256 INVALID-ORDER-256 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_3 s^2 + C_3 C_5 L_5 R_3 s + C_3 C_5 L_5 s^2 + C_3 C_5 L_5 s + C_3 C_5 s^2 + C_3 C_5 s}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_3 s^2 + C_3 C_5 L_5 R_3 s + C_3 C_5 L_5 s^2 + C_3 C_5 L_5 s + C_3 C_5 s^2 + C_3 C_5 s}$$

10.257 INVALID-ORDER-257 $Z(s) = \left(\infty, \infty, \frac{R_3}{C_3 R_3 s + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L s}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L s}$$

10.258 INVALID-ORDER-258 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, R_L \right)$

$$H(s) = \frac{R_L(R_5 g_m - 1)(C_3 R_3 s + 1)}{C_3 R_3 R_5 g_m s + 2C_3 R_3 R_L g_m s + C_3 R_3 s + C_3 R_5 R_L g_m s + C_3 R_L s + R_5 g_m + 2R_L g_m + 1}$$

10.259 INVALID-ORDER-259 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1)(C_3 R_3 s + 1)(C_L L_L s^2 + 1)}{2C_3 C_L L_L R_3 g_m s^3 + C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 C_L R_3 R_5 g_m s^2 + C_3 C_L R_3 s^2 + 2C_3 R_3 g_m s + C_3 R_5 g_m s + C_3 s + 2C_L L_L g_m s^2 + C_L R_5 g_m s + C_L s + 2g_m}$$

10.260 INVALID-ORDER-260 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (R_5 g_m - 1) (C_3 R_3 s + 1)}{C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + 2C_3 L_L R_3 g_m s^2 + C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + 2L_L g_m s + R_5 g_m + 1}$$

10.261 INVALID-ORDER-261 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1) (C_3 R_3 s + 1) (C_L L_L s^2 + C_L R_L s + 1)}{2C_3 C_L L_L R_3 g_m s^3 + C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 C_L R_3 R_5 g_m s^2 + 2C_3 C_L R_3 R_L g_m s^2 + C_3 C_L R_3 s^2 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_L s^2 + 2C_3 R_3 g_m s + C_3 R_5 g_m s + C_3 s}$$

10.262 INVALID-ORDER-262 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_L s (R_5 g_m - 1) (C_3 R_3 s + 1)}{C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_L R_3 R_5 g_m s^2 + 2C_3 L_L R_3 R_L g_m s^2 + C_3 L_L R_3 s^2 + C_3 L_L R_5 R_L g_m s^2 + C_3 L_L R_L s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_L L_L R_5}$$

10.263 INVALID-ORDER-263 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{(R_5 g_m - 1) (C_3 R_3 s + 1) (C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_L L_L R_3 R_5 g_m s^3 + 2C_3 C_L L_L R_3 R_L g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + 2C_3 L_L R_3 g_m s^2 + C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_3 R_3 R_5 g_m s + 2C_3 R_3 R_L}$$

10.264 INVALID-ORDER-264 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_3 R_3 s + 1) (C_L L_L s^2 + 1)}{C_3 C_L L_L R_3 R_5 g_m s^3 + 2C_3 C_L L_L R_3 R_L g_m s^3 + C_3 C_L L_L R_3 s^3 + C_3 C_L L_L R_5 R_L g_m s^3 + C_3 C_L L_L R_L s^3 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 g_m s + 2C_3 R_3 R_L g_m s +}$$

10.265 INVALID-ORDER-265 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_3 R_3 s + 1)}{s(C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L R_3 g_m s + C_3 g_m + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.266 INVALID-ORDER-266 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{R_L (C_5 s - g_m)(C_3 R_3 s + 1)}{C_3 C_5 C_L R_3 R_L s^3 + 2C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_L s^2 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_5 C_L R_L s^2 + 2C_5 R_L g_m s + C_5 s + C_L R_L g_m s + g_m}$$

10.267 INVALID-ORDER-267 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_3 R_3 s + 1)(C_L R_L s + 1)}{s(2C_3 C_5 C_L R_3 R_L g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 C_L R_L s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L R_3 g_m s + C_3 C_L R_L g_m s + C_3 g_m + 2C_5 C_L R_L g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.268 INVALID-ORDER-268 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_3 R_3 s + 1)(C_L L_L s^2 + 1)}{s(2C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 C_L R_3 g_m s + C_3 g_m + 2C_5 C_L L_L g_m s^2 + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.269 INVALID-ORDER-269 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{L_L s (C_5 s - g_m)(C_3 R_3 s + 1)}{C_3 C_5 C_L L_L R_3 s^4 + 2C_3 C_5 L_L R_3 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 L_L g_m s^2 + C_3 R_3 g_m s + C_5 C_L L_L s^3 + 2C_5 L_L g_m s^2 + C_5 s + C_L L_L g_m s^2 + g_m}$$

10.270 INVALID-ORDER-270 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_3 R_3 s + 1)(C_L L_L s^2 + C_L R_L s + 1)}{s(2C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L s^3 + 2C_3 C_5 C_L R_3 R_L g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 C_L R_L s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 C_L R_3 g_m s + C_3 C_L R_L g_m s)}$$

10.271 INVALID-ORDER-271 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

$$H(s) = -\frac{L_L R_L s(C_5 s - g_m)(C_3 R_3 s + 1)}{C_3 C_5 C_L L_L R_3 R_L s^4 + 2C_3 C_5 L_L R_3 R_L g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 L_L R_L s^3 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_L R_3 R_L g_m s^3 + C_3 L_L R_3 g_m s^2 + C_3 L_L R_L g_m s^2 + C_3 R_3 R_L g_m s + C_5 C_L}$$

10.272 INVALID-ORDER-272 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_3R_3s + 1)(C_L L_L R_L s^2 + 2C_3C_5C_L L_L R_3R_L g_m s^4 + C_3C_5C_L L_L R_3s^4 + C_3C_5C_L L_L R_L s^4 + 2C_3C_5L_L R_3g_m s^3 + C_3C_5L_L s^3 + 2C_3C_5R_3R_L g_m s^2 + C_3C_5R_3s^2 + C_3C_5R_L s^2 + C_3C_L L_L R_3g_m s^3 + C_3C_L L_L R_3s^3 + C_3C_L L_L R_L s^3 + C_3C_L L_L s^3 + C_3C_L R_3R_L g_m s^2 + C_3C_L R_3s^2 + C_3C_L R_L s^2 + C_3C_L s^2 + C_3g_m s + g_m)}{2C_3C_5C_L L_L R_3R_L g_m s^4 + C_3C_5C_L L_L R_3s^4 + C_3C_5C_L L_L R_L s^4 + 2C_3C_5L_L R_3g_m s^3 + C_3C_5L_L s^3 + 2C_3C_5R_3R_L g_m s^2 + C_3C_5R_3s^2 + C_3C_5R_L s^2 + C_3C_L L_L R_3g_m s^3 + C_3C_L L_L R_3s^3 + C_3C_L L_L R_L s^3 + C_3C_L L_L s^3 + C_3C_L R_3R_L g_m s^2 + C_3C_L R_3s^2 + C_3C_L R_L s^2 + C_3C_L s^2 + C_3g_m s + g_m}$$

10.273 INVALID-ORDER-273 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, \infty, \frac{1}{C_{5s}}, \frac{R_L \left(L_L s + \frac{1}{C_{Ls}} \right)}{L_L s + R_L + \frac{1}{C_{Ls}}} \right)$

$$H(s) = -\frac{R_L(C_5s - g_m)(C_3R_3s + 1)(C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 C_L R_3 R_L s^3 + 2C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_L s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 C_L L_L R_L g_m s^3 +$$

10.274 INVALID-ORDER-274 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3 R_3 s + 1)(C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L R_3 R_5 s^3 + 2C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + C_3 C_L R_3 R_5 g_m s^2 + C_3 C_L R_3 s^2 + 2C_3 R_3 g_m s + C_3 R_5 g_m s + C_3 s + C_5 C_L R_5 s^2 + 2C_5 R_5 g_m s + C_L R_5 g_m s + C_L s + 2g_m}$$

10.275 INVALID-ORDER-275 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{R_L (C_3 R_3 s + 1) (C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L R_3 R_5 R_L s^3 + 2 C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_5 R_L s^2 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 R_3 R_5 g_m s + 2 C_3 R_3 R_L g_m s + C_3 R_3 s + C_3 R_5 R_L g_m}$$

$$10.276 \quad \text{INVALID-ORDER-276} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{(C_3 R_3 s + 1)(C_L R_L s + 1)(C_5 R_5 s - R_5 g_m)}{2C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_5 s^3 + C_3 C_5 C_L R_5 R_L s^3 + 2C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + C_3 C_L R_3 R_5 g_m s^2 + 2C_3 C_L R_3 R_L g_m s^2 + C_3 C_L R_3 s^2 + C_3 C_L R_5 R_L g_m s^2 -}$$

$$10.277 \quad \text{INVALID-ORDER-277} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{(C_3 R_3 s + 1)(C_L L_L s^2 + 1)(C_5 R_5 s - R_5 g_m)}{2C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L R_3 R_5 s^3 + 2C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + 2C_3 C_L L_L R_3 g_m s^3 + C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 C_L R_3 R_5 g_m s^2 +}$$

$$10.278 \quad \text{INVALID-ORDER-278} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = -\frac{L_L s (C_3 R_3 s + 1)(C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_L R_3 R_5 s^4 + 2C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_5 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + 2C_3 L_L R_3 g_m s^2 + C_3 L_L R_5 g_m s^2 + C_3 L_L s^2 + C_3 R_3 R_5 g_m s^2 -}$$

$$10.279 \quad \text{INVALID-ORDER-279} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{L_L s (C_3 R_3 s + 1)(C_5 R_5 s - R_5 g_m + 1)}{2C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_5 s^4 + 2C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_5 s^3 + C_3 C_5 C_L R_5 R_L s^3 + 2C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + 2C_3 C_L L_L R_3 g_m s^3 + C_3 C_L L_L R_5 g_m s^3 + C_3 C_L L_L s^3 + C_3 R_3 R_5 g_m s^2 -}$$

$$10.280 \quad \text{INVALID-ORDER-280} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = -\frac{L_L s (C_3 R_3 s + 1)(C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + 2C_3 C_5 L_L R_3 R_5 R_L g_m s^3 + C_3 C_5 L_L R_3 R_5 s^3 + C_3 C_5 L_L R_5 R_L s^3 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_L R_3 R_5 g_m s^2 -}$$

$$10.281 \quad \text{INVALID-ORDER-281} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{L_L s (C_3 R_3 s + 1)(C_5 R_5 s - R_5 g_m + 1)}{2C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_5 s^4 + C_3 C_5 C_L L_L R_5 R_L s^4 + 2C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_5 s^3 + 2C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_L R_3 R_5 g_m s^2 -}$$

$$10.282 \quad \text{INVALID-ORDER-282} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_5 s^4 + C_3 C_5 C_L L_L R_5 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + 2C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_5 R_L s^2 + C_3 C_L L_L R_3 R_5 g_m s}{s(C_3 C_5 C_L R_3 R_5 g_m s^2 + C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L R_3 g_m s + C_3 g_m + C_5 C_L R_5 g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

$$10.283 \quad \text{INVALID-ORDER-283} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_3 R_3 s + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(C_3 C_5 C_L R_3 R_5 g_m s^2 + C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L R_3 g_m s + C_3 g_m + C_5 C_L R_5 g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

$$10.284 \quad \text{INVALID-ORDER-284} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L (C_3 R_3 s + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 R_3 R_5 g_m s^2 + 2C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m s}$$

$$10.285 \quad \text{INVALID-ORDER-285} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_3 R_3 s + 1)(C_L R_L s + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(C_3 C_5 C_L R_3 R_5 g_m s^2 + 2C_3 C_5 C_L R_3 R_L g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L R_3 g_m s + C_3 C_L R_L g_m s)}$$

$$10.286 \quad \text{INVALID-ORDER-286} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_3 R_3 s + 1)(C_L L_L s^2 + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(2C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_3 R_5 g_m s^2 + C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 C_L R_3 g_m s)}$$

$$10.287 \quad \text{INVALID-ORDER-287} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L s (C_3 R_3 s + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + 2C_3 C_5 L_L R_3 g_m s^3 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 L_L g_m s^2 + C_3 R_3 g_m s}$$

10.288 INVALID-ORDER-288 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(C_3 R_3 s + 1)(C_L L_L s^2 + C_L R_L s + C_L R_L C_L)}{s(2C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_3 R_5 g_m s^2 + 2C_3 C_5 C_L R_3 R_L g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + 2C_3 C_5 C_L R_L s + C_3 C_5 C_L)}.$$

10.289 INVALID-ORDER-289 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, \infty, R_5 + \frac{1}{C_{5s}}, \frac{1}{C_{Ls} + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_L R_3 R_5 g_m s^3 + 2 C_3 C_5 L_L R_3 R_L g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 L_L R_5 R_L g_m s^3 + C_3 C_5 L_L R_L s^3 + C_3 C_5 R_3 R_5 R_L g_m s^2 +$$

10.290 INVALID-ORDER-290 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + 2 C_3 C_5 L_L R_3 g_m s^3 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 L_R s^3}{C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + 2 C_3 C_5 L_L R_3 g_m s^3 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 L_R s^3}$$

10.291 INVALID-ORDER-291 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 R_3 R_5}{C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 R_3 R_5}$$

10.292 INVALID-ORDER-292 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L \right)$

$$H(s) = \frac{R_L (C_3 R_3 s + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_L g_m s^3 + 2 C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_L s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_5 L_5 g_m s^2 + 2 C_5 R_L g_m s + C_5 s + g_m}$$

10.293 INVALID-ORDER-293 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 R_3 s + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{s(C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 L_5 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L R_3 g_m s + C_3 g_m + C_5 C_L L_5 g_m s^2 + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.294 INVALID-ORDER-294 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (C_3 R_3 s + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_L g_m s^3 + 2C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_L s^2 + C_3 C_L R_3 R_L g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m s}$$

10.295 INVALID-ORDER-295 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 R_3 s + 1)(C_L R_L s + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{s(C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L L_5 R_L g_m s^3 + 2C_3 C_5 C_L R_3 R_L g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 C_L R_L s^2 + C_3 C_5 L_5 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L R_3 g_m s + C_3 C_L R_L g_m s)}$$

10.296 INVALID-ORDER-296 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 R_3 s + 1)(C_L L_L s^2 + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{s(C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_5 R_3 g_m s^3 + 2C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 L_5 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 C_L R_3 g_m s)}$$

10.297 INVALID-ORDER-297 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (C_3 R_3 s + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 L_5 L_L g_m s^4 + C_3 C_5 L_5 R_3 g_m s^3 + 2C_3 C_5 L_L R_3 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_L R_3 g_m s^3 + C_3 L_L g_m s^2 + C_3 R_3 g_m s}$$

10.298 INVALID-ORDER-298 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 R_3 s + 1)(C_L L_L s^2 + C_L R_L s + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{s(C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L L_5 R_L g_m s^3 + 2C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L s^3 + 2C_3 C_5 C_L R_3 R_L g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 C_L R_L s^2 + C_3 C_5 L_5 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L L_L g_m s^2 + C_3 C_L R_3 g_m s)}$$

10.299 INVALID-ORDER-299 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L R_L g_m s^4 + C_3 C_5 L_5 R_3 R_L g_m s^3 + 2 C_3 C_5 L_L R_3 R_L g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 L_L R_L s^3 +$$

10.300 INVALID-ORDER-300 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LLs^2+1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 q_m s^5 + C_3 C_5 C_L L_5 L_L R_L q_m s^5 + 2 C_3 C_5 C_L L_L R_3 R_L q_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_5 L_L q_m s^4 + C_3 C_5 L_5 R_3 q_m s^3 + C_3 C_5 L_5 R_L q_m s^3 +$$

10.301 INVALID-ORDER-301 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, \infty, L_5s + \frac{1}{C_{5s}}, \frac{R_L \left(L_Ls + \frac{1}{C_{Ls}} \right)}{L_Ls + R_L + \frac{1}{C_{Ls}}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_5 R_3 g_m}{\dots}$$

10.302 INVALID-ORDER-302 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$

$$H(s) = -\frac{R_L(C_3R_3s+1)(C_5L_5s^2-L_5g_ms+1)}{2C_3C_5L_5R_3R_Lg_ms^3+C_3C_5L_5R_3s^3+C_3C_5L_5R_Ls^3+C_3L_5R_3g_ms^2+C_3L_5R_Lg_ms^2+2C_3R_3R_Lg_ms+C_3R_3s+C_3R_Ls+2C_5L_5R_Lg_ms^2+C_5L_5s^2+L_5g_ms+2R_Lg_ms+}$$

10.303 INVALID-ORDER-303 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{1}{CLs} \right)$

$$H(s) = -\frac{(C_3 R_3 s + 1)(C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 R_3 s^4 + 2C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 R_3 g_m s^3 + C_3 C_L R_3 s^2 + C_3 L_5 g_m s^2 + 2C_3 R_3 g_m s + C_3 s + C_5 C_L L_5 s^3 + 2C_5 L_5 g_m s^2 + C_L L_5 g_m s^2 + C_L s + 2g_m}$$

10.304 INVALID-ORDER-304 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{R_L (C_3 R_3 s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 R_3 R_L s^4 + 2C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 R_3 R_L g_m s^3 + C_3 C_L R_3 R_L s^2 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 + 2C_3 R_3 R_L g_m s + C_3 R_3 s^2 + C_3 R_L s^2 + C_3 L_5 s^2 + C_3 L_5 g_m s + C_3 L_5}$$

10.305 INVALID-ORDER-305 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3 R_3 s + 1) (C_L R_L s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{2C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_L s^4 + 2C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 R_3 g_m s^3 + C_3 C_L L_5 R_L g_m s^3 + 2C_3 C_L R_3 R_L g_m s^2 + C_3 C_L R_3 s^2 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 + 2C_3 R_3 R_L g_m s + C_3 R_3 s^2 + C_3 R_L s^2 + C_3 L_5 s^2 + C_3 L_5 g_m s + C_3 L_5}$$

10.306 INVALID-ORDER-306 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3 R_3 s + 1) (C_L L_L s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{2C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 C_L L_5 R_3 s^4 + 2C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 L_L g_m s^4 + C_3 C_L L_5 R_3 g_m s^3 + 2C_3 C_L L_L R_3 g_m s^3 + C_3 C_L L_L s^3 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 + 2C_3 R_3 R_L g_m s + C_3 R_3 s^2 + C_3 R_L s^2 + C_3 L_5 s^2 + C_3 L_5 g_m s + C_3 L_5}$$

10.307 INVALID-ORDER-307 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{L_L s (C_3 R_3 s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_5 L_L R_3 s^5 + 2C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 L_L R_3 g_m s^4 + C_3 C_L L_L R_3 s^3 + C_3 L_5 L_L g_m s^3 + C_3 L_5 R_3 g_m s^2 + 2C_3 L_L R_3 g_m s^2 + C_3 L_L s^2 + C_3 L_5 s^2 + C_3 L_5 g_m s + C_3 L_5}$$

10.308 INVALID-ORDER-308 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_L s (C_3 R_3 s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{2C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + 2C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_L s^4 + 2C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 L_L g_m s^4 + C_3 C_L L_5 s^4 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 + 2C_3 R_3 R_L g_m s + C_3 R_3 s^2 + C_3 R_L s^2 + C_3 L_5 s^2 + C_3 L_5 g_m s + C_3 L_5}$$

$$10.309 \quad \text{INVALID-ORDER-309} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + 2C_3 C_5 L_5 L_L R_3 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_5 L_L R_3 g_m s^3}{C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + 2C_3 C_5 L_5 L_L R_3 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_5 L_L R_3 R_L g_m s^4 + C_3 C_L L_L R_3 R_L s^3 + C_3 L_5 L_L R_3 g_m s^3}$$

$$10.310 \quad \text{INVALID-ORDER-310} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + 2C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L s^4 + 2C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_3 g_m s^4}{2C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + 2C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L s^4 + 2C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_3 g_m s^4}$$

$$10.311 \quad \text{INVALID-ORDER-311} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_5 R_3 R_L s^4 + 2C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_3 g_m s^4}{2C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_5 R_3 R_L s^4 + 2C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 L_L R_3 g_m s^4}$$

$$10.312 \quad \text{INVALID-ORDER-312} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$$

$$H(s) = \frac{R_L (C_3 R_3 s + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + 2C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_5 L_5 g_m s^2 + C_5 R_5 g_m s}$$

$$10.313 \quad \text{INVALID-ORDER-313} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_3 R_3 s + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{s (C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L R_3 R_5 g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 L_5 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L R_3 g_m s + C_3 g_m + C_5 C_L L_5 g_m s^2 + C_5 C_L R_5 g_m s)}$$

$$10.314 \quad \text{INVALID-ORDER-314} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_L (C_3 R_3 s + 1) (C_5 L_5 g_m s^2 + C_5 R_5)}{C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 R_L g_m s^2}$$

$$10.315 \quad \text{INVALID-ORDER-315} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_3 R_3 s + 1) (C_L R_L s + 1) (C_5 L_5 g_m s^2 + C_5 R_5)}{s (C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L L_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_5 g_m s^2 + 2 C_3 C_5 C_L R_3 R_L g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + C_3 C_5 L_5 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2)}$$

$$10.316 \quad \text{INVALID-ORDER-316} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_3 R_3 s + 1) (C_L L_L s^2 + 1) (C_5 L_5 g_m s^2 + C_5 R_5)}{s (C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_5 R_3 g_m s^3 + 2 C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_3 R_5 g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 L_5 g_m s^2 + 2 C_3 C_5 R_3 R_5 g_m s^2)}$$

$$10.317 \quad \text{INVALID-ORDER-317} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_L s (C_3 R_3 s + 1) (C_5 L_5 g_m s^2 + C_5 R_5)}{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 L_5 L_L g_m s^4 + C_3 C_5 L_5 R_3 g_m s^3 + 2 C_3 C_5 L_L R_3 g_m s^3 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 R_3 R_5 g_m s^3}$$

$$10.318 \quad \text{INVALID-ORDER-318} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_L s (C_3 R_3 s + 1) (C_5 L_5 g_m s^2 + C_5 R_5)}{s (C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L L_5 R_L g_m s^3 + 2 C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_3 R_5 g_m s^2 + 2 C_3 C_5 C_L R_3 R_L g_m s^2)}$$

10.319 INVALID-ORDER-319 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L R_L g_m s^4 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_L R_3 R_5 g_m s^3 + 2 C_3 C_5 L_L R_3 R_L s^3 + C_3 C_5 L_L R_3 R_L g_m s^2 + C_3 C_5 L_L R_3 R_L s^2 + C_3 C_5 L_L R_3 R_L g_m s + C_3 C_5 L_L R_3 R_L}{C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L R_L g_m s^4 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_L R_3 R_5 g_m s^3 + 2 C_3 C_5 L_L R_3 R_L s^3 + C_3 C_5 L_L R_3 R_L g_m s^2 + C_3 C_5 L_L R_3 R_L s^2 + C_3 C_5 L_L R_3 R_L g_m s + C_3 C_5 L_L R_3 R_L}$$

10.320 INVALID-ORDER-320 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 q_m s^5 + C_3 C_5 C_L L_5 L_L R_L q_m s^5 + C_3 C_5 C_L L_L R_3 R_5 q_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L q_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L q_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L_5 L_L R_3 q_m s^5 + C_3 C_5 L_5 L_L R_L q_m s^5 + C_3 C_5 L_5 L_L R_3 R_5 q_m s^4 + 2 C_3 C_5 L_5 L_L R_3 R_L q_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_5 R_L q_m s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3 C_5 L_5 L_L s^5 + C_3 C_5 L_5 L_L R_3 R_5 q_m s^4 + 2 C_3 C_5 L_5 L_L R_3 R_L q_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_5 R_L q_m s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3 C_5 L_5 L_L s^5}{C_3 C_5 C_L L_5 L_L R_3 q_m s^5 + C_3 C_5 C_L L_5 L_L R_L q_m s^5 + C_3 C_5 C_L L_L R_3 R_5 q_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L q_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L q_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 C_L L_L s^5 + C_3 C_5 L_5 L_L R_3 q_m s^5 + C_3 C_5 L_5 L_L R_L q_m s^5 + C_3 C_5 L_5 L_L R_3 R_5 q_m s^4 + 2 C_3 C_5 L_5 L_L R_3 R_L q_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_5 R_L q_m s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3 C_5 L_5 L_L s^5}$$

10.321 INVALID-ORDER-321 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_5 s^4}{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_5 s^4}.$$

10.322 INVALID-ORDER-322 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5 + \frac{1}{L_5 s}}}, R_L \right)$

$$H(s) = -\frac{R_L (C_3 R_3 s + 1) (C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)}{2C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 L_5 R_3 R_5 g_m s^2 + 2C_3 L_5 R_3 R_L g_m s^2 + C_3 L_5 R_3 s^2 + C_3 L_5 R_5 R_L g_m s^2 + C_3 L_5 R_L s^2 + 2C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_5 s + R_3 s + R_5}$$

10.323 INVALID-ORDER-323 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5 + \frac{1}{L_5 s}}}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3R_3s + 1)(C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5)}{C_3C_5C_LL_5R_3R_5s^4 + 2C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5s^3 + C_3C_LL_5R_3R_5g_ms^3 + C_3C_LL_5R_3s^3 + C_3C_LR_3R_5s^2 + 2C_3L_5R_3g_ms^2 + C_3L_5R_5g_ms^2 + C_3L_5s^2 + 2C_3R_3R_5g_ms}$$

10.324 INVALID-ORDER-324 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 R_3 R_5 R_L s^4 + 2 C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_L L_5 R_3 R_5 R_L g_m s^3 + C_3 C_L L_5 R_3 R_L s^3 + C_3 C_L R_3 R_5 R_L s^2 + C_3 L_5 R_3 R_5 g_m s^2 +$$

10.325 INVALID-ORDER-325 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5 + \frac{1}{L_5 s}}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_5R_3R_5R_Lg_ms^4 + C_3C_5C_LL_5R_3R_5s^4 + C_3C_5C_LL_5R_5R_Ls^4 + 2C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5s^3 + C_3C_LL_5R_3R_5g_ms^3 + 2C_3C_LL_5R_3R_Lg_ms^3 + C_3C_LL_5R_3s^3}{2C_3C_5C_LL_5R_3R_5R_Lg_ms^4 + C_3C_5C_LL_5R_3R_5s^4 + C_3C_5C_LL_5R_5R_Ls^4 + 2C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5s^3 + C_3C_LL_5R_3R_5g_ms^3 + 2C_3C_LL_5R_3R_Lg_ms^3 + C_3C_LL_5R_3s^3}$$

10.326 INVALID-ORDER-326 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, \infty, \frac{1}{C_{5s} + \frac{1}{R_5} + \frac{1}{L_{5s}}}, L_L s + \frac{1}{C_{Ls}} \right)$

$$H(s) = -\frac{2C_3C_5C_L L_5 L_L R_3 R_5 g_m s^5 + C_3C_5C_L L_5 L_L R_5 s^5 + C_3C_5C_L L_5 R_3 R_5 s^4 + 2C_3C_5L_5 R_3 R_5 g_m s^3 + C_3C_5L_5 R_5 s^3 + 2C_3C_L L_5 L_L R_3 g_m s^4 + C_3C_L L_5 L_L R_5 g_m s^4 + C_3C_L L_5 L_L s^4}{\dots}$$

10.327 INVALID-ORDER-327 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + 2 C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_5 s^4 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_L L_5 L_L R_3 R_5 g_m s^4 + C_3 C_L L_5 L_L R_3 s^4 + C_3 C_L L_L R_3 R_5 s^3 + 2 C_3 L_5 L_L R_3 g_m s^3}{C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + 2 C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_5 s^4 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_L L_5 L_L R_3 R_5 g_m s^4 + C_3 C_L L_5 L_L R_3 s^4 + C_3 C_L L_L R_3 R_5 s^3 + 2 C_3 L_5 L_L R_3 g_m s^3}$$

10.328 INVALID-ORDER-328 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5 + \frac{1}{L_5 s}}}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_L L_5L_LR_3R_5g_ms^5 + C_3C_5C_LL_5L_LR_5s^5 + 2C_3C_5C_LL_5R_3R_5RLg_ms^4 + C_3C_5C_LL_5R_3R_5s^4 + C_3C_5C_LL_5R_5R_Ls^4 + 2C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5s^3 + 2C_3C_LL}{...}$$

$$10.329 \quad \text{INVALID-ORDER-329} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L s^5 + 2C_3 C_5 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 R_5 s^4 + C_3 C_5 L_5 L_L R_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 R_L s^3 + C_3 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^3}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L s^5 + 2C_3 C_5 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 R_5 s^4 + C_3 C_5 L_5 L_L R_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 R_L s^3 + C_3 C_L L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_5 L_L R_3 R_L s^3}$$

$$10.330 \quad \text{INVALID-ORDER-330} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L s^5 + 2C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_5 s^4 + 2C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3}{2C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L s^5 + 2C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_5 L_L R_5 s^4 + 2C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3}$$

$$10.331 \quad \text{INVALID-ORDER-331} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L s^4 + 2C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L s^3}{2C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L s^4 + 2C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L s^3}$$

$$10.332 \quad \text{INVALID-ORDER-332} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$$

$$H(s) = \frac{R_L (C_3 R_3 s + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 + C_3 R_3 R_5 g_m s + 2C_3 R_3 R_L g_m s + C_3 R_3 s}$$

$$10.333 \quad \text{INVALID-ORDER-333} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_3 R_3 s + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + 2C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 R_3 g_m s^3 + C_3 C_L R_3 R_5 g_m s^2 + C_3 C_L R_3 s^2 + C_3 L_5 g_m s^2 + 2C_3 R_3 g_m s}$$

10.334 INVALID-ORDER-334 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 R_3 R_L g_m s^3 + C_3 C_L L_5 R_3 R_L s^3 + C_3 C_L L_5 R_5 R_L g_m s^3 + C_3 C_L L_5 R_5 R_L s^3 + C_3 C_L L_5 R_L g_m s^3 + C_3 C_L L_5 R_L s^3 + C_3 C_L R_3 R_5 R_L g_m s^3 + C_3 C_L R_3 R_5 R_L s^3 + C_3 C_L R_3 R_L g_m s^3 + C_3 C_L R_3 R_L s^3 + C_3 C_L R_5 R_L g_m s^3 + C_3 C_L R_5 R_L s^3 + C_3 C_L R_L g_m s^3 + C_3 C_L R_L s^3 + C_3 R_3 R_5 R_L g_m s^3 + C_3 R_3 R_5 R_L s^3 + C_3 R_3 R_L g_m s^3 + C_3 R_3 R_L s^3 + C_3 R_5 R_L g_m s^3 + C_3 R_5 R_L s^3 + C_3 R_L g_m s^3 + C_3 R_L s^3}{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_5 R_3 R_L g_m s^3 + C_3 C_L L_5 R_3 R_L s^3 + C_3 C_L L_5 R_5 R_L g_m s^3 + C_3 C_L L_5 R_5 R_L s^3 + C_3 C_L L_5 R_L g_m s^3 + C_3 C_L L_5 R_L s^3 + C_3 C_L R_3 R_5 R_L g_m s^3 + C_3 C_L R_3 R_5 R_L s^3 + C_3 C_L R_3 R_L g_m s^3 + C_3 C_L R_3 R_L s^3 + C_3 C_L R_5 R_L g_m s^3 + C_3 C_L R_5 R_L s^3 + C_3 C_L R_L g_m s^3 + C_3 C_L R_L s^3 + C_3 R_3 R_5 R_L g_m s^3 + C_3 R_3 R_5 R_L s^3 + C_3 R_3 R_L g_m s^3 + C_3 R_3 R_L s^3 + C_3 R_5 R_L g_m s^3 + C_3 R_5 R_L s^3 + C_3 R_L g_m s^3 + C_3 R_L s^3}$$

10.335 INVALID-ORDER-335 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + 2 C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L}{\dots}$$

10.336 INVALID-ORDER-336 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_LR_5g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + C_3C_5C_LL_5R_3s^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_5s^3}{2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_LR_5g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + C_3C_5C_LL_5R_3s^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_5s^3}$$

10.337 INVALID-ORDER-337 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + 2 C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 L_L R_3 g_m s^4 + C_3 C_L L_5 L_L R_3 s^4 + C_3 C_L L_5 L_L R_5 g_m s^4 + C_3 C_L L_5 L_L R_5 s^4}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + 2 C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_5 L_L R_3 g_m s^4 + C_3 C_L L_5 L_L R_3 s^4 + C_3 C_L L_5 L_L R_5 g_m s^4 + C_3 C_L L_5 L_L R_5 s^4}$$

10.338 INVALID-ORDER-338 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 L_L R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C$$

10.339 INVALID-ORDER-339 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 L_5 L_L R_3 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 L_5 L_L R_3 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_5 R_L g_m s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3}$$

10.340 INVALID-ORDER-340 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + 2 C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 -$$

$$10.341 \quad \text{INVALID-ORDER-341} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_{Ls}} \right)}{L_L s + R_L + \frac{1}{C_{Ls}}} \right)$$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_5 s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L L_5 s^4 + C_3 C_5 C_L R_3 R_5 g_m s^4 + C_3 C_5 C_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 s^4 + C_3 C_5 C_L R_5 g_m s^4 + C_3 C_5 C_L R_5 s^4 + C_3 C_5 C_L R_L g_m s^4 + C_3 C_5 C_L s^4 + C_3 C_5 R_3 R_5 g_m s^4 + C_3 C_5 R_3 R_5 s^4 + C_3 C_5 R_3 R_L g_m s^4 + C_3 C_5 R_3 s^4 + C_3 C_5 R_5 g_m s^4 + C_3 C_5 R_5 s^4 + C_3 C_5 R_L g_m s^4 + C_3 C_5 s^4 + C_3 R_3 R_5 g_m s^4 + C_3 R_3 R_5 s^4 + C_3 R_3 R_L g_m s^4 + C_3 R_3 s^4 + C_3 R_5 g_m s^4 + C_3 R_5 s^4 + C_3 R_L g_m s^4 + C_3 s^4 + C_5 R_3 R_5 g_m s^4 + C_5 R_3 R_5 s^4 + C_5 R_3 R_L g_m s^4 + C_5 R_3 s^4 + C_5 R_5 g_m s^4 + C_5 R_5 s^4 + C_5 R_L g_m s^4 + C_5 s^4 + R_3 R_5 g_m s^4 + R_3 R_5 s^4 + R_3 R_L g_m s^4 + R_3 s^4 + R_5 g_m s^4 + R_5 s^4 + R_L g_m s^4 + s^4}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_5 s^4 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 g_m s^4 + C_3 C_5 C_L L_5 R_5 s^4 + C_3 C_5 C_L L_5 R_L g_m s^4 + C_3 C_5 C_L L_5 s^4 + C_3 C_5 C_L R_3 R_5 g_m s^4 + C_3 C_5 C_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 s^4 + C_3 C_5 C_L R_5 g_m s^4 + C_3 C_5 C_L R_5 s^4 + C_3 C_5 C_L R_L g_m s^4 + C_3 C_5 C_L s^4 + C_3 C_5 R_3 R_5 g_m s^4 + C_3 C_5 R_3 R_5 s^4 + C_3 C_5 R_3 R_L g_m s^4 + C_3 C_5 R_3 s^4 + C_3 C_5 R_5 g_m s^4 + C_3 C_5 R_5 s^4 + C_3 C_5 R_L g_m s^4 + C_3 C_5 s^4 + C_3 R_3 R_5 g_m s^4 + C_3 R_3 R_5 s^4 + C_3 R_3 R_L g_m s^4 + C_3 R_3 s^4 + C_3 R_5 g_m s^4 + C_3 R_5 s^4 + C_3 R_L g_m s^4 + C_3 s^4 + C_5 R_3 R_5 g_m s^4 + C_5 R_3 R_5 s^4 + C_5 R_3 R_L g_m s^4 + C_5 R_3 s^4 + C_5 R_5 g_m s^4 + C_5 R_5 s^4 + C_5 R_L g_m s^4 + C_5 s^4 + R_3 R_5 g_m s^4 + R_3 R_5 s^4 + R_3 R_L g_m s^4 + R_3 s^4 + R_5 g_m s^4 + R_5 s^4 + R_L g_m s^4 + s^4}.$$

$$\textbf{10.342} \quad \textbf{INVALID-ORDER-342} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$$

$$H(s) = -\frac{R_L (C_3 R_3 s + 1) (-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 R_5 s + 1)}{C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + 2 C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_5 R_L s^2 + C_3 R_3 R_5 g_m s + 2 C_3 R_3 s + 2 C_3 R_5 s + 2 C_3 R_L s + 2 C_5 R_5 s + 2 C_5 R_L s + 2}$$

10.343 INVALID-ORDER-343 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3 R_3 s + 1)(-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_5 I_5)}{C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L R_3 R_5 s^3 + 2 C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + 2 C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + C_3 C_L R_3 R_5 g_m s^2 + C_3 C_L R_3 s^2 + C_3 C_L R_5 g_m s^2 + C_3 C_L R_5 s^2 + C_3 C_L I_5 s^2 + C_3 C_L I_5 s + C_3 C_L I_5}$$

10.344 INVALID-ORDER-344 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 +$$

10.345 **INVALID-ORDER-345** $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_{3s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_{5s}} \right)}{L_5 s + R_5 + \frac{1}{C_{5s}}}, R_L + \frac{1}{C_{Ls}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + 2 C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_5 s^3 + C_3 C_5 C_L R_5 R_L g_m s^3 + C_3 C_5 C_L R_5 s^3 + C_3 C_5 C_L R_L g_m s^3 + C_3 C_5 C_L R_L s^3}{C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + 2 C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_5 s^3 + C_3 C_5 C_L R_5 R_L g_m s^3 + C_3 C_5 C_L R_5 s^3 + C_3 C_5 C_L R_L g_m s^3 + C_3 C_5 C_L R_L s^3}$$

10.346 INVALID-ORDER-346 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_5 L_L R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + 2C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L R_3$$

10.347 INVALID-ORDER-347 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_L R_3 R_5 s^4 + 2 C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 s^3}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_L R_3 R_5 s^4 + 2 C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 s^3}.$$

10.348 INVALID-ORDER-348 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_LR_5g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + 2C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_5R_Lg_ms^4 + C_3C_5$$

10.349 INVALID-ORDER-349 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 L_5 L_L R_3 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_5 R_L g_m s^4}{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 L_5 L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 L_5 L_L R_3 R_L g_m s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_5 L_5 L_L R_5 R_L g_m s^4}$$

10.350 INVALID-ORDER-350 $Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3s}, \infty, \frac{R_5 \left(L_5s + \frac{1}{C_5s} \right)}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + 2 C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + 2 C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L}$$

$$\textbf{10.351} \quad \textbf{INVALID-ORDER-351} \quad Z(s) = \left(\infty, \infty, R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_5 R_L s^4 + C_3 C_5 C_L L_5 R_3 R_5 s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 R_L s^4 + C_3 C_5 C_L L_5 R_5 s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L L_5 s^4 + C_3 C_5 C_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 s^4 + C_3 C_5 C_L R_5 R_L g_m s^4 + C_3 C_5 C_L R_5 R_L s^4 + C_3 C_5 C_L R_5 s^4 + C_3 C_5 C_L R_L s^4 + C_3 C_5 C_L s^4 + C_3 C_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 R_3 R_5 s^4 + C_3 C_5 R_3 R_5 s^4 + C_3 C_5 R_3 s^4 + C_3 C_5 R_5 R_L g_m s^4 + C_3 C_5 R_5 R_L s^4 + C_3 C_5 R_5 s^4 + C_3 C_5 R_L s^4 + C_3 C_5 s^4 + C_3 R_3 R_5 g_m s^4 + 2 C_3 R_3 R_5 s^4 + C_3 R_3 R_5 s^4 + C_3 R_3 s^4 + C_3 R_5 R_L g_m s^4 + C_3 R_5 R_L s^4 + C_3 R_5 s^4 + C_3 R_L s^4 + C_3 s^4}{C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_5 s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 R_L s^4 + C_3 C_5 C_L L_5 R_5 s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L L_5 s^4 + C_3 C_5 C_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 R_5 s^4 + C_3 C_5 C_L R_3 s^4 + C_3 C_5 C_L R_5 R_L g_m s^4 + C_3 C_5 C_L R_5 R_L s^4 + C_3 C_5 C_L R_5 s^4 + C_3 C_5 C_L R_L s^4 + C_3 C_5 C_L s^4 + C_3 C_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 R_3 R_5 s^4 + C_3 C_5 R_3 R_5 s^4 + C_3 C_5 R_3 s^4 + C_3 C_5 R_5 R_L g_m s^4 + C_3 C_5 R_5 R_L s^4 + C_3 C_5 R_5 s^4 + C_3 C_5 R_L s^4 + C_3 C_5 s^4 + C_3 R_3 R_5 g_m s^4 + 2 C_3 R_3 R_5 s^4 + C_3 R_3 R_5 s^4 + C_3 R_3 s^4 + C_3 R_5 R_L g_m s^4 + C_3 R_5 R_L s^4 + C_3 R_5 s^4 + C_3 R_L s^4 + C_3 s^4}.$$

10.352 INVALID-ORDER-352 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1)(C_3 L_3 s^2 + 1)}{C_3 C_L L_3 R_5 g_m s^3 + C_3 C_L L_3 s^3 + 2C_3 L_3 g_m s^2 + C_3 R_5 g_m s + C_3 s + C_L R_5 g_m s + C_L s + 2g_m}$$

10.353 INVALID-ORDER-353 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_3 L_3 s^2 + 1)}{C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_L g_m s^2 + C_3 L_3 s^2 + C_3 R_5 R_L g_m s + C_3 R_L s + C_L R_5 R_L g_m s + C_L R_L s + R_5 g_m + 2 R_L g_m + 1}$$

10.354 INVALID-ORDER-354 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(R_5g_m - 1)(C_3L_3s^2 + 1)(C_LR_Ls + 1)}{C_3C_LL_3R_5g_ms^3 + 2C_3C_LL_3R_Lg_ms^3 + C_3C_LL_3s^3 + C_3C_LR_5R_Lg_ms^2 + C_3C_LR_Ls^2 + 2C_3L_3g_ms^2 + C_3R_5g_ms + C_3s + C_LR_5g_ms + 2C_LR_Lg_ms + C_Ls + 2g_m}$$

10.355 INVALID-ORDER-355 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(R_5g_m - 1)(C_3L_3s^2 + 1)(C_LL_Ls^2 + 1)}{2C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3R_5g_ms^3 + C_3C_LL_3s^3 + C_3C_LL_R_5g_ms^3 + C_3C_LL_Ls^3 + 2C_3L_3g_ms^2 + C_3R_5g_ms + C_3s + 2C_LL_Lg_ms^2 + C_LR_5g_ms + C_Ls + 2g_m}$$

10.356 INVALID-ORDER-356 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_Ls(R_5g_m - 1)(C_3L_3s^2 + 1)}{C_3C_LL_3L_LR_5g_ms^4 + C_3C_LL_3L_Ls^4 + 2C_3L_3L_Lg_ms^3 + C_3L_3R_5g_ms^2 + C_3L_3s^2 + C_3L_LR_5g_ms^2 + C_3L_Ls^2 + C_LL_LR_5g_ms^2 + C_LL_Ls^2 + 2L_Lg_ms + R_5g_m + 1}$$

10.357 INVALID-ORDER-357 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(R_5g_m - 1)(C_3L_3s^2 + 1)(C_LL_Ls^2 + C_LR_Ls + 1)}{2C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3R_5g_ms^3 + 2C_3C_LL_3R_Lg_ms^3 + C_3C_LL_3s^3 + C_3C_LL_R_5g_ms^3 + C_3C_LL_Ls^3 + C_3C_LR_5R_Lg_ms^2 + C_3C_LR_Ls^2 + 2C_3L_3g_ms^2 + C_3R_5g_ms + C_3s}$$

10.358 INVALID-ORDER-358 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_Ls(R_5g_m - 1)(C_3L_3s^2 + 1)}{C_3C_LL_3L_LR_5R_Lg_ms^4 + C_3C_LL_3L_LR_Ls^4 + C_3L_3L_LR_5g_ms^3 + 2C_3L_3L_LR_Lg_ms^3 + C_3L_3L_Ls^3 + C_3L_3R_5R_Lg_ms^2 + C_3L_3R_Ls^2 + C_3L_LR_5R_Lg_ms^2 + C_3L_LR_Ls^2 + C_LL_LR_Ls^2 + C_LL_LR_Ls^2}$$

10.359 INVALID-ORDER-359 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{(R_5g_m - 1)(C_3L_3s^2 + 1)(C_LL_LR_Ls^2 + L_Ls + R_L)}{C_3C_LL_3L_LR_5g_ms^4 + 2C_3C_LL_3L_LR_Lg_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_LR_5R_Lg_ms^3 + C_3C_LL_LR_Ls^3 + 2C_3L_3L_Lg_ms^3 + C_3L_3R_5g_ms^2 + 2C_3L_3R_Lg_ms^2 + C_3L_3s^2 + C_3L_LR_5}$$

10.360 INVALID-ORDER-360 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{R_L(R_5g_m - 1)(C_3L_3s^2 + 1)(C_LL_Ls^2 + 1)}{C_3C_LL_3L_LR_5g_ms^4 + 2C_3C_LL_3L_LR_Lg_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_3R_5R_Lg_ms^3 + C_3C_LL_3R_Ls^3 + C_3C_LL_LR_5R_Lg_ms^3 + C_3C_LL_LR_Ls^3 + C_3L_3R_5g_ms^2 + 2C_3L_3R_Lg_ms^2}$$

10.361 INVALID-ORDER-361 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, R_L \right)$

$$H(s) = -\frac{R_L(C_5s - g_m)(C_3L_3s^2 + 1)}{2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + C_3C_5R_Ls^2 + C_3L_3g_ms^2 + C_3R_Lg_ms + 2C_5R_Lg_ms + C_5s + g_m}$$

10.362 INVALID-ORDER-362 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_3L_3s^2 + 1)}{s(C_3C_5C_LL_3s^3 + 2C_3C_5L_3g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3g_m + C_5C_Ls + 2C_5g_m + C_Lg_m)}$$

10.363 INVALID-ORDER-363 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = -\frac{R_L(C_5s - g_m)(C_3L_3s^2 + 1)}{C_3C_5C_LL_3R_Ls^4 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + C_3C_5R_Ls^2 + C_3C_LL_3R_Lg_ms^3 + C_3L_3g_ms^2 + C_3R_Lg_ms + C_5C_LR_Ls^2 + 2C_5R_Lg_ms + C_5s + C_LR_Lg_ms + g_m}$$

10.364 INVALID-ORDER-364 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_3L_3s^2 + 1)(C_LR_Ls + 1)}{s(2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LR_Ls^2 + 2C_3C_5L_3g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LR_Lg_ms + C_3g_m + 2C_5C_LR_Lg_ms + C_5C_Ls + 2C_5g_m + C_Lg_m)}$$

10.365 INVALID-ORDER-365 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_3L_3s^2 + 1)(C_LL_Ls^2 + 1)}{s(2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_Ls^3 + 2C_3C_5L_3g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LL_Lg_ms^2 + C_3g_m + 2C_5C_LL_Lg_ms^2 + C_5C_Ls + 2C_5g_m + C_Lg_m)}$$

10.366 INVALID-ORDER-366 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = -\frac{L_Ls(C_5s - g_m)(C_3L_3s^2 + 1)}{C_3C_5C_LL_3L_Ls^5 + 2C_3C_5L_3L_Lg_ms^4 + C_3C_5L_3s^3 + C_3C_5L_Ls^3 + C_3C_LL_3L_Lg_ms^4 + C_3L_3g_ms^2 + C_3L_Lg_ms^2 + C_5C_LL_Ls^3 + 2C_5L_Lg_ms^2 + C_5s + C_LL_Lg_ms^2 + g_m}$$

10.367 INVALID-ORDER-367 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_3L_3s^2 + 1)(C_LL_Ls^2 + C_LR_Ls + 1)}{s(2C_3C_5C_LL_3L_Lg_ms^4 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_Ls^3 + C_3C_5C_LR_Ls^2 + 2C_3C_5L_3g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LL_Lg_ms^2 + C_3C_LR_Lg_ms^2 + C_5C_LL_Lg_ms^2 + C_5C_LR_Lg_ms^2 + C_5s + C_LR_Lg_ms^2 + g_m)}$$

10.368 INVALID-ORDER-368 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = -\frac{L_LR_Ls(C_5s - g_m)(C_3L_3s^2 + 1)}{C_3C_5C_LL_3L_LR_Ls^5 + 2C_3C_5L_3L_LR_Lg_ms^4 + C_3C_5L_3L_Ls^4 + C_3C_5L_3R_Ls^3 + C_3C_5L_LR_Ls^3 + C_3C_LL_3L_LR_Lg_ms^4 + C_3L_3L_Lg_ms^3 + C_3L_3R_Lg_ms^2 + C_3L_LR_Lg_ms^2 + C_5C_LL_Lg_ms^2 + C_5C_LR_Lg_ms^2 + C_5s + C_LR_Lg_ms^2 + g_m}$$

10.369 INVALID-ORDER-369 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_3L_3s^2 + 1)(C_LL_LR_Ls^2 + 1)}{2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_LR_Ls^4 + 2C_3C_5L_3L_Lg_ms^4 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + C_3C_5L_Ls^3 + C_3C_5R_Ls^2 + C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3L_LR_Lg_ms^3 + 1}$$

10.370 INVALID-ORDER-370 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = -\frac{R_L(C_5s - g_m)(C_3L_3s^2 + 1)(C_LL_LR_Ls^2 + 1)}{2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_Ls^4 + C_3C_5C_LL_LR_Ls^4 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + C_3C_5R_Ls^2 + C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3L_LR_Lg_ms^3 + 1}$$

10.371 INVALID-ORDER-371 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, R_L \right)$

$$H(s) = -\frac{R_L(C_3L_3s^2 + 1)(C_5R_5s - R_5g_m + 1)}{2C_3C_5L_3R_5R_Lg_ms^3 + C_3C_5L_3R_5s^3 + C_3C_5R_5R_Ls^2 + C_3L_3R_5g_ms^2 + 2C_3L_3R_Lg_ms^2 + C_3L_3s^2 + C_3R_5R_Lg_ms + C_3R_Ls + 2C_5R_5R_Lg_ms + C_5R_5s + R_5g_m + 2R_Lg_m + 1}$$

10.372 INVALID-ORDER-372 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{(C_3L_3s^2 + 1)(C_5R_5s - R_5g_m + 1)}{C_3C_5C_LL_3R_5s^4 + 2C_3C_5L_3R_5g_ms^3 + C_3C_5R_5s^2 + C_3C_LL_3R_5g_ms^3 + C_3C_LL_3s^3 + 2C_3L_3g_ms^2 + C_3R_5g_ms + C_3s + C_5C_LL_3R_5s^2 + 2C_5R_5g_ms + C_LL_3R_5g_ms + C_Ls + 2g_m}$$

10.373 INVALID-ORDER-373 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = -\frac{R_L(C_3L_3s^2 + 1)(C_5R_5s - R_5g_m + 1)}{C_3C_5C_LL_3R_5R_Ls^4 + 2C_3C_5L_3R_5R_Lg_ms^3 + C_3C_5L_3R_5s^3 + C_3C_5R_5R_Ls^2 + C_3C_LL_3R_5R_Lg_ms^3 + C_3C_LL_3R_Ls^3 + C_3L_3R_5g_ms^2 + 2C_3L_3R_Lg_ms^2 + C_3L_3s^2 + C_3R_5R_Lg_ms + 1}$$

$$10.374 \quad \text{INVALID-ORDER-374} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{(C_3L_3s^2+1)(C_LR_Ls+1)(C_5R_5s-R_5g_m)}{2C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_5s^4 + C_3C_5C_LR_5R_Ls^3 + 2C_3C_5L_3R_5g_ms^3 + C_3C_5R_5s^2 + C_3C_LL_3R_5g_ms^3 + 2C_3C_LL_3R_Lg_ms^3 + C_3C_LL_3s^3 + C_3C_LR_5R_Lg_ms^2 +}$$

$$10.375 \quad \text{INVALID-ORDER-375} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{(C_3L_3s^2+1)(C_LL_Ls^2+1)(C_5R_5s-R_5g_m)}{2C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3R_5s^4 + C_3C_5C_LL_LR_5s^4 + 2C_3C_5L_3R_5g_ms^3 + C_3C_5R_5s^2 + 2C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3R_5g_ms^3 + C_3C_LL_3s^3 + C_3C_LL_LR_5g_ms^3 +}$$

$$10.376 \quad \text{INVALID-ORDER-376} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$$

$$H(s) = -\frac{L_Ls(C_3L_3s^2+1)(C_5R_5s-R_5g_m+1)}{C_3C_5C_LL_3L_LR_5s^5 + 2C_3C_5L_3L_LR_5g_ms^4 + C_3C_5L_3R_5s^3 + C_3C_5L_LR_5s^3 + C_3C_LL_3L_LR_5g_ms^4 + C_3C_LL_3L_Ls^4 + 2C_3L_3L_Lg_ms^3 + C_3L_3R_5g_ms^2 + C_3L_3s^2 + C_3L_LR_5g_ms^3 +}$$

$$10.377 \quad \text{INVALID-ORDER-377} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{L_Ls(C_3L_3s^2+1)(C_5R_5s-R_5g_m+1)}{2C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_5s^4 + C_3C_5C_LL_LR_5s^4 + C_3C_5C_LR_5R_Ls^3 + 2C_3C_5L_3R_5g_ms^3 + C_3C_5R_5s^2 + 2C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3L_Ls^4 +}$$

$$10.378 \quad \text{INVALID-ORDER-378} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$$

$$H(s) = -\frac{L_Ls(C_3L_3s^2+1)(C_5R_5s-R_5g_m+1)}{C_3C_5C_LL_3L_LR_5R_Ls^5 + 2C_3C_5L_3L_LR_5R_Lg_ms^4 + C_3C_5L_3L_LR_5s^4 + C_3C_5L_3R_5R_Ls^3 + C_3C_5L_LR_5R_Ls^3 + C_3C_LL_3L_LR_5R_Lg_ms^4 + C_3C_LL_3L_LR_Ls^4 + C_3L_3L_LR_5g_ms^3 +}$$

10.379 INVALID-ORDER-379 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_{3s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + C_3C_5C_LL_LR_5R_Ls^4 + 2C_3C_5L_3L_LR_5g_ms^4 + 2C_3C_5L_3R_5R_Lg_ms^3 + C_3C_5L_3R_5s^3 + C_3C_5L_LR_5s^3 + C_3C_5R_5R_Ls^2 + C_3C_5R_5s^2 + C_3C_5s^2}{2C_3C_5C_LL_3L_LR_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + C_3C_5C_LL_LR_5R_Ls^4 + 2C_3C_5L_3L_LR_5g_ms^4 + 2C_3C_5L_3R_5R_Lg_ms^3 + C_3C_5L_3R_5s^3 + C_3C_5L_LR_5s^3 + C_3C_5R_5R_Ls^2 + C_3C_5R_5s^2 + C_3C_5s^2}.$$

10.380 INVALID-ORDER-380 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + C_3C_5C_LL_3R_5R_Ls^4 + C_3C_5C_LL_LR_5R_Ls^4 + 2C_3C_5L_3R_5R_Lg_ms^3 + C_3C_5L_3R_5s^3 + C_3C_5R_5R_Ls^2 + C_3C_LL_3L_LR_5g_ms^4}{\dots}$$

10.381 INVALID-ORDER-381 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, R_L \right)$

$$H(s) = \frac{R_L (C_3 L_3 s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_L g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 L_3 g_m s^2 + C_3 R_L g_m s + C_5 R_5 g_m s + 2 C_5 R_L g_m s + C_5 s + g_m}$$

10.382 INVALID-ORDER-382 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 s^2 + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(C_3 C_5 C_L L_3 R_5 g_m s^3 + C_3 C_5 C_L L_3 s^3 + 2C_3 C_5 L_3 g_m s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_3 g_m s^2 + C_3 g_m + C_5 C_L R_5 g_m s + C_5 C_L s + 2C_5 g_m + C_L g_m)}$$

10.383 INVALID-ORDER-383 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (C_3 L_3 s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_L g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 C_L L_3 R_L g_m s^3 + C_3 L_3 g_m s^2 + C_3 R_L g_m s}$$

10.384 INVALID-ORDER-384 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 s^2 + 1)(C_L R_L s + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(C_3 C_5 C_L L_3 R_5 g_m s^3 + 2C_3 C_5 C_L L_3 R_L g_m s^3 + C_3 C_5 C_L L_3 s^3 + C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + 2C_3 C_5 L_3 g_m s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_3 g_m s^2 + C_3 C_L R_L g_m s + C_3 C_L s + g_m)}$$

10.385 INVALID-ORDER-385 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 s^2 + 1)(C_L L_L s^2 + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(2C_3 C_5 C_L L_3 L_L g_m s^4 + C_3 C_5 C_L L_3 R_5 g_m s^3 + C_3 C_5 C_L L_3 s^3 + C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + 2C_3 C_5 L_3 g_m s^2 + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_3 g_m s^2 + C_3 C_L L_L g_m s)}$$

10.386 INVALID-ORDER-386 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (C_3 L_3 s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + 2 C_3 C_5 L_3 L_L g_m s^4 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 L_3 g_m s^2 + C_3 L_L g_m s^2}$$

10.387 INVALID-ORDER-387 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 s^2 + 1)(C_L L_L s^2 + C_L R_L s}{s(2C_3 C_5 C_L L_3 L_L g_m s^4 + C_3 C_5 C_L L_3 R_5 g_m s^3 + 2C_3 C_5 C_L L_3 R_L g_m s^3 + C_3 C_5 C_L L_3 s^3 + C_3 C_5 C_L L_L R_5 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_5 R_L g_m s^2 + C_3 C_5 C_L R_L s^2 + 2C_3 C_5 L$$

10.388 INVALID-ORDER-388 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 L_L R_5 g_m s^4 + 2 C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 L_L R_5 R_L g_m s^3 +$$

$$10.389 \quad \text{INVALID-ORDER-389} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_5R_Lg_ms^4 + C_3C_5C_LL_R_Ls^4 + 2C_3C_5L_3L_Lg_ms^4 + C_3C_5L_3R_5g_ms^3 + 2C_3C_5L_3R_Lg_ms^3}{C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_5R_Lg_ms^4 + C_3C_5C_LL_R_Ls^4 + 2C_3C_5L_3L_Lg_ms^4 + C_3C_5L_3R_5g_ms^3 + 2C_3C_5L_3R_Lg_ms^3}$$

$$10.390 \quad \text{INVALID-ORDER-390} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_Ls^4 + C_3C_5C_LL_R_5R_Lg_ms^4 + C_3C_5C_LL_R_Ls^4 + C_3C_5L_3R_5g_ms^3 + 2C_3C_5L_3R_Lg_ms^3}{C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_Ls^4 + C_3C_5C_LL_R_5R_Lg_ms^4 + C_3C_5C_LL_R_Ls^4 + C_3C_5L_3R_5g_ms^3 + 2C_3C_5L_3R_Lg_ms^3}$$

$$10.391 \quad \text{INVALID-ORDER-391} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L \right)$$

$$H(s) = \frac{R_L(C_3L_3s^2 + 1)(C_5L_5g_ms^2 - C_5s + g_m)}{C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + C_3C_5L_5R_Lg_ms^3 + C_3C_5R_Ls^2 + C_3L_3g_ms^2 + C_3R_Lg_ms + C_5L_5g_ms^2 + 2C_5R_Lg_ms + C_5s + g_m}$$

$$10.392 \quad \text{INVALID-ORDER-392} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{(C_3L_3s^2 + 1)(C_5L_5g_ms^2 - C_5s + g_m)}{s(C_3C_5C_LL_3L_5g_ms^4 + C_3C_5C_LL_3s^3 + 2C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3g_m + C_5C_LL_5g_ms^2 + C_5C_Ls + 2C_5g_m + C_Lg_m)}$$

$$10.393 \quad \text{INVALID-ORDER-393} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$$

$$H(s) = \frac{R_L(C_3L_3s^2 + 1)(C_5L_5g_ms^2 - C_5s + g_m)}{C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3R_Ls^4 + C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + C_3C_5L_5R_Lg_ms^3 + C_3C_5R_Ls^2 + C_3C_LL_3R_Lg_ms^3 + C_3L_3g_ms^2 + C_3R_Lg_ms}$$

10.394 INVALID-ORDER-394 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(C_3L_3s^2 + 1)(C_LR_Ls + 1)(C_5L_5g_ms^2 - C_5s + g_m)}{s(C_3C_5C_LL_3L_5g_ms^4 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5R_Lg_ms^3 + C_3C_5C_LR_Ls^2 + 2C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LR_Lg_ms^2)}$$

10.395 INVALID-ORDER-395 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(C_3L_3s^2 + 1)(C_LL_Ls^2 + 1)(C_5L_5g_ms^2 - C_5s + g_m)}{s(C_3C_5C_LL_3L_5g_ms^4 + 2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5L_Lg_ms^4 + C_3C_5C_LL_Ls^3 + 2C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LL_Lg_ms^2)}$$

10.396 INVALID-ORDER-396 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_Ls(C_3L_3s^2 + 1)(C_5L_5g_ms^2 - C_5s + g_m)}{C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_Ls^5 + C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3L_Lg_ms^4 + C_3C_5L_3s^3 + C_3C_5L_5L_Lg_ms^4 + C_3C_5L_Ls^3 + C_3C_LL_3L_Lg_ms^4 + C_3L_3g_ms^2 + C_3L_Lg_ms^2}$$

10.397 INVALID-ORDER-397 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(C_3L_3s^2 + 1)(C_LL_Ls^2 + C_LR_Ls)}{s(C_3C_5C_LL_3L_5g_ms^4 + 2C_3C_5C_LL_3L_Lg_ms^4 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5L_Lg_ms^4 + C_3C_5C_LL_5R_Lg_ms^3 + C_3C_5C_LL_Ls^3 + C_3C_5C_LR_Ls^2 + 2C_3C_5L_3g_ms^2 + 2C_3C_5L_5g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LR_Lg_ms^2)}$$

10.398 INVALID-ORDER-398 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{1}{C_3C_5C_LL_3L_5L_LR_Lg_ms^6 + C_3C_5C_LL_3L_LR_Ls^5 + C_3C_5L_3L_5L_Lg_ms^5 + C_3C_5L_3L_5R_Lg_ms^4 + 2C_3C_5L_3L_LR_Lg_ms^4 + C_3C_5L_3L_Ls^4 + C_3C_5L_3R_Ls^3 + C_3C_5L_5L_LR_Lg_ms^4 + C_3C_5L_5L_Ls^3 + C_3C_5L_5R_Ls^2 + 2C_3C_5L_3g_ms^2 + 2C_3C_5L_5g_ms^2 + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LR_Lg_ms^2}$$

$$10.399 \quad \text{INVALID-ORDER-399} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5L_Lg_ms^6 + 2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_5L_LR_Lg_ms^5 + C_3C_5C_LL_LR_Ls^4 + C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3L_Lg_ms^4 + 2C_3C_5L_3R_Lg_ms^3}{C_3C_5C_LL_3L_5L_Lg_ms^6 + 2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_5L_LR_Lg_ms^5 + C_3C_5C_LL_LR_Ls^4 + C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3L_Lg_ms^4 + 2C_3C_5L_3R_Lg_ms^3}$$

$$10.400 \quad \text{INVALID-ORDER-400} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_Lg_ms^5 + 2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_Ls^4 + C_3C_5C_LL_5L_LR_Lg_ms^5 + C_3C_5C_LL_LR_Ls^4 + C_3C_5L_3L_5g_ms^4}{C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_Lg_ms^5 + 2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_Ls^4 + C_3C_5C_LL_5L_LR_Lg_ms^5 + C_3C_5C_LL_LR_Ls^4 + C_3C_5L_3L_5g_ms^4}$$

$$10.401 \quad \text{INVALID-ORDER-401} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, R_L \right)$$

$$H(s) = -\frac{R_L(C_3L_3s^2+1)(C_5L_5s^2-L_5g_ms+1)}{2C_3C_5L_3L_5R_Lg_ms^4 + C_3C_5L_3L_5s^4 + C_3C_5L_5R_Ls^3 + C_3L_3L_5g_ms^3 + 2C_3L_3R_Lg_ms^2 + C_3L_3s^2 + C_3L_5R_Lg_ms^2 + C_3R_Ls + 2C_5L_5R_Lg_ms^2 + C_5L_5s^2 + L_5g_ms + 2R_Lg_ms}$$

$$10.402 \quad \text{INVALID-ORDER-402} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{(C_3L_3s^2+1)(C_5L_5s^2-L_5g_ms+1)}{C_3C_5C_LL_3L_5s^5 + 2C_3C_5L_3L_5g_ms^4 + C_3C_5L_5s^3 + C_3C_LL_3L_5g_ms^4 + C_3C_LL_3s^3 + 2C_3L_3g_ms^2 + C_3L_5g_ms^2 + C_3s + C_5C_LL_5s^3 + 2C_5L_5g_ms^2 + C_LL_5g_ms^2 + C_Ls + 2g_ms}$$

$$10.403 \quad \text{INVALID-ORDER-403} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{R_L}{C_LR_Ls+1} \right)$$

$$H(s) = -\frac{R_L(C_3L_3s^2+1)(C_5L_5s^2-L_5g_ms+1)}{C_3C_5C_LL_3L_5R_Ls^5 + 2C_3C_5L_3L_5R_Lg_ms^4 + C_3C_5L_3L_5s^4 + C_3C_5L_5R_Ls^3 + C_3C_LL_3L_5R_Lg_ms^4 + C_3C_LL_3R_Ls^3 + C_3L_3L_5g_ms^3 + 2C_3L_3R_Lg_ms^2 + C_3L_3s^2 + C_3L_5R_Lg_ms^2}$$

10.404 INVALID-ORDER-404 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3 L_3 s^2 + 1)(C_L R_L s + 1)(C_5 L_5 s^2 - L_5 g_5 + C_5 g_5)}{2C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + C_3 C_5 C_L L_5 R_L s^4 + 2C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_5 s^3 + C_3 C_L L_3 L_5 g_m s^4 + 2C_3 C_L L_3 R_L g_m s^3 + C_3 C_L L_3 s^3 + C_3 C_L L_5 R_L g_m s^3 + C_3 C_L L_5 s^3 + C_3 C_L s^3 + C_3 s^3}$$

10.405 INVALID-ORDER-405 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3L_3s^2 + 1)(C_LL_Ls^2 + 1)(C_5L_5s^2 - L_5g)}{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5L_Ls^5 + 2C_3C_5L_3L_5g_ms^4 + C_3C_5L_5s^3 + C_3C_LL_3L_5g_ms^4 + 2C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3s^3 + C_3C_LL_5L_Lg_ms^4 + C}$$

10.406 INVALID-ORDER-406 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{L_L s (C_3 L_3 s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_3 L_5 L_L s^6 + 2 C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_L s^4 + C_3 L_3 L_5 g_m s^3 + 2 C_3 L_3 L_L g_m s^3 + C_3 L_3 s^2 + C_3 L_5 L_L g_m s}$$

10.407 INVALID-ORDER-407 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_Lg_ms^6 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_Ls^4 + 2C_3C_5L_3L_5g_ms^4 + C_3C_5L_5s^3 + C_3C_LL_3L_5g_ms^4 + 2C_3C_LL_3L_5s^3 + C_3C_LL_3L_5s^2 + C_3C_LL_3L_5s + C_3C_LL_3L_5}{2C_3C_5C_LL_3L_5L_Lg_ms^6 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_Ls^4 + 2C_3C_5L_3L_5g_ms^4 + C_3C_5L_5s^3 + C_3C_LL_3L_5g_ms^4 + 2C_3C_LL_3L_5s^3 + C_3C_LL_3L_5s^2 + C_3C_LL_3L_5s + C_3C_LL_3L_5}.$$

10.408 INVALID-ORDER-408 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + 2 C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_5 L_L R_L s^4 + C_3 C_L L_3 L_5 L_L R_L g_m s^5 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 L_5 L_L g_m s^4 +$$

$$10.409 \quad \text{INVALID-ORDER-409} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_Lg_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_5L_LR_Ls^5 + 2C_3C_5L_3L_5L_Lg_ms^5 + 2C_3C_5L_3L_5R_Lg_ms^4 + C_3C_5L_3L_5s^4 + C_3C_5L_5L_Ls^4 + C_3C_5L_5R_Ls^3 + C_3C_5L_5L_Lg_ms^3 + C_3C_5L_5L_Ls^3 + C_3C_5L_5R_Lg_ms^2 + C_3C_5L_5L_Ls^2 + C_3C_5L_5R_Ls + C_3C_5L_5 + C_3C_5L_5R_L}{2C_3C_5C_LL_3L_5L_LR_Lg_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_5L_LR_Ls^5 + 2C_3C_5L_3L_5L_Lg_ms^5 + 2C_3C_5L_3L_5R_Lg_ms^4 + C_3C_5L_3L_5s^4 + C_3C_5L_5L_Ls^4 + C_3C_5L_5R_Ls^3 + C_3C_5L_5L_Lg_ms^3 + C_3C_5L_5L_Ls^3 + C_3C_5L_5R_Lg_ms^2 + C_3C_5L_5L_Ls^2 + C_3C_5L_5R_Ls + C_3C_5L_5 + C_3C_5L_5R_L}$$

$$10.410 \quad \text{INVALID-ORDER-410} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_Lg_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_Ls^5 + C_3C_5C_LL_5L_LR_Ls^5 + 2C_3C_5L_3L_5R_Lg_ms^4 + C_3C_5L_3L_5s^4 + C_3C_5L_5R_Ls^3 + C_3C_LL_3L_5L_Lg_ms^5 + C_3C_LL_3L_5L_Ls^5 + C_3C_LL_3L_5R_Lg_ms^4 + C_3C_LL_3L_5s^4 + C_3C_LL_5R_Ls^3 + C_3C_LL_5L_Lg_ms^3 + C_3C_LL_5L_Ls^3 + C_3C_LL_5R_Lg_ms^2 + C_3C_LL_5L_Ls^2 + C_3C_LL_5R_Ls + C_3C_LL_5 + C_3C_LL_5R_L}{2C_3C_5C_LL_3L_5L_LR_Lg_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_Ls^5 + C_3C_5C_LL_5L_LR_Ls^5 + 2C_3C_5L_3L_5R_Lg_ms^4 + C_3C_5L_3L_5s^4 + C_3C_5L_5R_Ls^3 + C_3C_LL_3L_5L_Lg_ms^5 + C_3C_LL_3L_5L_Ls^5 + C_3C_LL_3L_5R_Lg_ms^4 + C_3C_LL_3L_5s^4 + C_3C_LL_5R_Ls^3 + C_3C_LL_5L_Lg_ms^3 + C_3C_LL_5L_Ls^3 + C_3C_LL_5R_Lg_ms^2 + C_3C_LL_5L_Ls^2 + C_3C_LL_5R_Ls + C_3C_LL_5 + C_3C_LL_5R_L}$$

$$10.411 \quad \text{INVALID-ORDER-411} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L \right)$$

$$H(s) = \frac{R_L(C_3L_3s^2 + 1)(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m)}{C_3C_5L_3L_5g_ms^4 + C_3C_5L_3R_5g_ms^3 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + C_3C_5L_5R_Lg_ms^3 + C_3C_5R_5R_Lg_ms^2 + C_3C_5R_Ls^2 + C_3L_3g_ms^2 + C_3R_Lg_ms + C_5L_5g_ms^2 + C_5R_5g_ms + C_5R_Lg_ms + C_5s + g_m}$$

$$10.412 \quad \text{INVALID-ORDER-412} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{(C_3L_3s^2 + 1)(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m)}{s(C_3C_5C_LL_3L_5g_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + C_3C_5C_LL_3s^3 + 2C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5R_5g_ms + C_3C_5s + C_3C_LL_3g_ms^2 + C_3g_ms + C_5C_LL_5g_ms^2 + C_5C_LL_5R_Lg_ms + C_5C_LL_5s + g_m)}$$

$$10.413 \quad \text{INVALID-ORDER-413} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L}{C_LL_Ls+1} \right)$$

$$H(s) = \frac{R_L(C_3L_3s^2 + 1)(C_5L_5g_ms^2 + C_5R_5g_ms - C_5s + g_m)}{C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_Ls^4 + C_3C_5L_3L_5g_ms^4 + C_3C_5L_3R_5g_ms^3 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + C_3C_5L_5R_Lg_ms^3 + C_3C_5R_5R_Lg_ms^2 + C_3C_5R_Ls^2 + C_3L_3g_ms^2 + C_3R_Lg_ms + C_5L_5g_ms^2 + C_5R_5g_ms + C_5R_Lg_ms + C_5s + g_m}$$

$$10.414 \quad \text{INVALID-ORDER-414} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{(C_3L_3s^2 + 1)(C_LR_Ls + 1)(C_5L_5g_ms^2 + C_5L_5g_m)}{s(C_3C_5C_LL_3L_5g_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5R_Lg_ms^3 + C_3C_5C_LL_5R_5g_ms^2 + C_3C_5C_LL_5s^2 + 2C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5L_5s^2)}$$

$$10.415 \quad \text{INVALID-ORDER-415} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{(C_3L_3s^2 + 1)(C_LL_Ls^2 + 1)(C_5L_5g_ms^2 + C_5L_5g_m)}{s(C_3C_5C_LL_3L_5g_ms^4 + 2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5L_Lg_ms^4 + C_3C_5C_LL_5R_5g_ms^3 + C_3C_5C_LL_5s^3 + 2C_3C_5L_3g_ms^2 + C_3C_5L_5g_ms^2 + C_3C_5L_5s^2)}$$

$$10.416 \quad \text{INVALID-ORDER-416} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$$

$$H(s) = \frac{L_Ls(C_3L_3s^2 + 1)(C_5L_5g_ms^2 + C_5L_5g_m)}{C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3L_Lg_ms^4 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3s^3 + C_3C_5L_5L_Lg_ms^4 + C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3}$$

$$10.417 \quad \text{INVALID-ORDER-417} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{L_Ls(C_3L_3s^2 + 1)(C_5L_5g_ms^2 + C_5L_5g_m)}{s(C_3C_5C_LL_3L_5g_ms^4 + 2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5L_Lg_ms^4 + C_3C_5C_LL_5R_Lg_ms^3 + C_3C_5C_LL_5R_5g_ms^2 + C_3C_5C_LL_5s^2)}$$

$$10.418 \quad \text{INVALID-ORDER-418} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$$

$$H(s) = \frac{L_Ls(C_3L_3s^2 + 1)(C_5L_5g_ms^2 + C_5L_5g_m)}{C_3C_5C_LL_3L_5L_LR_Lg_ms^6 + C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3L_LR_Ls^5 + C_3C_5L_3L_5L_Lg_ms^5 + C_3C_5L_3L_5R_Lg_ms^4 + C_3C_5L_3L_LR_5g_ms^4 + 2C_3C_5L_3L_LR_Lg_ms^4 + C_3C_5L_3L_Ls^4 + C_3C_5L_5L_LR_Lg_ms^4 + C_3C_5L_5L_LR_5g_ms^3 + C_3C_5L_5L_LR_Ls^3 + C_3C_5L_5L_Ls^3}$$

10.419 INVALID-ORDER-419 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_{3s}}, \infty, L_5 s + R_5 + \frac{1}{C_{5s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_5 L_L R_L g_m s^5 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 L$$

10.420 INVALID-ORDER-420 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L q_m s^6 + C_3 C_5 C_L L_3 L_5 R_L q_m s^5 + C_3 C_5 C_L L_3 L_L R_5 q_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_L q_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_5 R_L q_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L$$

10.421 INVALID-ORDER-421 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$

$$H(s) = -\frac{R_L (C_3 L_3 s^2 + 1) (C_5 L_5 R_5 s^2 - L_5 R_5 g_m s + L_5 s + R_5)}{2C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 L_3 L_5 R_5 g_m s^3 + 2C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 L_5 s^3 + 2C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_5 s^2 + C_3 L_5 R_5 R_L g_m s^2 + C_3 L_5 R_5 s^2 + R_5 s + R_5}$$

10.422 INVALID-ORDER-422 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_{3s}}, \infty, \frac{1}{C_{5s} + \frac{1}{R_5} + \frac{1}{L_{5s}}}, \frac{1}{C_{Ls}} \right)$

$$H(s) = -\frac{(C_3L_3s^2 + 1)(C_5L_5R_5s^2 - L_5R_5g_ms + L_5s + R_5)}{C_3C_5C_LL_3L_5R_5s^5 + 2C_3C_5L_3L_5R_5g_ms^4 + C_3C_5L_5R_5s^3 + C_3C_LL_3L_5R_5g_ms^4 + C_3C_LL_3L_5s^4 + C_3C_LL_3R_5s^3 + 2C_3L_3L_5g_ms^3 + 2C_3L_3R_5g_ms^2 + C_3L_5R_5g_ms^2 + C_3L_5s}$$

10.423 INVALID-ORDER-423 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 R_L s^5 + 2 C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_L L_3 L_5 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 R_5 R_L s^3 + C_3 L_3 L_5 R_5 g_m s^3 +$$

$$10.424 \quad \text{INVALID-ORDER-424} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_5s^5 + C_3C_5C_LL_5R_5R_Ls^4 + 2C_3C_5L_3L_5R_5g_ms^4 + C_3C_5L_5R_5s^3 + C_3C_LL_3L_5R_5g_ms^4 + 2C_3C_LL_3L_5R_Lg_ms^4 + C_3C_LL_3L_5s^4}{}$$

$$10.425 \quad \text{INVALID-ORDER-425} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5R_5s^5 + C_3C_5C_LL_5L_LR_5s^5 + 2C_3C_5L_3L_5R_5g_ms^4 + C_3C_5L_5R_5s^3 + 2C_3C_LL_3L_5L_Lg_ms^5 + C_3C_LL_3L_5R_5g_ms^4 + C_3C_LL_3L_5s^4}{}$$

$$10.426 \quad \text{INVALID-ORDER-426} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$$

$$H(s) = -\frac{C_3C_5C_LL_3L_5L_LR_5s^6 + 2C_3C_5L_3L_5L_LR_5g_ms^5 + C_3C_5L_3L_5R_5s^4 + C_3C_5L_5L_LR_5s^4 + C_3C_LL_3L_5L_LR_5g_ms^5 + C_3C_LL_3L_5L_Ls^5 + C_3C_LL_3L_LR_5s^4 + 2C_3L_3L_5L_Lg_ms^4}{}$$

$$10.427 \quad \text{INVALID-ORDER-427} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_5g_ms^6 + 2C_3C_5C_LL_3L_5R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_5s^5 + C_3C_5C_LL_5L_LR_5s^5 + C_3C_5C_LL_5R_5R_Ls^4 + 2C_3C_5L_3L_5R_5g_ms^4 + C_3C_5L_5R_5s^3 + 2C_3C_LL_3L_5L_LR_5g_ms^4}{}$$

$$10.428 \quad \text{INVALID-ORDER-428} \quad Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$$

$$H(s) = -\frac{C_3C_5C_LL_3L_5L_LR_5R_Ls^6 + 2C_3C_5L_3L_5L_LR_5R_Lg_ms^5 + C_3C_5L_3L_5L_LR_5s^5 + C_3C_5L_3L_5R_5R_Ls^4 + C_3C_5L_5L_LR_5R_Ls^4 + C_3C_LL_3L_5L_LR_5R_Lg_ms^5 + C_3C_LL_3L_5L_LR_Ls^5}{}$$

10.429 INVALID-ORDER-429 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_5s^6 + C_3C_5C_LL_5L_LR_5R_Ls^5 + 2C_3C_5L_3L_5L_LR_5g_ms^5 + 2C_3C_5L_3L_5R_5R_Lg_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_5L_5L_LR_5s^4 +$$

$$10.430 \quad \text{INVALID-ORDER-430} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_5s^6 + C_3C_5C_LL_3L_5R_5R_Ls^5 + C_3C_5C_LL_5L_LR_5R_Ls^5 + 2C_3C_5L_3L_5R_5R_Lg_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_5L_5R_5R_Ls^3 + C_3C_5L_5R_5s^3 + C_3C_5L_5s^3 + C_3C_5s^3}{2C_3C_5C_LL_3L_5L_LR_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_5s^6 + C_3C_5C_LL_3L_5R_5R_Ls^5 + C_3C_5C_LL_5L_LR_5R_Ls^5 + 2C_3C_5L_3L_5R_5R_Lg_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_5L_5R_5R_Ls^3 + C_3C_5L_5R_5s^3 + C_3C_5L_5s^3 + C_3C_5s^3}.$$

10.431 INVALID-ORDER-431 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$

$$H(s) = \frac{R_L (C_3 L_3 s^2 + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_L g_m s^2 + C_3 L_3 s^2 + C_3 L_5 R_L g_m s^2}$$

10.432 INVALID-ORDER-432 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 s^2 + 1) (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 C_L L_3 L_5 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + 2 C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_3 L_5 g_m s^4 + C_3 C_L L_3 R_5 g_m s^3 + C_3 C_L L_3 s^3 + 2 C_3 L_3 g_m s^2 + C_3 L_5 g_m s^2}$$

10.433 INVALID-ORDER-433 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_3 L_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_5 R_5 R_L g_m s^3 + C_3 C_L L_5 R_5 R_L s^3 + C_3 C_L L_5 s^3 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_5 R_L s^2 + C_3 C_L s^2 + C_3 g_m s + C_3}{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_3 L_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_5 R_5 R_L g_m s^3 + C_3 C_L L_5 R_5 R_L s^3 + C_3 C_L L_5 s^3 + C_3 C_L R_5 R_L g_m s^2 + C_3 C_L R_5 R_L s^2 + C_3 C_L s^2 + C_3 g_m s + C_3}.$$

10.434 INVALID-ORDER-434 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + 2 C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 s^3}{C_3 C_5 C_L L_3 L_5 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + 2 C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_5 R_5 g_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L_5 s^3}$$

10.435 INVALID-ORDER-435 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{2C_3 C_5 C_L L_3 L_5 L_L q_m s^6 + C_3 C_5 C_L L_3 L_5 R_5 q_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + C_3 C_5 C_L L_5 L_L R_5 q_m s^5 + C_3 C_5 C_L L_5 L_L s^5 + 2C_3 C_5 L_3 L_5 q_m s^4 + C_3 C_5 L_5 R_5 q_m s^3 + C_3 C_5 L_5 s^3 + C_3 C_L L$$

10.436 INVALID-ORDER-436 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + 2 C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_5 L_L s^5 + C_3 C_L L_3 L_5 s^5 + C_3 C_L L_3 s^5 + C_3 C_L s^5 + C_3 s^5}{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + 2 C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_5 L_L s^5 + C_3 C_L L_3 L_5 s^5 + C_3 C_L L_3 s^5 + C_3 C_L s^5 + C_3 s^5}$$

10.437 INVALID-ORDER-437 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_{3s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_5C_LL_3L_5L_Lq_ms^6 + C_3C_5C_LL_3L_5R_5q_ms^5 + 2C_3C_5C_LL_3L_5RLq_ms^5 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5L_LR_5q_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_5RLq_ms^4 + C_3C_5C_L$$

10.438 INVALID-ORDER-438 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_{Ls + \frac{1}{R_L} + \frac{1}{L_L s}}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + 2 C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C$$

10.439 **INVALID-ORDER-439** $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_L s^5 + 2 C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 +$$

$$10.440 \quad \text{INVALID-ORDER-440} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 q_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L q_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L q_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L q_m s^5 + C_3 C_5 C_L L_5 L_L R$$

$$10.441 \quad \text{INVALID-ORDER-441} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$$

$$H(s) = -\frac{R_L (C_3 L_3 s^2 + 1) (-C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 R_5 R_L s^2 + C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_5 s^2 + C_3 L_3 s^2 + 1)}{C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 R_5 R_L s^2 + C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_5 s^2 + C_3 L_3 s^2 + 1}$$

10.442 INVALID-ORDER-442 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3L_3s^2 + 1)(-C_5L_5R_5g_ms^2 + C_5L_5s^2 + C_5L_5R_5g_ms)}{C_3C_5C_LL_3L_5R_5g_ms^5 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_3R_5s^4 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_3R_5g_ms^3 + C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3 + C_3C_5R_5s^2 + C_3C_LL_3R_5g_ms^3 + C_3C_LL_3s^2 + C_3C_LL_3R_5g_ms}$$

10.443 INVALID-ORDER-443 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_5 s^3 +$$

10.444 INVALID-ORDER-444 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + 2 C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_5 s^4 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L R_5 R_L g_m s^4 + C_3 C_5 C_L R_5 s^4 + C_3 C_5 C_L s^4 + C_3 C_5 R_5 R_L g_m s^4 + C_3 C_5 R_5 s^4 + C_3 R_5 R_L g_m s^4 + C_3 R_5 s^4 + C_5 R_5 R_L g_m s^4 + C_5 R_5 s^4 + R_5 R_L g_m s^4 + R_5 s^4}{C_3 C_5 C_L L_3 L_5 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + 2 C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_5 s^4 + C_3 C_5 C_L L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L R_5 R_L g_m s^4 + C_3 C_5 C_L R_5 s^4 + C_3 C_5 R_5 R_L g_m s^4 + C_3 C_5 R_5 s^4 + C_3 R_5 R_L g_m s^4 + C_3 R_5 s^4 + C_5 R_5 R_L g_m s^4 + C_5 R_5 s^4 + R_5 R_L g_m s^4 + R_5 s^4}.$$

10.445 INVALID-ORDER-445 $Z(s) = \left(\infty, \infty, L_3s + \frac{1}{C_3s}, \infty, \frac{R_5 \left(L_5s + \frac{1}{C_5s} \right)}{L_5s + R_5 + \frac{1}{C_5s}}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_Lq_ms^6 + C_3C_5C_LL_3L_5R_5q_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_3L_LR_5q_ms^5 + C_3C_5C_LL_3R_5s^4 + C_3C_5C_LL_5L_LR_5q_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_LR_5s^5}{2C_3C_5C_LL_3L_5L_LR_5q_ms^5 + C_3C_5C_LL_3L_5R_5q_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_3L_LR_5q_ms^5 + C_3C_5C_LL_3R_5s^4 + C_3C_5C_LL_5L_LR_5q_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_LR_5s^5}.$$

$$10.446 \quad \text{INVALID-ORDER-446} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_L R_5 s^5 + 2 C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_3 L_L R_5 g_m s^3 + C_3 C_5 L_3 L_L s^3 + C_3 C_5 L_3 L_L R_5 s^2 + C_3 C_5 L_3 L_L s^2 + C_3 C_5 L_3 L_L R_5 s + C_3 C_5 L_3 L_L}{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_L R_5 s^5 + 2 C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_3 L_L R_5 g_m s^3 + C_3 C_5 L_3 L_L s^3 + C_3 C_5 L_3 L_L R_5 s^2 + C_3 C_5 L_3 L_L s^2 + C_3 C_5 L_3 L_L R_5 s + C_3 C_5 L_3 L_L}.$$

10.447 INVALID-ORDER-447 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_5s^4 + C_3C$$

10.448 INVALID-ORDER-448 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + 2C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^5}{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + 2C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^5}$$

$$10.449 \quad \text{INVALID-ORDER-449} \quad Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + 2 C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L$$

10.450 INVALID-ORDER-450 $Z(s) = \left(\infty, \infty, L_3 s + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5}{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5}.$$

10.451 INVALID-ORDER-451 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (R_5 g_m - 1) (C_L R_L s + 1)}{C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_L L_3 R_5 g_m s^2 + 2 C_L L_3 R_L g_m s^2 + C_L L_3 s^2 + C_L R_5 R_L g_m s + C_L R_L s + 2 L_3 g_m s + R_5 g_m + 1}$$

10.452 INVALID-ORDER-452 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (R_5 g_m - 1) (C_L L_L s^2 + 1)}{C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + 2 C_L L_3 L_L g_m s^3 + C_L L_3 R_5 g_m s^2 + C_L L_3 s^2 + C_L L_L R_5 g_m s^2 + C_L L_L s^2 + 2 L_3 g_m s + R_5 g_m + 1}$$

10.453 INVALID-ORDER-453 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (R_5 g_m - 1) (C_L L_L s^2 + C_L R_L s + 1)}{C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + 2 C_L L_3 L_L g_m s^3 + C_L L_3 R_5 g_m s^2 + 2 C_L L_3 R_L g_m s^2 + C_L L_3 s^2 + C_L L_L}$$

10.454 INVALID-ORDER-454 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_3 s (R_5 g_m - 1) (C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 L_L R_5 g_m s^3 + C_3 L_3 L_L s^3 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_L L_3 L_L R_5 g_m s^3 + 2 C_L L_3 L_L R_L g_m s^3 + C_L L_3 L_L s^3 + C_L L_L R_5 g_m s^2 + C_L L_L R_L s^2 + C_L L_L R_L s + R_L g_m}$$

10.455 INVALID-ORDER-455 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_3 R_L s (R_5 g_m - 1) (C_L L_L s^2 + 1)}{C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_L L_3 L_L R_5 g_m s^3 + 2 C_L L_3 L_L R_L g_m s^3 + C_L L_3 L_L s^3 + C_L L_3 R_5 R_L g_m s^2 + C_L L_3 R_L s^2 + C_L L_L R_5 g_m s + R_L g_m}$$

10.456 INVALID-ORDER-456 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{L_3 R_L s (-C_5 s + g_m)}{C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_L g_m s^2 + 2 C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2 + C_5 R_L s + L_3 g_m s + R_L g_m}$$

10.457 INVALID-ORDER-457 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (-C_5 s + g_m)}{C_3 C_5 L_3 s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 s^3 + 2 C_5 L_3 g_m s^2 + C_5 s + C_L L_3 g_m s^2 + g_m}$$

10.458 INVALID-ORDER-458 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_L s (-C_5 s + g_m)}{C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_L g_m s^2 + C_5 C_L L_3 R_L s^3 + 2 C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2 + C_5 R_L s + C_L L_3 R_L g_m s^2 + L_3 g_m s + R_L g_m}$$

10.459 INVALID-ORDER-459 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_3 s (C_5 s - g_m) (C_L R_L s + 1)}{C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_L g_m s^3 + C_3 L_3 g_m s^2 + 2 C_5 C_L L_3 R_L g_m s^3 + C_5 C_L L_3 s^3 + C_5 C_L R_L s^2 + 2 C_5 L_3 g_m s^2 + C_5 s + C_L L_3 g_m s^2 + C_L R_L g_m s + g_m}$$

10.460 INVALID-ORDER-460 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_3 s (C_5 s - g_m) (C_L L_L s^2 + 1)}{C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 L_3 g_m s^2 + 2C_5 C_L L_3 L_L g_m s^4 + C_5 C_L L_3 s^3 + C_5 C_L L_L s^3 + 2C_5 L_3 g_m s^2 + C_5 s + C_L L_3 g_m s^2 + C_L L_L g_m s^2 + g_m}$$

10.461 INVALID-ORDER-461 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L s (-C_5 s + g_m)}{C_3 C_5 L_3 L_L s^3 + C_3 L_3 L_L g_m s^2 + C_5 C_L L_3 L_L s^3 + 2C_5 L_3 L_L g_m s^2 + C_5 L_3 s + C_5 L_L s + C_L L_3 L_L g_m s^2 + L_3 g_m + L_L g_m}$$

10.462 INVALID-ORDER-462 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_3 s (C_5 s - g_m) (C_L L_L s^2 + C_L R_L s + 1)}{C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 C_L L_3 R_L g_m s^3 + C_3 L_3 g_m s^2 + 2C_5 C_L L_3 L_L g_m s^4 + 2C_5 C_L L_3 R_L g_m s^3 + C_5 C_L L_3 s^3 + C_5 C_L L_L s^3}$$

10.463 INVALID-ORDER-463 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_3 L_L R_L s (-C_5 s + g_m)}{C_3 C_5 L_3 L_L R_L s^3 + C_3 L_3 L_L R_L g_m s^2 + C_5 C_L L_3 L_L R_L s^3 + 2C_5 L_3 L_L R_L g_m s^2 + C_5 L_3 L_L s^2 + C_5 L_3 R_L s + C_5 L_L R_L s + C_L L_3 L_L R_L g_m s^2 + L_3 L_L g_m s + L_3 R_L g_m + L_L R_L g_m}$$

10.464 INVALID-ORDER-464 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{L_3 s (C_5 s - g_m) (C_L L_L R_L s^2 + L_L s + R_L)}{C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_L g_m s^4 + C_3 L_3 L_L g_m s^3 + C_3 L_3 R_L g_m s^2 + 2C_5 C_L L_3 L_L R_L g_m s^4 + C_5 C_L L_3 L_L s^4 + C_5 C_L L_L R_L s^3 + 2C_5}$$

$$10.465 \quad \text{INVALID-ORDER-465} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{L_3 R_L s (C_5 s - g_m) (C_L L_L s^2 + 1)}{C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_L g_m s^4 + C_3 L_3 R_L g_m s^2 + 2 C_5 C_L L_3 L_L R_L g_m s^4 + C_5 C_L L_3 L_L s^4 + C_5 C_L L_3 R_L s^3 + C_5 C_L L_L R_L s^3 + 2 C_5 L_3 R_L g_m s^2 + C_5 L_3 R_L s^2 + C_5 L_L R_L s^2 + C_5 g_m s^2 + C_5 g_m s + C_5}$$

10.466 INVALID-ORDER-466 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$

$$H(s) = \frac{L_3 R_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 R_5 R_L s^3 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + 2 C_5 L_3 R_5 R_L g_m s^2 + C_5 L_3 R_5 s^2 + C_5 R_5 R_L s + L_3 R_5 g_m s + 2 L_3 R_L g_m s + L_3 s + R_5 R_L g_m + R_L}$$

10.467 INVALID-ORDER-467 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 R_5 s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_5 C_L L_3 R_5 s^3 + 2 C_5 L_3 R_5 g_m s^2 + C_5 R_5 s + C_L L_3 R_5 g_m s^2 + C_L L_3 s^2 + 2 L_3 g_m s + R_5 g_m + 1}$$

10.468 INVALID-ORDER-468 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 R_5 R_L s^3 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_5 C_L L_3 R_5 R_L s^3 + 2 C_5 L_3 R_5 R_L g_m s^2 + C_5 L_3 R_5 s^2 + C_5 R_5 R_L s + C_L L_3 R_5 R_L g_m s^2 + C_L L_3 R_L s^2 + L_3 R_5 g_m s + 2 L_3 R_L g_m}$$

10.469 INVALID-ORDER-469 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_3 s (C_L R_L s + 1) (C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + 2 C_5 C_L L_3 R_5 R_L g_m s^3 + C_5 C_L L_3 R_5 s^3 + C_5 C_L R_5 R_L s^2 + 2 C_5 L_3 R_5 g_m s^2 + C_5 R_5 s^2 + C_5 g_m s + C_5}$$

10.470 INVALID-ORDER-470 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_3 s (C_L L_L s^2 + 1) (C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + 2 C_5 C_L L_3 L_L R_5 g_m s^4 + C_5 C_L L_3 R_5 s^3 + C_5 C_L L_L R_5 s^3 + 2 C_5 L_3 R_5 g_m}$$

10.471 INVALID-ORDER-471 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 L_L R_5 s^3 + C_3 L_3 L_L R_5 g_m s^2 + C_3 L_3 L_L s^2 + C_5 C_L L_3 L_L R_5 s^3 + 2 C_5 L_3 L_L R_5 g_m s^2 + C_5 L_3 R_5 s + C_5 L_L R_5 s + C_L L_3 L_L R_5 g_m s^2 + C_L L_3 L_L s^2 + 2 L_3 L_L g_m s + L_3 R_5 g_m +}$$

10.472 INVALID-ORDER-472 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + 2 C_5 C_L}{}$$

10.473 INVALID-ORDER-473 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_3 L_L R_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 L_L R_5 R_L s^3 + C_3 L_3 L_L R_5 R_L g_m s^2 + C_3 L_3 L_L R_L s^2 + C_5 C_L L_3 L_L R_5 R_L s^3 + 2 C_5 L_3 L_L R_5 R_L g_m s^2 + C_5 L_3 L_L R_5 s^2 + C_5 L_3 R_5 R_L s + C_5 L_L R_5 R_L s + C_L L_3 L_L R_5 R_L g_m s^2 +}$$

10.474 INVALID-ORDER-474 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_L R_5 s^4 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 L_L R_5 g_m s^3 + C_3 L_3 L_L s^3 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 +}$$

10.475 INVALID-ORDER-475 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + 2 C_5 C_L L_3 L_L R_5 R_L g_m s^4 + C_5 C_L L_3 L_L R_5 s^4 + C_5}{}$$

10.476 INVALID-ORDER-476 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{L_3 R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_L g_m s^2 + C_5 L_3 R_5 g_m s^2 + 2C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2 + C_5 R_5 R_L g_m s + C_5 R_L s + L_3 g_m s + R_L g_m}$$

10.477 INVALID-ORDER-477 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 R_5 g_m s^3 + C_5 C_L L_3 s^3 + 2C_5 L_3 g_m s^2 + C_5 R_5 g_m s + C_5 s + C_L L_3 g_m s^2 + g_m}$$

10.478 INVALID-ORDER-478 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_L g_m s^2 + C_5 C_L L_3 R_5 R_L g_m s^3 + C_5 C_L L_3 R_L s^3 + C_5 L_3 R_5 g_m s^2 + 2C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2 + C_5 R_5 R_L g_m s + C_5 R_L s + C_L L_3 R_L s}$$

10.479 INVALID-ORDER-479 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_L R_L s + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_L g_m s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 R_5 g_m s^3 + 2C_5 C_L L_3 R_L g_m s^3 + C_5 C_L L_3 s^3 + C_5 C_L R_5 R_L s}$$

10.480 INVALID-ORDER-480 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_L L_L s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 L_3 g_m s^2 + 2C_5 C_L L_3 L_L g_m s^4 + C_5 C_L L_3 R_5 g_m s^3 + C_5 C_L L_3 s^3 + C_5 C_L L_L R_5 s}$$

10.481 INVALID-ORDER-481 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_L R_5 g_m s^3 + C_3 C_5 L_3 L_L s^3 + C_3 L_3 L_L g_m s^2 + C_5 C_L L_3 L_L R_5 g_m s^3 + C_5 C_L L_3 L_L s^3 + 2C_5 L_3 L_L g_m s^2 + C_5 L_3 R_5 g_m s + C_5 L_3 s + C_5 L_L R_5 g_m s + C_5 L_L s + C_L L_3 L_L g_m s}$$

10.482 INVALID-ORDER-482 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s}{C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 C_L L_3 R_L g_m s^3 + C_3 L_3 g_m s^2 +$$

10.483 INVALID-ORDER-483 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_3 L_L R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_L R_5 R_L g_m s^3 + C_3 C_5 L_3 L_L R_L s^3 + C_3 L_3 L_L R_L g_m s^2 + C_5 C_L L_3 L_L R_5 R_L g_m s^3 + C_5 C_L L_3 L_L R_L s^3 + C_5 L_3 L_L R_5 g_m s^2 + 2 C_5 L_3 L_L R_L g_m s^2 + C_5 L_3 L_L s^2 + C_5 L_3 R_5 R_L}$$

10.484 INVALID-ORDER-484 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{L_3 s}{C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_L g_m s^4 + C_3 L_3 L_L g_m s^3 + C_3 L_3 R_5 R_L}$$

10.485 INVALID-ORDER-485 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_3 s}{C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_L g_m s^4 + C_3 L_3 R_L g_m s^2 + C_5 C_L L_3 L_L R_5 g_m s^4 + 2 C_5 C_L L_3 L_L R_L g_m s^4 +$$

10.486 INVALID-ORDER-486 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{L_3 R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_L g_m s^2 + C_5 L_3 L_5 g_m s^3 + 2 C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2 + C_5 L_5 R_L g_m s^2 + C_5 R_L s + L_3 g_m s + R_L g_m}$$

10.487 INVALID-ORDER-487 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 L_5 g_m s^4 + C_5 C_L L_3 s^3 + 2 C_5 L_3 g_m s^2 + C_5 L_5 g_m s^2 + C_5 s + C_L L_3 g_m s^2 + g_m}$$

10.488 INVALID-ORDER-488 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_L g_m s^2 + C_5 C_L L_3 L_5 R_L g_m s^4 + C_5 C_L L_3 R_L s^3 + C_5 L_3 L_5 g_m s^3 + 2 C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2 + C_5 L_5 R_L g_m s^2 + C_5 R_L s + C_L L_3 R_L}$$

10.489 INVALID-ORDER-489 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_L R_L s + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_L g_m s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 L_5 g_m s^4 + 2 C_5 C_L L_3 R_L g_m s^3 + C_5 C_L L_3 s^3 + C_5 C_L L_5 R_L}$$

10.490 INVALID-ORDER-490 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_L L_L s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 L_3 g_m s^2 + C_5 C_L L_3 L_5 g_m s^4 + 2 C_5 C_L L_3 L_L g_m s^4 + C_5 C_L L_3 s^3 + C_5 C_L L_5 L_L}$$

10.491 INVALID-ORDER-491 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 L_L g_m s^4 + C_3 C_5 L_3 L_L s^3 + C_3 L_3 L_L g_m s^2 + C_5 C_L L_3 L_5 L_L g_m s^4 + C_5 C_L L_3 L_L s^3 + C_5 L_3 L_5 g_m s^2 + 2 C_5 L_3 L_L g_m s^2 + C_5 L_3 s + C_5 L_5 L_L g_m s^2 + C_5 L_L s + C_L L_3 L_L g_m}$$

10.492 INVALID-ORDER-492 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 C_L L_3 R_L g_m s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 L_5 L_L g_m s^4 + C_5 C_L L_3 L_L s^3 + C_5 L_3 L_5 g_m s^2 + 2 C_5 L_3 L_L g_m s^2 + C_5 L_3 s + C_5 L_5 L_L g_m s^2 + C_5 L_L s + C_L L_3 L_L g_m}$$

$$10.493 \quad \text{INVALID-ORDER-493} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_3 L_L R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^3 + C_3 L_3 L_L R_L g_m s^2 + C_5 C_L L_3 L_5 L_L R_L g_m s^4 + C_5 C_L L_3 L_L R_L s^3 + C_5 L_3 L_5 L_L g_m s^3 + C_5 L_3 L_5 R_L g_m s^2 + 2 C_5 L_3 L_L R_L g_m s^2 + C_5 L_3 R_L s + g_m}$$

$$10.494 \quad \text{INVALID-ORDER-494} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_3 L_L R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_L g_m s^4 + C_3 L_3 L_L g_m s^3 + C_3 L_3 R_L s + g_m}$$

$$10.495 \quad \text{INVALID-ORDER-495} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_3 L_L R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_L g_m s^4 + C_3 L_3 R_L g_m s^2 + C_5 C_L L_3 L_5 L_L g_m s^5 + C_5 C_L L_3 L_5 R_L g_m s^4 + 2 C_5 L_3 L_L R_L g_m s^2 + C_5 L_3 R_L s + g_m}$$

$$10.496 \quad \text{INVALID-ORDER-496} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$$

$$H(s) = \frac{L_3 R_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_3 L_5 R_L s^4 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 R_L s^2 + 2 C_5 L_3 L_5 R_L g_m s^3 + C_5 L_3 L_5 s^3 + C_5 L_5 R_L s^2 + L_3 L_5 g_m s^2 + 2 L_3 R_L g_m s + L_3 s + L_5 R_L g_m s + R_L}$$

$$10.497 \quad \text{INVALID-ORDER-497} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_3 s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_3 L_5 s^4 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 s^2 + C_5 C_L L_3 L_5 s^4 + 2 C_5 L_3 L_5 g_m s^3 + C_5 L_5 s^2 + C_L L_3 L_5 g_m s^3 + C_L L_3 s^2 + 2 L_3 g_m s + L_5 g_m s + 1}$$

10.498 INVALID-ORDER-498 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_3 L_5 R_L s^4 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 R_L s^2 + C_5 C_L L_3 L_5 R_L s^4 + 2C_5 L_3 L_5 R_L g_m s^3 + C_5 L_3 L_5 s^3 + C_5 L_5 R_L s^2 + C_L L_3 L_5 R_L g_m s^3 + C_L L_3 R_L s^2 + L_3 L_5 g_m s^2 + 2L_3 R_L g_m s - 1}$$

10.499 INVALID-ORDER-499 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_3 s (C_L R_L s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 R_L g_m s^4 + C_3 C_L L_3 R_L s^3 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 s^2 + 2C_5 C_L L_3 L_5 R_L g_m s^4 + C_5 C_L L_3 L_5 s^4 + C_5 C_L L_5 R_L s^3 + 2C_5 L_3 L_5 g_m s^3 - 1}$$

10.500 INVALID-ORDER-500 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_3 s (C_L L_L s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_L s^4 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 s^2 + 2C_5 C_L L_3 L_5 L_L g_m s^5 + C_5 C_L L_3 L_5 s^4 + C_5 C_L L_5 L_L s^4 + 2C_5 L_3 L_5 g_m s^3 - 1}$$

10.501 INVALID-ORDER-501 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_3 L_5 L_L s^4 + C_3 L_3 L_5 L_L g_m s^3 + C_3 L_3 L_L s^2 + C_5 C_L L_3 L_5 L_L s^4 + 2C_5 L_3 L_5 L_L g_m s^3 + C_5 L_3 L_5 s^2 + C_5 L_5 L_L s^2 + C_L L_3 L_5 L_L g_m s^3 + C_L L_3 L_L s^2 + L_3 L_5 g_m s + 2L_3 L_L g_m s - 1}$$

10.502 INVALID-ORDER-502 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{L_3 L_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_5 R_L g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 C_L L_3 R_L s^3 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 s^2 + 2C_5 C_L L_3 L_5 L_L g_m s^5 + C_5 C_L L_3 L_5 s^4 + C_5 C_L L_5 L_L s^4 + 2C_5 L_3 L_5 g_m s^3 - 1}$$

$$10.503 \quad \text{INVALID-ORDER-503} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_3 L_L R_L s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_3 L_5 L_L R_L s^4 + C_3 L_3 L_5 L_L R_L g_m s^3 + C_3 L_3 L_L R_L s^2 + C_5 C_L L_3 L_5 L_L R_L s^4 + 2C_5 L_3 L_5 L_L R_L g_m s^3 + C_5 L_3 L_5 L_L s^3 + C_5 L_3 L_5 R_L s^2 + C_5 L_5 L_L R_L s^2 + C_L L_3 L_5 L_L R_L g_m s^2}$$

$$10.504 \quad \text{INVALID-ORDER-504} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_L g_m s^5 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 L_5 L_L g_m s^4 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 L_L s^3 + C_3 L_3 R_L s^2 - C_5 C_L L_3 L_5 L_L R_L g_m s^5 + C_5 C_L L_3 L_5 L_L s^5 + C_5 C_L L_3 L_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L s^4 + C_5 C_L L_3 L_5 R_L g_m s^3 + C_5 C_L L_3 L_L s^3 + C_5 C_L L_3 R_L s^2 + C_5 C_L L_5 L_L R_L g_m s^2 + C_5 C_L L_5 L_L s^2 + C_5 C_L L_5 R_L g_m s + C_5 C_L R_L s}{C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_L g_m s^5 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 L_5 L_L g_m s^4 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 L_L s^3 + C_3 L_3 R_L s^2 - C_5 C_L L_3 L_5 L_L R_L g_m s^5 + C_5 C_L L_3 L_5 L_L s^5 + C_5 C_L L_3 L_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L s^4 + C_5 C_L L_3 L_5 R_L g_m s^3 + C_5 C_L L_3 L_L s^3 + C_5 C_L L_3 R_L s^2 + C_5 C_L L_5 L_L R_L g_m s^2 + C_5 C_L L_5 L_L s^2 + C_5 C_L L_5 R_L g_m s + C_5 C_L R_L s}$$

$$10.505 \quad \text{INVALID-ORDER-505} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_L g_m s^5 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 R_L s^2 + 2C_5 C_L L_3 L_5 L_L R_L g_m s^5 + C_5 C_L L_3 L_5 L_L s^5 + C_5 C_L L_3 L_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L s^4 + C_5 C_L L_3 L_5 R_L g_m s^3 + C_5 C_L L_3 L_L s^3 + C_5 C_L L_3 R_L s^2 + C_5 C_L L_5 L_L R_L g_m s^2 + C_5 C_L L_5 L_L s^2 + C_5 C_L L_5 R_L g_m s + C_5 C_L R_L s}{C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_L g_m s^5 + C_3 C_L L_3 L_L R_L s^4 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 R_L s^2 + 2C_5 C_L L_3 L_5 L_L R_L g_m s^5 + C_5 C_L L_3 L_5 L_L s^5 + C_5 C_L L_3 L_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L s^4 + C_5 C_L L_3 L_5 R_L g_m s^3 + C_5 C_L L_3 L_L s^3 + C_5 C_L L_3 R_L s^2 + C_5 C_L L_5 L_L R_L g_m s^2 + C_5 C_L L_5 L_L s^2 + C_5 C_L L_5 R_L g_m s + C_5 C_L R_L s}$$

$$10.506 \quad \text{INVALID-ORDER-506} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$$

$$H(s) = \frac{L_3 R_L s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_L g_m s^2 + C_5 L_3 L_5 g_m s^3 + C_5 L_3 R_5 g_m s^2 + 2C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2 + C_5 L_5 R_L g_m s^2 + C_5 R_5 R_L g_m s + C_5 R_5 s + C_5 R_L s}$$

$$10.507 \quad \text{INVALID-ORDER-507} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_3 s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 L_5 g_m s^4 + C_5 C_L L_3 R_5 g_m s^3 + C_5 C_L L_3 s^3 + 2C_5 L_3 g_m s^2 + C_5 L_5 g_m s^2 + C_5 R_5 g_m s + C_5 s + C_L L_3 g_m s^2}$$

10.508 INVALID-ORDER-508 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_L s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_L g_m s^2 + C_5 C_L L_3 L_5 R_L g_m s^4 + C_5 C_L L_3 R_5 R_L g_m s^3 + C_5 C_L L_3 R_L s^3 + C_5 L_3 L_5 g_m s^3 + C_5 L_3 R_5 g_m s^2 + 2C}$$

10.509 INVALID-ORDER-509 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_L R_L s + 1) (C_5 L_5 R_5 s + 1)}{C_3 C_5 C_L L_3 L_5 R_L q_m s^5 + C_3 C_5 C_L L_3 R_5 R_L q_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 L_5 q_m s^4 + C_3 C_5 L_3 R_5 q_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_L q_m s^3 + C_3 L_3 q_m s^2 + C_5 C_L L_3 L_5 q_m s^4 + C_5 C_L L_3 R_5 q_m s^3 + C_5 C_L L_3 s^3 + C_5 L_3 R_5 q_m s^2 + C_5 L_3 s^2 + C_5 R_5 q_m s + C_5}$$

10.510 INVALID-ORDER-510 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_L L_L s^2 + 1) (C_5 L_L s^2 + 1)}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 L_3 g_m s^2 + C_5 C_L L_3 L_5 g_m s^4 + 2 C_3 C_5 C_L L_3 L_5 L_L g_m s^2 + C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s}.$$

10.511 INVALID-ORDER-511 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_5 L_L g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^3 + C_3 C_5 L_3 L_L s^3 + C_3 L_3 L_L g_m s^2 + C_5 C_L L_3 L_5 L_L g_m s^4 + C_5 C_L L_3 L_L R_5 g_m s^3 + C_5 C_L L_3 L_L s^3 + C_5 L_3 L_5 g_m s^2 + 2 C_5 L_3 L_L g_m s^2 + C_5}$$

10.512 INVALID-ORDER-512 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 R_5 g_m s^3}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 R_5 g_m s^3}$$

$$10.513 \quad \text{INVALID-ORDER-513} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_3 L_5}{C_3 C_5 L_3 L_5 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L R_5 R_L g_m s^3 + C_3 C_5 L_3 L_L R_L s^3 + C_3 L_3 L_L R_L g_m s^2 + C_5 C_L L_3 L_5 L_L R_L g_m s^4 + C_5 C_L L_3 L_L R_5 R_L g_m s^3 + C_5 C_L L_3 L_L R_L s^3 + C_5 L_3 L_5 L_L g_m s^2}$$

$$10.514 \quad \text{INVALID-ORDER-514} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = \frac{L_3 L_5}{C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_5 g_m s^3}$$

$$10.515 \quad \text{INVALID-ORDER-515} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{L_3 L_5}{C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_L g_m s^4 + C_3 L_3 R_L g_m s^3}$$

$$10.516 \quad \text{INVALID-ORDER-516} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$$

$$H(s) = \frac{L_3 R_L s \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5 \right)}{C_3 C_5 L_3 L_5 R_5 R_L s^4 + C_3 L_3 L_5 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_L s^3 + C_3 L_3 R_5 R_L s^2 + 2 C_5 L_3 L_5 R_5 R_L g_m s^3 + C_5 L_3 L_5 R_5 s^3 + C_5 L_5 R_5 R_L s^2 + L_3 L_5 R_5 g_m s^2 + 2 L_3 L_5 R_L g_m s^2 + L_3 L_5 s^2}$$

$$10.517 \quad \text{INVALID-ORDER-517} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_3 s \left(-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - R_5 \right)}{C_3 C_5 L_3 L_5 R_5 s^4 + C_3 L_3 L_5 R_5 g_m s^3 + C_3 L_3 L_5 s^3 + C_3 L_3 R_5 s^2 + C_5 C_L L_3 L_5 R_5 s^4 + 2 C_5 L_3 L_5 R_5 g_m s^3 + C_5 L_5 R_5 s^2 + C_L L_3 L_5 R_5 g_m s^3 + C_L L_3 L_5 s^3 + C_L L_3 R_5 s^2 + 2 L_3 L_5 g_m s^2}$$

$$10.518 \quad \text{INVALID-ORDER-518} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_3 R_L s (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s)}{C_3 C_5 L_3 L_5 R_5 R_L s^4 + C_3 L_3 L_5 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_L s^3 + C_3 L_3 R_5 R_L s^2 + C_5 C_L L_3 L_5 R_5 R_L s^4 + 2C_5 L_3 L_5 R_5 R_L g_m s^3 + C_5 L_3 L_5 R_5 s^3 + C_5 L_5 R_5 R_L s^2 + C_L L_3 L_5 R_5 R_L g_m s^3}$$

$$10.519 \quad \text{INVALID-ORDER-519} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_L L_3 L_5 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 R_5 R_L s^3 + C_3 L_3 L_5 R_5 g_m s^3 + C_3 L_3 L_5 s^3 + C_3 L_3 R_5 s^2 + 2C_5 C_L L_3 L_5 R_5 R_L s^4}{C_3 C_5 C_L L_3 L_5 R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_L L_3 L_5 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 R_5 R_L s^3 + C_3 L_3 L_5 R_5 g_m s^3 + C_3 L_3 L_5 s^3 + C_3 L_3 R_5 s^2 + 2C_5 C_L L_3 L_5 R_5 R_L s^4}$$

$$10.520 \quad \text{INVALID-ORDER-520} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L s^5 + C_3 C_L L_3 L_L R_5 s^4 + C_3 L_3 L_5 R_5 g_m s^3 + C_3 L_3 L_5 s^3 + C_3 L_3 R_5 s^2 + 2C_5 C_L L_3 L_5 L_L R_5 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L s^5 + C_3 C_L L_3 L_L R_5 s^4 + C_3 L_3 L_5 R_5 g_m s^3 + C_3 L_3 L_5 s^3 + C_3 L_3 R_5 s^2 + 2C_5 C_L L_3 L_5 L_L R_5 s^4}$$

$$10.521 \quad \text{INVALID-ORDER-521} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_3 L_L s (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - L_5 s)}{C_3 C_5 L_3 L_5 L_L R_5 s^4 + C_3 L_3 L_5 L_L R_5 g_m s^3 + C_3 L_3 L_5 L_L s^3 + C_3 L_3 L_L R_5 s^2 + C_5 C_L L_3 L_5 L_L R_5 s^4 + 2C_5 L_3 L_5 L_L R_5 g_m s^3 + C_5 L_3 L_5 R_5 s^2 + C_5 L_5 L_L R_5 s^2 + C_L L_3 L_5 L_L R_5 g_m s^3}$$

$$10.522 \quad \text{INVALID-ORDER-522} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L s^5 + C_3 C_L L_3 L_5 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 L_L R_5 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L s^5 + C_3 C_L L_3 L_5 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 L_L R_5 s^4}$$

$$10.523 \quad \text{INVALID-ORDER-523} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_5 R_L s^4 + C_3 L_3 L_5 L_L R_5 R_L g_m s^3 + C_3 L_3 L_5 L_L R_L s^3 + C_3 L_3 L_L R_5 R_L s^2 + C_5 C_L L_3 L_5 L_L R_5 R_L s^4 + 2 C_5 L_3 L_5 L_L R_5 R_L g_m s^3 + C_5 L_3 L_5 L_L R_5 s^3 + C_5 L_3 L_5 R_5 R_L s^2}{C_3 C_5 L_3 L_5 L_L R_5 R_L s^4 + C_3 L_3 L_5 L_L R_5 R_L g_m s^3 + C_3 L_3 L_5 L_L R_L s^3 + C_3 L_3 L_L R_5 R_L s^2 + C_5 C_L L_3 L_5 L_L R_5 R_L s^4 + 2 C_5 L_3 L_5 L_L R_5 R_L g_m s^3 + C_5 L_3 L_5 L_L R_5 s^3 + C_5 L_3 L_5 R_5 R_L s^2}$$

$$10.524 \quad \text{INVALID-ORDER-524} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_5 s^5 + C_3 C_5 L_3 L_5 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_L s^5 + C_3 C_L L_3 L_L R_5 R_L s^4 + C_3 L_3 L_5 L_L R_5 g_m s^4 + C_3 L_3 L_5 R_5 R_L s^3 + C_3 L_3 L_5 R_5 s^2 + C_3 L_3 L_5 R_5 s + C_3 L_3 L_5 s}{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_5 s^5 + C_3 C_5 L_3 L_5 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_L s^5 + C_3 C_L L_3 L_L R_5 R_L s^4 + C_3 L_3 L_5 L_L R_5 g_m s^4 + C_3 L_3 L_5 R_5 R_L s^3 + C_3 L_3 L_5 R_5 s^2 + C_3 L_3 L_5 R_5 s + C_3 L_3 L_5 s}$$

$$10.525 \quad \text{INVALID-ORDER-525} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L s^6 + C_3 C_5 L_3 L_5 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_L s^5 + C_3 C_L L_3 L_L R_5 R_L s^4 + C_3 L_3 L_5 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_L s^3 + C_3 L_3 R_5 R_L s^2 + C_3 L_3 R_5 s + C_3 L_3 s}{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L s^6 + C_3 C_5 L_3 L_5 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_L s^5 + C_3 C_L L_3 L_L R_5 R_L s^4 + C_3 L_3 L_5 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_L s^3 + C_3 L_3 R_5 R_L s^2 + C_3 L_3 R_5 s + C_3 L_3 s}$$

$$10.526 \quad \text{INVALID-ORDER-526} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$$

$$H(s) = \frac{L_3 R_L s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_5 L_3 L_5 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_L g_m s^3 + C_5 L_3 L_5 s^3 + C_5 L_5 R_5 R_L g_m s^2 + C_5 L_5 R_5 s^2 + C_5 L_5 s + C_5 R_5}$$

$$10.527 \quad \text{INVALID-ORDER-527} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_3 s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 + L_5 g_m s + R_5 g_m - 1)}{C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_5 C_L L_3 L_5 R_5 g_m s^4 + C_5 C_L L_3 L_5 s^4 + 2 C_5 L_3 L_5 g_m s^3 + C_5 L_5 R_5 g_m s^2 + C_5 L_5 s^2 + C_L L_3 L_5 g_m s + C_L L_3 L_5 s}$$

10.528 INVALID-ORDER-528 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$

10.529 INVALID-ORDER-529 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 R_L g_m s^4 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 R_5 s^3}{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 R_L g_m s^4 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 R_5 s^3}.$$

10.530 INVALID-ORDER-530 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_3 s^2}{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 L_3 L_5 g_m s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_3 s^2}$$

10.531 INVALID-ORDER-531 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 R_5 g_m)}{C_3 C_5 L_3 L_5 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_5 L_L s^4 + C_3 L_3 L_5 L_L g_m s^3 + C_3 L_3 L_L R_5 g_m s^2 + C_3 L_3 L_L s^2 + C_5 C_L L_3 L_5 L_L R_5 g_m s^4 + C_5 C_L L_3 L_5 L_L s^4 + 2 C_5 L_3 L_5 L_L g_m s^3 + C_5 L_3 L_5 R_5 g_m s^2}$$

10.532 INVALID-ORDER-532 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_5 R_L s^5}{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 L_5 R_L s^5}$$

10.533 INVALID-ORDER-533 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 L_L R_L s^4 + C_3 L_3 L_5 L_L R_L g_m s^3 + C_3 L_3 L_L R_5 R_L g_m s^2 + C_3 L_3 L_L R_L s^2 + C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L R_L s^4 + C_5 L_3 L_5 L_L}{C_3 C_5 L_3 L_5 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 L_L R_L s^4 + C_3 L_3 L_5 L_L R_L g_m s^3 + C_3 L_3 L_L R_5 R_L g_m s^2 + C_3 L_3 L_L R_L s^2 + C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L R_L s^4 + C_5 L_3 L_5 L_L}$$

10.534 INVALID-ORDER-534 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

10.535 **INVALID-ORDER-535** $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_L g_m s^5 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3}{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_L g_m s^5 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3}$$

10.536 INVALID-ORDER-536 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$

$$H(s) = \frac{L_3 R_L s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_5 L_3 L_5 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_L g_m s^3 + C_5 L_3 L_5 s^3 + 2 C_5 L_3 R_5 R_L g_m s^2 + C_5 L_3 R_5 s^2 + C_5 R_5 g_m s - R_5 g_m + 1}$$

10.537 INVALID-ORDER-537 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 s (C_5 L_5 R_5 g_m s^2 - C_5 L_5 s^2 - C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_5 C_L L_3 L_5 R_5 g_m s^4 + C_5 C_L L_3 L_5 s^4 + C_5 C_L L_3 R_5 s^3 + 2 C_5 L_3 L_5 g_m s^3 + 2 C_5 L_3 R_5 g_m s^2 + C_5 L_3 R_5 s}$$

10.538 INVALID-ORDER-538 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_L s (C_5 L_5 s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_5 C_L L_3 L_5 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 R_L s^4 + C_5 C_L L_3 R_5 R_L s^3 + C_5 L_3 L_5 R_5 g_m s^2)}{C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_5 C_L L_3 L_5 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 R_L s^4 + C_5 C_L L_3 R_5 R_L s^3 + C_5 L_3 L_5 R_5 g_m s^2}$$

10.539 INVALID-ORDER-539 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 R_5 R_L s^3}{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 L_3 R_5 R_L s^3}$$

10.540 INVALID-ORDER-540 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 L_3 R_5 s^3}{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 L_3 R_5 s^3}$$

10.541 INVALID-ORDER-541 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L s (C_5 L_5 R_5 g)}{C_3 C_5 L_3 L_5 L_L R_5 g m s^4 + C_3 C_5 L_3 L_5 L_L s^4 + C_3 C_5 L_3 L_L R_5 s^3 + C_3 L_3 L_L R_5 g m s^2 + C_3 L_3 L_L s^2 + C_5 C_L L_3 L_5 L_L R_5 g m s^4 + C_5 C_L L_3 L_5 L_L s^4 + C_5 C_L L_3 L_L R_5 s^3 + 2 C_5 L_3 L_5 L_L g m}$$

10.542 INVALID-ORDER-542 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$

10.543 INVALID-ORDER-543 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 L_L R_L s^4 + C_3 C_5 L_3 L_L R_5 R_L s^3 + C_3 L_3 L_L R_5 R_L g_m s^2 + C_3 L_3 L_L R_L s^2 + C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L R_L s^4 + C_5 C_L L_3 L_L}{\dots}$$

10.544 INVALID-ORDER-544 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 L_L R_5 R_L s^3 + C_3 C_5 L_3 L_L R_L s^3 + C_3 C_5 L_3 L_L s^3 + C_3 C_5 L_3 L s^3 + C_3 C_5 L_3 R_5 R_L s^2 + C_3 C_5 L_3 R_L s^2 + C_3 C_5 L_3 s^2 + C_3 C_5 L_5 L_L R_5 R_L s^2 + C_3 C_5 L_5 L_L R_L s^2 + C_3 C_5 L_5 L_L s^2 + C_3 C_5 L_5 L s^2 + C_3 C_5 L_5 R_5 R_L s + C_3 C_5 L_5 R_L s + C_3 C_5 L_5 s + C_3 C_5 L_L R_5 R_L s + C_3 C_5 L_L R_L s + C_3 C_5 L_L s + C_3 C_5 L s + C_3 C_5 R_5 R_L s + C_3 C_5 R_L s + C_3 C_5 s + C_3 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_L L_3 L_5 L_L R_L s^6 + C_3 C_L L_3 L_L R_5 R_L s^5 + C_3 C_L L_3 L_5 L_L R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L s^5 + C_3 C_L L_3 L_5 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_3 L_L R_5 R_L s^3 + C_3 C_L L_3 L_L R_L s^3 + C_3 C_L L_3 L_L s^3 + C_3 C_L L_3 L s^3 + C_3 C_L L_3 R_5 R_L s^2 + C_3 C_L L_3 R_L s^2 + C_3 C_L L_3 s^2 + C_3 C_L L_5 L_L R_5 R_L s^2 + C_3 C_L L_5 L_L R_L s^2 + C_3 C_L L_5 L_L s^2 + C_3 C_L L_5 L s^2 + C_3 C_L L_5 R_5 R_L s + C_3 C_L L_5 R_L s + C_3 C_L L_5 s + C_3 C_L L_L R_5 R_L s + C_3 C_L L_L R_L s + C_3 C_L L_L s + C_3 C_L L s + C_3 C_L R_5 R_L s + C_3 C_L R_L s + C_3 C_L s + C_3 C_L s + C_3 C s + C_3 s}{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 L_L s^5 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 L_5 R_L s^4 + C_3 C_5 C_L L_3 L_5 s^4 + C_3 C_5 C_L L_3 L_L R_5 R_L s^3 + C_3 C_5 C_L L_3 L_L R_L s^3 + C_3 C_5 C_L L_3 L_L s^3 + C_3 C_5 C_L L_3 L s^3 + C_3 C_5 C_L L_3 R_5 R_L s^2 + C_3 C_5 C_L L_3 R_L s^2 + C_3 C_5 C_L L_3 s^2 + C_3 C_5 C_L L_5 L_L R_5 R_L s^2 + C_3 C_5 C_L L_5 L_L R_L s^2 + C_3 C_5 C_L L_5 L_L s^2 + C_3 C_5 C_L L_5 L s^2 + C_3 C_5 C_L L_5 R_5 R_L s + C_3 C_5 C_L L_5 R_L s + C_3 C_5 C_L L_5 s + C_3 C_5 C_L L_L R_5 R_L s + C_3 C_5 C_L L_L R_L s + C_3 C_5 C_L L_L s + C_3 C_5 C_L L s + C_3 C_5 C_L R_5 R_L s + C_3 C_5 C_L R_L s + C_3 C_5 C_L s + C_3 C_5 C s + C_3 C s + C_3 s}.$$

10.545 INVALID-ORDER-545 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_5 R_L s^3 + C_3 C_L L_3 L_L R_5 R_L s^2 + C_3 C_L L_3 L_L R_5 R_L s + C_3 C_L L_3 L_L R_5 R_L}{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_5 R_L s^3 + C_3 C_L L_3 L_L R_5 R_L s^2 + C_3 C_L L_3 L_L R_5 R_L s + C_3 C_L L_3 L_L R_5 R_L}$$

10.546 INVALID-ORDER-546 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(R_5 g_m - 1)(C_3 L_3 s^2 + C_3 R_3 s + 1)}{C_3 C_L L_3 R_5 g_m s^3 + C_3 C_L L_3 s^3 + C_3 C_L R_3 R_5 g_m s^2 + C_3 C_L R_3 s^2 + 2C_3 L_3 g_m s^2 + 2C_3 R_3 g_m s + C_3 R_5 g_m s + C_3 s + C_L R_5 g_m s + C_L s + 2g_m}$$

10.547 INVALID-ORDER-547 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_3 L_3 s^2 + C_3 R_3 s + 1)}{C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + C_3 L_3 R_5 g_m s^2 + 2 C_3 L_3 R_L g_m s^2 + C_3 L_3 s^2 + C_3 R_3 R_5 g_m s + 2 C_3 R_3 R_L g_m s + C_3 R_3 s + C_3 R_5 R_L}$$

10.548 INVALID-ORDER-548 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(R_5g_m - 1)(C_LR_Ls + 1)(C_3L_3s^2 + C_3R_3s + 1)}{C_3C_LL_3R_5g_ms^3 + 2C_3C_LL_3R_Lg_ms^3 + C_3C_LL_3s^3 + C_3C_LR_3R_5g_ms^2 + 2C_3C_LR_3R_Lg_ms^2 + C_3C_LR_3s^2 + C_3C_LR_5R_Lg_ms^2 + C_3C_LR_Ls^2 + 2C_3L_3g_ms^2 + 2C_3R_3g_ms + C_3R_3}$$

10.549 INVALID-ORDER-549 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(R_5g_m - 1)(C_LL_Ls^2 + 1)(C_3L_3s^2 + C_3R_3s + 1)}{2C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3R_5g_ms^3 + C_3C_LL_3s^3 + 2C_3C_LL_LR_3g_ms^3 + C_3C_LL_LR_5g_ms^3 + C_3C_LL_Ls^3 + C_3C_LR_3R_5g_ms^2 + C_3C_LR_3s^2 + 2C_3L_3g_ms^2 + 2C_3R_3g_ms + C_3R_3}$$

10.550 INVALID-ORDER-550 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_Ls(R_5g_m - 1)(C_3L_3s^2 + C_3R_3s + 1)}{C_3C_LL_3L_LR_5g_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_LR_3R_5g_ms^3 + C_3C_LL_LR_3s^3 + 2C_3L_3L_Lg_ms^3 + C_3L_3R_5g_ms^2 + C_3L_3s^2 + 2C_3L_LR_3g_ms^2 + C_3L_LR_5g_ms^2 + C_3L_Ls^2 + C_3R_3}$$

10.551 INVALID-ORDER-551 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(R_5g_m - 1)(C_3L_3s^2 + C_3R_3s + 1)(C_LL_Ls^2 + 1)}{2C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3R_5g_ms^3 + 2C_3C_LL_LR_3g_ms^3 + C_3C_LL_Ls^3 + 2C_3C_LL_LR_3g_ms^3 + C_3C_LL_LR_5g_ms^3 + C_3C_LL_Ls^3 + C_3C_LR_3R_5g_ms^2 + 2C_3C_LR_3R_Lg_ms^2 + C_3C_LR_3s^2 + 2C_3L_3g_ms^2 + 2C_3R_3g_ms + C_3R_3}$$

10.552 INVALID-ORDER-552 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, \frac{1}{\frac{1}{C_Ls} + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{L_LR_Ls}{C_3C_LL_3L_LR_5R_Lg_ms^4 + C_3C_LL_3L_LR_Ls^4 + C_3C_LL_LR_3R_5R_Lg_ms^3 + C_3C_LL_LR_3R_Ls^3 + C_3L_3L_LR_5g_ms^3 + 2C_3L_3L_LR_Lg_ms^3 + C_3L_3L_Ls^3 + C_3L_3R_5R_Lg_ms^2 + C_3L_3R_Ls^2 + C_3R_3}$$

10.553 INVALID-ORDER-553 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$

$$H(s) = \frac{C_3C_LL_3L_LR_5g_ms^4 + 2C_3C_LL_3L_LR_Lg_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_LR_3R_5g_ms^3 + 2C_3C_LL_LR_3R_Lg_ms^3 + C_3C_LL_LR_3s^3 + C_3C_LL_R_5R_Lg_ms^3 + C_3C_LL_R_Ls^3 + 2C_3L_3L_L}{C_3C_LL_3L_LR_5g_ms^4 + 2C_3C_LL_3L_LR_Lg_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_LR_3R_5g_ms^3 + 2C_3C_LL_LR_3R_Lg_ms^3 + C_3C_LL_LR_3s^3 + C_3C_LL_R_5R_Lg_ms^3 + C_3C_LL_R_Ls^3 + 2C_3L_3L_L}$$

10.554 INVALID-ORDER-554 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{C_3C_LL_3L_LR_5g_ms^4 + 2C_3C_LL_3L_LR_Lg_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_LR_3R_5g_ms^3 + C_3C_LL_LR_3s^3 + C_3C_LL_LR_3R_5g_ms^3 + 2C_3C_LL_LR_3R_Lg_ms^3 + C_3C_LL_LR_3s^3 + C_3C_LL_R_5R_Lg_ms^3 + C_3C_LL_R_Ls^3 + 2C_3L_3L_L}{C_3C_LL_3L_LR_5g_ms^4 + 2C_3C_LL_3L_LR_Lg_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_LR_3R_5g_ms^3 + C_3C_LL_LR_3s^3 + C_3C_LL_LR_3R_5g_ms^3 + 2C_3C_LL_LR_3R_Lg_ms^3 + C_3C_LL_LR_3s^3 + C_3C_LL_R_5R_Lg_ms^3 + C_3C_LL_R_Ls^3 + 2C_3L_3L_L}$$

10.555 INVALID-ORDER-555 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, R_L \right)$

$$H(s) = -\frac{R_L(C_5s - g_m)(C_3L_3s^2 + C_3R_3s + 1)}{2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + 2C_3C_5R_3R_Lg_ms^2 + C_3C_5R_3s^2 + C_3C_5R_Ls^2 + C_3L_3g_ms^2 + C_3R_3g_ms + C_3R_Lg_ms + 2C_5R_Lg_ms + C_5s + g_m}$$

10.556 INVALID-ORDER-556 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_3L_3s^2 + C_3R_3s + 1)}{s(C_3C_5C_LL_3s^3 + C_3C_5C_LR_3s^2 + 2C_3C_5L_3g_ms^2 + 2C_3C_5R_3g_ms + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LR_3g_ms + C_3g_m + C_5C_Ls + 2C_5g_m + C_Lg_m)}$$

10.557 INVALID-ORDER-557 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = -\frac{R_L(C_5s - g_m)(C_3L_3s^2 + C_3R_3s + 1)}{C_3C_5C_LL_3R_Ls^4 + C_3C_5C_LR_3R_Ls^3 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + 2C_3C_5R_3R_Lg_ms^2 + C_3C_5R_3s^2 + C_3C_5R_Ls^2 + C_3C_LL_3R_Lg_ms^3 + C_3C_LR_3R_Lg_ms^2 + C_3L_3g_ms^2 -}$$

10.558 INVALID-ORDER-558 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_LR_Ls + 1)(C_3L_3s^2 + C_3R_3s + 1)}{s(2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + 2C_3C_5C_LR_3R_Lg_ms^2 + C_3C_5C_LR_3s^2 + C_3C_5C_LL_3s^2 + 2C_3C_5L_3g_ms^2 + 2C_3C_5R_3g_ms + C_3C_5s + C_3C_LL_3g_ms^2 + C_3C_LR_3g_ms}$$

10.559 INVALID-ORDER-559 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_L L_L s^2 + 1)(C_3 L_3 s^2 + C_3 R_3 s + 1)}{s(2C_3 C_5 C_L L_3 L_L g_m s^4 + C_3 C_5 C_L L_3 s^3 + 2C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 L_3 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L L_3 g_m s^2 + C_3 C_L L_L g_m s^2}$$

10.560 INVALID-ORDER-560 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{L_L s (C_5 s - g_m) (C_3 L_3 s^2 + C_3 R_3 s + 1)}{C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_L R_3 s^4 + 2 C_3 C_5 L_3 L_L g_m s^4 + C_3 C_5 L_3 s^3 + 2 C_3 C_5 L_L R_3 g_m s^3 + C_3 C_5 L_L s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_3 L_L g_m s^4 + C_3 C_L L_L R_3 g_m s^3 + C_3 L_3 g_m s^2 +}$$

10.561 INVALID-ORDER-561 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_3L_3s^2 + C_3R_3s + C_3L_3R_3)}{s(2C_3C_5C_LL_3L_Lg_ms^4 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + 2C_3C_5C_LL_R_3g_ms^3 + C_3C_5C_LLs^3 + 2C_3C_5C_LR_3R_Lg_ms^2 + C_3C_5C_LR_3s^2 + C_3C_5C_LR_Ls^2 + 2C_3C_5L_3R_3g_m + C_3C_5L_3R_3s + C_3C_5L_3R_3R_3)}$$

10.562 INVALID-ORDER-562 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_L R_3 R_L s^4 + 2 C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_L s^3 + 2 C_3 C_5 L_L R_3 R_L g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 L_L R_L s^3 + C_3 C_5 R_3 R_L s^2}{C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_L R_3 R_L s^4 + 2 C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_L s^3 + 2 C_3 C_5 L_L R_3 R_L g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 L_L R_L s^3 + C_3 C_5 R_3 R_L s^2}$$

10.563 INVALID-ORDER-563 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s}, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + 2C_3C_5C_LL_R_3R_Lg_ms^4 + C_3C_5C_LL_R_3s^4 + C_3C_5C_LL_R_Ls^4 + 2C_3C_5L_3L_Lg_ms^4 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + 2C_3C_5L_Lg_ms^2 + C_3C_5L_Ls^2 + 2C_3C_5R_Lg_ms^2 + C_3C_5R_Ls^2 + 2C_3C_5L_Lg_ms + C_3C_5L_Ls + 2C_3C_5R_Lg_ms + C_3C_5R_Ls + C_3C_5L_L + C_3C_5R_L + C_3C_5}{2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + 2C_3C_5C_LL_R_3R_Lg_ms^4 + C_3C_5C_LL_R_3s^4 + C_3C_5C_LL_R_Ls^4 + 2C_3C_5L_3L_Lg_ms^4 + 2C_3C_5L_3R_Lg_ms^3 + C_3C_5L_3s^3 + 2C_3C_5L_Lg_ms^2 + C_3C_5L_Ls^2 + 2C_3C_5R_Lg_ms^2 + C_3C_5R_Ls^2 + 2C_3C_5L_Lg_ms + C_3C_5L_Ls + 2C_3C_5R_Lg_ms + C_3C_5R_Ls + C_3C_5L_L + C_3C_5R_L + C_3C_5}.$$

10.564 INVALID-ORDER-564 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_Lg_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_Ls^4 + 2C_3C_5C_LL_R_3R_Lg_ms^4 + C_3C_5C_LL_R_3s^4 + C_3C_5C_LL_R_Ls^4 + C_3C_5C_LR_3R_Ls^3 + 2C_3C_5L_3R_Lg_ms^3 +$$

10.565 INVALID-ORDER-565 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$

$$H(s) = -\frac{R_L (C_3 L_3 s^2 + C_3 R_3 s + 1) (C_5 R_5 s - R_5 g_m + 1)}{2C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_5 s^3 + 2C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_5 R_L s^2 + C_3 L_3 R_5 g_m s^2 + 2C_3 L_3 R_L g_m s^2 + C_3 L_3 s^2 + C_3 R_3 R_5 g_m s + 2C_3 R_3 R_L g_m s +}$$

10.566 INVALID-ORDER-566 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3L_3s^2 + C_3R_3s + 1)(C_5R_5s - R_5g_m + 1)}{C_3C_5C_LL_3R_5s^4 + C_3C_5C_LR_3R_5s^3 + 2C_3C_5L_3R_5g_ms^3 + 2C_3C_5R_3R_5g_ms^2 + C_3C_5R_5s^2 + C_3C_LL_3R_5g_ms^3 + C_3C_LL_3s^3 + C_3C_LR_3R_5g_ms^2 + C_3C_LR_3s^2 + 2C_3L_3g_ms^2 +}$$

10.567 INVALID-ORDER-567 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + 2 C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_5 s^3 + 2 C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_5 R_L s^2 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_5 R_L s^3 + C_3 C_L L_3 R_5 R_L s^3}{C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + 2 C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_5 s^3 + 2 C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_5 R_L s^2 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_5 R_L s^3 + C_3 C_L L_3 R_5 R_L s^3}$$

10.568 INVALID-ORDER-568 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_5s^4 + 2C_3C_5C_LR_3R_5R_Lg_ms^3 + C_3C_5C_LR_3R_5s^3 + C_3C_5C_LR_5R_Ls^3 + 2C_3C_5L_3R_5g_ms^3 + 2C_3C_5R_3R_5g_ms^2 + C_3C_5R_5s^2 + C_3C_LL_3R_5s^2 + C_3C_LL_3R_5s}{2C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_5s^4 + 2C_3C_5C_LR_3R_5R_Lg_ms^3 + C_3C_5C_LR_3R_5s^3 + C_3C_5C_LR_5R_Ls^3 + 2C_3C_5L_3R_5g_ms^3 + 2C_3C_5R_3R_5g_ms^2 + C_3C_5R_5s^2 + C_3C_LL_3R_5s^2 + C_3C_LL_3R_5s}$$

10.569 INVALID-ORDER-569 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5}{C_5R_5s+1}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3R_5s^4 + 2C_3C_5C_LL_LR_3R_5g_ms^4 + C_3C_5C_LL_LR_5s^4 + C_3C_5C_LL_R_3R_5s^3 + 2C_3C_5L_3R_5g_ms^3 + 2C_3C_5R_3R_5g_ms^2 + C_3C_5R_5s^2 + 2C_3C_L}{2C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3R_5s^4 + 2C_3C_5C_LL_LR_3R_5g_ms^4 + C_3C_5C_LL_LR_5s^4 + C_3C_5C_LL_R_3R_5s^3 + 2C_3C_5L_3R_5g_ms^3 + 2C_3C_5R_3R_5g_ms^2 + C_3C_5R_5s^2 + 2C_3C_L}$$

10.570 INVALID-ORDER-570 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_L R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 R_5 s^3 + 2 C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_5 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L R_5 s^4 + C_3 C_L L_3 L_L R_5 s^4}{C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_L R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 R_5 s^3 + 2 C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_5 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L R_5 s^4 + C_3 C_L L_3 L_L R_5 s^4}$$

10.571 INVALID-ORDER-571 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_5s^4 + 2C_3C_5C_LL_R_3R_5g_ms^4 + C_3C_5C_LL_R_5s^4 + 2C_3C_5C_LR_3R_5R_Lg_ms^3 + C_3C_5C_LR_3R_5s^3 + C_3C_5C_LR_5R_3R_Lg_ms^3 + C_3C_5C_LR_5s^3 + C_3C_5C_LR_3R_5s^3 + C_3C_5C_LR_5R_3s^3 + C_3C_5C_LR_3R_5s^3 + C_3C_5C_LR_5R_3s^3}{2C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_5s^4 + 2C_3C_5C_LL_R_3R_5g_ms^4 + C_3C_5C_LL_R_5s^4 + 2C_3C_5C_LR_3R_5R_Lg_ms^3 + C_3C_5C_LR_3R_5s^3 + C_3C_5C_LR_5R_3R_Lg_ms^3 + C_3C_5C_LR_5s^3 + C_3C_5C_LR_3R_5s^3 + C_3C_5C_LR_5R_3s^3 + C_3C_5C_LR_3R_5s^3 + C_3C_5C_LR_5R_3s^3}.$$

10.572 INVALID-ORDER-572 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + 2 C_3 C_5 L_3 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_5 s^4 + C_3 C_5 L_3 R_5 R_L s^3 + 2 C_3 C_5 L_L R_3 R_5 R_L g_m s^3 + C_3 C_5 L_L R_3 R_5 s^3 + C_3 C_5 L_L R_5 s^3}{C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + 2 C_3 C_5 L_3 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_5 s^4 + C_3 C_5 L_3 R_5 R_L s^3 + 2 C_3 C_5 L_L R_3 R_5 R_L g_m s^3 + C_3 C_5 L_L R_3 R_5 s^3 + C_3 C_5 L_L R_5 s^3}.$$

10.573 INVALID-ORDER-573 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + 2C_3C_5C_LL_R_3R_5R_Lg_ms^4 + C_3C_5C_LL_R_3R_5s^4 + C_3C_5C_LL_R_5R_Ls^4 + 2C_3C_5L_3L_LR_5g_ms^4 + 2C_3C_5L_3R_5R_Lg_ms^3 +$$

10.574 INVALID-ORDER-574 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_5R_Lq_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + C_3C_5C_LL_3R_5R_Ls^4 + 2C_3C_5C_LL_R_3R_5R_Lq_ms^4 + C_3C_5C_LL_R_3R_5s^4 + C_3C_5C_LL_R_5R_Ls^4 + C_3C_5C_LR_3R_5R_Ls^3 + 2$$

10.575 INVALID-ORDER-575 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_L (C_3 L_3 s^2 + C_3 R_3 s + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_L g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 R_L g_m s^2 + C_3 C_5 R_L s^2 + C_3 L_3 g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m}$$

10.576 INVALID-ORDER-576 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 s^2 + C_3 R_3 s + 1)(C_5 R_5 g_m s - C_5 s + g_m)}{s(C_3 C_5 C_L L_3 R_5 g_m s^3 + C_3 C_5 C_L L_3 s^3 + C_3 C_5 C_L R_3 R_5 g_m s^2 + C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 L_3 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 R_5 g_m s + C_3 C_5 s + C_3 C_L L_3 g_m s^2 + C_3 C_L R_3 g_m s + C_3 g_m)}$$

10.577 INVALID-ORDER-577 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L}{C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_L g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 R_L s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 s^2}$$

10.578 INVALID-ORDER-578 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(C_LR_Ls + 1)(C_3L_3s^2 + C_3R_3s + C_3L_3R_3)}{s(C_3C_5C_LL_3R_5g_ms^3 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LR_3R_5g_ms^2 + 2C_3C_5C_LR_3R_Lg_ms^2 + C_3C_5C_LR_3s^2 + C_3C_5C_LR_5R_Lg_ms^2 + C_3C_5C_LR_Ls^2 + 2C_3C_5L_3R_5g_ms + C_3C_5L_3R_Lg_ms + C_3C_5L_3s + C_3C_5R_5 + C_3C_5R_L + C_3C_5s + C_3C_5)}.$$

10.579 INVALID-ORDER-579 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(C_LL_Ls^2 + 1)(C_3L_3s^2 + C_3R_3s + C_3L_3R_3)}{s(2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + C_3C_5C_LL_3s^3 + 2C_3C_5C_LL_LR_3g_ms^3 + C_3C_5C_LL_LR_5g_ms^3 + C_3C_5C_LL_Ls^3 + C_3C_5C_LR_3R_5g_ms^2 + C_3C_5C_LR_3s^2 + 2C_3C_5L_3R_5g_ms + C_3C_5L_3R_Lg_ms + C_3C_5L_3s + C_3C_5R_5 + C_3C_5R_L + C_3C_5s + C_3C_5)}.$$

10.580 INVALID-ORDER-580 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$

$$H(s) = \frac{L_Ls}{C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_LR_3R_5g_ms^4 + C_3C_5C_LL_LR_3s^4 + 2C_3C_5L_3L_Lg_ms^4 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3s^3 + 2C_3C_5L_LR_3g_ms^3 + C_3C_5L_LR_5g_ms^2 + C_3C_5L_Ls^2 + 2C_3C_5R_5 + C_3C_5R_L + C_3C_5s + C_3C_5}.$$

10.581 INVALID-ORDER-581 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{1}{s(2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + 2C_3C_5C_LL_LR_3g_ms^3 + C_3C_5C_LL_LR_5g_ms^3 + C_3C_5C_LL_Ls^3 + C_3C_5C_LR_3R_5g_ms^2 + 2C_3C_5C_LR_3R_Lg_ms^2 + C_3C_5C_LR_3s^2 + 2C_3C_5L_3R_5g_ms + C_3C_5L_3R_Lg_ms + C_3C_5L_3s + C_3C_5R_5 + C_3C_5R_L + C_3C_5s + C_3C_5)}.$$

10.582 INVALID-ORDER-582 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{1}{C_3C_5C_LL_3L_LR_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_Ls^5 + C_3C_5C_LL_LR_3R_5R_Lg_ms^4 + C_3C_5C_LL_LR_3R_Ls^4 + C_3C_5L_3L_LR_5g_ms^4 + 2C_3C_5L_3L_LR_Lg_ms^4 + C_3C_5L_3L_Ls^4 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3R_Lg_ms^2 + C_3C_5L_3s^3 + 2C_3C_5R_5 + C_3C_5R_L + C_3C_5s + C_3C_5}.$$

10.583 INVALID-ORDER-583 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

10.584 INVALID-ORDER-584 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 C_L L_L s^4 + C_3 C_5 C_L s^4 + C_3 C_5 s^4}{C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_L R_3 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 C_L L_L s^4 + C_3 C_5 C_L s^4 + C_3 C_5 s^4}.$$

10.585 **INVALID-ORDER-585** $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_L (C_3 L_3 s^2 + C_3 R_3 s + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_L g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_L g_m s^3 + 2 C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_L s^2 + C_3 L_3 g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m}$$

10.586 **INVALID-ORDER-586** $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(C_3 L_3 s^2 + C_3 R_3 s + 1)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{s(C_3 C_5 C_L L_3 L_5 g_m s^4 + C_3 C_5 C_L L_3 s^3 + C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 L_3 g_m s^2 + C_3 C_5 L_5 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 s + C_3 C_L L_3 g_m s^2 + C_3 C_L R_3 g_m s + C_3 g_m)}$$

10.587 INVALID-ORDER-587 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L}{C_L R_L s + 1} \right)$

10.588 INVALID-ORDER-588 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_L R_L s + 1)(C_3 L_3 s^2 + C_3 R_3 s + C_3 L_3)}{s(C_3 C_5 C_L L_3 L_5 g_m s^4 + 2C_3 C_5 C_L L_3 R_L g_m s^3 + C_3 C_5 C_L L_3 s^3 + C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L L_5 R_L g_m s^3 + 2C_3 C_5 C_L R_3 R_L g_m s^2 + C_3 C_5 C_L R_3 s^2 + C_3 C_5 C_L R_L s^2 + 2C_3 C_5 L$$

10.589 INVALID-ORDER-589 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{(C_L L_L s^2 + 1) (C_3 L_3 s^2 + C_3 R_3 s + C_3 L_3)}{s (C_3 C_5 C_L L_3 L_5 g_m s^4 + 2 C_3 C_5 C_L L_3 L_L g_m s^4 + C_3 C_5 C_L L_3 s^3 + C_3 C_5 C_L L_5 L_L g_m s^4 + C_3 C_5 C_L L_5 R_3 g_m s^3 + 2 C_3 C_5 C_L L_L R_3 g_m s^3 + C_3 C_5 C_L L_L s^3 + C_3 C_5 C_L R_3 s^2 + 2 C_3 C_5 L_3 s + C_3 L_3)}$$

10.590 INVALID-ORDER-590 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 L_L g_m s^4 + C_3 C_5 L_3 s^3 + C_3 C_5 L_5 L_L g_m s^4 + C_3 C_5 L_5 R_3 g_m s^4)}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 L_L g_m s^4 + C_3 C_5 L_3 s^3 + C_3 C_5 L_5 L_L g_m s^4 + C_3 C_5 L_5 R_3 g_m s^4}$$

10.591 INVALID-ORDER-591 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{1}{s(C_3C_5C_LL_3L_5g_ms^4 + 2C_3C_5C_LL_3L_Lg_ms^4 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5L_Lg_ms^4 + C_3C_5C_LL_5R_3g_ms^3 + C_3C_5C_LL_5R_Lg_ms^3 + 2C_3C_5C_LL_LR_3g_ms}$$

10.592 INVALID-ORDER-592 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_L g_m s^4 + 2 C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^3 + C_3 C_5 L_3 L_L R_L s^2 + C_3 C_5 L_3 L_L R_L s + C_3 C_5 L_3 L_L R_L}{C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_L g_m s^4 + 2 C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^3 + C_3 C_5 L_3 L_L R_L s^2 + C_3 C_5 L_3 L_L R_L s + C_3 C_5 L_3 L_L R_L}$$

10.593 INVALID-ORDER-593 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

10.594 INVALID-ORDER-594 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

10.595 INVALID-ORDER-595 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$

$$H(s) = -\frac{R_L (C_3 L_3 s^2 + C_3 R_3 s + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{2C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 L_3 L_5 g_m s^3 + 2C_3 L_3 R_L g_m s^2 + C_3 L_3 s^2 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 +$$

10.596 INVALID-ORDER-596 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_3L_3s^2 + C_3R_3s + 1)(C_5L_5s^2 - L_5g_ms + 1)}{C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5R_3s^4 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_3L_5g_ms^4 + C_3C_LL_3s^3 + C_3C_LL_5R_3g_ms^3 + C_3C_LL_3R_3s^2 + 2C_3L_3g_ms^2 +}$$

10.597 INVALID-ORDER-597 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_L s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_3 L_5 R_L g_m s^4 + C_3 C_L L_3 R_L g_m s^4}{C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_L s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_L L_3 L_5 R_L g_m s^4 + C_3 C_L L_3 R_L g_m s^4}.$$

10.598 INVALID-ORDER-598 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_Ls^4 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_3L_5}{2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_Ls^4 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_3L_5}$$

10.599 INVALID-ORDER-599 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3s^4 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_3L_5}{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3s^4 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_3L_5}$$

10.600 INVALID-ORDER-600 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

$$H(s) = -\frac{C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_5L_LR_3s^5 + 2C_3C_5L_3L_5L_Lg_ms^5 + C_3C_5L_3L_5s^4 + 2C_3C_5L_5L_LR_3g_ms^4 + C_3C_5L_5L_Ls^4 + C_3C_5L_5R_3s^3 + C_3C_LL_3L_5L_Lg_ms^5 + C_3C_LL_3L_5L_L}{C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_5L_LR_3s^5 + 2C_3C_5L_3L_5L_Lg_ms^5 + C_3C_5L_3L_5s^4 + 2C_3C_5L_5L_LR_3g_ms^4 + C_3C_5L_5L_Ls^4 + C_3C_5L_5R_3s^3 + C_3C_LL_3L_5L_Lg_ms^5 + C_3C_LL_3L_5L_L}$$

10.601 INVALID-ORDER-601 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_Lg_ms^6 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_Ls^5 + 2C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5L_L}{2C_3C_5C_LL_3L_5L_Lg_ms^6 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_Ls^5 + 2C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5L_L}$$

10.602 INVALID-ORDER-602 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$

$$H(s) = -\frac{C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_5L_LR_3R_Ls^5 + 2C_3C_5L_3L_5L_LR_Lg_ms^5 + C_3C_5L_3L_5L_Ls^5 + C_3C_5L_3L_5R_Ls^4 + 2C_3C_5L_5L_LR_3R_Lg_ms^4 + C_3C_5L_5L_LR_3s^4 + C_3C_5L_5L_LR_L}{C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_5L_LR_3R_Ls^5 + 2C_3C_5L_3L_5L_LR_Lg_ms^5 + C_3C_5L_3L_5L_Ls^5 + C_3C_5L_3L_5R_Ls^4 + 2C_3C_5L_5L_LR_3R_Lg_ms^4 + C_3C_5L_5L_LR_3s^4 + C_3C_5L_5L_LR_L}$$

10.603 INVALID-ORDER-603 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_Lg_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + 2C_3C_5C_LL_5L_LR_3R_Lg_ms^5 + C_3C_5C_LL_5L_LR_3s^5 + C_3C_5C_LL_5L_LR_Ls^5 + 2C_3C_5L_3L_5L_Lg_ms^5 + 2C_3C_5L_3L_5R_Lg_ms^4 + \dots}{\dots}$$

10.604 INVALID-ORDER-604 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_Lq_ms^6 + C_3C_5C_LL_3L_5L_LS^6 + C_3C_5C_LL_3L_5R_LS^5 + 2C_3C_5C_LL_5L_LR_3R_Lq_ms^5 + C_3C_5C_LL_5L_LR_3S^5 + C_3C_5C_LL_5L_LR_LS^5 + C_3C_5C_LL_5R_3R_LS^4 + 2C_3C_5C_LL_5R_3S^4 + 2C_3C_5C_LL_5R_LS^4 + 2C_3C_5C_LL_5R_LS^4 + 2C_3C_5C_LL_5R_LS^4}{(s^2 + \gamma_1 s + \gamma_2)(s^2 + \gamma_3 s + \gamma_4)}.$$

10.605 INVALID-ORDER-605 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L \right)$

$$H(s) = \frac{R_L (C_3 L_3 s^2 + C_3 R_3 s + 1) (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_L g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 L_5 R_L g_m s^3 + C_3 C_5 R_3 R_5 g_m s^2 + 2 C_3 C_5 R_3 R_L g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 R_L$$

10.606 INVALID-ORDER-606 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 s^2 + C_3 R_3 s + 1)(C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s - C_5 R_5)}{s(C_3 C_5 C_L L_3 L_5 g_m s^4 + C_3 C_5 C_L L_3 R_5 g_m s^3 + C_3 C_5 C_L L_3 s^3 + C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L R_3 R_5 g_m s^2 + C_3 C_5 C_L R_3 s^2 + 2C_3 C_5 L_3 g_m s^2 + C_3 C_5 L_5 g_m s^2 + 2C_3 C_5 R_3 g_m s + C_3 C_5 R_5)}$$

10.607 INVALID-ORDER-607 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 R_5 g_m s^3}{C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 R_5 g_m s^3}$$

10.608 INVALID-ORDER-608 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{1}{s(C_3C_5C_LL_3L_5g_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5R_3g_ms^3 + C_3C_5C_LL_5R_Lg_ms^3 + C_3C_5C_LL_3R_5g_ms^2 + 2C_3C_5C_LL_3R_Lg_ms^2}$$

10.609 INVALID-ORDER-609 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{s(C_3C_5C_LL_3L_5g_ms^4 + 2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5L_Lg_ms^4 + C_3C_5C_LL_5R_3g_ms^3 + 2C_3C_5C_LL_LR_3g_ms^3 + C_3C_5C_LL_LR_5g_ms^3}{s^2(C_3C_5C_LL_3L_5g_ms^4 + 2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5L_Lg_ms^4 + C_3C_5C_LL_5R_3g_ms^3 + 2C_3C_5C_LL_LR_3g_ms^3 + C_3C_5C_LL_LR_5g_ms^3)}$$

10.610 INVALID-ORDER-610 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} \right)$

10.611 INVALID-ORDER-611 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{s(C_3C_5C_L L_3L_5g_ms^4 + 2C_3C_5C_LL_3L_Lg_ms^4 + C_3C_5C_LL_3R_5g_ms^3 + 2C_3C_5C_LL_3R_Lg_ms^3 + C_3C_5C_LL_3s^3 + C_3C_5C_LL_5L_Lg_ms^4 + C_3C_5C_LL_5R_3g_ms^3 + C_3C_5C_LL_5R_Lg_ms^3}{s^6}$$

10.612 INVALID-ORDER-612 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L + \frac{1}{L_Ls}}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_3 L_5 L_L g_m s^4}{C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + C_3 C_5 L_3 L_5 L_L g_m s^4}.$$

10.613 INVALID-ORDER-613 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_L L_L s^2 + 1} + R_L \right)$

10.614 INVALID-ORDER-614 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

10.615 INVALID-ORDER-615 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$

$$H(s) = -\frac{2C_3C_5L_3L_5R_5R_Lq_ms^4 + C_3C_5L_3L_5R_5s^4 + 2C_3C_5L_5R_3R_5R_Lq_ms^3 + C_3C_5L_5R_3R_5s^3 + C_3C_5L_5R_5R_Ls^3 + C_3L_3L_5R_5q_ms^3 + 2C_3L_3L_5R_Lq_ms^3 + C_3L_3L_5s^3 + 2C_3L_3R_5I}{2C_3C_5L_3L_5R_5R_Lq_ms^4 + C_3C_5L_3L_5R_5s^4 + 2C_3C_5L_5R_3R_5R_Lq_ms^3 + C_3C_5L_5R_3R_5s^3 + C_3C_5L_5R_5R_Ls^3 + C_3L_3L_5R_5q_ms^3 + 2C_3L_3L_5R_Lq_ms^3 + C_3L_3L_5s^3 + 2C_3L_3R_5I}$$

10.616 INVALID-ORDER-616 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5 + \frac{1}{L_5 s}}}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 s^5 + C_3 C_5 C_L L_5 R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_5 s^3 + C_3 C_L L_3 L_5 R_5 g_m s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_3 R_5 s^3 + C_3 C_L L_5 R_3 s^3}{C_3 C_5 C_L L_3 L_5 R_5 s^5 + C_3 C_5 C_L L_5 R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_5 R_3 R_5 g_m s^3 + C_3 C_5 L_5 R_5 s^3 + C_3 C_L L_3 L_5 R_5 g_m s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_3 R_5 s^3 + C_3 C_L L_5 R_3 s^3}$$

10.617 INVALID-ORDER-617 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5 + \frac{1}{L_5 s}}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L s^4 + 2 C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + 2 C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_L L_3 L_5 R_5}{C_3 C_5 C_L L_3 L_5 R_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L s^4 + 2 C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + 2 C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_L L_3 L_5 R_5}$$

$$10.618 \quad \text{INVALID-ORDER-618} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_5s^5 + 2C_3C_5C_LL_5R_3R_5R_Lg_ms^4 + C_3C_5C_LL_5R_3R_5s^4 + C_3C_5C_LL_5R_5R_Ls^4 + 2C_3C_5L_3L_5R_5g_ms^4 + 2C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5s^3}{C_3C_5C_LL_3L_5R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_5s^5 + 2C_3C_5C_LL_5R_3R_5R_Lg_ms^4 + C_3C_5C_LL_5R_3R_5s^4 + C_3C_5C_LL_5R_5R_Ls^4 + 2C_3C_5L_3L_5R_5g_ms^4 + 2C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5s^3}$$

$$10.619 \quad \text{INVALID-ORDER-619} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5R_5s^5 + 2C_3C_5C_LL_5L_LR_3R_5g_ms^5 + C_3C_5C_LL_5L_LR_5s^5 + C_3C_5C_LL_5R_3R_5s^4 + 2C_3C_5L_3L_5R_5g_ms^4 + 2C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5s^3}{C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5R_5s^5 + 2C_3C_5C_LL_5L_LR_3R_5g_ms^5 + C_3C_5C_LL_5L_LR_5s^5 + C_3C_5C_LL_5R_3R_5s^4 + 2C_3C_5L_3L_5R_5g_ms^4 + 2C_3C_5L_5R_3R_5g_ms^3 + C_3C_5L_5R_5s^3}$$

$$10.620 \quad \text{INVALID-ORDER-620} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$$

$$H(s) = -\frac{C_3C_5C_LL_3L_5L_LR_5s^6 + C_3C_5C_LL_5L_LR_3R_5s^5 + 2C_3C_5L_3L_5L_LR_5g_ms^5 + C_3C_5L_3L_5R_5s^4 + 2C_3C_5L_5L_LR_3R_5g_ms^4 + C_3C_5L_5L_LR_5s^4 + C_3C_5L_5R_3R_5s^3 + C_3C_LL_3L_5L_LR_5s^3}{C_3C_5C_LL_3L_5L_LR_5s^6 + C_3C_5C_LL_5L_LR_3R_5s^5 + 2C_3C_5L_3L_5L_LR_5g_ms^5 + C_3C_5L_3L_5R_5s^4 + 2C_3C_5L_5L_LR_3R_5g_ms^4 + C_3C_5L_5L_LR_5s^4 + C_3C_5L_5R_3R_5s^3 + C_3C_LL_3L_5L_LR_5s^3}$$

$$10.621 \quad \text{INVALID-ORDER-621} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_5g_ms^6 + 2C_3C_5C_LL_3L_5R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_5s^5 + 2C_3C_5C_LL_5L_LR_3R_5g_ms^5 + C_3C_5C_LL_5L_LR_5s^5 + 2C_3C_5C_LL_5R_3R_5R_Lg_ms^4 + C_3C_5C_LL_5R_5s^4}{2C_3C_5C_LL_3L_5L_LR_5g_ms^6 + 2C_3C_5C_LL_3L_5R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_5s^5 + 2C_3C_5C_LL_5L_LR_3R_5g_ms^5 + C_3C_5C_LL_5L_LR_5s^5 + 2C_3C_5C_LL_5R_3R_5R_Lg_ms^4 + C_3C_5C_LL_5R_5s^4}$$

$$10.622 \quad \text{INVALID-ORDER-622} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$$

$$H(s) = -\frac{C_3C_5C_LL_3L_5L_LR_5R_Ls^6 + C_3C_5C_LL_5L_LR_3R_5R_Ls^5 + 2C_3C_5L_3L_5L_LR_5R_Lg_ms^5 + C_3C_5L_3L_5L_LR_5s^5 + C_3C_5L_3L_5R_5R_Ls^4 + 2C_3C_5L_5L_LR_3R_5R_Lg_ms^4 + C_3C_5L_5L_LR_3R_5s^4}{C_3C_5C_LL_3L_5L_LR_5R_Ls^6 + C_3C_5C_LL_5L_LR_3R_5R_Ls^5 + 2C_3C_5L_3L_5L_LR_5R_Lg_ms^5 + C_3C_5L_3L_5L_LR_5s^5 + C_3C_5L_3L_5R_5R_Ls^4 + 2C_3C_5L_5L_LR_3R_5R_Lg_ms^4 + C_3C_5L_5L_LR_3R_5s^4}$$

10.623 INVALID-ORDER-623 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_L L_3L_5L_LR_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_5s^6 + 2C_3C_5C_LL_5L_LR_3R_5R_Lg_ms^5 + C_3C_5C_LL_5L_LR_3R_5s^5 + C_3C_5C_LL_5L_LR_5R_Ls^5 + 2C_3C_5L_3L_5L_LR_5g_ms^5 + 2C_3C_5$$

10.624 INVALID-ORDER-624 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_5s^6 + C_3C_5C_LL_3L_5R_5R_Ls^5 + 2C_3C_5C_LL_5L_LR_3R_5R_Lg_ms^5 + C_3C_5C_LL_5L_LR_3R_5s^5 + C_3C_5C_LL_5L_LR_5R_Ls^5 + C_3C_5C$$

10.625 INVALID-ORDER-625 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$

$$H(s) = \frac{R_L (C_3 L_3 s^2 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 L_3 L_5 g_m s^3)}{C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_L s^3 + C_3 L_3 L_5 g_m s^3}$$

10.626 INVALID-ORDER-626 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3C_5C_LL_3L_5R_5g_ms^5 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + C_3C_5C_LL_5R_3s^4 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_3L_5g_ms^3 + C_3C_LL_3L_5s^3 + C_3C_LL_5R_3g_ms^2 + C_3C_LL_5R_3s^2 + C_3C_LL_5R_5g_ms^2 + C_3C_LL_5R_5s^2 + C_3C_LL_5s^2 + C_3C_LLs^2 + C_3C_Ls^2 + C_3Cs^2 + C_3s^2)}{C_3C_5C_LL_3L_5R_5g_ms^5 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + C_3C_5C_LL_5R_3s^4 + 2C_3C_5L_3L_5g_ms^4 + 2C_3C_5L_5R_3g_ms^3 + C_3C_5L_5R_5g_ms^3 + C_3C_5L_5s^3 + C_3C_LL_3L_5g_ms^3 + C_3C_LL_3L_5s^3 + C_3C_LL_5R_3g_ms^2 + C_3C_LL_5R_3s^2 + C_3C_LL_5R_5g_ms^2 + C_3C_LL_5R_5s^2 + C_3C_LL_5s^2 + C_3C_LLs^2 + C_3C_Ls^2 + C_3Cs^2 + C_3s^2}.$$

10.627 INVALID-ORDER-627 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 R_5 s^4}{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 R_5 s^4}$$

$$10.628 \quad \text{INVALID-ORDER-628} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + 2C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_5R_Lg_ms^4 + C_3C_5C_LL_5R_5s^4}{C_3C_5C_LL_3L_5R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + 2C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_5R_Lg_ms^4 + C_3C_5C_LL_5R_5s^4}$$

$$10.629 \quad \text{INVALID-ORDER-629} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, L_Ls + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_5g_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_LR_5g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_5R_Lg_ms^4 + C_3C_5C_LL_5R_5s^4}{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_5g_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_LR_5g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_5R_Lg_ms^4 + C_3C_5C_LL_5R_5s^4}$$

$$10.630 \quad \text{INVALID-ORDER-630} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{L_Ls}{C_LL_Ls^2+1} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_5L_LR_3R_5g_ms^5 + C_3C_5C_LL_5L_LR_3s^5 + 2C_3C_5L_3L_5L_Lg_ms^5 + C_3C_5L_3L_5R_5g_ms^4 + C_3C_5L_3L_5s^4 + 2C_3C_5L_5L_LR_3R_5g_ms^4 + C_3C_5L_5L_LR_3s^4 + 2C_3C_5L_5L_LR_5R_3g_ms^4 + C_3C_5L_5L_LR_5s^4}{C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_5L_LR_3R_5g_ms^5 + C_3C_5C_LL_5L_LR_3s^5 + 2C_3C_5L_3L_5L_Lg_ms^5 + C_3C_5L_3L_5R_5g_ms^4 + C_3C_5L_3L_5s^4 + 2C_3C_5L_5L_LR_3R_5g_ms^4 + C_3C_5L_5L_LR_3s^4 + 2C_3C_5L_5L_LR_5R_3g_ms^4 + C_3C_5L_5L_LR_5s^4}$$

$$10.631 \quad \text{INVALID-ORDER-631} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_LR_5g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_5R_Lg_ms^4 + C_3C_5C_LL_5R_5s^4}{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_LR_5g_ms^5 + C_3C_5C_LL_5L_Ls^5 + C_3C_5C_LL_5R_3R_5g_ms^4 + C_3C_5C_LL_5R_3R_Lg_ms^4 + C_3C_5C_LL_5R_3s^4 + C_3C_5C_LL_5R_5R_Lg_ms^4 + C_3C_5C_LL_5R_5s^4}$$

$$10.632 \quad \text{INVALID-ORDER-632} \quad Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{L_5s}{C_5L_5s^2+1} + R_5, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5L_LR_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_5L_LR_3R_5R_Lg_ms^5 + C_3C_5C_LL_5L_LR_3R_Ls^5 + C_3C_5L_3L_5L_LR_5g_ms^5 + 2C_3C_5L_3L_5L_LR_Lg_ms^5 + C_3C_5L_3L_5s^5 + C_3C_5L_5L_LR_3R_5R_Lg_ms^4 + C_3C_5L_5L_LR_3R_Ls^4 + C_3C_5L_5L_LR_5R_3R_5g_ms^4 + C_3C_5L_5L_LR_5R_3s^4 + C_3C_5L_5L_LR_5R_5R_3g_ms^4 + C_3C_5L_5L_LR_5R_5s^4}{C_3C_5C_LL_3L_5L_LR_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_5L_LR_3R_5R_Lg_ms^5 + C_3C_5C_LL_5L_LR_3R_Ls^5 + C_3C_5L_3L_5L_LR_5g_ms^5 + 2C_3C_5L_3L_5L_LR_Lg_ms^5 + C_3C_5L_3L_5s^5 + C_3C_5L_5L_LR_3R_5R_Lg_ms^4 + C_3C_5L_5L_LR_3R_Ls^4 + C_3C_5L_5L_LR_5R_3R_5g_ms^4 + C_3C_5L_5L_LR_5R_3s^4 + C_3C_5L_5L_LR_5R_5R_3g_ms^4 + C_3C_5L_5L_LR_5R_5s^4}$$

10.633 INVALID-ORDER-633 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 q_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L q_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_5 L_L R_3 R_5 q_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_L q_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_5 L_L L$$

10.634 INVALID-ORDER-634 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L (L_L s + \frac{1}{C_L s})}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_5 q_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L q_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L q_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 q_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 s^5}{C_3 C_5 C_L L_3 L_5 L_L R_5 q_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L q_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L q_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 q_m s^5 + 2 C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 s^5}$$

10.635 INVALID-ORDER-635 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$

$$H(s) = -\frac{C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 R_5$$

10.636 INVALID-ORDER-636 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 q_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + C_3 C_5 C_L L_3 R_5 s^4 + C_3 C_5 C_L L_5 R_3 R_5 q_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L R_3 R_5 s^3 + 2 C_3 C_5 L_3 L_5 q_m s^4 + 2 C_3 C_5 L_3 R_5 q_m s^3 + 2 C_3 C_5 L_5 R_3 q_m s^3 + 2 C_3 C_5 L_5 R_3 s^3 + 2 C_3 C_5 R_3 R_5 s^2}{C_3 C_5 C_L L_3 L_5 R_5 q_m s^6 + C_3 C_5 C_L L_3 L_5 s^6 + C_3 C_5 C_L L_3 R_5 s^5 + C_3 C_5 C_L L_5 R_3 R_5 q_m s^5 + C_3 C_5 C_L L_5 R_3 s^5 + C_3 C_5 C_L R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_5 q_m s^5 + 2 C_3 C_5 L_3 R_5 q_m s^4 + 2 C_3 C_5 L_5 R_3 q_m s^4 + 2 C_3 C_5 L_5 R_3 s^4 + 2 C_3 C_5 R_3 R_5 s^3}.$$

10.637 INVALID-ORDER-637 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5}{C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_3 R_5 R_L s^4 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L s^3 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + 2 C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5}$$

10.638 INVALID-ORDER-638 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 s^5 + 2 C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_5 s^4 + C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5$$

10.639 INVALID-ORDER-639 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_5g_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3R_5s^4 + 2C_3C_5C_LL_5L_LR_3g_ms^5 + C_3C_5C_LL_5L_LR_5g_ms^5 + C_3C_5$$

10.640 INVALID-ORDER-640 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_L R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5}{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + C_3 C_5 C_L L_L R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5}.$$

10.641 INVALID-ORDER-641 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5 \left(L_5s + \frac{1}{C_5s} \right)}{L_5s + R_5 + \frac{1}{C_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_Lg_ms^6 + C_3C_5C_LL_3L_5R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_Lg_ms^5 + C_3C_5C_LL_3L_5s^5 + 2C_3C_5C_LL_3L_LR_5g_ms^5 + 2C_3C_5C_LL_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_5s^4 + 2C_3$$

10.642 INVALID-ORDER-642 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L s^4 + C_3 C_5 L_3$$

10.643 INVALID-ORDER-643 $Z(s) = \left(\infty, \infty, L_3 s + R_3 + \frac{1}{C_3 s}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + 2 C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_5 L}{...}$$

10.644 INVALID-ORDER-644 $Z(s) = \left(\infty, \infty, L_3s + R_3 + \frac{1}{C_3s}, \infty, \frac{R_5 \left(L_5s + \frac{1}{C_5s} \right)}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5}{C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5}.$$

10.645 INVALID-ORDER-645 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 R_3 s (R_5 g_m - 1) (C_L R_L s + 1)}{C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + C_L L_3 R_3 R_5 g_m s^2 + 2 C_L L_3 R_3 R_L g_m s^2 + C_L L_3 R_3 s^2 + C_L L_3 R_5 R_L g_m s^2 + C_L L_3 R_L s^2 + C_L R_3 R_5}$$

10.646 INVALID-ORDER-646 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_3 R_3 s (R_5 g_m - 1) (C_L L_L s^2 + 1)}{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + 2 C_L L_3 L_L R_3 g_m s^3 + C_L L_3 L_L R_5 g_m s^3 + C_L L_3 L_L s^3 + C_L L_3 R_3 R_5 g_m s^2 + C_L L_3 R_3 s^2 + C_L L_L R_3 s}$$

10.647 INVALID-ORDER-647 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_3 R_3 s}{C_3 C_L L_3 L_L R_3 R_5 q_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 R_3 R_5 R_L q_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 q_m s^2 + C_3 L_3 R_3 s^2 + 2 C_L L_3 L_L R_3 q_m s^3 + C_L L_3 L_L R_5 q_m s^3 + C_L L_3 L_L s^3}$$

10.648 INVALID-ORDER-648 $Z(s) = \left(\infty, \infty, \frac{1}{C_{3s} + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_L R_3 R_5 g_m s^3 + C_3 L_3 L_L R_3 s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_L L_3 L_L R_3 R_5 g_m s^3 + 2 C_L L_3 L_L R_3 R_L g_m s^3 +$$

10.649 INVALID-ORDER-649 $Z(s) = \left(\infty, \infty, \frac{1}{C_{3s} + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{L_3 R_3 R_L s (I_3 + I_4)}{C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_L L_3 L_L R_3 R_5 g_m s^3 + 2 C_L L_3 L_L R_3 R_L g_m s^3 + C_L L_3 L_L R_3 s^3 + C_L L_3 L_L R_5 R_L g_m s^3}$$

10.650 INVALID-ORDER-650 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{L_3 R_3 R_L s (-C_5 s + g_m)}{C_3 C_5 L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_L g_m s^2 + 2 C_5 L_3 R_3 R_L g_m s^2 + C_5 L_3 R_3 s^2 + C_5 L_3 R_L s^2 + C_5 R_3 R_L s + L_3 R_3 g_m s + L_3 R_L g_m s + R_3 R_L g_m}$$

10.651 INVALID-ORDER-651 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_3 R_3 s (-C_5 s + g_m)}{C_3 C_5 L_3 R_3 s^3 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 R_3 s^3 + 2 C_5 L_3 R_3 g_m s^2 + C_5 L_3 s^2 + C_5 R_3 s + C_L L_3 R_3 g_m s^2 + L_3 g_m s + R_3 g_m}$$

10.652 INVALID-ORDER-652 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_3 R_L s (-C_5 s + g_m)}{C_3 C_5 L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_L g_m s^2 + C_5 C_L L_3 R_3 R_L s^3 + 2C_5 L_3 R_3 R_L g_m s^2 + C_5 L_3 R_3 s^2 + C_5 L_3 R_L s^2 + C_5 R_3 R_L s + C_L L_3 R_3 R_L g_m s^2 + L_3 R_3 g_m s + L_3 R_L g_m s + R_3 R_L g_m}$$

$$10.653 \quad \text{INVALID-ORDER-653} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{L_3 R_3 s (C_5 s - g_m) (C_L R_L s + 1)}{C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 L_3 R_3 g_m s^2 + 2C_5 C_L L_3 R_3 R_L g_m s^3 + C_5 C_L L_3 R_3 s^3 + C_5 C_L L_3 R_L s^3 + C_5 C_L R_3 R_L s^2 + 2C_5 L_3 R_3 g_m s^2 + C_5 L_3 R_3 s^2}$$

$$10.654 \quad \text{INVALID-ORDER-654} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{L_3 R_3 s (C_5 s - g_m) (C_L L_L s^2 + 1)}{C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 L_3 R_3 g_m s^2 + 2C_5 C_L L_3 L_L R_3 g_m s^4 + C_5 C_L L_3 L_L s^4 + C_5 C_L L_3 R_3 s^3 + C_5 C_L L_L R_3 s^3 + 2C_5 L_3 R_3 g_m s^2 + C_5 L_3 R_3 s^2}$$

$$10.655 \quad \text{INVALID-ORDER-655} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{L_3 L_L R_3 s (-C_5 s + g_m)}{C_3 C_5 L_3 L_L R_3 s^3 + C_3 L_3 L_L R_3 g_m s^2 + C_5 C_L L_3 L_L R_3 s^3 + 2C_5 L_3 L_L R_3 g_m s^2 + C_5 L_3 L_L s^2 + C_5 L_3 R_3 s + C_5 L_L R_3 s + C_L L_3 L_L R_3 g_m s^2 + L_3 L_L g_m s + L_3 R_3 g_m + L_L R_3 g_m}$$

$$10.656 \quad \text{INVALID-ORDER-656} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 L_3 R_3 g_m s^2 + 2C_5 C_L L_3 L_L R_3 g_m s^4 + C_5 C_L L_3 L_L s^4 + 2C_5 C_L L_3 R_3 s^3 + C_5 C_L L_3 R_L s^3 + C_5 C_L R_3 R_L s^2 + C_5 L_3 R_3 g_m s^2 + C_5 L_3 R_3 s^2 + C_5 L_L R_3 s^2 + C_5 L_3 R_3 R_L s + C_5 L_L R_3 R_L s + C_L L_3 L_L R_3 R_L g_m s^2 + L_3 L_L g_m s + L_3 R_3 g_m + L_L R_3 g_m}{C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 L_3 R_3 g_m s^2 + 2C_5 C_L L_3 L_L R_3 g_m s^4 + C_5 C_L L_3 L_L s^4 + 2C_5 C_L L_3 R_3 s^3 + C_5 C_L L_3 R_L s^3 + C_5 C_L R_3 R_L s^2 + C_5 L_3 R_3 g_m s^2 + C_5 L_3 R_3 s^2 + C_5 L_L R_3 s^2 + C_5 L_3 R_3 R_L s + C_5 L_L R_3 R_L s + C_L L_3 L_L R_3 R_L g_m s^2 + L_3 L_L g_m s + L_3 R_3 g_m + L_L R_3 g_m}$$

$$10.657 \quad \text{INVALID-ORDER-657} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{L_3 L_L R_3 R_L s (-C_5 s + g_m)}{C_3 C_5 L_3 L_L R_3 R_L s^3 + C_3 L_3 L_L R_3 R_L g_m s^2 + C_5 C_L L_3 L_L R_3 R_L s^3 + 2C_5 L_3 L_L R_3 R_L g_m s^2 + C_5 L_3 L_L R_3 s^2 + C_5 L_3 L_L R_L s^2 + C_5 L_3 R_3 R_L s + C_5 L_L R_3 R_L s + C_L L_3 L_L R_3 R_L g_m s^2 + L_3 L_L g_m s + L_3 R_3 g_m + L_L R_3 g_m}$$

$$10.658 \quad \text{INVALID-ORDER-658} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 R_3 R_L g_m s^2 + 2C_5 C_L L_3 L_L R_3 R_L g_m s^4 + C_5 C_L L_3 L_L R_3 s^4}{L_3 R_3}$$

$$10.659 \quad \text{INVALID-ORDER-659} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 R_3 R_L g_m s^2 + 2C_5 C_L L_3 L_L R_3 R_L g_m s^4 + C_5 C_L L_3 L_L R_3 s^4 + C_5 C_L L_3 L_L R_L s^4 + C_5 C_L L_3 R_3 R_L s^3}{L_3 R_3}$$

$$10.660 \quad \text{INVALID-ORDER-660} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$$

$$H(s) = \frac{L_3 R_3 R_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + 2C_5 L_3 R_3 R_5 R_L g_m s^2 + C_5 L_3 R_3 R_5 s^2 + C_5 L_3 R_5 R_L s^2 + C_5 R_3 R_5 R_L s + L_3 R_3 R_5 g_m s + 2L_3 R_3 R_L g_m s + L_3 R_3 s}$$

$$10.661 \quad \text{INVALID-ORDER-661} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_3 R_3 s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + C_5 C_L L_3 R_3 R_5 s^3 + 2C_5 L_3 R_3 R_5 g_m s^2 + C_5 L_3 R_5 s^2 + C_5 R_3 R_5 s + C_L L_3 R_3 R_5 g_m s^2 + C_L L_3 R_3 s^2 + 2L_3 R_3 g_m s + L_3 R_5 g_m s}$$

$$10.662 \quad \text{INVALID-ORDER-662} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_3 R_3 R_L s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_5 C_L L_3 R_3 R_5 R_L s^3 + 2C_5 L_3 R_3 R_5 R_L g_m s^2 + C_5 L_3 R_3 R_5 s^2 + C_5 L_3 R_5 R_L s^2 + C_5 R_3 R_5 R_L s + C_L L_3 R_3 R_5 R_L g_m s}$$

10.663 INVALID-ORDER-663 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + 2C_5 C_L L_3 R_3 R_5 R_L g_m s^3 + C_5 C_L L_3 R_3 R_5 s^3 + C_5 C$$

10.664 INVALID-ORDER-664 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + 2 C_5 C_L L_3 L_L R_3 R_5 g_m s^4 + C_5 C_L L_3 L_L R_5 s^4 + C_5 C_L$$

10.665 INVALID-ORDER-665 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L R_3 s (-C_5 R_5 s + R_5 g_m - 1)}{C_3 C_5 L_3 L_L R_3 R_5 s^3 + C_3 L_3 L_L R_3 R_5 g_m s^2 + C_3 L_3 L_L R_3 s^2 + C_5 C_L L_3 L_L R_3 R_5 s^3 + 2 C_5 L_3 L_L R_3 R_5 g_m s^2 + C_5 L_3 L_L R_5 s^2 + C_5 L_3 R_3 R_5 s + C_5 L_L R_3 R_5 s + C_L L_3 L_L R_3 R_5 g_m s^2 +}$$

10.666 INVALID-ORDER-666 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2}{C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2}$$

10.667 INVALID-ORDER-667 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L}{C_3 C_5 L_3 L_L R_3 R_5 R_L s^3 + C_3 L_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_3 L_L R_3 R_L s^2 + C_5 C_L L_3 L_L R_3 R_5 R_L s^3 + 2 C_5 L_3 L_L R_3 R_5 R_L g_m s^2 + C_5 L_3 L_L R_3 R_5 s^2 + C_5 L_3 L_L R_5 R_L s^2 + C_5 L_3 R_3 R_5 R_L}$$

$$10.668 \quad \text{INVALID-ORDER-668} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_L R_3 R_5 s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_L R_3 R_5 g_m s^3 + C_3 L_3 L_L R_3 s^3 + C_3 L_3 R_3 R_5}{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_L R_3 R_5 s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_L R_3 R_5 g_m s^3 + C_3 L_3 L_L R_3 s^3 + C_3 L_3 R_3 R_5}$$

$$10.669 \quad \text{INVALID-ORDER-669} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + 2C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_5 L_3 R_3 R_5 R_L g_m s^2 + C_5 L_3 R_3 R_L s^2 + C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5}{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + 2C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_5 L_3 R_3 R_5 R_L g_m s^2 + C_5 L_3 R_3 R_L s^2 + C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5}$$

$$10.670 \quad \text{INVALID-ORDER-670} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$$

$$H(s) = \frac{L_3 R_3 R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_L g_m s^2 + C_5 L_3 R_3 R_5 g_m s^2 + 2C_5 L_3 R_3 R_L g_m s^2 + C_5 L_3 R_3 s^2 + C_5 L_3 R_5 R_L g_m s^2 + C_5 L_3 R_L s^2 + C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5}$$

$$10.671 \quad \text{INVALID-ORDER-671} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{L_3 R_3 s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 R_3 R_5 g_m s^3 + C_5 C_L L_3 R_3 s^3 + 2C_5 L_3 R_3 g_m s^2 + C_5 L_3 R_5 g_m s^2 + C_5 L_3 s^2 + C_5 R_3 R_5 g_m s + C_5 R_3 s + C_L L_3 R_3 g_m s}$$

$$10.672 \quad \text{INVALID-ORDER-672} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{L_3 R_3 R_L s (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_L g_m s^2 + C_5 C_L L_3 R_3 R_5 R_L g_m s^3 + C_5 C_L L_3 R_3 R_L s^3 + C_5 L_3 R_3 R_5 g_m s^2 + 2C_5 L_3 R_3 R_L g_m s^2 + C_5 L_3 R_3 s^2 + C_5 L_3 R_5 R_L g_m s + C_5 L_3 R_5 R_L s + C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_5}$$

$$10.673 \quad \text{INVALID-ORDER-673} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_Ls^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3R_3R_Lg_ms^3 + C_3L_3R_3g_ms^2 + C_5C_LL_3R_3R_5g_ms^3 + 2C_5C_LL_3R_3R_Lg_ms^3 + C_5L_3R_3g_ms^2 + C_5L_3R_3s^2 + C_5L_3R_3s}{C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_Ls^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3R_3R_Lg_ms^3 + C_3L_3R_3g_ms^2 + C_5C_LL_3R_3R_5g_ms^3 + 2C_5C_LL_3R_3R_Lg_ms^3 + C_5L_3R_3g_ms^2 + C_5L_3R_3s^2 + C_5L_3R_3s}$$

$$10.674 \quad \text{INVALID-ORDER-674} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3L_LR_3g_ms^4 + C_3L_3R_3g_ms^2 + 2C_5C_LL_3L_LR_3g_ms^4 + C_5C_LL_3L_LR_5g_ms^4 + C_5L_3L_LR_3R_5g_ms^3 + C_5L_3L_LR_3s^3 + C_5L_3L_LR_3g_ms^2 + C_5L_3L_LR_3s^2 + C_5L_3L_LR_3s}{C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3L_LR_3g_ms^4 + C_3L_3R_3g_ms^2 + 2C_5C_LL_3L_LR_3g_ms^4 + C_5C_LL_3L_LR_5g_ms^4 + C_5L_3L_LR_3R_5g_ms^3 + C_5L_3L_LR_3s^3 + C_5L_3L_LR_3g_ms^2 + C_5L_3L_LR_3s^2 + C_5L_3L_LR_3s}$$

$$10.675 \quad \text{INVALID-ORDER-675} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LLs^2 + 1} \right)$$

$$H(s) = \frac{L_3L_LR_3s(C_5R_5g_ms - C_5s + g_m)}{C_3C_5L_3L_LR_3R_5g_ms^3 + C_3C_5L_3L_LR_3s^3 + C_3L_3L_LR_3g_ms^2 + C_5C_LL_3L_LR_3R_5g_ms^3 + C_5C_LL_3L_LR_3s^3 + 2C_5L_3L_LR_3g_ms^2 + C_5L_3L_LR_5g_ms^2 + C_5L_3L_LR_5s^2 + C_5L_3R_3R_5g_ms^3 + C_5L_3R_3s^3 + C_5L_3R_3g_ms^2 + C_5L_3R_3s^2 + C_5L_3R_3s}$$

$$10.676 \quad \text{INVALID-ORDER-676} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_Ls^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3L_LR_3g_ms^4 + C_3C_LL_3L_LR_3s^4 + C_3C_LL_3L_LR_3s^3 + C_3C_LL_3L_LR_3s^2 + C_3C_LL_3L_LR_3s}{C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_Ls^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3L_LR_3g_ms^4 + C_3C_LL_3L_LR_3s^4 + C_3C_LL_3L_LR_3s^3 + C_3C_LL_3L_LR_3s^2 + C_3C_LL_3L_LR_3s}$$

$$10.677 \quad \text{INVALID-ORDER-677} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$$

$$H(s) = \frac{L_3C_5L_3L_LR_3R_5R_Lg_ms^3 + C_3C_5L_3L_LR_3R_Ls^3 + C_3L_3L_LR_3R_Lg_ms^2 + C_5C_LL_3L_LR_3R_5R_Lg_ms^3 + C_5C_LL_3L_LR_3R_Ls^3 + C_5L_3L_LR_3R_5g_ms^2 + 2C_5L_3L_LR_3R_Lg_ms^2 + C_5L_3L_LR_3R_Ls^2 + C_5L_3L_LR_3R_Ls}{L_3C_5L_3L_LR_3R_5R_Lg_ms^3 + C_3C_5L_3L_LR_3R_Ls^3 + C_3L_3L_LR_3R_Lg_ms^2 + C_5C_LL_3L_LR_3R_5R_Lg_ms^3 + C_5C_LL_3L_LR_3R_Ls^3 + C_5L_3L_LR_3R_5g_ms^2 + 2C_5L_3L_LR_3R_Lg_ms^2 + C_5L_3L_LR_3R_Ls^2 + C_5L_3L_LR_3R_Ls}$$

10.678 INVALID-ORDER-678 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 l$$

10.679 INVALID-ORDER-679 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3 + \frac{1}{L_3 s}}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 R_3 R_L g_m s^2 + C_5 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_5 C_L L_3 L_L R_3 R_5 s^4}{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 R_3 R_L g_m s^2 + C_5 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_5 C_L L_3 L_L R_3 R_5 s^4}$$

10.680 INVALID-ORDER-680 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, R_L \right)$

$$H(s) = \frac{L_3 R_3 R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_L g_m s^2 + C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_3 L_5 R_L g_m s^3 + 2 C_5 L_3 R_3 R_L g_m s^2 + C_5 L_3 R_3 s^2 + C_5 L_3 R_L s^2 + C_5 L_5 R_3 R_L g_m s^2 + C_5 R_3}$$

10.681 INVALID-ORDER-681 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_3 R_3 s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 L_5 R_3 g_m s^4 + C_5 C_L L_3 R_3 s^3 + C_5 L_3 L_5 g_m s^3 + 2 C_5 L_3 R_3 g_m s^2 + C_5 L_3 s^2 + C_5 L_5 R_3 g_m s^2 + C_5 R_3 s + C_L L_3 R_3 g_m}$$

10.682 INVALID-ORDER-682 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{L_3 R_3 R_L s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_L g_m s^2 + C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + C_5 C_L L_3 R_3 R_L s^3 + C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_3 L_5 R_L g_m s^3 + 2 C_5 L_3 R_3 R_L g_m s^2 + C_5 L_3 R_3 R_L s}$$

10.683 INVALID-ORDER-683 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 L_5 R_3 g_m s^4 + C_5 C_L L_3 L_5 R_L g_m s^4 + 2C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + 2C_5 C_L L_3 L_5 R_L g_m s^4 + 2C_5 C_L L_3 L_5 R_3 R_L g_m s^4}{C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 L_5 R_3 g_m s^4 + C_5 C_L L_3 L_5 R_L g_m s^4 + 2C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + 2C_5 C_L L_3 L_5 R_L g_m s^4 + 2C_5 C_L L_3 L_5 R_3 R_L g_m s^4}$$

10.684 INVALID-ORDER-684 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 L_5 L_L g_m s^5 + C_5 C_L L_3 L_5 R_3 g_m s^4 + 2 C_5 C_L L_3 L_5 L_L R_3 g_m s^3 + C_5 C_L L_3 L_5 L_L R_3 s^2 + C_5 C_L L_3 L_5 R_3 s}{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 L_5 L_L g_m s^5 + C_5 C_L L_3 L_5 R_3 g_m s^4 + 2 C_5 C_L L_3 L_5 L_L R_3 g_m s^3 + C_5 C_L L_3 L_5 L_L R_3 s^2 + C_5 C_L L_3 L_5 R_3 s}$$

10.685 INVALID-ORDER-685 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L R_3 s (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_3 s^3 + C_3 L_3 L_L R_3 g_m s^2 + C_5 C_L L_3 L_5 L_L R_3 g_m s^4 + C_5 C_L L_3 L_L R_3 s^3 + C_5 L_3 L_5 L_L g_m s^3 + C_5 L_3 L_5 R_3 g_m s^2 + 2 C_5 L_3 L_L R_3 g_m s^2 + C_5 L_3 L_L$$

10.686 INVALID-ORDER-686 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 C_L L_3 R_3 R_L s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 C_L L_3 R_3 R_L s^4}$$

10.687 INVALID-ORDER-687 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_3}{C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L s^3 + C_3 L_3 L_L R_3 R_L g_m s^2 + C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^4 + C_5 C_L L_3 L_L R_3 R_L s^3 + C_5 L_3 L_5 L_L R_3 g_m s^3 + C_5 L_3 L_5 L_L R_L g_m s^3 + C_5 L_3 L_5 L_L R_L g_m s^2 + C_5 L_3 L_5 L_L R_L g_m s + C_5 L_3 L_5 L_L R_L}.$$

$$10.688 \quad \text{INVALID-ORDER-688} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2+1} + R_L \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_LR_3R_Ls^5 + C_3C_5L_3L_5L_LR_3g_ms^5 + C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3L_LR_3s^4 + C_3C_5L_3R_3R_Ls^3 + C_3C_LL_3L_LR_3R_Lg_ms^4 + C_3L_3R_3R_Lg_ms^2 + C_5C_LL_3L_5L_LR_3g_ms^5 + C_5C_LL_3L_5R_3R_Lg_ms^4 + C_5C_LL_3L_5R_3R_Ls^3 + C_5C_LL_3L_5R_3R_Ls^2 + C_5C_LL_3L_5R_3R_Ls + C_5C_LL_3L_5R_3R_L}{C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_LR_3R_Ls^5 + C_3C_5L_3L_5L_LR_3g_ms^5 + C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3L_LR_3s^4 + C_3C_5L_3R_3R_Ls^3 + C_3C_LL_3L_LR_3R_Lg_ms^4 + C_3L_3R_3R_Lg_ms^2 + C_5C_LL_3L_5L_LR_3g_ms^5 + C_5C_LL_3L_5R_3R_Lg_ms^4 + C_5C_LL_3L_5R_3R_Ls^3 + C_5C_LL_3L_5R_3R_Ls^2 + C_5C_LL_3L_5R_3R_Ls + C_5C_LL_3L_5R_3R_L}$$

$$10.689 \quad \text{INVALID-ORDER-689} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + \frac{1}{C_5s}, \frac{R_L(L_Ls + \frac{1}{C_Ls})}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_LR_3R_Ls^5 + C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3R_3R_Ls^3 + C_3C_LL_3L_LR_3R_Lg_ms^4 + C_3L_3R_3R_Lg_ms^2 + C_5C_LL_3L_5L_LR_3g_ms^5 + C_5C_LL_3L_5R_3R_Lg_ms^4 + C_5C_LL_3L_5R_3R_Ls^3 + C_5C_LL_3L_5R_3R_Ls^2 + C_5C_LL_3L_5R_3R_Ls + C_5C_LL_3L_5R_3R_L}{C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_LR_3R_Ls^5 + C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3R_3R_Ls^3 + C_3C_LL_3L_LR_3R_Lg_ms^4 + C_3L_3R_3R_Lg_ms^2 + C_5C_LL_3L_5L_LR_3g_ms^5 + C_5C_LL_3L_5R_3R_Lg_ms^4 + C_5C_LL_3L_5R_3R_Ls^3 + C_5C_LL_3L_5R_3R_Ls^2 + C_5C_LL_3L_5R_3R_Ls + C_5C_LL_3L_5R_3R_L}$$

$$10.690 \quad \text{INVALID-ORDER-690} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1}, R_L \right)$$

$$H(s) = \frac{L_3R_3R_Ls(-C_5L_5s^2 + L_5g_ms - 1)}{C_3C_5L_3L_5R_3R_Ls^4 + C_3L_3L_5R_3R_Lg_ms^3 + C_3L_3R_3R_Ls^2 + 2C_5L_3L_5R_3R_Lg_ms^3 + C_5L_3L_5R_3s^3 + C_5L_3L_5R_Ls^3 + C_5L_5R_3R_Ls^2 + L_3L_5R_3g_ms^2 + L_3L_5R_Lg_ms^2 + 2L_3R_3R_Ls + 2L_3R_3R_L}$$

$$10.691 \quad \text{INVALID-ORDER-691} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{L_3R_3s(-C_5L_5s^2 + L_5g_ms - 1)}{C_3C_5L_3L_5R_3s^4 + C_3L_3L_5R_3g_ms^3 + C_3L_3R_3s^2 + C_5C_LL_3L_5R_3s^4 + 2C_5L_3L_5R_3g_ms^3 + C_5L_3L_5s^3 + C_5L_5R_3s^2 + C_LL_3L_5R_3g_ms^3 + C_LL_3R_3s^2 + L_3L_5g_ms^2 + 2L_3R_3g_ms + 2L_3R_3R_L}$$

$$10.692 \quad \text{INVALID-ORDER-692} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{L_5s}{C_5L_5s^2+1}, \frac{R_L}{C_LR_Ls+1} \right)$$

$$H(s) = \frac{L_3R_3R_Ls(-C_5L_5s^2 + L_5g_ms - 1)}{C_3C_5L_3L_5R_3R_Ls^4 + C_3L_3L_5R_3R_Lg_ms^3 + C_3L_3R_3R_Ls^2 + C_5C_LL_3L_5R_3R_Ls^4 + 2C_5L_3L_5R_3R_Lg_ms^3 + C_5L_3L_5R_3s^3 + C_5L_3L_5R_Ls^3 + C_5L_5R_3R_Ls^2 + C_LL_3L_5R_3R_Lg_ms^3 + C_LL_3L_5R_3R_Ls^2 + C_LL_3L_5R_3R_Ls + C_LL_3L_5R_3R_L}$$

10.693 INVALID-ORDER-693 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 R_3 s^2 + 2C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + C_5 C_L L_3 L_5 R_3 s^4 + C_5 C_L$$

10.694 INVALID-ORDER-694 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 g_m s^5 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 R_3 s^2 + 2C_5 C_L L_3 L_5 L_L R_3 g_m s^5 + C_5 C_L L_3 L_5 L_L s^5 + C_5 C_L L_3 L_5 L_L R_3 s^4 + C_5 C_L L_3 L_5 L_L R_3 g_m s^3 + C_5 C_L L_3 L_5 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 g_m s}{C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 g_m s^5 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 R_3 s^2 + 2C_5 C_L L_3 L_5 L_L R_3 g_m s^5 + C_5 C_L L_3 L_5 L_L s^5 + C_5 C_L L_3 L_5 L_L R_3 s^4 + C_5 C_L L_3 L_5 L_L R_3 g_m s^3 + C_5 C_L L_3 L_5 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 g_m s}$$

10.695 INVALID-ORDER-695 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_3 L_L R_3 s (-C_5 L_5 s^2 + L_5 g_m s - 1)}{C_3 C_5 L_3 L_5 L_L R_3 s^4 + C_3 L_3 L_5 L_L R_3 g_m s^3 + C_3 L_3 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 s^4 + 2 C_5 L_3 L_5 L_L R_3 g_m s^3 + C_5 L_3 L_5 L_L s^3 + C_5 L_3 L_5 R_3 s^2 + C_5 L_5 L_L R_3 s^2 + C_L L_3 L_5 L_L R_3 g_m s^3}$$

10.696 INVALID-ORDER-696 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 q_m s^5 + C_3 C_L L_3 L_5 R_3 R_L q_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 L_5 R_3 q_m s^2}{C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 q_m s^5 + C_3 C_L L_3 L_5 R_3 R_L q_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 L_5 R_3 q_m s^2 + C_3 L_3 L_5 R_3 s^2 + C_3 L_3 R_3 R_L s^2 + C_3 L_3 R_3 s^2 + C_3 L_5 R_3 s^2 + C_3 R_3 s^2 + C_3 s^2}.$$

10.697 INVALID-ORDER-697 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{1}{C_3 C_5 L_3 L_5 L_L R_3 R_L s^4 + C_3 L_3 L_5 L_L R_3 R_L q_m s^3 + C_3 L_3 L_L R_3 R_L s^2 + C_5 C_L L_3 L_5 L_L R_3 R_L s^4 + 2 C_5 L_3 L_5 L_L R_3 R_L q_m s^3 + C_5 L_3 L_5 L_L R_3 s^3 + C_5 L_3 L_5 L_L R_L s^3 + C_5 L_3 L_5 R_3 R_L s^2 + C_5 L_3 L_5 R_3 s^2 + C_5 L_3 L_5 R_L s^2 + C_5 L_3 L_5 s^2 + C_5 L_3 R_3 R_L s^2 + C_5 L_3 R_3 s^2 + C_5 L_3 R_L s^2 + C_5 L_3 s^2 + C_5 R_3 R_L s^2 + C_5 R_3 s^2 + C_5 R_L s^2 + C_5 s^2}$$

10.698 INVALID-ORDER-698 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_5 L_L R_3 g_m s^4 + C_3 L_3 L_5 R_3 R_L g_m s^3 + C_3 L_3}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_5 L_L R_3 g_m s^4 + C_3 L_3 L_5 R_3 R_L g_m s^3 + C_3 L_3}$$

10.699 INVALID-ORDER-699 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_5 R_3 R_L g_m s^3 + C_3 L_3 R_3 R_L s^2 + 2 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_5 R_3 R_L g_m s^3 + C_3 L_3 R_3 R_L s^2 + 2 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_5}$$

10.700 INVALID-ORDER-700 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{L_3 R_3 R_L s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_L g_m s^2 + C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_3 L_5 R_L g_m s^3 + C_5 L_3 R_3 R_5 g_m s^2 + 2 C_5 L_3 R_3 R_L g_m s^2 + C_5 L_3 R_3 R_L s^2 + C_5 L_3 R_3 R_L g_m s + C_5 L_3 R_3 R_L s}$$

10.701 INVALID-ORDER-701 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_3 R_3 s (C_5 L_5 g_m s^2 + C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 L_5 R_3 g_m s^4 + C_5 C_L L_3 R_3 R_5 g_m s^3 + C_5 C_L L_3 R_3 s^3 + C_5 L_3 L_5 g_m s^3 + 2 C_5 L_3 R_3 g_m s^2 + C_5 L_3 R_3 s^2 + C_5 L_3 s^2 + C_5 g_m s^2 + C_5 s^2 + g_m s^2}$$

10.702 INVALID-ORDER-702 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L}{C_LR_Ls+1} \right)$

$$H(s) = \frac{L_3 R_5}{C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_L g_m s^2 + C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + C_5 C_L L_3 R_3 R_5 R_L g_m s^3 + C_5 C_L L_3 R_3 R_L s^3 + C_5 L_3 L_5 R_3 g_m s^2}$$

$$\mathbf{10.703 \quad INVALID-ORDER-703} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_Ls^4 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3R_3R_Lg_ms^3 + C_3L_3R_3g_ms^2}{C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_Ls^4 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3R_3R_Lg_ms^3 + C_3L_3R_3g_ms^2}$$

$$\mathbf{10.704 \quad INVALID-ORDER-704} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3L_LR_3g_ms^4 + C_3L_3R_3g_ms^2}{C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3L_LR_3g_ms^4 + C_3L_3R_3g_ms^2}$$

$$\mathbf{10.705 \quad INVALID-ORDER-705} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{L_Ls}{C_LL_Ls^2 + 1} \right)$$

$$H(s) = \frac{L_3L_LR_3g_ms^4 + C_3C_5L_3L_5L_LR_3g_ms^4 + C_3C_5L_3L_LR_3R_5g_ms^3 + C_3C_5L_3L_LR_3s^3 + C_3L_3L_LR_3g_ms^2 + C_5C_LL_3L_5L_LR_3g_ms^4 + C_5C_LL_3L_LR_3R_5g_ms^3 + C_5C_LL_3L_LR_3s^3 + C_5L_3L_5L_LR_3g_ms^3}{C_3C_5L_3L_5L_LR_3g_ms^4 + C_3C_5L_3L_LR_3R_5g_ms^3 + C_3C_5L_3L_LR_3s^3 + C_3L_3L_LR_3g_ms^2 + C_5C_LL_3L_5L_LR_3g_ms^4 + C_5C_LL_3L_LR_3R_5g_ms^3 + C_5C_LL_3L_LR_3s^3 + C_5L_3L_5L_LR_3g_ms^3}$$

$$\mathbf{10.706 \quad INVALID-ORDER-706} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, L_Ls + R_L + \frac{1}{C_Ls} \right)$$

$$H(s) = \frac{C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_Ls^4 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3L_5L_LR_3g_ms^4 + C_3C_LL_3L_LR_3R_5g_ms^3 + C_3C_LL_3L_LR_3s^3 + C_3L_3L_5L_LR_3g_ms^3 + C_3L_3L_LR_3R_5g_ms^2 + C_3L_3L_LR_3R_Lg_ms^2 + C_5C_LL_3L_5L_LR_3g_ms^4 + C_5C_LL_3L_LR_3R_5g_ms^3 + C_5C_LL_3L_LR_3s^3 + C_5L_3L_5L_LR_3g_ms^3 + C_5L_3L_LR_3R_5g_ms^2 + C_5L_3L_LR_3R_Lg_ms^2}{C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_Ls^4 + C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_3s^3 + C_3C_LL_3L_5L_LR_3g_ms^4 + C_3C_LL_3L_LR_3R_5g_ms^3 + C_3C_LL_3L_LR_3s^3 + C_3L_3L_5L_LR_3g_ms^3 + C_3L_3L_LR_3R_5g_ms^2 + C_3L_3L_LR_3R_Lg_ms^2 + C_5C_LL_3L_5L_LR_3g_ms^4 + C_5C_LL_3L_LR_3R_5g_ms^3 + C_5C_LL_3L_LR_3s^3 + C_5L_3L_5L_LR_3g_ms^3 + C_5L_3L_LR_3R_5g_ms^2 + C_5L_3L_LR_3R_Lg_ms^2}$$

$$\mathbf{10.707 \quad INVALID-ORDER-707} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{1}{C_Ls + \frac{1}{R_L} + \frac{1}{L_Ls}} \right)$$

$$H(s) = \frac{C_3C_5L_3L_5L_LR_3R_Lg_ms^4 + C_3C_5L_3L_LR_3R_5R_Lg_ms^3 + C_3C_5L_3L_LR_3R_Ls^3 + C_3L_3L_LR_3R_Lg_ms^2 + C_5C_LL_3L_5L_LR_3R_Lg_ms^4 + C_5C_LL_3L_LR_3R_5R_Lg_ms^3 + C_5C_LL_3L_LR_3s^3 + C_5L_3L_5L_LR_3R_Lg_ms^3 + C_5L_3L_LR_3R_5g_ms^2 + C_5L_3L_LR_3R_Lg_ms^2}{C_3C_5L_3L_5L_LR_3R_Lg_ms^4 + C_3C_5L_3L_LR_3R_5R_Lg_ms^3 + C_3C_5L_3L_LR_3R_Ls^3 + C_3L_3L_LR_3R_Lg_ms^2 + C_5C_LL_3L_5L_LR_3R_Lg_ms^4 + C_5C_LL_3L_LR_3R_5R_Lg_ms^3 + C_5C_LL_3L_LR_3s^3 + C_5L_3L_5L_LR_3R_Lg_ms^3 + C_5L_3L_LR_3R_5g_ms^2 + C_5L_3L_LR_3R_Lg_ms^2}$$

10.708 INVALID-ORDER-708 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_L l}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_L l}$$

10.709 INVALID-ORDER-709 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, L_5s + R_5 + \frac{1}{C_5s}, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L}$$

10.710 INVALID-ORDER-710 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$

$$H(s) = \frac{L_3 R_3 R_L s (-C_5 L_5 R_5 s^2 + L_5)}{C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_3 R_L s^3 + C_3 L_3 R_3 R_5 R_L s^2 + 2 C_5 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_5 L_3 L_5 R_3 R_5 s^3 + C_5 L_3 L_5 R_5 R_L s^3 + C_5 L_5 R_3 R_5 R_L s^2 + L_5}$$

10.711 INVALID-ORDER-711 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{1}{C_5s + \frac{1}{R_5} + \frac{1}{L_5s}}, \frac{1}{C_Ls} \right)$

$$H(s) = \frac{L_3 R_3 s (-C_5 L_5 R_5 s^2 + L_5 R_5 g_m s - L_5 s - I_5)}{C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 L_3 L_5 R_3 R_5 g_m s^3 + C_3 L_3 L_5 R_3 s^3 + C_3 L_3 R_3 R_5 s^2 + C_5 C_L L_3 L_5 R_3 R_5 s^4 + 2 C_5 L_3 L_5 R_3 R_5 g_m s^3 + C_5 L_3 L_5 R_5 s^3 + C_5 L_5 R_3 R_5 s^2 + C_L L_3 L_5 R_3 R_5 g_m s^3 +}$$

10.712 INVALID-ORDER-712 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_3 R_L s^3 + C_3 L_3 R_3 R_5 R_L s^2 + C_5 C_L L_3 L_5 R_3 R_5 R_L s^4 + 2 C_5 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_5 L_3 L_5 R_3 R_5 s^3 + C_5 L_3 L_5 R_5 R_L s^2}{C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_3 R_L s^3 + C_3 L_3 R_3 R_5 R_L s^2 + C_5 C_L L_3 L_5 R_3 R_5 R_L s^4 + 2 C_5 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_5 L_3 L_5 R_3 R_5 s^3 + C_5 L_3 L_5 R_5 R_L s^2}$$

$$\mathbf{10.713 \quad INVALID-ORDER-713} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 R_3 R_5 R_L s^3 + C_3 L_3 L_5 R_3 R_5 g_m s^3 + C_3 L_3 L_5 R_3 s^3 + C_3 L_3 R_3 R_5 s^2}{C_3 C_5 C_L L_3 L_5 R_3 R_5 s^6 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 L_3 L_5 R_3 R_5 g_m s^3 + C_3 L_3 L_5 R_3 s^3 + C_3 L_3 R_3 R_5 s^2}$$

$$\mathbf{10.714 \quad INVALID-ORDER-714} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 L_3 L_5 R_3 R_5 g_m s^3 + C_3 L_3 L_5 R_3 s^3 + C_3 L_3 R_3 R_5 s^2}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 L_3 L_5 R_3 R_5 g_m s^3 + C_3 L_3 L_5 R_3 s^3 + C_3 L_3 R_3 R_5 s^2}$$

$$\mathbf{10.715 \quad INVALID-ORDER-715} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_3 R_5 s^4 + C_3 L_3 L_5 L_L R_3 R_5 g_m s^3 + C_3 L_3 L_5 L_L R_3 s^3 + C_3 L_3 L_L R_3 R_5 s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 s^4 + 2 C_5 L_3 L_5 L_L R_3 R_5 g_m s^3 + C_5 L_3 L_5 L_L R_5 s^3 + C_5 L_3 L_5 R_3 R_5 s^2}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 R_3 R_L s^3 + C_3 C_L L_3 L_5 R_3 R_L s^2 + C_3 C_L L_3 L_5 R_3 R_L s + C_3 C_L L_3 L_5 R_3 R_L}$$

$$\mathbf{10.716 \quad INVALID-ORDER-716} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 R_3 R_L s^3 + C_3 C_L L_3 L_5 R_3 R_L s^2 + C_3 C_L L_3 L_5 R_3 R_L s + C_3 C_L L_3 L_5 R_3 R_L}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 R_3 R_L s^3 + C_3 C_L L_3 L_5 R_3 R_L s^2 + C_3 C_L L_3 L_5 R_3 R_L s + C_3 C_L L_3 L_5 R_3 R_L}$$

$$\mathbf{10.717 \quad INVALID-ORDER-717} \quad Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L s^4 + C_3 L_3 L_5 L_L R_3 R_5 R_L g_m s^3 + C_3 L_3 L_5 L_L R_3 R_L s^3 + C_3 L_3 L_L R_3 R_5 R_L s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^4 + 2 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^3 + C_5 L_3 L_5 L_L R_3 R_5 s^3 + C_5 L_3 L_5 L_L R_3 R_5 s^2 + C_5 L_3 L_5 L_L R_3 R_5 s + C_5 L_3 L_5 L_L R_3 R_5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 R_3 R_L s^3 + C_3 C_L L_3 L_5 R_3 R_L s^2 + C_3 C_L L_3 L_5 R_3 R_L s + C_3 C_L L_3 L_5 R_3 R_L}$$

10.718 INVALID-ORDER-718 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_L s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L s^4 + C_3 L_3 L_5 L_L R_3 R_5 s^3 + C_3 L_3 L_5 R_3 R_5 s^2 + C_3 L_3 L_5 R_3 s + C_3 L_3 R_3}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_L s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L s^4 + C_3 L_3 L_5 L_L R_3 R_5 s^3 + C_3 L_3 L_5 R_3 R_5 s^2 + C_3 L_3 L_5 R_3 s + C_3 L_3 R_3}$$

10.719 INVALID-ORDER-719 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^6 + C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_L s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L s^4 + C_3 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_3 R_5 R_L s^2}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^6 + C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_L s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L s^4 + C_3 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_3 L_3 L_5 R_3 R_5 R_L s^2 + C_3 L_3 L_5 R_3 R_5 R_L s + C_3 L_3 L_5 R_3 R_5 R_L}$$

10.720 INVALID-ORDER-720 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$

$$H(s) = \frac{L_3 R_3 R_L s}{C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 L_3 L_5 R_3 R_L g_m s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_5 L_3 L_5 R_3 R_5 g_m s^3 + 2C_5 L_3 L_5 R_3 R_L g_m s^3 + C_5 L_3 L_5 R_3 s^3 + C_5}$$

10.721 INVALID-ORDER-721 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 R_3 s (C_5 L_5 R_5 g_m s^2 - C_5)}{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + C_5 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 R_3 s^4 + 2 C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_3 L_5 R_5 g_m s^2}$$

10.722 INVALID-ORDER-722 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 L_3 L_5 R_3 R_L g_m s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 R_3 R_L s^4 + C_5 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_5 L_3 L_5 R_3 R_L s^3 + C_5 L_3 R_3 R_5 R_L g_m s^2 + C_5 L_3 R_3 R_L s^2 + C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_L s}{C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 L_3 L_5 R_3 R_L g_m s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 R_3 R_L s^4 + C_5 L_3 L_5 R_3 R_5 R_L g_m s^3 + C_5 L_3 L_5 R_3 R_L s^3 + C_5 L_3 R_3 R_5 R_L g_m s^2 + C_5 L_3 R_3 R_L s^2 + C_5 R_3 R_5 R_L g_m s + C_5 R_3 R_L s}$$

10.723 INVALID-ORDER-723 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^3 + C_3 L_3 R_3 R_5 R_L s^3 + C_3 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 s^3 + C_3 L_3 s^3 + C_3 R_3 R_5 R_L g_m s^3 + C_3 R_3 R_5 R_L s^3 + C_3 R_3 R_5 s^3 + C_3 R_3 s^3 + C_3 s^3}{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^3 + C_3 L_3 R_3 R_5 R_L s^3 + C_3 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 s^3 + C_3 s^3}.$$

10.724 INVALID-ORDER-724 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 g_m s^5 + C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3$$

10.725 INVALID-ORDER-725 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 L_L R_3 s^4 + C_3 L_3 L_5 L_L R_3 g_m s^3 + C_3 L_3 L_L R_3 R_5 g_m s^2 + C_3 L_3 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 L_L R_3 s^4 + 2 C_5 L_3 L_5 L_L R_3}{C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 L_L R_3 s^4 + C_3 L_3 L_5 L_L R_3 g_m s^3 + C_3 L_3 L_L R_3 R_5 g_m s^2 + C_3 L_3 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 L_L R_3 s^4 + 2 C_5 L_3 L_5 L_L R_3}$$

10.726 INVALID-ORDER-726 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 g_m}{\dots}$$

10.727 INVALID-ORDER-727 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 L_L R_3 R_L s^4 + C_3 L_3 L_5 L_L R_3 R_L g_m s^3 + C_3 L_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_3 L_L R_3 R_L s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^4}{C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 L_L R_3 R_L s^4 + C_3 L_3 L_5 L_L R_3 R_L g_m s^3 + C_3 L_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_3 L_L R_3 R_L s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^4}$$

10.728 INVALID-ORDER-728 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 s^4 + C_3 C_L L_3 L_5 L_L R_L s^4 + C_3 C_L L_3 L_5 L_L s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_3 s^4 + C_3 C_L s^4 + C_3 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 s^4 + C_3 C_L L_3 L_5 L_L R_L s^4 + C_3 C_L L_3 L_5 L_L s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_3 s^4 + C_3 C_L s^4 + C_3 s^4}.$$

10.729 INVALID-ORDER-729 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L$$

10.730 INVALID-ORDER-730 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_5 L_3 L_5 R_3 R_5 g_m s^3 + 2 C_5 L_3 L_5 R_3 R_L g_m s^3 + C_5 L_3 L_5 R_3 s^3 + C_5}{\dots}$$

10.731 INVALID-ORDER-731 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{L_3 R_3 s (C_5 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + C_5 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 R_3 s^4 + C_5 C_L L_3 R_3 R_5 s^3 + 2 C_5 L_3 L_5 R_3 g_m s}{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + C_5 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 R_3 s^4 + C_5 C_L L_3 R_3 R_5 s^3 + 2 C_5 L_3 L_5 R_3 g_m s}$$

10.732 INVALID-ORDER-732 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 R_3 R_L s^4 + C_5 C_L L_3 R_3 R_5 R_L s^3 + C_5 C_L L_3 R_3 R_L s^3 + C_5 C_L L_5 R_3 R_5 R_L s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_5 R_L s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L R_3 R_5 R_L s^3 + C_5 C_L R_3 R_L s^3 + C_5 C_L R_5 R_L s^3 + C_5 C_L R_L s^3 + C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_5 L_3 L_5 R_3 R_L s^4 + C_5 L_3 L_5 R_5 R_L s^4 + C_5 L_3 L_5 R_L s^4 + C_5 L_3 R_3 R_5 R_L s^3 + C_5 L_3 R_3 R_L s^3 + C_5 L_3 R_5 R_L s^3 + C_5 L_3 R_L s^3 + C_5 L_5 R_3 R_5 R_L s^3 + C_5 L_5 R_3 R_L s^3 + C_5 L_5 R_5 R_L s^3 + C_5 L_5 R_L s^3 + C_5 R_3 R_5 R_L s^3 + C_5 R_3 R_L s^3 + C_5 R_5 R_L s^3 + C_5 R_L s^3}{C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 + C_3 L_3 R_3 R_L s^2 + C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 R_3 R_L s^4 + C_5 C_L L_3 R_3 R_5 R_L s^3 + C_5 C_L L_3 R_3 R_L s^3 + C_5 C_L L_5 R_3 R_5 R_L s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_5 R_L s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L R_3 R_5 R_L s^3 + C_5 C_L R_3 R_L s^3 + C_5 C_L R_5 R_L s^3 + C_5 C_L R_L s^3 + C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_5 L_3 L_5 R_3 R_L s^4 + C_5 L_3 L_5 R_5 R_L s^4 + C_5 L_3 L_5 R_L s^4 + C_5 L_3 R_3 R_5 R_L s^3 + C_5 L_3 R_3 R_L s^3 + C_5 L_3 R_5 R_L s^3 + C_5 L_3 R_L s^3 + C_5 L_5 R_3 R_5 R_L s^3 + C_5 L_5 R_3 R_L s^3 + C_5 L_5 R_5 R_L s^3 + C_5 L_5 R_L s^3 + C_5 R_3 R_5 R_L s^3 + C_5 R_3 R_L s^3 + C_5 R_5 R_L s^3 + C_5 R_L s^3}$$

10.733 INVALID-ORDER-733 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_5 R_L s^3}{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_5 R_L s^3}$$

10.734 INVALID-ORDER-734 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3 + \frac{1}{L_3 s}}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}$$

10.735 INVALID-ORDER-735 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_3 R_5 s^3 + C_3 L_3 L_L R_3 R_5 g_m s^2 + C_3 L_3 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 L_L R_3 s^4 + C_5 C_L L_3 L_L R_3 R_5 g_m s^2 + C_5 C_L L_3 L_L R_3 s^2}{C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_3 R_5 s^3 + C_3 L_3 L_L R_3 R_5 g_m s^2 + C_3 L_3 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 L_L R_3 s^4 + C_5 C_L L_3 L_L R_3 R_5 g_m s^2 + C_5 C_L L_3 L_L R_3 s^2}$$

10.736 INVALID-ORDER-736 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5 \left(L_5s + \frac{1}{C_5s} \right)}{L_5s + R_5 + \frac{1}{C_5s}}, L_Ls + R_L + \frac{1}{C_Ls} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5}$$

10.737 INVALID-ORDER-737 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 L_L R_3 R_L s^4 + C_3 C_5 L_3 L_L R_3 R_5 R_L s^3 + C_3 L_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_3 L_L R_3 R_L s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^3 + C_5 C_L L_3 L_5 L_L R_3 R_L s^2 + C_5 C_L L_3 L_5 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 s + C_5 C_L L_3 L_5 L_L R_3}{C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 L_L R_3 R_L s^4 + C_3 C_5 L_3 L_L R_3 R_5 R_L s^3 + C_3 L_3 L_L R_3 R_5 R_L g_m s^2 + C_3 L_3 L_L R_3 R_L s^2 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^4 + C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^3 + C_5 C_L L_3 L_5 L_L R_3 R_L s^2 + C_5 C_L L_3 L_5 L_L R_3 s^2 + C_5 C_L L_3 L_5 L_L R_3 s + C_5 C_L L_3 L_5 L_L R_3}$$

10.738 INVALID-ORDER-738 $Z(s) = \left(\infty, \infty, \frac{1}{C_3 s + \frac{1}{R_3} + \frac{1}{L_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5$$

10.739 INVALID-ORDER-739 $Z(s) = \left(\infty, \infty, \frac{1}{C_3s + \frac{1}{R_3} + \frac{1}{L_3s}}, \infty, \frac{R_5 \left(L_5s + \frac{1}{C_5s} \right)}{L_5s + R_5 + \frac{1}{C_5s}}, \frac{R_L \left(L_Ls + \frac{1}{C_Ls} \right)}{L_Ls + R_L + \frac{1}{C_Ls}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_L L_3 L}$$

10.740 INVALID-ORDER-740 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1)(C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + 2C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_L L_3 R_5 g_m s^2 + C_L L_3 s^2 + C_L R_3 R_5 g_m s + C_L R_3 s + 2L_3 g_m s + 2R_3 g_m + R_5 g_m + 1}$$

10.741 INVALID-ORDER-741 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{R_L (R_5 g_m - 1) (C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2 C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_L L_3 R_5 R_L g_m s^2 + C_L L_3 R_L s^2 + C_L R_3 R_5}$$

10.742 INVALID-ORDER-742 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1)(C_L R_L s + 1)(C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 C_L L_3 R_3 R_5 g_m s^3 + 2C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + 2C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_L L_3 R_5 g_m s^2 + 2C_L L_3 R_L g_m s + C_L R_3 s + R_3}$$

10.743 INVALID-ORDER-743 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{(R_5 g_m - 1)(C_L L_L s^2 + 1)(C_3 L_3 R_3 s^2 + L_3 s + R_3)}{2C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + 2C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + 2C_L L_3 L_L g_m s^3 + C_L L_3 R_5 g_m}$$

10.744 INVALID-ORDER-744 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L s (R_5 g_m - 1) (C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + 2 C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 L_L R_5 g_m s^3 + C_3 L_3 L_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + C_L L_3 L_L R_5 g_m s^3 + C_L L_3 L_L s^3 + C_L L_L R_3 R_5 g_m s^2 + C_L L_L R_3 s^2 + R_3 R_5 g_m s + R_3 R_5}$$

10.745 INVALID-ORDER-745 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_LL_3L_LR_3g_ms^4 + C_3C_LL_3L_LR_5g_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_3R_3R_5g_ms^3 + 2C_3C_LL_3R_3R_Lg_ms^3 + C_3C_LL_3R_3s^3 + C_3C_LL_3R_5R_Lg_ms^3 + C_3C_LL_3R_Ls^3 + 2C_3L_3R_3}{2C_3C_LL_3L_LR_3g_ms^4 + C_3C_LL_3L_LR_5g_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_3R_3R_5g_ms^3 + 2C_3C_LL_3R_3R_Lg_ms^3 + C_3C_LL_3R_3s^3 + C_3C_LL_3R_5R_Lg_ms^3 + C_3C_LL_3R_Ls^3 + 2C_3L_3R_3}$$

10.746 INVALID-ORDER-746 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_L R_3 R_5 g_m s^3 + 2 C_3 L_3 L_L R_3 R_L g_m s^3 + C_3 L_3 L_L R_3 s^3 + C_3 L_3 L_L R_5 R_L g_m s^3 + C_3 L_3 L_L R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 +$$

10.747 INVALID-ORDER-747 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + 2 C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 L_L R_5 g_m s^3 + C_3 L_3 L_L s^3 + C_3 L_3 L_L s^3 + C_3 L_3 L_L s^3 + C_3 L_3 L_L s^3}{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + 2 C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 L_L R_5 g_m s^3 + C_3 L_3 L_L s^3 + C_3 L_3 L_L s^3 + C_3 L_3 L_L s^3 + C_3 L_3 L_L s^3}$$

10.748 INVALID-ORDER-748 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^3 + C_3 L_3 R_3 R_L s^3 + C_3 L_3 R_5 g_m s^3 + C_3 L_3 R_L s^3 + C_3 R_3 g_m s^3 + C_3 R_L s^3 + g_m s^3}{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^3 + C_3 L_3 R_3 R_L s^3 + C_3 L_3 R_5 g_m s^3 + C_3 L_3 R_L s^3 + C_3 R_3 g_m s^3 + C_3 R_L s^3 + g_m s^3}$$

10.749 INVALID-ORDER-749 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, R_L \right)$

$$H(s) = -\frac{R_L(C_5s - g_m)(C_3L_3R_3s^2 + L_3s + R_3)}{2C_3C_5L_3R_3R_Lg_ms^3 + C_3C_5L_3R_3s^3 + C_3C_5L_3R_Ls^3 + C_3L_3R_3g_ms^2 + C_3L_3R_Lg_ms^2 + 2C_5L_3R_Lg_ms^2 + C_5L_3s^2 + 2C_5R_3R_Lg_ms + C_5R_3s + C_5R_Ls + L_3g_ms + R_3g_m + R_3L_3}$$

10.750 INVALID-ORDER-750 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5 s - g_m)(C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 C_5 C_L L_3 R_3 s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 s^3 + C_5 C_L R_3 s^2 + 2 C_5 L_3 g_m s^2 + 2 C_5 R_3 g_m s + C_5 s + C_L L_3 g_m s^2 + C_L R_3 g_m s}$$

10.751 INVALID-ORDER-751 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{R_L(C_5s - g_m)(C_3L_3R_3s^2 + L_3s + R_3)}{C_3C_5C_LL_3R_3R_Ls^4 + 2C_3C_5L_3R_3R_Lg_ms^3 + C_3C_5L_3R_3s^3 + C_3C_5L_3R_Ls^3 + C_3C_LL_3R_3R_Lg_ms^3 + C_3L_3R_3g_ms^2 + C_3L_3R_Lg_ms^2 + C_5C_LL_3R_Ls^3 + C_5C_LL_3R_3R_Ls^2 + 2C_5L_3R_3R_Ls + 2C_5R_3R_L}$$

10.752 INVALID-ORDER-752 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{(C_5s - g_m)(C_LR_Ls + 1)(C_3L_3R_3s^2 + L_3C_3s + g_m)}{2C_3C_5C_LL_3R_3R_Lg_ms^4 + C_3C_5C_LL_3R_3s^4 + C_3C_5C_LL_3R_Ls^4 + 2C_3C_5L_3R_3g_ms^3 + C_3C_5L_3s^3 + C_3C_LL_3R_3g_ms^3 + C_3C_LL_3R_Lg_ms^3 + C_3L_3g_ms^2 + 2C_5C_LL_3R_Lg_ms^3 + 2C_5C_LL_3R_3g_ms^2 + 2C_5C_LL_3s^2 + 2C_5C_Ls + 2C_5g_m}$$

$$H(s) = -\frac{(C_5 s - g_m)(C_L L_L s^2 + 1)(C_3 L_3 R_3 s^2 + 1)}{2C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 s^4 + 2C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_L g_m s^4 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + 2C_5 C_L L_3 L_L g_m s^4 + C_5 C_L L_3 L_L s^2 + C_5 C_L L_3 R_3 s^2 + C_5 C_L L_3 s^2 + C_5 C_L L_L s^2 + C_5 C_L s^2 + C_5 L_3 R_3 s^2 + C_5 L_3 s^2 + C_5 L_L s^2 + C_5 s^2 + C_5}.$$

$$H(s) = -\frac{L_L s (C_5 s - g_m) (C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 C_5 C_L L_3 L_L R_3 s^5 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 L_3 L_L g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_5 C_L L_3 L_L s^4 + C_5 C_L L_L R_3 s^3 + 2 C_5 L_3 R_3 s^2 + C_5 L_3 s + C_5 R_3}$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_3g_ms^5 + C_3C_5C_LL_3L_Ls^5 + 2C_3C_5C_LL_3R_3R_Lg_ms^4 + C_3C_5C_LL_3R_3s^4 + C_3C_5C_LL_3R_Ls^4 + 2C_3C_5L_3R_3g_ms^3 + C_3C_5L_3s^3 + C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_3L_Ls^3 + C_3C_LL_3L_Ls^2 + C_3C_LL_3L_Ls + C_3C_LL_3L_L}{2C_3C_5C_LL_3L_LR_3g_ms^5 + C_3C_5C_LL_3L_Ls^5 + 2C_3C_5C_LL_3R_3R_Lg_ms^4 + C_3C_5C_LL_3R_3s^4 + C_3C_5C_LL_3R_Ls^4 + 2C_3C_5L_3R_3g_ms^3 + C_3C_5L_3s^3 + C_3C_LL_3L_Lg_ms^4 + C_3C_LL_3L_Ls^4 + C_3C_LL_3L_Ls^3 + C_3C_LL_3L_Ls^2 + C_3C_LL_3L_Ls + C_3C_LL_3L_L}.$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 L_L R_L g_m s^3}{C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 L_L R_L g_m s^3}.$$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_3R_Lg_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5C_LL_3L_LR_Ls^5 + 2C_3C_5L_3L_LR_3g_ms^4 + C_3C_5L_3L_Ls^4 + 2C_3C_5L_3R_3R_Lg_ms^3 + C_3C_5L_3R_3s^3 + C_3C_5L_3R_Ls^3 + C_3C_5L_3R_Lg_ms^2 + C_3C_5L_3R_Ls^2 + C_3C_5L_3R_Lg_ms + C_3C_5L_3R_Ls + C_3C_5L_3R_L}{2C_3C_5C_LL_3L_LR_3R_Lg_ms^5 + C_3C_5C_LL_3L_LR_3s^5 + C_3C_5C_LL_3L_LR_Ls^5 + 2C_3C_5L_3L_LR_3g_ms^4 + C_3C_5L_3L_Ls^4 + 2C_3C_5L_3R_3R_Lg_ms^3 + C_3C_5L_3R_3s^3 + C_3C_5L_3R_Ls^3 + C_3C_5L_3R_Lg_ms^2 + C_3C_5L_3R_Ls^2 + C_3C_5L_3R_Lg_ms + C_3C_5L_3R_Ls + C_3C_5L_3R_L}.$$

$$10.758 \quad \text{INVALID-ORDER-758} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + 2C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_3 g_m s^4}{2C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + 2C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 L_L R_3 g_m s^4}$$

$$10.759 \quad \text{INVALID-ORDER-759} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$$

$$H(s) = -\frac{R_L (C_5 R_5 s - R_5 g_m + 1) (C_3 L_3 R_3 s^2 + L_3 s + 1)}{2C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + 2C_5 L_3 R_5 R_L g_m s^2 + C_5 L_3 R_5 s^2 + C_5 L_3 R_L s^2 + C_5 C_L L_3 R_5 s^3 + C_5 C_L R_3 R_5 s^3 + C_5 C_L R_5 s^3 + C_5 C_L R_L s^3 + C_5 C_L s^3}$$

$$10.760 \quad \text{INVALID-ORDER-760} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{(C_5 R_5 s - R_5 g_m + 1) (C_3 L_3 R_3 s^2 + L_3 s + 1)}{C_3 C_5 C_L L_3 R_3 R_5 s^4 + 2C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + 2C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_5 C_L L_3 R_5 s^3 + C_5 C_L R_3 R_5 s^3 + C_5 C_L R_5 s^3 + C_5 C_L R_L s^3 + C_5 C_L s^3}$$

$$10.761 \quad \text{INVALID-ORDER-761} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + 2C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_5 C_L L_3 R_5 s^3 + C_5 C_L R_3 R_5 s^3 + C_5 C_L R_5 s^3 + C_5 C_L R_L s^3 + C_5 C_L s^3}{C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + 2C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_5 C_L L_3 R_5 s^3 + C_5 C_L R_3 R_5 s^3 + C_5 C_L R_5 s^3 + C_5 C_L R_L s^3 + C_5 C_L s^3}$$

$$10.762 \quad \text{INVALID-ORDER-762} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 R_5 s^4 + C_3 C_5 C_L L_3 R_5 R_L s^4 + 2C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 R_3 R_5 g_m s^3 + 2C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_5 C_L L_3 R_5 s^3 + C_5 C_L R_3 R_5 s^3 + C_5 C_L R_5 s^3 + C_5 C_L R_L s^3 + C_5 C_L s^3}{2C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 R_5 s^4 + C_3 C_5 C_L L_3 R_5 R_L s^4 + 2C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_L L_3 R_3 R_5 g_m s^3 + 2C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_5 C_L L_3 R_5 s^3 + C_5 C_L R_3 R_5 s^3 + C_5 C_L R_5 s^3 + C_5 C_L R_L s^3 + C_5 C_L s^3}$$

10.763 INVALID-ORDER-763 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + C_3C_5C_LL_3R_3R_5s^4 + 2C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_5s^3 + 2C_3C_LL_3L_LR_3g_ms^4 + C_3C_LL_3L_LR_5g_ms^4 + C_3C_LL_3L_Ls^4}{s^6 + C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + C_3C_5C_LL_3R_3R_5s^4 + 2C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_5s^3 + 2C_3C_LL_3L_LR_3g_ms^4 + C_3C_LL_3L_LR_5g_ms^4 + C_3C_LL_3L_Ls^4}$$

10.764 INVALID-ORDER-764 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + 2 C_3 C_5 L_3 L_L R_3 R_5 q_m s^4 + C_3 C_5 L_3 L_L R_5 s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_L L_3 L_L R_3 R_5 q_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + 2 C_3 L_3 L_L R_3 q_m s^3 + C_3 L_3 L_L R_5 q_m s^3 +$$

10.765 INVALID-ORDER-765 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + 2C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_5s^4 + C_3C_5C_LL_3R_5R_Ls^4 + 2C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_5s^3 + 2C_3C_LL_3R_5s^2 + C_3C_LL_3R_5g_ms + C_3C_LL_3R_5}{2C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + 2C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_5s^4 + C_3C_5C_LL_3R_5R_Ls^4 + 2C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_5s^3 + 2C_3C_LL_3R_5s^2 + C_3C_LL_3R_5g_ms + C_3C_LL_3R_5}.$$

10.766 INVALID-ORDER-766 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_5 s^4 + C_3 C_5 L_3 L_L R_5 R_L s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4}{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_5 s^4 + C_3 C_5 L_3 L_L R_5 R_L s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4}$$

10.767 INVALID-ORDER-767 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3C_5C_L L_3 L_L R_3 R_5 s^5 + C_3C_5C_L L_3 L_L R_5 R_L s^5 + 2C_3C_5L_3 L_L R_3 R_5 g_m s^4 + C_3C_5L_3 L_L R_5 s^4 + 2C_3C_5L_3 R_3 R_5 R_L g_m s^3 + C_3C_5L_3 R_3 R_5 s^3 +$$

$$10.768 \quad \text{INVALID-ORDER-768} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = - \frac{2C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + 2C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L s^3 +$$

$$10.769 \quad \text{INVALID-ORDER-769} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, R_L \right)$$

$$H(s) = \frac{R_L (C_3 L_3 R_3 s^2 + L_3 s + R_3) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_5 L_3 R_5 g_m s^2 + 2C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2 +$$

$$10.770 \quad \text{INVALID-ORDER-770} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{(C_3 L_3 R_3 s^2 + L_3 s + R_3) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + 2C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 R_5 g_m s^3 + C_5 C_L L_3 s^3 + C_5 C_L R_3 R_5 s^3 +$$

$$10.771 \quad \text{INVALID-ORDER-771} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_5 C_L L_3 R_5 g_m s^3 + C_5 C_L L_3 s^3 + C_5 C_L R_3 R_5 s^3 +$$

$$10.772 \quad \text{INVALID-ORDER-772} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + 2C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_5 C_L L_3 R_5 g_m s^3 + C_5 C_L L_3 s^3 + C_5 C_L R_3 R_5 s^3 +$$

10.773 INVALID-ORDER-773 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_5C_LL_3L_LR_3g_ms^5 + C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_3R_5g_ms^4 + C_3C_5C_LL_3R_3s^4 + 2C_3C_5L_3R_3g_ms^3 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3s^3 + C_3C_LL_3s^3}{2C_3C_5C_LL_3L_LR_3g_ms^5 + C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_3R_5g_ms^4 + C_3C_5C_LL_3R_3s^4 + 2C_3C_5L_3R_3g_ms^3 + C_3C_5L_3R_5g_ms^3 + C_3C_5L_3s^3 + C_3C_LL_3s^3}.$$

10.774 INVALID-ORDER-774 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3}{\dots}$$

10.775 INVALID-ORDER-775 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_5 s^4 + C_3 C_5 C_L L_3 s^4 + C_3 C_5 C_L L_R R_3 g_m s^4 + C_3 C_5 C_L L_R R_3 s^4 + C_3 C_5 C_L L_R R_5 g_m s^4 + C_3 C_5 C_L L_R R_5 s^4 + C_3 C_5 C_L L_R s^4 + C_3 C_5 C_L R_3 R_5 g_m s^3 + C_3 C_5 C_L R_3 R_5 s^3 + C_3 C_5 C_L R_3 s^3 + C_3 C_5 C_L R_5 g_m s^3 + C_3 C_5 C_L R_5 s^3 + C_3 C_5 C_L s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + C_3 C_5 s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 R_5 s + C_3 R_3 s + C_3 R_5 g_m s + C_3 R_5 s + C_3 s}{2C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_5 s^4 + C_3 C_5 C_L L_3 s^4 + C_3 C_5 C_L L_R R_3 g_m s^4 + C_3 C_5 C_L L_R R_3 s^4 + C_3 C_5 C_L L_R R_5 g_m s^4 + C_3 C_5 C_L L_R R_5 s^4 + C_3 C_5 C_L L_R s^4 + C_3 C_5 C_L R_3 R_5 g_m s^3 + C_3 C_5 C_L R_3 R_5 s^3 + C_3 C_5 C_L R_3 s^3 + C_3 C_5 C_L R_5 g_m s^3 + C_3 C_5 C_L R_5 s^3 + C_3 C_5 C_L s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + C_3 C_5 s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 R_5 s + C_3 R_3 s + C_3 R_5 g_m s + C_3 R_5 s + C_3 s}.$$

10.776 INVALID-ORDER-776 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3}{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3}$$

10.777 INVALID-ORDER-777 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^4}{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^4}.$$

10.778 INVALID-ORDER-778 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 I$$

10.779 INVALID-ORDER-779 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_L (C_3 L_3 R_3 s^2 + L_3 s + R_3) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_5 L_3 L_5 g_m s^3 + 2 C_5 L_3 R_L g_m s^2 + C_5 L_3 s^2}$$

10.780 INVALID-ORDER-780 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 R_3 s^2 + L_3 s + R_3)(C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_5 C_L L_3 L_5 g_m s^4 + C_5 C_L L_3 s^3 + C_5 C_L L_5 R_3 g_m s^2 + C_5 L_5 s^2 + R_3 s + g_m}$$

10.781 INVALID-ORDER-781 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_L L_3 R_3 R_L g_m s^3 + C$$

10.782 INVALID-ORDER-782 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_5 R_3 g_m s^3 + C_3 C_L L_5 s^3 + C_3 C_L L_3 R_3 g_m s^2 + C_3 C_L L_3 s^2 + C_3 C_L L_5 R_L g_m s^2 + C_3 C_L L_5 s^2 + C_3 C_L R_3 R_L g_m s + C_3 C_L R_3 s + C_3 C_L R_L s + C_3 C_L s}{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_5 R_3 g_m s^3 + C_3 C_L L_5 s^3 + C_3 C_L L_3 R_3 g_m s^2 + C_3 C_L L_3 s^2 + C_3 C_L L_5 R_L g_m s^2 + C_3 C_L L_5 s^2 + C_3 C_L R_3 R_L g_m s + C_3 C_L R_3 s + C_3 C_L R_L s + C_3 C_L s}.$$

10.783 INVALID-ORDER-783 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_5 R_3 g_m s^2 + C_3 C_L L_3 L_5 s^2 + C_3 C_L L_3 R_3 s^2 + C_3 C_L L_5 R_3 g_m s^2 + C_3 C_L L_5 s^2 + C_3 C_L R_3 s^2 + C_3 C_L s^2 + C_5 C_L L_3 L_5 R_3 g_m s^2 + C_5 C_L L_3 L_5 s^2 + C_5 C_L L_3 R_3 s^2 + C_5 C_L L_5 R_3 g_m s^2 + C_5 C_L L_5 s^2 + C_5 C_L R_3 s^2 + C_5 C_L s^2 + C_5 L_3 L_5 R_3 g_m s^2 + C_5 L_3 L_5 s^2 + C_5 L_3 R_3 s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + C_5 R_3 s^2 + C_5 s^2 + C_3 C_L L_3 L_5 R_3 g_m s^2 + C_3 C_L L_3 L_5 s^2 + C_3 C_L L_3 R_3 s^2 + C_3 C_L L_5 R_3 g_m s^2 + C_3 C_L L_5 s^2 + C_3 C_L R_3 s^2 + C_3 C_L s^2 + C_5 C_L L_3 L_5 R_3 g_m s^2 + C_5 C_L L_3 L_5 s^2 + C_5 C_L L_3 R_3 s^2 + C_5 C_L L_5 R_3 g_m s^2 + C_5 C_L L_5 s^2 + C_5 C_L R_3 s^2 + C_5 C_L s^2 + C_5 L_3 L_5 R_3 g_m s^2 + C_5 L_3 L_5 s^2 + C_5 L_3 R_3 s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + C_5 R_3 s^2 + C_5 s^2}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 L_5 R_3 g_m s^2 + C_3 C_L L_3 L_5 s^2 + C_3 C_L L_3 R_3 s^2 + C_3 C_L L_5 R_3 g_m s^2 + C_3 C_L L_5 s^2 + C_3 C_L R_3 s^2 + C_3 C_L s^2 + C_5 C_L L_3 L_5 R_3 g_m s^2 + C_5 C_L L_3 L_5 s^2 + C_5 C_L L_3 R_3 s^2 + C_5 C_L L_5 R_3 g_m s^2 + C_5 C_L L_5 s^2 + C_5 C_L R_3 s^2 + C_5 C_L s^2 + C_5 L_3 L_5 R_3 g_m s^2 + C_5 L_3 L_5 s^2 + C_5 L_3 R_3 s^2 + C_5 L_5 R_3 g_m s^2 + C_5 L_5 s^2 + C_5 R_3 s^2 + C_5 s^2}.$$

10.784 INVALID-ORDER-784 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3$$

10.785 INVALID-ORDER-785 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L$$

10.786 INVALID-ORDER-786 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4}$$

10.787 INVALID-ORDER-787 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + \dots}{\dots}$$

$$10.788 \quad \text{INVALID-ORDER-788} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L L_5 R_3 g_m s^3 + C_3 C_5 C_L L_5 R_L g_m s^3 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^2 + C_3 C_5 C_L L_3 R_3 s^2 + C_3 C_5 C_L L_3 R_L s^2 + 2 C_5 C_L L_3 L_5 R_L g_m s^3 + C_5 C_L L_3 L_5 R_3 s^3 + C_5 C_L L_3 L_5 R_L s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^3 + C_5 C_L s^3 + C_5 s^3 + R_L s^2 + R_L s + \frac{1}{C_L s}}{2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 L_5 R_3 s^4 + C_3 C_5 C_L L_3 L_5 R_L s^4 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^3 + C_3 C_5 C_L L_3 L_5 R_L g_m s^3 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^2 + C_3 C_5 C_L L_3 R_3 s^2 + C_3 C_5 C_L L_3 R_L s^2 + 2 C_5 C_L L_3 L_5 R_L g_m s^3 + C_5 C_L L_3 L_5 R_3 s^3 + C_5 C_L L_3 L_5 R_L s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^3 + C_5 C_L s^3 + C_5 s^3 + R_L s^2 + R_L s + \frac{1}{C_L s}}$$

$$10.789 \quad \text{INVALID-ORDER-789} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L \right)$$

$$H(s) = -\frac{R_L (C_5 L_5 s^2 - L_5 g_m s + 1) (C_3 L_3 R_3 s^2 + L_3 s + R_3)}{2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 L_5 R_3 s^4 + C_3 C_5 C_L L_3 L_5 R_L s^4 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^3 + C_3 C_5 C_L L_3 L_5 R_L g_m s^3 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^2 + C_3 C_5 C_L L_3 R_3 s^2 + C_3 C_5 C_L L_3 R_L s^2 + 2 C_5 C_L L_3 L_5 R_L g_m s^3 + C_5 C_L L_3 L_5 R_3 s^3 + C_5 C_L L_3 L_5 R_L s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^3 + C_5 C_L s^3 + C_5 s^3 + R_L s^2 + R_L s + \frac{1}{C_L s}}$$

$$10.790 \quad \text{INVALID-ORDER-790} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{(C_5 L_5 s^2 - L_5 g_m s + 1) (C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 C_5 C_L L_3 L_5 R_3 s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_5 C_L L_3 L_5 s^4 + C_3 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_L L_3 L_5 R_3 s^3 + C_3 C_L L_3 L_5 g_m s^3 + 2 C_3 C_L L_3 R_3 g_m s^2 + C_3 C_L L_3 s^2 + C_5 C_L L_3 L_5 s^4 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^3 + C_5 C_L s^3 + C_5 s^3 + R_L s^2 + R_L s + \frac{1}{C_L s}}$$

$$10.791 \quad \text{INVALID-ORDER-791} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 L_5 R_3 s^4 + C_3 C_5 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^3 + C_3 C_L L_3 L_5 R_3 g_m s^3 + C_3 C_L L_3 L_5 R_L g_m s^3 + C_3 C_L L_3 L_5 s^3 + C_3 C_L L_3 s^3 + C_5 C_L L_3 L_5 R_3 s^3 + C_5 C_L L_3 L_5 R_L s^3 + C_5 C_L L_3 L_5 s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^3 + C_5 C_L s^3 + C_5 s^3 + R_L s^2 + R_L s + \frac{1}{C_L s}}{C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 L_5 R_3 s^4 + C_3 C_5 C_L L_3 L_5 R_L s^4 + C_3 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^3 + C_3 C_L L_3 L_5 R_3 g_m s^3 + C_3 C_L L_3 L_5 R_L g_m s^3 + C_3 C_L L_3 L_5 s^3 + C_3 C_L L_3 s^3 + C_5 C_L L_3 L_5 R_3 s^3 + C_5 C_L L_3 L_5 R_L s^3 + C_5 C_L L_3 L_5 s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^3 + C_5 C_L s^3 + C_5 s^3 + R_L s^2 + R_L s + \frac{1}{C_L s}}$$

$$10.792 \quad \text{INVALID-ORDER-792} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_5 C_L L_3 L_5 s^4 + C_3 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_L L_3 L_5 R_L g_m s^4 + 2 C_3 C_L L_3 R_3 R_L s^3 + C_3 C_L L_3 R_3 s^3 + C_3 C_L L_3 R_L s^3 + C_3 C_L L_3 s^3 + C_5 C_L L_3 L_5 R_3 s^3 + C_5 C_L L_3 L_5 R_L s^3 + C_5 C_L L_3 L_5 s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^3 + C_5 C_L s^3 + C_5 s^3 + R_L s^2 + R_L s + \frac{1}{C_L s}}{2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_5 C_L L_3 L_5 s^4 + C_3 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_L L_3 L_5 R_L g_m s^4 + 2 C_3 C_L L_3 R_3 R_L s^3 + C_3 C_L L_3 R_3 s^3 + C_3 C_L L_3 R_L s^3 + C_3 C_L L_3 s^3 + C_5 C_L L_3 L_5 R_3 s^3 + C_5 C_L L_3 L_5 R_L s^3 + C_5 C_L L_3 L_5 s^3 + C_5 C_L L_5 R_3 R_L s^3 + C_5 C_L L_5 R_3 s^3 + C_5 C_L L_5 R_L s^3 + C_5 C_L L_5 s^3 + C_5 C_L s^3 + C_5 s^3 + R_L s^2 + R_L s + \frac{1}{C_L s}}$$

10.793 INVALID-ORDER-793 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_3s^5 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5s^4 + C_3C_LL_3L_5L_Lg_ms^5 + C_3C_LL_3L_5R_3g_ms^4 + 2C_3C_LL_3L_LR_3g_m}{(s^2 + \gamma s + \omega_n^2)^2}$$

10.794 INVALID-ORDER-794 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 q_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 q_m s^5 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3 L_5 L_L q_m s^4 + C_3 L_3 L_5 R_3 q_m s^3 + 2 C_3 L_3 L_5 s^3 + C_3 L_3 L_L s^3 + C_3 L_3 R_3 s^2 + C_3 L_5 L_L s^2 + C_3 L_5 R_3 s^2 + C_3 L_L R_3 s^2 + C_3 R_3 s^2 + C_5 L_3 L_5 L_L s^5 + C_5 L_3 L_5 R_3 s^4 + C_5 L_3 L_L R_3 q_m s^5 + C_5 L_3 L_L s^5 + C_5 L_3 R_3 s^4 + C_5 L_5 L_L q_m s^4 + C_5 L_5 R_3 q_m s^3 + C_5 L_5 s^3 + C_5 L_L R_3 s^2 + C_5 R_3 s^2 + C_L L_3 L_5 L_L R_3 q_m s^5 + C_L L_3 L_L R_3 s^4 + C_L L_3 R_3 s^2 + C_L L_5 L_L q_m s^4 + C_L L_5 R_3 q_m s^3 + C_L L_L R_3 s^2 + C_L R_3 s^2 + L_3 L_5 L_L R_3 q_m s^5 + L_3 L_5 R_3 s^4 + L_3 L_L R_3 q_m s^5 + L_3 L_L s^5 + L_3 R_3 s^2 + L_5 L_L q_m s^4 + L_5 R_3 q_m s^3 + L_L R_3 s^2 + R_3 s^2}{C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 q_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 q_m s^5 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3 L_5 L_L q_m s^4 + C_3 L_3 L_5 R_3 q_m s^3 + 2 C_3 L_3 L_5 s^3 + C_3 L_3 L_L s^3 + C_3 L_3 R_3 s^2 + C_3 L_5 L_L s^2 + C_3 L_5 R_3 s^2 + C_3 L_L R_3 s^2 + C_3 R_3 s^2 + C_5 L_3 L_5 L_L s^5 + C_5 L_3 L_5 R_3 s^4 + C_5 L_3 L_L R_3 q_m s^5 + C_5 L_3 L_L s^5 + C_5 L_3 R_3 s^4 + C_5 L_5 L_L q_m s^4 + C_5 L_5 R_3 q_m s^3 + C_5 L_5 s^3 + C_5 L_L R_3 s^2 + C_5 R_3 s^2 + C_L L_3 L_5 L_L R_3 q_m s^5 + C_L L_3 L_L R_3 s^4 + C_L L_3 R_3 s^2 + C_L L_5 L_L q_m s^4 + C_L L_5 R_3 q_m s^3 + C_L L_L R_3 s^2 + C_L R_3 s^2 + L_3 L_5 L_L R_3 q_m s^5 + L_3 L_5 R_3 s^4 + L_3 L_L R_3 q_m s^5 + L_3 L_L s^5 + L_3 R_3 s^2 + L_5 L_L q_m s^4 + L_5 R_3 q_m s^3 + L_L R_3 s^2 + R_3 s^2}.$$

10.795 INVALID-ORDER-795 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + 2C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_3L_5R_Ls^5 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5s^4 + C_3C_LL_3L_3L_5L_Rg_ms^4 + C_3C_LL_3L_3L_5L_Rs^4 + C_3C_LL_3L_3L_5L_Rs^4 + C_3C_LL_3L_3L_5L_Rs^4 + C_3C_LL_3L_3L_5L_Rs^4}{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + 2C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_3L_5R_Ls^5 + 2C_3C_5L_3L_5R_3g_ms^4 + C_3C_5L_3L_5s^4 + C_3C_LL_3L_3L_5L_Rg_ms^4 + C_3C_LL_3L_3L_5L_Rs^4 + C_3C_LL_3L_3L_5L_Rs^4 + C_3C_LL_3L_3L_5L_Rs^4 + C_3C_LL_3L_3L_5L_Rs^4}$$

10.796 INVALID-ORDER-796 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_L L_3 L_L R_3 R_L s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_L L_3 L_L R_3 R_L s^4}$$

10.797 INVALID-ORDER-797 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3s^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + 2C_3C_5L_3L_5L_LR_3g_ms^5 + C_3C_5L_3L_5L_LR_Ls^5 + 2C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3L_5R_3s^4 + \dots}{\dots}$$

10.798 INVALID-ORDER-798 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3s^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_3L_5R_3R_Ls^5 + 2C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_Ls^4 + C_3C_5L_3L_5s^4 + C_3C_5L_3R_3R_Ls^4 + C_3C_5L_3R_3s^4 + C_3C_5L_3s^4 + C_3C_5R_3R_Ls^4 + C_3C_5R_3s^4 + C_3C_5s^4}{2C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3s^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_3L_5R_3R_Ls^5 + 2C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3L_5R_3s^4 + C_3C_5L_3L_5R_Ls^4 + C_3C_5L_3L_5s^4 + C_3C_5L_3R_3R_Ls^4 + C_3C_5L_3R_3s^4 + C_3C_5L_3s^4 + C_3C_5R_3R_Ls^4 + C_3C_5R_3s^4 + C_3C_5s^4}.$$

10.799 INVALID-ORDER-799 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L \right)$

$$H(s) = \frac{R_L (C_3 L_3 R_3 s^2 + L_3 s + R_3)}{C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2}$$

10.800 INVALID-ORDER-800 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s} \right)$

$$H(s) = \frac{(C_3 L_3 R_3 s^2 + L_3 s + L_3)}{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_3 L_3 s + L_3}$$

10.801 INVALID-ORDER-801 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 R_L q_m s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L q_m s^4 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 q_m s^4 + C_3 C_5 L_3 L_5 R_L q_m s^4 + C_3 C_5 L_3 R_3 R_5 q_m s^3 + 2 C_3 C_5 L_3 R_3 R_L q_m s^3 + C_3 C_5 L_3 R_3 R_5 q_m s^3 + C_3 C_5 L_3 R_3 R_L q_m s^3 + C_3 C_5 L_3 R_3 R_5 q_m s^3 + C_3 C_5 L_3 R_3 R_L q_m s^3 + C_3 C_5 L_3 R_3 R_5 q_m s^3}{C_3 C_5 C_L L_3 L_5 R_3 R_L q_m s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L q_m s^4 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 q_m s^4 + C_3 C_5 L_3 L_5 R_L q_m s^4 + C_3 C_5 L_3 R_3 R_5 q_m s^3 + 2 C_3 C_5 L_3 R_3 R_L q_m s^3 + C_3 C_5 L_3 R_3 R_5 q_m s^3 + C_3 C_5 L_3 R_3 R_L q_m s^3 + C_3 C_5 L_3 R_3 R_5 q_m s^3 + C_3 C_5 L_3 R_3 R_L q_m s^3 + C_3 C_5 L_3 R_3 R_5 q_m s^3}$$

10.802 INVALID-ORDER-802 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^4 + C_3 C_5 L_3 R_3 R_L g_m s^4 + C_3 C_5 L_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 R_L s^4 + C_3 C_5 L_3 s^4 + C_3 C_5 R_3 R_5 g_m s^4 + C_3 C_5 R_3 R_L g_m s^4 + C_3 C_5 R_5 R_L g_m s^4 + C_3 C_5 R_L s^4 + C_3 C_5 s^4}{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^4 + C_3 C_5 L_3 R_3 R_L g_m s^4 + C_3 C_5 L_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 R_L s^4 + C_3 C_5 L_3 s^4 + C_3 C_5 R_3 R_5 g_m s^4 + C_3 C_5 R_3 R_L g_m s^4 + C_3 C_5 R_5 R_L g_m s^4 + C_3 C_5 R_L s^4 + C_3 C_5 s^4}.$$

10.803 INVALID-ORDER-803 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_R R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 L_3 L_5}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_R R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 L_3 L_5}$$

10.804 INVALID-ORDER-804 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_R R_5 g_m s^4}{\dots}$$

10.805 INVALID-ORDER-805 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_3 R_3 s^4 + 2 C_3 C_5 C_L L_3 R_5 s^4 + 2 C_3 C_5 C_L L_3 s^4 + C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 s^4 + C_3 C_5 C_L L_5 s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L L_L s^4 + C_3 C_5 C_L R_3 R_5 g_m s^3 + C_3 C_5 C_L R_3 s^3 + C_3 C_5 C_L R_5 s^3 + C_3 C_5 C_L s^3 + C_3 C_5 R_3 R_5 g_m s^3 + C_3 C_5 R_3 s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 s^3 + C_3 R_3 R_5 g_m s^2 + C_3 R_3 s^2 + C_3 R_5 s^2 + C_3 s^2 + C_5 R_3 R_5 g_m s^2 + C_5 R_3 s^2 + C_5 R_5 s^2 + C_5 s^2 + R_3 R_5 g_m s + R_3 s + R_5 s + s}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_3 R_3 s^4 + 2 C_3 C_5 C_L L_3 R_5 s^4 + 2 C_3 C_5 C_L L_3 s^4 + C_3 C_5 C_L L_5 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_5 s^4 + C_3 C_5 C_L L_5 s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L L_L s^4 + C_3 C_5 C_L R_3 R_5 g_m s^3 + C_3 C_5 C_L R_3 s^3 + C_3 C_5 C_L R_5 s^3 + C_3 C_5 C_L s^3 + C_3 C_5 R_3 R_5 g_m s^3 + C_3 C_5 R_3 s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 s^3 + C_3 R_3 R_5 g_m s^2 + C_3 R_3 s^2 + C_3 R_5 s^2 + C_3 s^2 + C_5 R_3 R_5 g_m s^2 + C_5 R_3 s^2 + C_5 R_5 s^2 + C_5 s^2 + R_3 R_5 g_m s + R_3 s + R_5 s + s}.$$

10.806 INVALID-ORDER-806 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L s^4 + C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 L s^4 + C_3 C_5 L_3 s^4 + C_3 C_5 L s^4 + C_3 C_5 s^4 + C_3 C s^4 + C_3 s^4 + C s^4 + s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L s^4 + C_3 C_5 L_3 L_L R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 L s^4 + C_3 C_5 L_3 s^4 + C_3 C_5 L s^4 + C_3 C_5 s^4 + C_3 C s^4 + C_3 s^4 + C s^4 + s^4}$$

10.807 INVALID-ORDER-807 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L$$

10.808 INVALID-ORDER-808 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

[illegible]

10.809 INVALID-ORDER-809 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$

$$H(s) = -\frac{2C_3C_5L_3L_5R_3R_5R_Lg_ms^4 + C_3C_5L_3L_5R_3R_5s^4 + C_3C_5L_3L_5R_5R_Ls^4 + C_3L_3L_5R_3R_5g_ms^3 + 2C_3L_3L_5R_3R_Lg_ms^3 + C_3L_3L_5R_3s^3 + C_3L_3L_5R_5R_Lg_ms^3 + C_3L_3L_5R_Ls^3 +$$

10.810 INVALID-ORDER-810 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 s^5 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_L L_3 L_5 R_3 s^4 + C_3 C_L L_3 R_3 R_5 s^3 + 2 C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_5 g_m s^3 + C_3 L_3 L_5 R_5 s^3 + C_3 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 s^3 + C_3 L_3 R_5 s^3 + C_3 L_5 R_3 R_5 s^3 + C_3 L_5 R_3 s^3 + C_3 L_5 R_5 s^3 + C_3 R_3 R_5 s^3 + C_3 R_3 s^3 + C_3 R_5 s^3 + C_5 L_3 L_5 R_3 R_5 s^5 + 2 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_5 L_3 L_5 R_5 s^4 + C_5 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 R_3 s^4 + C_5 C_L L_3 R_3 R_5 s^3 + 2 C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_3 L_5 R_5 g_m s^3 + C_5 L_3 L_5 R_5 s^3 + C_5 L_3 R_3 R_5 s^3 + C_5 L_3 R_3 s^3 + C_5 L_3 R_5 s^3 + C_5 L_5 R_3 R_5 s^3 + C_5 L_5 R_3 s^3 + C_5 L_5 R_5 s^3 + C_5 R_3 R_5 s^3 + C_5 R_3 s^3 + C_5 R_5 s^3}{C_3 C_5 C_L L_3 L_5 R_3 R_5 s^5 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_L L_3 L_5 R_3 s^4 + C_3 C_L L_3 R_3 R_5 s^3 + 2 C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_5 g_m s^3 + C_3 L_3 L_5 R_5 s^3 + C_3 L_3 R_3 R_5 s^3 + C_3 L_3 R_3 s^3 + C_3 L_3 R_5 s^3 + C_3 L_5 R_3 R_5 s^3 + C_3 L_5 R_3 s^3 + C_3 L_5 R_5 s^3 + C_3 R_3 R_5 s^3 + C_3 R_3 s^3 + C_3 R_5 s^3 + C_5 L_3 L_5 R_3 R_5 s^5 + 2 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_5 L_3 L_5 R_5 s^4 + C_5 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_5 C_L L_3 L_5 R_3 s^4 + C_5 C_L L_3 R_3 R_5 s^3 + 2 C_5 L_3 L_5 R_3 g_m s^3 + C_5 L_3 L_5 R_5 g_m s^3 + C_5 L_3 L_5 R_5 s^3 + C_5 L_3 R_3 R_5 s^3 + C_5 L_3 R_3 s^3 + C_5 L_3 R_5 s^3 + C_5 L_5 R_3 R_5 s^3 + C_5 L_5 R_3 s^3 + C_5 L_5 R_5 s^3 + C_5 R_3 R_5 s^3 + C_5 R_3 s^3 + C_5 R_5 s^3}$$

10.811 INVALID-ORDER-811 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L s^5 + 2 C_3 C_5 L_3 L_5 R_3 R_5 R_L q_m s^4 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_5 L_3 L_5 R_5 R_L s^4 + C_3 C_L L_3 L_5 R_3 R_5 R_L q_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^4 + C_3 C_L L_3 R_3 R_5 R_L s^3 +$$

10.812 INVALID-ORDER-812 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5R_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3R_5s^5 + C_3C_5C_LL_3L_5R_5R_Ls^5 + 2C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_LL_3L_5R_3R_5g_ms^4 + 2C_3C_LL_3L_5R_3R_Lg_m}{2C_3C_5C_LL_3L_5R_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3R_5s^5 + C_3C_5C_LL_3L_5R_5R_Ls^5 + 2C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_LL_3L_5R_3R_5g_ms^4 + 2C_3C_LL_3L_5R_3R_Lg_m}$$

$$10.813 \quad \text{INVALID-ORDER-813} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 s^5 + 2C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + 2C_3 C_L L_3 L_5 L_L R_3 g_m s^5 + C_3 C_L L_3 L_5 L_L R_5 g_m s^5}{2C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 s^5 + 2C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + 2C_3 C_L L_3 L_5 L_L R_3 g_m s^5 + C_3 C_L L_3 L_5 L_L R_5 g_m s^5}$$

$$10.814 \quad \text{INVALID-ORDER-814} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + 2C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + 2C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}$$

$$10.815 \quad \text{INVALID-ORDER-815} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + 2C_3 C_5 C_L L_3 L_5 R_3 R_5 L_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_5 s^5 + C_3 C_5 C_L L_3 L_5 R_5 L_L s^5 + 2C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + 2C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}{2C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + 2C_3 C_5 C_L L_3 L_5 R_3 R_5 L_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_5 s^5 + C_3 C_5 C_L L_3 L_5 R_5 L_L s^5 + 2C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + 2C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}$$

$$10.816 \quad \text{INVALID-ORDER-816} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^6 + 2C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^6 + 2C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}$$

$$10.817 \quad \text{INVALID-ORDER-817} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L s^6 + 2C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 s^5 + 2C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + 2C_3 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}{2C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L s^6 + 2C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 s^5 + 2C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + 2C_3 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_L L_3 L_L R_3 R_5 R_L s^4 + C_3 C_L L_3 L_L R_3 R_5 s^4}$$

10.818 INVALID-ORDER-818 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3R_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3R_5s^6 + C_3C_5C_LL_3L_5L_LR_5R_Ls^6 + C_3C_5C_LL_3L_5R_3R_5R_Ls^5 + 2C_3C_5L_3L_5R_3R_5R_Lg_ms^4 + C_3C_5L_3L_5R_3R_5s^4 + C_3C_5L_3L_5R_5R_Lg_ms^4 + C_3C_5L_3L_5R_5R_Ls^4 + C_3C_5L_3R_3R_5R_Lg_ms^4 + C_3C_5L_3R_3R_5R_Ls^4 + C_3C_5L_3R_5R_Lg_ms^4 + C_3C_5L_3R_5R_Ls^4 + C_3C_5L_5R_3R_5R_Lg_ms^4 + C_3C_5L_5R_3R_5R_Ls^4 + C_3C_5L_5R_5R_Lg_ms^4 + C_3C_5L_5R_5R_Ls^4 + C_3C_5R_3R_5R_Lg_ms^4 + C_3C_5R_3R_5R_Ls^4 + C_3C_5R_5R_Lg_ms^4 + C_3C_5R_5R_Ls^4}{2C_3C_5C_LL_3L_5L_LR_3R_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3R_5s^6 + C_3C_5C_LL_3L_5L_LR_5R_Ls^6 + C_3C_5C_LL_3L_5R_3R_5R_Ls^5 + 2C_3C_5L_3L_5R_3R_5R_Lg_ms^4 + C_3C_5L_3L_5R_3R_5s^4 + C_3C_5L_3L_5R_5R_Lg_ms^4 + C_3C_5L_3L_5R_5R_Ls^4 + C_3C_5L_3R_3R_5R_Lg_ms^4 + C_3C_5L_3R_3R_5R_Ls^4 + C_3C_5L_3R_5R_Lg_ms^4 + C_3C_5L_3R_5R_Ls^4 + C_3C_5L_5R_3R_5R_Lg_ms^4 + C_3C_5L_5R_3R_5R_Ls^4 + C_3C_5L_5R_5R_Lg_ms^4 + C_3C_5L_5R_5R_Ls^4 + C_3C_5R_3R_5R_Lg_ms^4 + C_3C_5R_3R_5R_Ls^4 + C_3C_5R_5R_Lg_ms^4 + C_3C_5R_5R_Ls^4}.$$

10.819 INVALID-ORDER-819 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2 C_3 L_3 R_3 R_5 s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 s^2 + C_3 L_3 R_L s^2 + C_3 L_5 R_3 s^2 + C_3 L_5 R_5 s^2 + C_3 L_5 R_L s^2 + C_3 R_3 R_5 s^2 + C_3 R_3 R_L s^2 + C_3 R_5 R_L s^2 + C_3 s^2}{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2 C_3 L_3 R_3 R_5 s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 s^2 + C_3 L_3 R_L s^2 + C_3 L_5 R_3 s^2 + C_3 L_5 R_5 s^2 + C_3 L_5 R_L s^2 + C_3 R_3 R_5 s^2 + C_3 R_3 R_L s^2 + C_3 R_5 R_L s^2 + C_3 s^2}$$

10.820 INVALID-ORDER-820 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + 2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_3 l}{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + 2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_3 l}$$

10.821 INVALID-ORDER-821 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 L_5 R_5 s^4}{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^6 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 s^5 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 s^5}.$$

10.822 INVALID-ORDER-822 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 L_5 s^4}{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 L_5 s^4}$$

10.823 INVALID-ORDER-823 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + 2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_5 L_3 L_5 s^4}{(s^2 + \omega_{L_3}^2)(s^2 + \omega_{L_5}^2)(s^2 + \omega_{L_L}^2)(s^2 + \omega_{R_3}^2)(s^2 + \omega_{R_5}^2)}$$

10.824 INVALID-ORDER-824 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_L$$

10.825 INVALID-ORDER-825 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_3R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_3L_5R_5s^5}{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_3R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_3L_5R_5s^5}$$

10.826 INVALID-ORDER-826 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L g_m s^5 + C_3 C_5$$

10.827 INVALID-ORDER-827 $Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L s^5}$$

$$10.828 \quad \text{INVALID-ORDER-828} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 +$$

$$10.829 \quad \text{INVALID-ORDER-829} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$$

$$H(s) = - \frac{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + 2 C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 +$$

$$10.830 \quad \text{INVALID-ORDER-830} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 +$$

$$10.831 \quad \text{INVALID-ORDER-831} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 +$$

$$10.832 \quad \text{INVALID-ORDER-832} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 R_5 s^4 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 +$$

$$10.833 \quad \text{INVALID-ORDER-833} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + 2C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + 2C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4}$$

$$10.834 \quad \text{INVALID-ORDER-834} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + 2C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + 2C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4}$$

$$10.835 \quad \text{INVALID-ORDER-835} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = -\frac{2C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + 2C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^4}$$

$$10.836 \quad \text{INVALID-ORDER-836} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + 2C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + 2C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^4}$$

$$10.837 \quad \text{INVALID-ORDER-837} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + 2C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + 2C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5}$$

$$10.838 \quad \text{INVALID-ORDER-838} \quad Z(s) = \left(\infty, \infty, \frac{L_3 s}{C_3 L_3 s^2 + 1} + R_3, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5}$$

$$10.839 \quad \text{INVALID-ORDER-839} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_3 L_3 s^2 + 1)}{C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + 2 C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 s + C_L R_3 R_5 g_m s + C_L R_3 s + 2 R_3 g_m + R_5 g_m + 1}$$

$$10.840 \quad \text{INVALID-ORDER-840} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 R_L (R_5 g_m - 1) (C_3 L_3 s^2 + 1)}{C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + 2 C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_3 R_3 R_5 R_L g_m s + C_3 R_3 R_L s + C_L R_3 R_5 R_L s}$$

$$10.841 \quad \text{INVALID-ORDER-841} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_3 L_3 s^2 + 1) (C_L R_L s + 1)}{C_3 C_L L_3 R_3 R_5 g_m s^3 + 2 C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_3 C_L L_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_L s^3 + C_3 C_L R_3 R_5 R_L g_m s^2 + C_3 C_L R_3 R_L s^2 + 2 C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 R_L s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 R_L s + C_L R_3 R_5 g_m s + C_L R_3 R_L s + 2 R_3 g_m + R_5 g_m + 1}$$

$$10.842 \quad \text{INVALID-ORDER-842} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (R_5 g_m - 1) (C_3 L_3 s^2 + 1) (C_L L_L s^2 + 1)}{2 C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 C_L L_3 L_L R_5 g_m s^4 + C_3 C_L L_3 L_L s^4 + C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + C_3 C_L L_L R_3 R_5 g_m s^3 + C_3 C_L L_L R_3 s^3 + 2 C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 R_L s^2 + C_3 R_3 R_5 g_m s + C_3 R_3 R_L s + C_L R_3 R_5 g_m s + C_L R_3 R_L s + 2 R_3 g_m + R_5 g_m + 1}$$

10.843 INVALID-ORDER-843 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{L_L R_3 s (R_5 g_m - 1) (C_3 L_3 s^2 + 1)}{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + 2 C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 L_L R_5 g_m s^3 + C_3 L_3 L_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_L R_3 R_5 g_m s^2 + C_3 L_L R_3 s^2 + C_L L_L R_3 R_5 g_m}$$

10.844 INVALID-ORDER-844 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_L L_3 L_L R_3 q_m s^4 + C_3C_L L_3 L_L R_5 q_m s^4 + C_3C_L L_3 L_L s^4 + C_3C_L L_3 R_3 R_5 q_m s^3 + 2C_3C_L L_3 R_3 R_L q_m s^3 + C_3C_L L_3 R_3 s^3 + C_3C_L L_3 R_5 R_L q_m s^3 + C_3C_L L_3 R_L s^3 + C_3C_L L_L I}{2C_3C_L L_3 L_L R_3 q_m s^4 + C_3C_L L_3 L_L R_5 q_m s^4 + C_3C_L L_3 L_L s^4 + C_3C_L L_3 R_3 R_5 q_m s^3 + 2C_3C_L L_3 R_3 R_L q_m s^3 + C_3C_L L_3 R_3 s^3 + C_3C_L L_3 R_5 R_L q_m s^3 + C_3C_L L_3 R_L s^3 + C_3C_L L_L I}$$

10.845 INVALID-ORDER-845 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{L_L R_3 R_L s (C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 R_L s^4 + C_3 L_3 L_L R_3 R_5 g_m s^3 + 2 C_3 L_3 L_L R_3 R_L g_m s^3 + C_3 L_3 L_L R_3 s^3 + C_3 L_3 L_L R_5 R_L g_m s^3 + C_3 L_3 L_L R_L s^3 + C_3 L_3 R_3 R_5 R_L g_m s^2 +$$

10.846 INVALID-ORDER-846 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + 2 C_3 L_3 L_L R_3}{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 C_L L_L R_3 R_5 R_L g_m s^3 + C_3 C_L L_L R_3 R_L s^3 + 2 C_3 L_3 L_L R_3}$$

10.847 INVALID-ORDER-847 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 C_L L_L R_3}{C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + C_3 C_L L_3 L_L R_5 R_L g_m s^4 + C_3 C_L L_3 L_L R_L s^4 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 C_L L_L R_3}$$

$$10.848 \quad \text{INVALID-ORDER-848} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad R_L \right)$$

$$H(s) = - \frac{R_3 R_L (C_5 s - g_m) (C_3 L_3 s^2 + 1)}{2C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 R_3 R_L s^2 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_3 R_3 R_L g_m s + 2C_5 R_3 R_L g_m s + C_5 R_3 s + C_5 R_L s + R_3 g_m + R_L g_m}$$

$$10.849 \quad \text{INVALID-ORDER-849} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{R_3 (C_5 s - g_m) (C_3 L_3 s^2 + 1)}{C_3 C_5 C_L L_3 R_3 s^4 + 2C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_3 R_3 g_m s + C_5 C_L R_3 s^2 + 2C_5 R_3 g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

$$10.850 \quad \text{INVALID-ORDER-850} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = - \frac{R_3 R_L (C_5 s - g_m) (C_3 L_3 s^2 + 1)}{C_3 C_5 C_L L_3 R_3 R_L s^4 + 2C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_3 R_3 R_L g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_3 R_3 R_L g_m s + C_5 C_L R_L s^2 + 2C_5 R_3 R_L g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

$$10.851 \quad \text{INVALID-ORDER-851} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{R_3 (C_5 s - g_m) (C_3 L_3 s^2 + 1) (C_L R_L s + 1)}{2C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L R_3 R_L s^3 + 2C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_3 R_3 g_m s^3 + C_3 C_L L_3 R_L g_m s^3 + C_3 R_3 R_L g_m s + C_5 C_L R_L s^2 + 2C_5 R_3 R_L g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

$$10.852 \quad \text{INVALID-ORDER-852} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{R_3 (C_5 s - g_m) (C_3 L_3 s^2 + 1) (C_L L_L s + 1)}{2C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_L R_3 s^4 + 2C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_3 L_L g_m s^4 + C_3 C_L L_3 R_3 g_m s^3 + C_3 R_3 R_L g_m s + C_5 C_L R_L s^2 + 2C_5 R_3 R_L g_m s + C_5 s + C_L R_3 g_m s + g_m}$$

$$10.853 \quad \text{INVALID-ORDER-853} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = - \frac{L_L R_3 s (C_5 s - g_m) (C_3 L_3 s^2 + 1)}{C_3 C_5 C_L L_3 L_L R_3 s^5 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_L L_3 L_L R_3 g_m s^4 + C_3 L_3 L_L g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_L R_3 g_m s^2 + C_5 C_L s^2}$$

$$10.854 \quad \text{INVALID-ORDER-854} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L R_3 R_L s^3 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_L R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_L R_3 g_m s^2 + C_5 C_L s^2}{2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L R_3 R_L s^3 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_L R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_L R_3 g_m s^2 + C_5 C_L s^2}$$

$$10.855 \quad \text{INVALID-ORDER-855} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = - \frac{L_L R_3 s (C_5 s - g_m) (C_3 L_3 s^2 + 1)}{C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3 C_5 L_3 R_3 R_L s^3 + C_3 C_5 L_L R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_L R_3 g_m s^2 + C_5 C_L s^2}$$

$$10.856 \quad \text{INVALID-ORDER-856} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = - \frac{L_L R_3 s (C_5 s - g_m) (C_3 L_3 s^2 + 1)}{2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_L R_3 R_L s^4 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L s^4 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_L R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_L R_3 g_m s^2 + C_5 C_L s^2}$$

$$10.857 \quad \text{INVALID-ORDER-857} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{1}{C_5 s}, \quad \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = - \frac{R_L \left(L_L s + \frac{1}{C_L s} \right) (C_5 s - g_m) (C_3 L_3 s^2 + 1)}{2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 C_L L_L R_3 R_L s^4 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 L_L R_3 R_L s^3 + C_3 C_L L_3 L_L R_3 R_L g_m s^4 + C_3 L_3 L_L R_3 g_m s^3 + C_3 L_3 R_3 g_m s^2 + C_3 L_L R_3 g_m s^2 + C_5 C_L s^2}$$

10.858 INVALID-ORDER-858 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L \right)$

$$H(s) = -\frac{R_3 R_L (C_3 L_3 s^2 + 1) (C_5 R_5 s - R_5 g_m + 1)}{2C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 L_3 R_3 R_5 g_m s^2 + 2C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_5 R_L g_m s^2 + C_3 L_3 R_L s^2 + C_3}$$

10.859 INVALID-ORDER-859 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{R_3 (C_3 L_3 s^2 + 1) (C_5 R_5 s - R_5 g_m + 1)}{C_3 C_5 C_L L_3 R_3 R_5 s^4 + 2 C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 R_3 R_5 s^2 + C_3 C_L L_3 R_3 R_5 g_m s^3 + C_3 C_L L_3 R_3 s^3 + 2 C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_5 g_m s^2 + C_3 L_3 s^2 + C_3 R_3 R_5 g_m s}$$

10.860 INVALID-ORDER-860 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + 2 C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_5 R_3 R_5 R_L s^2 + C_3 C_L L_3 R_3 R_5 R_L g_m s^3 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 R_3 R_5 g_m s^2 +$$

10.861 INVALID-ORDER-861 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_5s^4 + C_3C_5C_LL_3R_5R_Ls^4 + C_3C_5C_LR_3R_5R_Ls^3 + 2C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_5s^3 + C_3C_5R_3R_5s^2 + C_3C_LL_3R_3R_5g_ms^3}{\dots}$$

10.862 INVALID-ORDER-862 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + C_3C_5C_LL_3R_3R_5s^4 + C_3C_5C_LL_3R_3R_5s^4 + 2C_3C_5L_3R_3R_5g_ms^3 + C_3C_5L_3R_5s^3 + C_3C_5R_3R_5s^2 + 2C_3C_LL_3L_LR_3g_ms^4}{1}$$

$$10.863 \quad \text{INVALID-ORDER-863} \quad Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + 2 C_3 C_5 L_3 L_L R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_L R_5 s^4 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_L R_3 R_5 s^3 + C_3 C_L L_3 L_L R_3 R_5 g_m s^4 + C_3 C_L L_3 L_L R_3 s^4 + 2 C_3 L_3 L_L R_3 g_m s^3 +$$

10.864 INVALID-ORDER-864 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + 2C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_5s^4 + C_3C_5C_LL_3R_5R_Ls^4 + C_3C_5C_LL_LR_3R_5s^4 + C_3C_5C_LR_3R_5R_Ls^3 + 2C_3C_5C_LR_3R_5s^3 + 2C_3C_5C_LR_3R_5s^2 + 2C_3C_5C_LR_3R_5s + 2C_3C_5C_LR_3R_5}{2C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_5s^5 + 2C_3C_5C_LL_3R_3R_5R_Lg_ms^4 + C_3C_5C_LL_3R_3R_5s^4 + C_3C_5C_LL_3R_5R_Ls^4 + C_3C_5C_LL_LR_3R_5s^4 + C_3C_5C_LR_3R_5R_Ls^3 + 2C_3C_5C_LR_3R_5s^3 + 2C_3C_5C_LR_3R_5s^2 + 2C_3C_5C_LR_3R_5s + 2C_3C_5C_LR_3R_5}.$$

10.865 INVALID-ORDER-865 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_5 s^4 + C_3 C_5 L_3 L_L R_5 R_L s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_5 L_L R_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4}{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + 2 C_3 C_5 L_3 L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_5 s^4 + C_3 C_5 L_3 L_L R_5 R_L s^4 + C_3 C_5 L_3 R_3 R_5 R_L s^3 + C_3 C_5 L_L R_3 R_5 R_L s^3 + C_3 C_L L_3 L_L R_3 R_5 R_L g_m s^4}$$

10.866 INVALID-ORDER-866 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_3R_5s^5 + C_3C_5C_LL_3L_LR_5R_Ls^5 + C_3C_5C_LL_3L_LR_3R_5R_Ls^4 + 2C_3C_5L_3L_LR_3R_5g_ms^4 + C_3C_5L_3L_LR_5s^4 + 2C_3C_5L_3R_3R_5R_Ls^4 + 2C_3C_5L_3R_3R_5R_Ls^3 + 2C_3C_5L_3R_3R_5R_Ls^2 + 2C_3C_5L_3R_3R_5R_Ls + 2C_3C_5L_3R_3R_5R_L}{2C_3C_5C_LL_3L_LR_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_3R_5s^5 + C_3C_5C_LL_3L_LR_5R_Ls^5 + C_3C_5C_LL_3L_LR_3R_5R_Ls^4 + 2C_3C_5L_3L_LR_3R_5g_ms^4 + C_3C_5L_3L_LR_5s^4 + 2C_3C_5L_3R_3R_5R_Ls^4 + 2C_3C_5L_3R_3R_5R_Ls^3 + 2C_3C_5L_3R_3R_5R_Ls^2 + 2C_3C_5L_3R_3R_5R_Ls + 2C_3C_5L_3R_3R_5R_L}.$$

10.867 INVALID-ORDER-867 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5}{C_5 R_5 s + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_LR_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_3R_5s^5 + C_3C_5C_LL_3L_LR_5R_Ls^5 + C_3C_5C_LL_3R_3R_5R_Ls^4 + C_3C_5C_LL_3R_5R_Ls^4 + 2C_3C_5L_3R_3R_5R_Lg_ms^3 + C_3C_5L_3R_3R_5s^3}{2C_3C_5C_LL_3L_LR_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_LR_3R_5s^5 + C_3C_5C_LL_3L_LR_5R_Ls^5 + C_3C_5C_LL_3R_3R_5R_Ls^4 + C_3C_5C_LL_3R_5R_Ls^4 + 2C_3C_5L_3R_3R_5R_Lg_ms^3 + C_3C_5L_3R_3R_5s^3}.$$

$$10.868 \quad \text{INVALID-ORDER-868} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad R_5 + \frac{1}{C_5 s}, \quad R_L \right)$$

$$H(s) = \frac{R_3 R_L (C_3 L_3 s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_L s^2 + C_3 R_3 s^2 + C_3 R_L s^2 + C_3 g_m s^2 + C_3 s^2}$$

$$10.869 \quad \text{INVALID-ORDER-869} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad R_5 + \frac{1}{C_5 s}, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_3 R_3 g_m s + C_3 s}$$

$$10.870 \quad \text{INVALID-ORDER-870} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad R_5 + \frac{1}{C_5 s}, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_3 R_3 g_m s + C_3 s}$$

$$10.871 \quad \text{INVALID-ORDER-871} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad R_5 + \frac{1}{C_5 s}, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L R_3 R_5 R_L g_m s^3 + C_3 C_5 C_L R_3 R_L s^3 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_3 R_3 g_m s + C_3 s}$$

$$10.872 \quad \text{INVALID-ORDER-872} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad R_5 + \frac{1}{C_5 s}, \quad L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 R_5 g_m s - C_5 s + g_m)}{2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_L R_3 R_5 g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 R_3 R_5 R_L g_m s^2 + C_3 C_5 R_3 R_L s^2 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_3 R_3 g_m s + C_3 s}$$

10.873 INVALID-ORDER-873 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L R_5 s^3 + C_3 C_5 L_L s^3 + C_3 C_5 L s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + C_3 C_5 s^2 + C_3 C_3 L_3 L_L R_3 R_5 g_m s + C_3 C_3 L_3 L_L R_3 R_5 s + C_3 C_3 L_3 L_L R_3 s + C_3 C_3 L_3 L_L R_5 s + C_3 C_3 L_3 L_L s + C_3 C_3 L_3 R_3 R_5 g_m + C_3 C_3 L_3 R_3 R_5 + C_3 C_3 L_3 R_5 g_m + C_3 C_3 L_3 R_5 + C_3 C_3 L_3 s + C_3 C_3 L_L R_3 R_5 g_m + C_3 C_3 L_L R_3 R_5 + C_3 C_3 L_L R_5 g_m + C_3 C_3 L_L R_5 + C_3 C_3 L_L s + C_3 C_3 L s + C_3 C_3 R_3 R_5 g_m + C_3 C_3 R_3 R_5 + C_3 C_3 R_3 s + C_3 C_3 R_5 g_m + C_3 C_3 R_5 + C_3 C_3 s}{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_L R_3 R_5 g_m s^3 + C_3 C_5 L_L R_3 s^3 + C_3 C_5 L_L R_5 g_m s^3 + C_3 C_5 L_L R_5 s^3 + C_3 C_5 L_L s^3 + C_3 C_5 L s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 R_5 s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 g_m s^2 + C_3 C_5 R_5 s^2 + C_3 C_5 s^2 + C_3 C_3 L_3 L_L R_3 R_5 g_m s + C_3 C_3 L_3 L_L R_3 R_5 s + C_3 C_3 L_3 L_L R_3 s + C_3 C_3 L_3 L_L R_5 s + C_3 C_3 L_3 L_L s + C_3 C_3 L_3 R_3 R_5 g_m + C_3 C_3 L_3 R_3 R_5 + C_3 C_3 L_3 R_5 g_m + C_3 C_3 L_3 R_5 + C_3 C_3 L_3 s + C_3 C_3 L_L R_3 R_5 g_m + C_3 C_3 L_L R_3 R_5 + C_3 C_3 L_L R_5 g_m + C_3 C_3 L_L R_5 + C_3 C_3 L_L s + C_3 C_3 L s + C_3 C_3 R_3 R_5 g_m + C_3 C_3 R_3 R_5 + C_3 C_3 R_3 s + C_3 C_3 R_5 g_m + C_3 C_3 R_5 + C_3 C_3 s}$$

10.874 INVALID-ORDER-874 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_5C_LL_3L_LR_3g_ms^5 + C_3C_5C_LL_3L_LR_5g_ms^5 + C_3C_5C_LL_3L_Ls^5 + C_3C_5C_LL_3R_3R_5g_ms^4 + 2C_3C_5C_LL_3R_3RLg_ms^4 + C_3C_5C_LL_3R_3s^4 + C_3C_5C_LL_3R_5RLg_ms^4 + C_3C_5C$$

10.875 INVALID-ORDER-875 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3}{C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4 + C_3 C_5 L_3 L_L R_5 R_L g_m s^4 + C_3 C_5 L_3 L_L R_L s^4 + C_3}$$

10.876 INVALID-ORDER-876 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L L_L R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 C_L L_L R_L g_m s^3 + C_3 C_5 C_L L_L R_L s^3 + C_3 C_5 C_L L_L R_L g_m s^2 + C_3 C_5 C_L L_L R_L s^2 + C_3 C_5 C_L L_L R_L g_m s + C_3 C_5 C_L L_L R_L s}{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_L R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 C_L L_L R_5 R_L g_m s^4 + C_3 C_5 C_L L_L R_5 s^4 + C_3 C_5 C_L L_L R_L g_m s^4 + C_3 C_5 C_L L_L R_L s^4 + C_3 C_5 C_L L_L R_L g_m s^3 + C_3 C_5 C_L L_L R_L s^3 + C_3 C_5 C_L L_L R_L g_m s^2 + C_3 C_5 C_L L_L R_L s^2 + C_3 C_5 C_L L_L R_L g_m s + C_3 C_5 C_L L_L R_L s}$$

10.877 INVALID-ORDER-877 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 R_L s^4}{C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 R_L s^4}$$

$$10.878 \quad \text{INVALID-ORDER-878} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + \frac{1}{C_5 s}, \quad R_L \right)$$

$$H(s) = \frac{R_3 R_L (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_L s^2 + C_3 L_3 R_3 g_m s^2 + C_3 L_3 R_L g_m s^2 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 + C_3 L_5 R_3 s^2 + C_3 L_5 R_L s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_3 R_3 s + C_3 R_L s + C_3 g_m + C_3}$$

$$10.879 \quad \text{INVALID-ORDER-879} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + \frac{1}{C_5 s}, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 s^2 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_3 R_3 s + C_3 R_L s + C_3 g_m + C_3}$$

$$10.880 \quad \text{INVALID-ORDER-880} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + \frac{1}{C_5 s}, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_L s^2 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_3 R_3 s + C_3 R_L s + C_3 g_m + C_3}$$

$$10.881 \quad \text{INVALID-ORDER-881} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + \frac{1}{C_5 s}, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L R_3 R_L s^3 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 g_m s^2 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_3 R_3 s + C_3 R_L s + C_3 g_m + C_3}$$

$$10.882 \quad \text{INVALID-ORDER-882} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + \frac{1}{C_5 s}, \quad L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 - C_5 s + g_m)}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_5 L_L R_3 g_m s^5 + C_3 C_5 C_L L_L R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_L g_m s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 g_m s^2 + C_3 C_L L_3 R_3 g_m s^3 + C_3 L_3 g_m s^2 + C_3 R_3 g_m s + C_3 R_L g_m s + C_3 R_3 s + C_3 R_L s + C_3 g_m + C_3}$$

10.883 INVALID-ORDER-883 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 s^3}{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L s^4 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_5 L_L R_3 g_m s^4 + C_3 C_5 L_5 L_L s^4 + C_3 C_5 L_5 R_3 s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 s^3}.$$

10.884 INVALID-ORDER-884 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L$$

10.885 INVALID-ORDER-885 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{1}{C_{Ls} + \frac{1}{R_L + \frac{1}{L_L s}}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 s^4}$$

10.886 INVALID-ORDER-886 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_L R_3 I$$

10.887 INVALID-ORDER-887 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 R_3 R_L s^5 + C_3 C_5 C_L L_3 R_L s^5 + C_3 C_5 C_L L_3 s^5 + C_3 C_5 C_L L_5 R_3 R_L s^5 + C_3 C_5 C_L L_5 R_L s^5 + C_3 C_5 C_L L_5 s^5 + C_3 C_5 C_L R_3 R_L s^5 + C_3 C_5 C_L R_L s^5 + C_3 C_5 C_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^5 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_L R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 s^5 + C_3 C_5 L_3 R_3 R_L s^5 + C_3 C_5 L_3 R_L s^5 + C_3 C_5 L_3 s^5 + C_3 C_5 L_5 R_3 R_L s^5 + C_3 C_5 L_5 R_L s^5 + C_3 C_5 L_5 s^5 + C_3 C_5 R_3 R_L s^5 + C_3 C_5 R_L s^5 + C_3 C_5 s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_L s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_3 L_5 s^5 + C_3 C_5 C_L L_3 R_3 R_L s^5 + C_3 C_5 C_L L_3 R_L s^5 + C_3 C_5 C_L L_3 s^5 + C_3 C_5 C_L L_5 R_3 R_L s^5 + C_3 C_5 C_L L_5 R_L s^5 + C_3 C_5 C_L L_5 s^5 + C_3 C_5 C_L R_3 R_L s^5 + C_3 C_5 C_L R_L s^5 + C_3 C_5 C_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^5 + 2 C_3 C_5 L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_L R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 s^5 + C_3 C_5 L_3 R_3 R_L s^5 + C_3 C_5 L_3 R_L s^5 + C_3 C_5 L_3 s^5 + C_3 C_5 L_5 R_3 R_L s^5 + C_3 C_5 L_5 R_L s^5 + C_3 C_5 L_5 s^5 + C_3 C_5 R_3 R_L s^5 + C_3 C_5 R_L s^5 + C_3 C_5 s^5}.$$

$$10.888 \quad \text{INVALID-ORDER-888} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{L_5 s}{C_5 L_5 s^2 + 1}, \quad R_L \right)$$

$$H(s) = - \frac{R_3 R_L (C_3 L_3 s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{2C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_L g_m s^3 + 2C_3 L_3 R_3 R_L g_m s^2 + C_3 L_3 R_3 s^2 + C_3 L_3 R_L s^2 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 + C_3 L_5 R_3 s^2 + C_3 L_5 R_L s^2 + C_3 L_5 s^2 + C_3}$$

$$10.889 \quad \text{INVALID-ORDER-889} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{L_5 s}{C_5 L_5 s^2 + 1}, \quad \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 s^2 - L_5 g_m s + 1)}{C_3 C_5 C_L L_3 L_5 R_3 s^5 + 2C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_L L_3 R_3 s^3 + C_3 L_3 L_5 g_m s^3 + 2C_3 L_3 R_3 g_m s^2 + C_3 L_3 s^2 + C_3 L_5 R_3 g_m s^2 + C_3 L_5 R_L g_m s^2 + C_3 L_5 R_3 s^2 + C_3 L_5 R_L s^2 + C_3 L_5 s^2 + C_3}$$

$$10.890 \quad \text{INVALID-ORDER-890} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{L_5 s}{C_5 L_5 s^2 + 1}, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + 2C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 C_L L_3 L_5 R_3 R_L g_m s^4 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_5 R_3 g_m s^3 + C_3 L_5 R_L g_m s^3 + C_3 L_5 R_3 s^3 + C_3 L_5 R_L s^3 + C_3 L_5 s^3 + C_3}$$

$$10.891 \quad \text{INVALID-ORDER-891} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{L_5 s}{C_5 L_5 s^2 + 1}, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{2C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_L s^4 + 2C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_3 L_5 R_3 g_m s^4 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_5 R_3 g_m s^3 + C_3 L_5 R_L g_m s^3 + C_3 L_5 R_3 s^3 + C_3 L_5 R_L s^3 + C_3 L_5 s^3 + C_3}$$

$$10.892 \quad \text{INVALID-ORDER-892} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{L_5 s}{C_5 L_5 s^2 + 1}, \quad L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{2C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_5 L_L R_3 s^5 + 2C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_3 L_5 L_L g_m s^5 + C_3 C_L L_3 R_3 R_L s^3 + C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_L g_m s^3 + C_3 L_5 R_3 g_m s^3 + C_3 L_5 R_L g_m s^3 + C_3 L_5 R_3 s^3 + C_3 L_5 R_L s^3 + C_3 L_5 s^3 + C_3}$$

10.893 INVALID-ORDER-893 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 g_m s^5 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3 L_5 L_L g_m s^4 + C_3 L_3 L_5 L_L s^4 + C_3 L_3 L_5 R_3 s^4 + C_3 L_3 L_L R_3 s^4 + C_3 L_3 L_L s^4 + C_3 L_3 R_3 s^4 + C_3 L_3 s^4 + C_3 L_5 L_L R_3 s^4 + C_3 L_5 L_L s^4 + C_3 L_5 R_3 s^4 + C_3 L_5 s^4 + C_3 L_L R_3 s^4 + C_3 L_L s^4 + C_3 R_3 s^4 + C_3 s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_5 L_L R_3 s^4 + C_3 C_L L_3 L_5 L_L R_3 g_m s^5 + C_3 C_L L_3 L_L R_3 s^4 + C_3 L_3 L_5 L_L g_m s^4 + C_3 L_3 L_5 L_L s^4 + C_3 L_3 L_5 R_3 s^4 + C_3 L_3 L_L R_3 s^4 + C_3 L_3 L_L s^4 + C_3 L_3 R_3 s^4 + C_3 L_3 s^4 + C_3 L_5 L_L R_3 s^4 + C_3 L_5 L_L s^4 + C_3 L_5 R_3 s^4 + C_3 L_5 s^4 + C_3 L_L R_3 s^4 + C_3 L_L s^4 + C_3 R_3 s^4 + C_3 s^4}$$

10.894 INVALID-ORDER-894 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3q_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + 2C_3C_5C_LL_3L_5R_3R_Lq_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_3L_5R_Ls^5 + C_3C_5C_LL_5L_LR_3s^5 + C_3C_5C_LL_5R_3R_Ls^4 + 2C_3C_5C_LL_5R_3s^4 + 2C_3C_5C_LL_5R_Ls^4 + 2C_3C_5C_LL_5L_Rs^4 + 2C_3C_5C_LL_5Ls^4 + 2C_3C_5C_LL_5R_Ls^3 + 2C_3C_5C_LL_5R_3s^3 + 2C_3C_5C_LL_5Ls^3 + 2C_3C_5C_LL_5R_Ls^2 + 2C_3C_5C_LL_5R_3s^2 + 2C_3C_5C_LL_5Ls^2 + 2C_3C_5C_LL_5R_Ls + 2C_3C_5C_LL_5R_3 + 2C_3C_5C_LL_5L}{2C_3C_5C_LL_3L_5L_LR_3q_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + 2C_3C_5C_LL_3L_5R_3R_Lq_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_3L_5R_Ls^5 + C_3C_5C_LL_5L_LR_3s^5 + C_3C_5C_LL_5R_3R_Ls^4 + 2C_3C_5C_LL_5R_3s^4 + 2C_3C_5C_LL_5R_Ls^4 + 2C_3C_5C_LL_5L_Rs^4 + 2C_3C_5C_LL_5Ls^4 + 2C_3C_5C_LL_5R_Ls^3 + 2C_3C_5C_LL_5R_3s^3 + 2C_3C_5C_LL_5Ls^3 + 2C_3C_5C_LL_5R_Ls^2 + 2C_3C_5C_LL_5R_3s^2 + 2C_3C_5C_LL_5Ls^2 + 2C_3C_5C_LL_5R_Ls + 2C_3C_5C_LL_5R_3 + 2C_3C_5C_LL_5L}.$$

10.895 INVALID-ORDER-895 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_L s^4 + C_3 C_5 L_5 L_L R_3 R_L s^4 + C_3 C_L L_3 L_5 L_L R_3 R_L g_m s^5 +$$

10.896 INVALID-ORDER-896 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3s^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_5L_LR_3R_Ls^5 + 2C_3C_5L_3L_5L_LR_3g_ms^5 + C_3C_5L_3L_5L_LR_Ls^5 + 2C_3C_5L_3L_5R_3R_Lg_ms^5 + C_3C_5L_3L_5R_3R_Ls^5 + C_3C_5L_3L_5R_Lg_ms^5 + C_3C_5L_3L_5R_Ls^5 + C_3C_5L_3R_3R_Lg_ms^5 + C_3C_5L_3R_3R_Ls^5 + C_3C_5L_3R_Lg_ms^5 + C_3C_5L_3R_Ls^5 + C_3C_5L_5L_LR_3R_Lg_ms^5 + C_3C_5L_5L_LR_3R_Ls^5 + C_3C_5L_5L_LR_Lg_ms^5 + C_3C_5L_5L_LR_Ls^5 + C_3C_5L_5R_3R_Lg_ms^5 + C_3C_5L_5R_3R_Ls^5 + C_3C_5L_5R_Lg_ms^5 + C_3C_5L_5R_Ls^5 + C_3C_5R_3R_Lg_ms^5 + C_3C_5R_3R_Ls^5 + C_3C_5R_Lg_ms^5 + C_3C_5R_Ls^5}{2C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3s^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_5L_LR_3R_Ls^5 + 2C_3C_5L_3L_5L_LR_3g_ms^5 + C_3C_5L_3L_5L_LR_Ls^5 + 2C_3C_5L_3L_5R_3R_Lg_ms^5 + C_3C_5L_3L_5R_3R_Ls^5 + C_3C_5L_3L_5R_Lg_ms^5 + C_3C_5L_3L_5R_Ls^5 + C_3C_5L_3R_3R_Lg_ms^5 + C_3C_5L_3R_3R_Ls^5 + C_3C_5L_3R_Lg_ms^5 + C_3C_5L_3R_Ls^5 + C_3C_5L_5L_LR_3R_Lg_ms^5 + C_3C_5L_5L_LR_3R_Ls^5 + C_3C_5L_5L_LR_Lg_ms^5 + C_3C_5L_5L_LR_Ls^5 + C_3C_5L_5R_3R_Lg_ms^5 + C_3C_5L_5R_3R_Ls^5 + C_3C_5L_5R_Lg_ms^5 + C_3C_5L_5R_Ls^5 + C_3C_5R_3R_Lg_ms^5 + C_3C_5R_3R_Ls^5 + C_3C_5R_Lg_ms^5 + C_3C_5R_Ls^5}.$$

10.897 INVALID-ORDER-897 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3s^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_3L_5R_3R_Ls^5 + C_3C_5C_LL_5L_LR_3R_Ls^5 + 2C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3L_5R_3R_Ls^4}{2C_3C_5C_LL_3L_5L_LR_3R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3s^6 + C_3C_5C_LL_3L_5L_LR_Ls^6 + C_3C_5C_LL_3L_5R_3R_Ls^5 + C_3C_5C_LL_5L_LR_3R_Ls^5 + 2C_3C_5L_3L_5R_3R_Lg_ms^4 + C_3C_5L_3L_5R_3R_Ls^4}.$$

$$\mathbf{10.898 \quad INVALID-ORDER-898} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + R_5 + \frac{1}{C_5 s}, \quad R_L \right)$$

$$H(s) = \frac{R_3 R_L (C_3 L_3 s^2 + 1)}{C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_5 g_m s^3 + C_3 C_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 s^3 + C_3 C_5 R_5 R_L g_m s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 R_L R_5 g_m s^3 + C_3 C_5 R_L s^3 + C_3 C_5 s^3}$$

$$\mathbf{10.899 \quad INVALID-ORDER-899} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + R_5 + \frac{1}{C_5 s}, \quad \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 + 1)}{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 L_3 L_5 g_m s^4 + 2 C_3 C_5 L_3 R_3 g_m s^3 + C_3 C_5 L_3 R_5 g_m s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 L_5 R_3 g_m s^3 + C_3 C_5 R_3 R_5 g_m s^3 + C_3 C_5 R_3 s^3 + C_3 C_5 R_5 R_L g_m s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 R_L R_5 g_m s^3 + C_3 C_5 R_L s^3 + C_3 C_5 s^3}$$

$$\mathbf{10.900 \quad INVALID-ORDER-900} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + R_5 + \frac{1}{C_5 s}, \quad \frac{R_L}{C_L R_L s + 1} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 + 1)}{C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_5 g_m s^3 + C_3 C_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 s^3 + C_3 C_5 R_5 R_L g_m s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 R_L R_5 g_m s^3 + C_3 C_5 R_L s^3 + C_3 C_5 s^3}$$

$$\mathbf{10.901 \quad INVALID-ORDER-901} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + R_5 + \frac{1}{C_5 s}, \quad R_L + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 + 1)}{C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2 C_3 C_5 C_L L_3 R_3 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_5 g_m s^3 + C_3 C_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 s^3 + C_3 C_5 R_5 R_L g_m s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 R_L R_5 g_m s^3 + C_3 C_5 R_L s^3 + C_3 C_5 s^3}$$

$$\mathbf{10.902 \quad INVALID-ORDER-902} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad L_5 s + R_5 + \frac{1}{C_5 s}, \quad L_L s + \frac{1}{C_L s} \right)$$

$$H(s) = \frac{R_3 (C_3 L_3 s^2 + 1) (C_5 L_5 g_m s^2 + 1)}{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + C_3 C_5 C_L L_3 R_3 s^4 + C_3 C_5 C_L L_5 R_3 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 s^4 + C_3 C_5 C_L L_5 R_L R_5 g_m s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_L g_m s^4 + C_3 C_5 L_3 R_3 R_5 g_m s^3 + 2 C_3 C_5 L_3 R_3 R_L g_m s^3 + C_3 C_5 L_3 R_3 s^3 + C_3 C_5 L_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 R_5 g_m s^3 + C_3 C_5 R_3 R_L g_m s^3 + C_3 C_5 R_3 s^3 + C_3 C_5 R_5 R_L g_m s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 R_L R_5 g_m s^3 + C_3 C_5 R_L s^3 + C_3 C_5 s^3}$$

10.903 INVALID-ORDER-903 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 g_m s^4 + 2 C_3 C_5 L_3 L_L R_3 g_m s^4 + C_3 C_5 L_3 L_L R_5 g_m s^4 + C_3 C_5 L_3 L_L R_3 R_5 g_m s^4}.$$

10.904 INVALID-ORDER-904 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 g_m s^5 + C_3 C_5 C_L L_3 L_L R_5 g_m s^5 + C_3 C_5 C_L L_3 L_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 g_m s^4 + 2 C_3$$

10.905 INVALID-ORDER-905 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L s^4 + C_3 C_5 L_3 L_L R_3 R_L s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L g_m s^4 + C_3 C_5 L_3 L_L R_3 R_L s^4 + C_3 C_5 L_3 L_L R_3 R_L s^4}$$

10.906 INVALID-ORDER-906 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 R_L g_m s^5 + C_3 C_5 C_L L$$

10.907 INVALID-ORDER-907 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, L_5 s + R_5 + \frac{1}{C_5 s}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_3 L_R s^5 + C_3 C_5 C_L L_3 R_3 s^5 + C_3 C_5 C_L L_3 R_5 s^5 + C_3 C_5 C_L L_R s^5 + C_3 C_5 C_L R_3 s^5 + C_3 C_5 C_L R_5 s^5 + C_3 C_5 C_R L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_R L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_R L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_R L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_R L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_R L_3 L_L R_3 s^5 + C_3 C_5 C_R L_3 L_L R_5 s^5 + C_3 C_5 C_R L_3 L_R s^5 + C_3 C_5 C_R L_3 R_3 s^5 + C_3 C_5 C_R L_3 R_5 s^5 + C_3 C_5 C_R L_R s^5 + C_3 C_5 C_R R_3 s^5 + C_3 C_5 C_R R_5 s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_L R_3 s^5 + C_3 C_5 C_L L_3 L_L R_5 s^5 + C_3 C_5 C_L L_3 L_R s^5 + C_3 C_5 C_L L_3 R_3 s^5 + C_3 C_5 C_L L_3 R_5 s^5 + C_3 C_5 C_L L_R s^5 + C_3 C_5 C_L R_3 s^5 + C_3 C_5 C_L R_5 s^5 + C_3 C_5 C_R L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_R L_3 L_5 L_L R_L g_m s^6 + C_3 C_5 C_R L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_R L_3 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 C_R L_3 L_L R_3 R_L g_m s^5 + C_3 C_5 C_R L_3 L_L R_3 s^5 + C_3 C_5 C_R L_3 L_L R_5 s^5 + C_3 C_5 C_R L_3 L_R s^5 + C_3 C_5 C_R L_3 R_3 s^5 + C_3 C_5 C_R L_3 R_5 s^5 + C_3 C_5 C_R L_R s^5 + C_3 C_5 C_R R_3 s^5 + C_3 C_5 C_R R_5 s^5}.$$

10.908 INVALID-ORDER-908 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L \right)$

$$H(s) = -\frac{2C_3C_5L_5L_5R_3R_5R_Lg_ms^4 + C_3C_5L_3L_5R_3R_5s^4 + C_3C_5L_3L_5R_5R_Ls^4 + C_3C_5L_5R_3R_5R_Ls^3 + C_3L_3L_5R_3R_5g_ms^3 + 2C_3L_3L_5R_3R_Lg_ms^3 + C_3L_3L_5R_3s^3 + C_3L_3L_5R_5R_Lg_ms^3}{2C_3C_5L_5L_5R_3R_5R_Lg_ms^4 + C_3C_5L_3L_5R_3R_5s^4 + C_3C_5L_3L_5R_5R_Ls^4 + C_3C_5L_5R_3R_5R_Ls^3 + C_3L_3L_5R_3R_5g_ms^3 + 2C_3L_3L_5R_3R_Lg_ms^3 + C_3L_3L_5R_3s^3 + C_3L_3L_5R_5R_Lg_ms^3}$$

10.909 INVALID-ORDER-909 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 s^5 + 2 C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_5 s^4 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_L L_3 L_5 R_3 s^4 + C_3 C_L L_3 R_3 R_5 s^3 + 2 C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_3 s^3}{C_3 C_5 C_L L_3 L_5 R_3 R_5 s^6 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_5 s^5 + C_3 C_5 C_L L_5 R_3 R_5 s^4 + C_3 C_5 C_L L_5 R_5 s^4 + C_3 C_5 C_L R_3 R_5 s^3 + C_3 C_L L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_L L_3 L_5 R_3 s^4 + C_3 C_L L_3 R_3 R_5 s^3 + 2 C_3 L_3 L_5 R_3 g_m s^3 + C_3 L_3 L_5 R_3 s^3}$$

10.910 INVALID-ORDER-910 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L s^5 + 2 C_3 C_5 L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_5 L_3 L_5 R_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 R_L s^3 + C_3 C_L L_3 L_5 R_3 R_5 R_L g_m s^4 + C_3 C_L L_3 L_5 R_3 R_L s^4 +$$

10.911 INVALID-ORDER-911 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5R_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3R_5s^5 + C_3C_5C_LL_3L_5R_5R_Ls^5 + C_3C_5C_LL_5R_3R_5R_Ls^4 + 2C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_5L_5R_3R_5s^3 + C_3C_5L_5R_5s^2}{2C_3C_5C_LL_3L_5R_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3R_5s^5 + C_3C_5C_LL_3L_5R_5R_Ls^5 + C_3C_5C_LL_5R_3R_5R_Ls^4 + 2C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_5L_5R_3R_5s^3 + C_3C_5L_5R_5s^2}.$$

10.912 INVALID-ORDER-912 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3R_5g_ms^6 + C_3C_5C_LL_3L_5L_LR_5s^6 + C_3C_5C_LL_3L_5R_3R_5s^5 + C_3C_5C_LL_5L_LR_3R_5s^5 + 2C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_5L_5R_3R_5s^3 + 2C_3C_5L_5R_5s^2 + 2C_3C_5L_3R_3R_5s^2 + 2C_3C_5L_3R_5s^2 + 2C_3C_5L_5R_3s^2 + 2C_3C_5L_5R_5s^2 + 2C_3C_5R_3R_5s^2 + 2C_3C_5R_3s^2 + 2C_3C_5R_5s^2 + 2C_3C_5s^2}{2C_3C_5C_LL_3L_5L_LR_3R_5g_ms^6 + C_3C_5C_LL_3L_5L_LR_5s^6 + C_3C_5C_LL_3L_5R_3R_5s^5 + C_3C_5C_LL_5L_LR_3R_5s^5 + 2C_3C_5L_3L_5R_3R_5g_ms^4 + C_3C_5L_3L_5R_5s^4 + C_3C_5L_5R_3R_5s^3 + 2C_3C_5L_5R_5s^2 + 2C_3C_5L_3R_3R_5s^2 + 2C_3C_5L_3R_5s^2 + 2C_3C_5L_5R_3s^2 + 2C_3C_5L_5R_5s^2 + 2C_3C_5R_3R_5s^2 + 2C_3C_5R_3s^2 + 2C_3C_5R_5s^2 + 2C_3C_5s^2}.$$

10.913 INVALID-ORDER-913 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 s^4 + C_3 C_5 L_5 L_L R_3 R_5 s^4 + C_3 C_L L_3 L_5 L_L R_3 R_5 g_m s^5 + C_3 C_L L_3 L_5 L_L R_3 s^5 + C_3 C_L L_3 L_5 L_L R_5 s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 s^7 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^7 + C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 s^6}.$$

10.914 INVALID-ORDER-914 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3R_5g_ms^6 + C_3C_5C_LL_3L_5L_LR_5s^6 + 2C_3C_5C_LL_3L_5R_3R_5R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3R_5s^5 + C_3C_5C_LL_3L_5R_5R_Ls^5 + C_3C_5C_LL_5L_LR_3R_5s^5 + C_3C_5C_L$$

10.915 INVALID-ORDER-915 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 C_5 L_5 L_L R_3 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_5 L_L R_3 R_5 R_L s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_5 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 R_L s^4 + C_3 C_5 L_5 L_L R_3 R_5 R_L s^4 + C_3 C_L L_3 L_5 L_5 L_L R_3 R_5 R_L s^4}$$

10.916 INVALID-ORDER-916 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3R_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3R_5s^6 + C_3C_5C_LL_3L_5L_LR_5R_Ls^6 + C_3C_5C_LL_5L_LR_3R_5R_Ls^5 + 2C_3C_5L_3L_5L_LR_3R_5g_ms^5 + C_3C_5L_3L_5L_LR_5s^5 + 2C_3C_5L_3L_5L_LR_5R_Ls^5 + 2C_3C_5L_3L_5L_LR_5R_Lg_ms^4 + C_3C_5L_3L_5L_LR_5s^4 + C_3C_5L_3L_5L_LR_5R_Ls^4 + C_3C_5L_3L_5L_LR_5R_Lg_ms^3 + C_3C_5L_3L_5L_LR_5s^3 + C_3C_5L_3L_5L_LR_5R_Ls^3 + C_3C_5L_3L_5L_LR_5R_Lg_ms^2 + C_3C_5L_3L_5L_LR_5s^2 + C_3C_5L_3L_5L_LR_5R_Ls^2 + C_3C_5L_3L_5L_LR_5R_Lg_ms + C_3C_5L_3L_5L_LR_5s + C_3C_5L_3L_5L_LR_5R_Ls + C_3C_5L_3L_5L_LR_5R_L}{2C_3C_5C_LL_3L_5L_LR_3R_5R_Lg_ms^6 + C_3C_5C_LL_3L_5L_LR_3R_5s^6 + C_3C_5C_LL_3L_5L_LR_5R_Ls^6 + C_3C_5C_LL_5L_LR_3R_5R_Ls^5 + 2C_3C_5L_3L_5L_LR_3R_5g_ms^5 + C_3C_5L_3L_5L_LR_5s^5 + 2C_3C_5L_3L_5L_LR_5R_Ls^5 + 2C_3C_5L_3L_5L_LR_5R_Lg_ms^4 + C_3C_5L_3L_5L_LR_5s^4 + C_3C_5L_3L_5L_LR_5R_Ls^4 + C_3C_5L_3L_5L_LR_5R_Lg_ms^3 + C_3C_5L_3L_5L_LR_5s^3 + C_3C_5L_3L_5L_LR_5R_Ls^3 + C_3C_5L_3L_5L_LR_5R_Lg_ms^2 + C_3C_5L_3L_5L_LR_5s^2 + C_3C_5L_3L_5L_LR_5R_Ls^2 + C_3C_5L_3L_5L_LR_5R_Lg_ms + C_3C_5L_3L_5L_LR_5s + C_3C_5L_3L_5L_LR_5R_Ls + C_3C_5L_3L_5L_LR_5R_L}.$$

10.917 INVALID-ORDER-917 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{1}{C_5 s + \frac{1}{R_5} + \frac{1}{L_5 s}}, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = -\frac{2C_3C_5C_L L_3L_5L_L R_3R_5R_L g_m s^6 + C_3C_5C_L L_3L_5L_L R_3R_5 s^6 + C_3C_5C_L L_3L_5L_L R_5R_L s^6 + C_3C_5C_L L_3L_5R_3R_5R_L s^5 + C_3C_5C_L L_5L_L R_3R_5R_L s^5 + 2C_3C_5L_3L_5R_3R_5R_L g_m s}{\dots}$$

10.918 INVALID-ORDER-918 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L \right)$

$$H(s) = \frac{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 L_3 L_5 R_3 g_m s^3}{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_L s^3 + C_3 L_3 L_5 R_3 g_m s^3}$$

10.919 INVALID-ORDER-919 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 q_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + 2 C_3 C_5 L_3 L_5 R_3 q_m s^4 + C_3 C_5 L_3 L_5 R_5 q_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 R_5 q_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_3 L_5 R_3 q_m s^4 + C_3 C_L L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_5 R_3 R_5 q_m s^3 + C_3 C_L L_5 R_3 s^3 + C_3 C_L L_5 s^3 + C_3 C_L R_3 R_5 q_m s^2 + C_3 C_L R_3 s^2 + C_3 C_L s^2 + C_3 R_3 R_5 q_m s + C_3 R_3 s + C_3 s}{C_3 C_5 C_L L_3 L_5 R_3 R_5 q_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + 2 C_3 C_5 L_3 L_5 R_3 q_m s^4 + C_3 C_5 L_3 L_5 R_5 q_m s^4 + C_3 C_5 L_3 L_5 s^4 + C_3 C_5 L_5 R_3 R_5 q_m s^3 + C_3 C_5 L_5 R_3 s^3 + C_3 C_L L_3 L_5 R_3 q_m s^4 + C_3 C_L L_3 L_5 R_3 s^4 + C_3 C_L L_3 L_5 s^4 + C_3 C_L L_5 R_3 R_5 q_m s^3 + C_3 C_L L_5 R_3 s^3 + C_3 C_L L_5 s^3 + C_3 C_L R_3 R_5 q_m s^2 + C_3 C_L R_3 s^2 + C_3 C_L s^2 + C_3 R_3 R_5 q_m s + C_3 R_3 s + C_3 s}.$$

10.920 INVALID-ORDER-920 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + C_3 C_5 L_3 L_5 R_5 s^4}{C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^6 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 R_3 s^5 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 L_3 L_5 R_L s^5 + C_3 C_5 L_3 L_5 R_5 s^5}$$

10.921 INVALID-ORDER-921 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L L_5 R_5 R_L s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L L_5 s^4 + C_3 C_5 C_L R_3 R_5 g_m s^5 + C_3 C_5 C_L R_3 R_5 s^5 + C_3 C_5 C_L R_3 R_L g_m s^5 + C_3 C_5 C_L R_3 s^5 + C_3 C_5 C_L R_5 R_L g_m s^5 + C_3 C_5 C_L R_5 s^5 + C_3 C_5 C_L R_L g_m s^5 + C_3 C_5 C_L R_L s^5 + C_3 C_5 C_L s^5 + C_3 C_5 R_3 R_5 g_m s^5 + C_3 C_5 R_3 R_5 s^5 + C_3 C_5 R_3 R_L g_m s^5 + C_3 C_5 R_3 s^5 + C_3 C_5 R_5 R_L g_m s^5 + C_3 C_5 R_5 s^5 + C_3 C_5 R_L g_m s^5 + C_3 C_5 s^5 + C_3 R_3 R_5 g_m s^5 + C_3 R_3 R_5 s^5 + C_3 R_3 R_L g_m s^5 + C_3 R_3 s^5 + C_3 R_5 R_L g_m s^5 + C_3 R_5 s^5 + C_3 R_L g_m s^5 + C_3 s^5 + C_5 R_3 R_5 g_m s^5 + C_5 R_3 R_5 s^5 + C_5 R_3 R_L g_m s^5 + C_5 R_3 s^5 + C_5 R_5 R_L g_m s^5 + C_5 R_5 s^5 + C_5 R_L g_m s^5 + C_5 s^5 + R_3 R_5 g_m s^5 + R_3 R_5 s^5 + R_3 R_L g_m s^5 + R_3 s^5 + R_5 R_L g_m s^5 + R_5 s^5 + R_L g_m s^5 + s^5}{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + C_3 C_5 C_L L_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_5 R_3 R_L s^4 + C_3 C_5 C_L L_5 R_5 R_L s^4 + C_3 C_5 C_L L_5 R_L s^4 + C_3 C_5 C_L L_5 s^4 + C_3 C_5 C_L R_3 R_5 g_m s^5 + C_3 C_5 C_L R_3 R_5 s^5 + C_3 C_5 C_L R_3 R_L g_m s^5 + C_3 C_5 C_L R_3 s^5 + C_3 C_5 C_L R_5 R_L g_m s^5 + C_3 C_5 C_L R_5 s^5 + C_3 C_5 C_L R_L g_m s^5 + C_3 C_5 C_L R_L s^5 + C_3 C_5 C_L s^5 + C_3 C_5 R_3 R_5 g_m s^5 + C_3 C_5 R_3 R_5 s^5 + C_3 C_5 R_3 R_L g_m s^5 + C_3 C_5 R_3 s^5 + C_3 C_5 R_5 R_L g_m s^5 + C_3 C_5 R_5 s^5 + C_3 C_5 R_L g_m s^5 + C_3 C_5 s^5 + C_3 R_3 R_5 g_m s^5 + C_3 R_3 R_5 s^5 + C_3 R_3 R_L g_m s^5 + C_3 R_3 s^5 + C_3 R_5 R_L g_m s^5 + C_3 R_5 s^5 + C_3 R_L g_m s^5 + C_3 s^5 + C_5 R_3 R_5 g_m s^5 + C_5 R_3 R_5 s^5 + C_5 R_3 R_L g_m s^5 + C_5 R_3 s^5 + C_5 R_5 R_L g_m s^5 + C_5 R_5 s^5 + C_5 R_L g_m s^5 + C_5 s^5 + R_3 R_5 g_m s^5 + R_3 R_5 s^5 + R_3 R_L g_m s^5 + R_3 s^5 + R_5 R_L g_m s^5 + R_5 s^5 + R_L g_m s^5 + s^5}.$$

10.922 INVALID-ORDER-922 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_3R_5g_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_5L_LR_3R_5g_ms^5 + C_3C_5C_LL_5L_LR_3s^5}{(s^2+1)^8}$$

10.923 INVALID-ORDER-923 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + 2 C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5$$

10.924 INVALID-ORDER-924 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, L_L s + R_L + \frac{1}{C_L s} \right)$

$$H(s) = \frac{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_3R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_3L_5R_5s^5}{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_3R_5g_ms^5 + 2C_3C_5C_LL_3L_5R_3R_Lg_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + C_3C_5C_LL_3L_5R_5s^5}.$$

10.925 INVALID-ORDER-925 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 L_L R_5 R_L g_m s^5 + C_3 C_5$$

10.926 INVALID-ORDER-926 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_5 L_L R_3 R_5 R_L g_m s^5 +$$

10.927 INVALID-ORDER-927 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{L_5 s}{C_5 L_5 s^2 + 1} + R_5, \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$

$$H(s) = \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 +$$

10.928 INVALID-ORDER-928 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L \right)$

$$H(s) = -\frac{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + 2 C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_5 R_3 s^4 + C_3 C_5 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_5 R_L s^4 + 2 C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_5 L_5 R_5 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 R_3 R_5 R_L g_m s^4 + 2 C_3 C_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 R_3 R_5 s^4 + C_3 C_5 R_3 R_L g_m s^4 + C_3 C_5 R_3 s^4 + 2 C_3 C_5 R_5 R_L g_m s^3 + C_3 C_5 R_5 R_L s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 R_L s^3 + C_3 C_5 s^3}{C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_L s^4 + 2 C_3 C_5 L_3 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_3 R_3 R_5 s^3 + C_3 C_5 L_3 R_5 R_L s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_3 R_L s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_5 R_3 s^4 + C_3 C_5 L_5 R_5 R_L g_m s^4 + C_3 C_5 L_5 R_L s^4 + 2 C_3 C_5 L_5 R_3 R_5 R_L g_m s^3 + C_3 C_5 L_5 R_3 R_5 s^3 + C_3 C_5 L_5 R_5 R_L s^3 + C_3 C_5 L_5 R_5 s^3 + C_3 C_5 L_5 R_L s^3 + C_3 C_5 L_5 s^3 + C_3 C_5 R_3 R_5 R_L g_m s^4 + 2 C_3 C_5 R_3 R_5 R_L g_m s^4 + C_3 C_5 R_3 R_5 s^4 + C_3 C_5 R_3 R_L g_m s^4 + C_3 C_5 R_3 s^4 + 2 C_3 C_5 R_5 R_L g_m s^3 + C_3 C_5 R_5 R_L s^3 + C_3 C_5 R_5 s^3 + C_3 C_5 R_L s^3 + C_3 C_5 s^3}.$$

10.929 INVALID-ORDER-929 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 s^2 + C_3 C_5 s^2}{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 R_3 R_5 s^4 + 2 C_3 C_5 L_3 L_5 R_3 g_m s^4 + C_3 C_5 L_3 L_5 R_5 g_m s^4 + C_3 C_5 L_3 L_5 s^4 + 2 C_3 C_5 L_3 R_3 R_5 g_m s^3 + C_3 C_5 L_3 R_5 s^3 + C_3 C_5 L_3 s^3 + C_3 C_5 R_3 R_5 g_m s^2 + C_3 C_5 R_3 s^2 + C_3 C_5 R_5 s^2 + C_3 C_5 s^2}.$$

10.930 INVALID-ORDER-930 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \frac{R_L}{C_L R_L s + 1} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4}{C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 R_L s^5 + C_3 C_5 C_L L_3 R_3 R_5 R_L s^4 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4 + 2 C_3 C_5 L_3 L_5 R_3 R_L g_m s^4 + C_3 C_5 L_3 L_5 R_3 s^4 + C_3 C_5 L_3 L_5 R_5 R_L g_m s^4}$$

10.931 INVALID-ORDER-931 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, R_L + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3}{C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_L s^5 + 2 C_3 C_5 C_L L_3 R_3 R_5 R_L g_m s^4 + C_3 C_5 C_L L_3 R_3}$$

10.932 INVALID-ORDER-932 $Z(s) = \left(\infty, \infty, \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \infty, \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, L_L s + \frac{1}{C_L s} \right)$

$$H(s) = -\frac{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_3R_5g_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + 2C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5}{2C_3C_5C_LL_3L_5L_LR_3g_ms^6 + C_3C_5C_LL_3L_5L_LR_5g_ms^6 + C_3C_5C_LL_3L_5L_Ls^6 + C_3C_5C_LL_3L_5R_3R_5g_ms^5 + C_3C_5C_LL_3L_5R_3s^5 + 2C_3C_5C_LL_3L_LR_3R_5g_ms^5 + C_3C_5C_LL_3L_LR_3s^5}.$$

$$\mathbf{10.933 \quad INVALID-ORDER-933} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \quad \frac{L_L s}{C_L L_L s^2 + 1} \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + 2 C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 s^5 + 2 C_3 C_5 L_3 L_5 L_L R_3 g_m s^5 + C_3 C_5 L_3 L_5 L_L R_5 g_m s^5 + C_3 C_5 L_3 L_5 L_L s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4}$$

$$\mathbf{10.934 \quad INVALID-ORDER-934} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \quad L_L s + R_L + \frac{1}{C_L s} \right)$$

$$H(s) = - \frac{2 C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 g_m s^4}{2 C_3 C_5 C_L L_3 L_5 L_L R_3 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 g_m s^5 + 2 C_3 C_5 C_L L_3 L_5 R_3 R_L g_m s^5 + C_3 C_5 C_L L_3 L_5 R_3 s^5 + C_3 C_5 C_L L_3 L_5 R_5 g_m s^4}$$

$$\mathbf{10.935 \quad INVALID-ORDER-935} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \quad \frac{1}{C_L s + \frac{1}{R_L} + \frac{1}{L_L s}} \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 R_L s^6 + C_3 C_5 C_L L_3 L_L R_3 R_5 R_L s^5 + C_3 C_5 L_3 L_5 L_L R_3 R_5 g_m s^5 + 2 C_3 C_5 L_3 L_5 L_L R_3 R_L g_m s^5 + C_3 C_5 L_3 L_5 L_L R_3 s^5 + C_3 C_5 L_3 L_5 R_3 R_5 g_m s^4}$$

$$\mathbf{10.936 \quad INVALID-ORDER-936} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \quad \frac{L_L s}{C_L L_L s^2 + 1} + R_L \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + 2 C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + 2 C_3 C_5 C_L L_3 L_L R_3 R_5 R_L g_m s^5}$$

$$\mathbf{10.937 \quad INVALID-ORDER-937} \quad Z(s) = \left(\infty, \quad \infty, \quad \frac{R_3 \left(L_3 s + \frac{1}{C_3 s} \right)}{L_3 s + R_3 + \frac{1}{C_3 s}}, \quad \infty, \quad \frac{R_5 \left(L_5 s + \frac{1}{C_5 s} \right)}{L_5 s + R_5 + \frac{1}{C_5 s}}, \quad \frac{R_L \left(L_L s + \frac{1}{C_L s} \right)}{L_L s + R_L + \frac{1}{C_L s}} \right)$$

$$H(s) = - \frac{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5}{C_3 C_5 C_L L_3 L_5 L_L R_3 R_5 g_m s^6 + 2 C_3 C_5 C_L L_3 L_5 L_L R_3 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_3 s^6 + C_3 C_5 C_L L_3 L_5 L_L R_5 R_L g_m s^6 + C_3 C_5 C_L L_3 L_5 L_L R_L s^6 + C_3 C_5 C_L L_3 L_5 R_3 R_5 R_L g_m s^5}$$